Enhance Energy Inc.
Approval No. 12832O
Clive D-3A Enhanced Oil Recovery Project

2024 Annual Report

May 16th, 2025

Alberta Energy Regulator
Compliance Verification | Compliance & Liability Management
Suite 1000, 250 – 5 Street SW
Calgary, Alberta
T2P 0R4

Attn: Ashley Zemlak

Re: Approval No. 12832O 2024 Annual Report

Enhance Energy Inc. submits the attached 2024 Annual Report for Approval No. 12832O. The Clive D-3A Enhanced Oil Recovery Project.

If you have any comments, questions, or concerns about the Annual Technical Report, please contact the undersigned at (403) 984-0207 or by e-mail at cmarkwart@enhanceenergy.com

Sincerely,

Chris Markwart, P.Tech.(Eng.)
Reservoir Engineering Specialist
Enhance Energy Inc.

10) The Operator must submit annual progress reports and make presentations on the CO_2 EOR scheme to the Compliance Verification Group in the AER Compliance & Liability Management Branch, with the first to occur after one year commencement of the miscible fluid injection. These reports and presentations shall include the following information in metric units:

- ***a) a summary of the scheme operations including:***
  - ***i) any new project wells drilled in the reporting period, any workovers/treatments done on the injection and monitoring wells including the reasons for and results of the workovers/treatments,***
  - ***ii) changes in injection equipment and operations,***
  - ***iii) identification of problems, remedial action taken, and impacts on scheme performance, and***
  - ***iv) a table of analysis data including baseline values and testing results. The table must include the unique well indicators, sample dates, test dates and results for all soil, CBM, water and deep monitoring wells, and wells for vent flowing tests.***

This is the fifth annual progress report for the Clive D-3A Carbon Capture, Utilization, and Storage (CCUS) project, summarizing key development activities undertaken in 2024. It now includes the Part 2 Expansion area, with reporting consolidated at the full project level.

During 2024, Enhance permanently sequestered 1.5 Mt of CO_2 into the Clive D-3A reservoir. As of March 2025, the Clive CCUS project has safely stored over 6.5 Mt of CO_2, making the Enhance Clive Sequestration Facility a world-class, safe, and trusted CCUS project in Alberta, Canada. With Enhance's storage capacity, capture from two large emitter partners and common transportation infrastructure, the Alberta Carbon Trunk Line Project is one of the world's most successful CCUS projects.

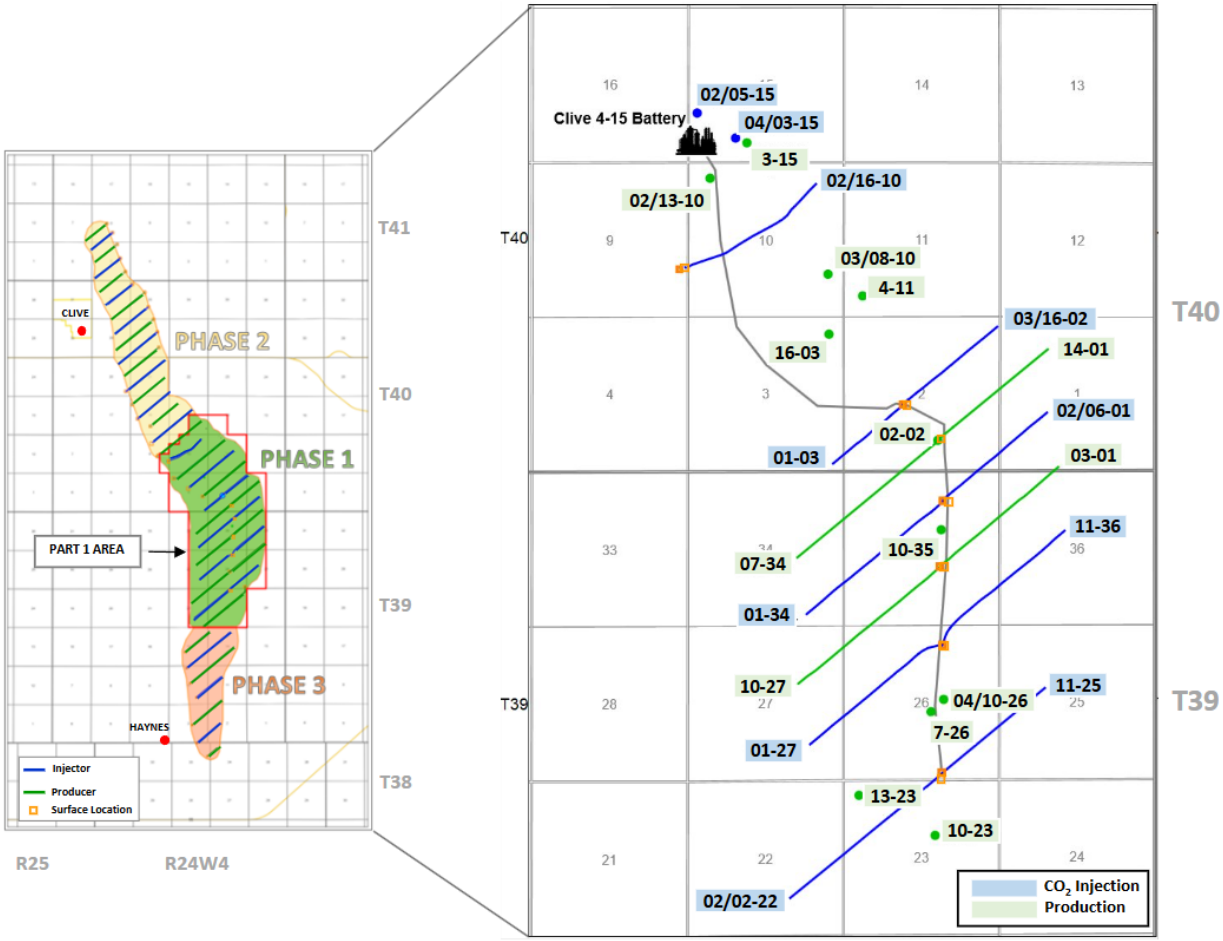
A key to the success of any CCUS project is its energy efficiency. Throughout 2024, Enhance remained dedicated to improving energy efficiency, particularly evident in our key initiatives. With strategic emphasis on improving compression efficiency, we pursued innovative approaches to enhance our operational performance by fine-tuning operating conditions and conducting comprehensive testing on our gas recycling infrastructure. On a total Horsepower used per MMcf/d of Recycle (Hp/MMcf/d) basis, we have reduced our energy consumption below our original design basis by approximately 30%.

Major infrastructure upgrades during 2024 included the addition of a second recycle compressor R2, which doubled the recycle capacity of the project to 180 MMcf/d, a line loop in Central Clive to increase production take away capacity and the addition of a geothermal line loop heat exchanger to supplement Battery heat.

During 2024 Enhance also completed the conversion of our producing wells from ESP's to flowing wells using the CO_2 in the reservoir to lift the oil to the surface.

In 2024, Enhance drilled two new vertical producers at 102/13-10-040-24W4/00 and 103/08-10-040-24W4/00, as well as two new vertical injectors at 102/05-15-040-24W4/00 and 104/03-15-040-24W4/00. Enhance also deepened the 100/04-11-040-24W4/00 well by 3.5m, and reactivated suspended wells 104/10-26-039-24W4/00, 100/10-23-039-24W4/00, and 100/13-23-039-24W4/00.

Figure 1: Clive D-3A Part 1 Area Activity Map

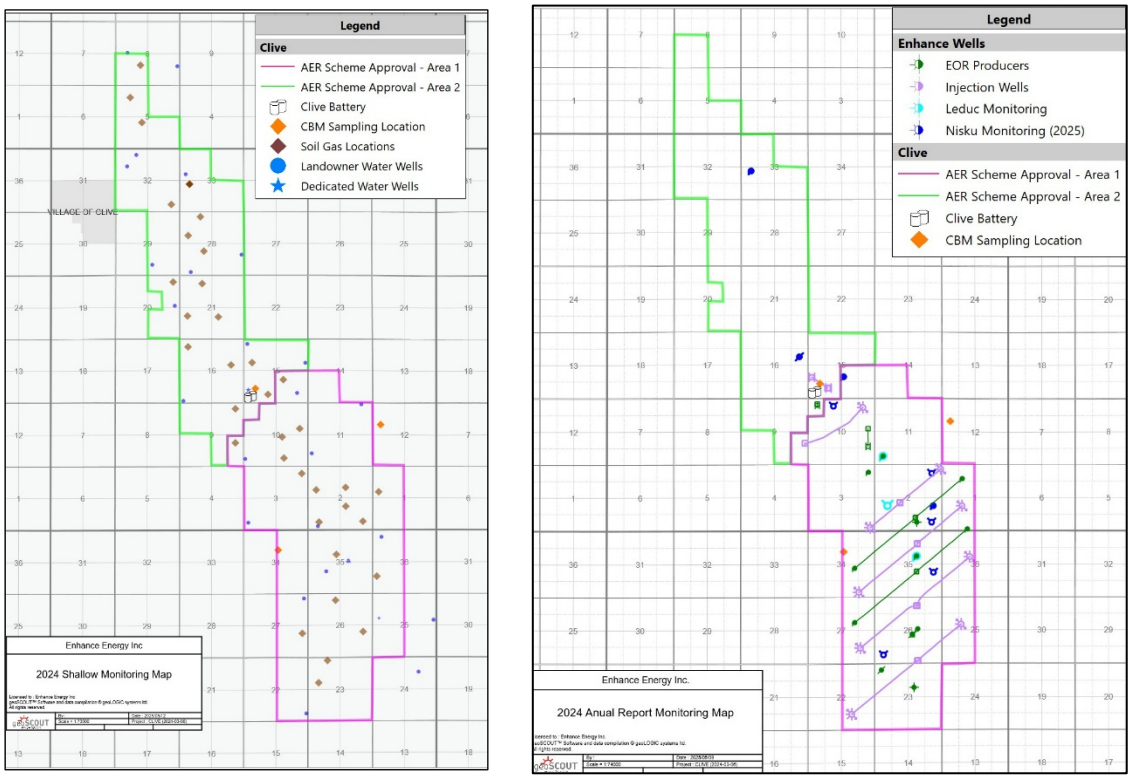


In 2019, the Clive D-3A CO_2 Enhanced Oil Recovery (EOR) - Part 1 - Measurement, Monitoring, and Verification (MMV) baseline and monitoring program was launched. Starting in 2020, Enhance Energy implemented annual monitoring programs. Comprehensive details of the 2019–2024 soil and groundwater baseline monitoring program, including sampling procedures, test dates, and results, are provided in Attachment 1 (2024 MMV Soil & Groundwater Monitoring Annual Report). Similarly, details of the 2019–2024 Surface Casing Vent Flow (SCVF) baseline monitoring program, including test dates and results, are included in Attachment 2 (2019–2024 SCVF Baseline Monitoring Program). Data from the 2024 MMV program confirms that CO_2 remains contained within the Leduc formation.

b) a full discussion of the pressures of the Leduc and Nisku formations, including stabilized shut-in formation pressures and on how the pressure compares with the formation pressure expected for the cumulative volume of the CO_2 injected, along with an updated estimate of what the actual cumulative injection volume will be at the maximum shut-in formation pressure specified in clause 6, subclause a,

In 2019, the Clive D-3A CO_2 Enhanced Oil Recovery (EOR) - Part 1 - Measurement, Monitoring, and Verification (MMV) baseline and monitoring program was launched. Starting in 2020, Enhance Energy implemented annual monitoring programs. Comprehensive details of the 2019–2024 soil and groundwater baseline monitoring program, including sampling procedures, test dates, and results, are provided in Attachment 1 (2024 MMV Soil & Groundwater Monitoring Annual Report). Similarly, details of the 2019–2024 Surface Casing Vent Flow (SCVF) baseline monitoring program, including test dates and results, are included in Attachment 2 (2019–2024 SCVF Baseline Monitoring Program). Data from the 2024 MMV program confirms that CO_2 remains contained within the Leduc formation.

Figure 2: Clive D-2A and D-3A 2024 Monitoring Wells



The discovery pressure of the Clive Leduc D-3A reservoir was 17,593 kPa at the pool datum depth of 1,017.8 meters sub-sea. Under the current approval, the maximum Leduc reservoir pressure cannot exceed 17,500 kPag and must not be less than 13,000 kPag. The current

average reservoir pressure of the five Leduc wells surveyed in 2024 is 13,655 kPa, which is approximately 22% lower than the 1952 discovery pressure (Table 1&2).

Table 1: Summary of Clive D-3 A Part 1 Area Monitoring Well Pressures

	Clive D-3 A Monitoring Wells (Pressures at 1,017.8 mss)			Clive D-2 A Monitoring Wells (Pressures at 982.5 mss)					
	100/10-35	100/05-02	100/04-11	100/04-26	100/08-35	100/12-01	100/01-02	100/16-02	100/14-10
Mar-19									
May-19									
Jun-19									
Oct-19						11,256		9,573	
Oct-20									
Nov-20	13,317	13,426	13,166	12,713	12,677		12,705	9,559	
May-21	13,340	13,478							
Jun-21				12,764	12,762		12,761	9,629	
Aug-21	13,363	13,488	13,248						
Aug-22									12,856
Nov-22			13,251	12,864	12,898			9,779	
May-23	13,502								
Jun-23		13,893							
Sep-23			13,357	13,031	13,016			9,944	12,946
Apr-24		13,892		13,041	13,083			9,988	12,979
May-24	13,617								
Aug-24		13,663							
Nov-24			13,527						

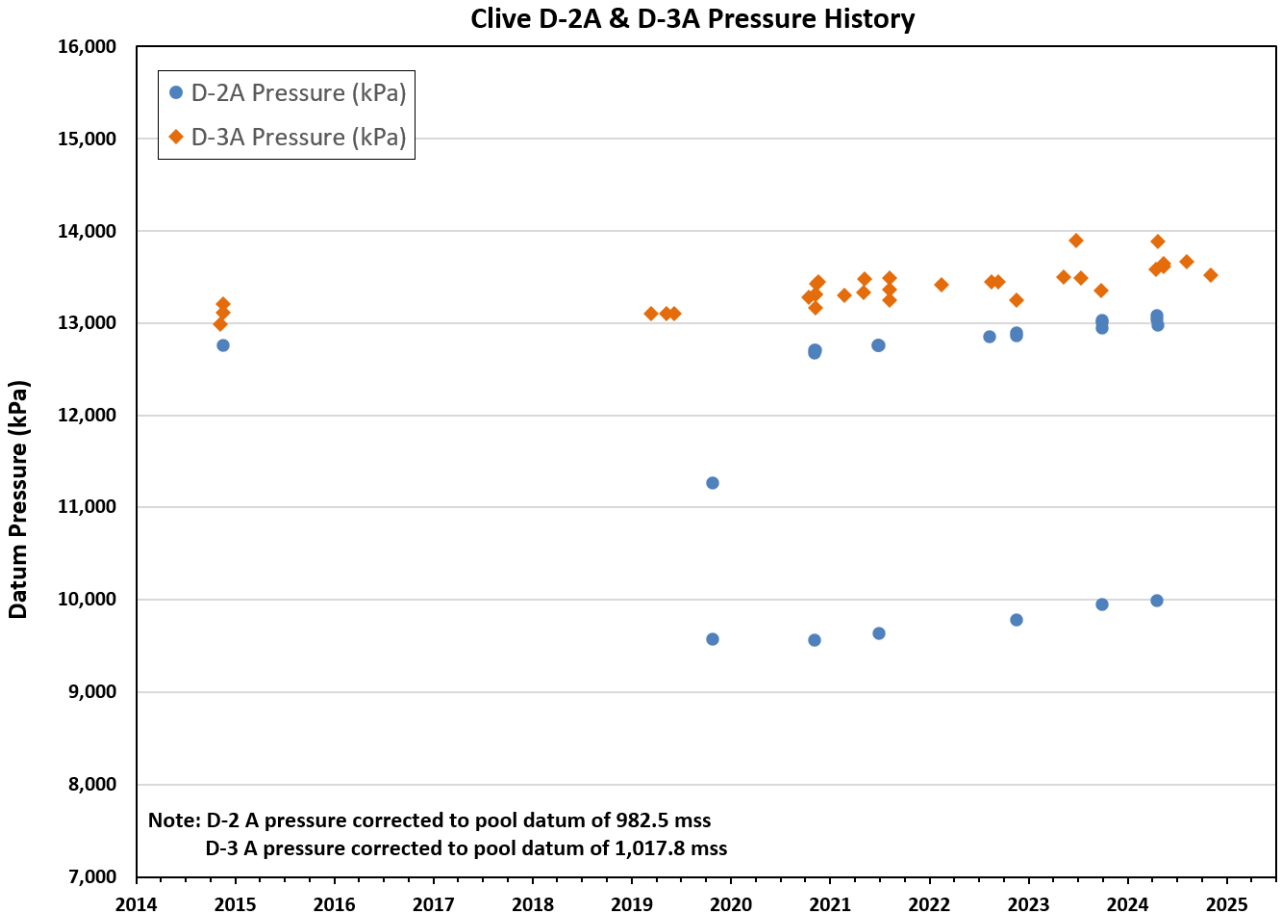
Table 2: Summary of Clive D-3 A Part 1 Area Additional Well Pressures

	Clive D-3 A Additional Pressures (Pressures at 1,017.8 mss)									
	100/01-34	100/10-27	100/14-01	102/11-36	103/16-02	100/11-25	102/02-22	102/02-02	100/03-15	104/10-26
Mar-19					13,101					
May-19	13,110									
Jun-19				13,107						
Oct-19										
Oct-20		13,286								
Nov-20			13,450							
Feb-21							13,300			
Feb-22	13,413									
Aug-22						13,451				
Sep-22	13,449									
Jul-23								13,486		
Apr-24									13,588	
May-24										13,644

The discovery pressure of the Clive Nisku D-2A reservoir was 17,097 kPa at the pool datum depth of 982.5 meters sub-sea. Pressures from the Nisku monitoring wells at 100/04-26-039-24W4/02, 100/08-35-039-24W4/02, and 100/14-10-040-24W4/02 averaged 13,034 kPa in 2024, which is approximately 24% lower than the discovery pressure (Table 1). Due to the more heterogeneous nature of the Clive D-2A reservoir's geology, there is more variability in Nisku reservoir pressures across the pool as seen in Figure 3. Pressure from the Nisku 100/16-02-040-24W4/00 well is currently 9,988 kPa. Based on the previous pressure survey results on this well, this diminished pressure in comparison to the rest of the Nisku deep monitoring wells suggests that a portion of the Nisku pool around the 100/16-02-040-24W4/00 well is partially hydraulically isolated from the lower part of the Nisku pool (represented by 100/04-26-039-24W4/02, 100/08-35-039-24W4/02 and 100/01-02-040-24W4/02). A review of the 100/16-02-040-24W4/02 well log reveals that there is a one-meter-thick impermeable layer of anhydrite at 1,889 m, which is the probable cause of the partial hydraulic isolation.

Figure 3 below presents a graphical plot of reservoir datum pressures for the Clive D-2A and D-3A reservoirs from 2014 to 2024.

Figure 3: Clive D-2A and D-3A Datum Pressure 2014-2024



The average reservoir pressure in the Clive D-3A has increased by 549 kPa since the project started (Figure 3). The average reservoir pressure of the Clive D-3A has increased by 95 kPa to 13,655 kPa during 2024. Reservoir simulation models predicted an average reservoir pressure of approximately 15,000 kPa during CO_2 injection. Due to the greater than expected transmissivity of the Clive D-3A reservoir and the underlying Bashaw Platform water leg, the average stabilized reservoir pressure is not expected to increase significantly because the pressure will continue to be dissipated into the Leduc reservoir and the Bashaw Platform water leg.

Pressure communication amongst the Leduc and Nisku pools of the Bashaw Reef Complex via the water leg has been documented as early as 1966 and discussed by Springer & Tsang in (CIM 83-34-24) Innisfail-Clive-Nevis Reef Chain Revisit (Attachment 3). Because of this connectivity, it is not expected that the maximum shut-in formation pressure of 17,500 kPag specified in clause 6, subclause a, will be encountered over the lifespan of the project. Enhance Energy continues to closely watch reservoir pressures and will report any changes to this assessment as the project progresses.

In 2024, pressure surveillance within the Clive D-2A reservoir indicated stable reservoir conditions, with no evidence of direct vertical pressure communication with the underlying Leduc reservoir. As previously documented, the Nisku and Leduc pools in the Clive area are hydraulically connected through the regional aquifer system associated with the Bashaw Platform's water leg. Pressure data from Clive D-2A monitoring wells recorded an average increase of approximately 37 kPa, consistent with ongoing pressure dissipation within the aquifer. This magnitude is notably lower than the 125 kPa increase observed in 2023, reflecting a reduced transmissive response. Correspondingly, the average pressure increase within the Nisku reservoir in 2024 was 88 kPa lower than that observed in 2023, further supporting a moderated regional pressure response during the reporting period.

c) a discussion of the overall performance of the scheme, including the incremental oil recovery and the volume of incremental oil produced as a result of the miscible fluid injection, how the reservoir pressure is changing over time; updated geological maps; and updated CO_2 plume extent and pressure distribution models, if needed. The updated geological maps should be based on all new data obtained since the commencement of the injection to the end of the reporting period,

The injection and production capacity of the Clive D-3A pool has exceeded our initial expectations. Having good reservoir processing capacity is key to EOR performance. The extremely high processing capacity of the reservoir makes it possible to keep both injection and production pressure above minimum miscibility pressure (determined by Slim Tube tests to be between 11.4-12.5 MPa). After 46 months of gas injection, the average reservoir pressure is approximately 13.6 MPa, below the reservoir discovery pressure of 17.5 MPa, above the minimum miscibility pressure of less than 12.5 MPa, and above the approved minimum operating pressure of 13.0 MPa.

As planned Enhance injected an initial slug of CO_2 before bringing on production, and as predicted by the simulation model breakthrough of CO_2 in 2020 was expected. Enhance had an existing 8 MMcf/d battery compressor ready to manage gas volumes at the commencement of production. While CO_2 breakthrough was predicted, initial recycle rates were higher than expected. A larger 52 MMcf/d recycle compressor had already been pre-ordered and was running by mid-January 2021 to manage the actual CO_2 recycle volumes. Yearly average gas production climbed from 48.5 MMcf/d in 2022 to 67.5 MMcf/d in 2023 and exited in December 2023 at 88.3 MMcf/d.

In 2023, Enhance continued to evaluate the effectiveness of WAG (Water Alternating Gas) vs SGI (Straight Gas Injection) in the Clive D-3A reservoir. All four of the approved WAG injectors 100/01-03-040-24W4/00, 100/01-34-039-24W4/00, 102/06-01-040-24W4/00 and 103/16-02-040-24W4/00 were WAG cycled during 2023. As expected, due to the viscosity differences between water and CO_2, the bottom-hole injection pressure under water was approximately 2,500 kPa higher than CO_2 at similar injection rates. The WAG response displayed several positive signs in that the water injected under WAG was seen in the offsetting horizontal producers and the produced gas decreased under WAG. However, there was only a minimal improvement in oil production under WAG. Results suggested that SGI (Straight Gas Injection) is the optimal recovery mechanism for Clive.

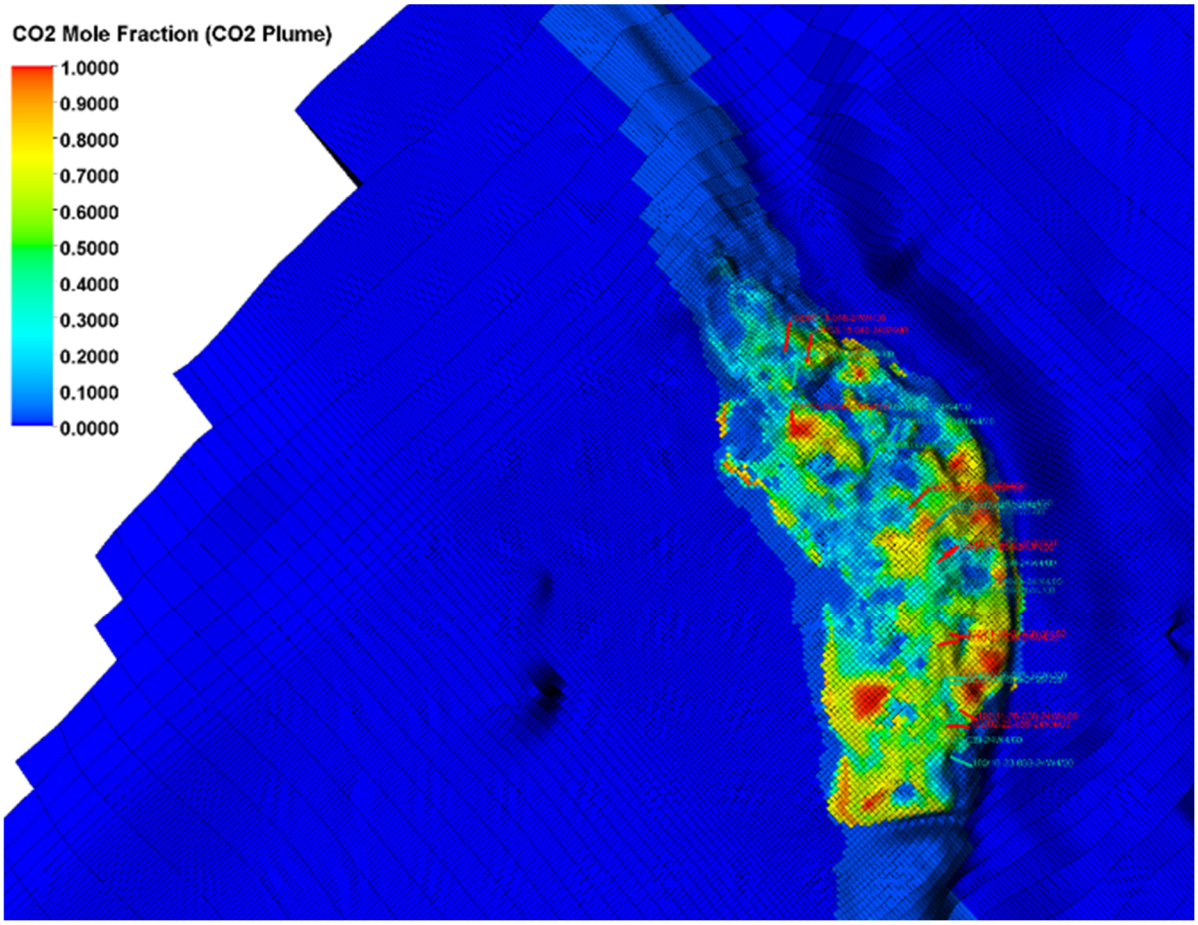
A second recycle compressor (R2) was commissioned and brought online in mid-November 2024, effectively doubling the total gas recycle capacity to 180 MMcf/d. As a result, average daily gas production increased from 67.5 MMcf/d in 2023, reaching 122.6 MMcf/d by December 2024.

Simulation modeling continues to be a valuable tool for Enhance to predict and monitor CO_2 plume behavior and enhanced oil recovery performance. Before the commencement of CO_2 injection, Enhance built a robust reservoir simulation model of the Leduc Formation in Clive. The geological model was constructed on a framework of geomodelling which captured the complex relationships that recorded constantly fluctuating conditions during carbonate platform growth at Clive distilled from detailed core studies and petrophysical work. The simulation model was history matched to over 50 years of production and injection history and was used to aid in the design of CO_2 injection plans and the development of the MMV Plan for the Clive Part 1 and Part 2 areas.

In 2024, Enhance Energy advanced the geomodelling techniques used to characterize the Clive Leduc reservoir and its hydraulic connection to the Bashaw platform, incorporating a significantly expanded simulation model to support the project's northward expansion and accurately track CO_2 plume movement and storage.

This enhanced model supports the 2024 annual report, confirming that CO_2 plume migration within the reservoir met expectations Figure 4. As the CO_2 flood progresses, the simulation model's scope and complexity will continue to evolve to meet the project's growing demands.

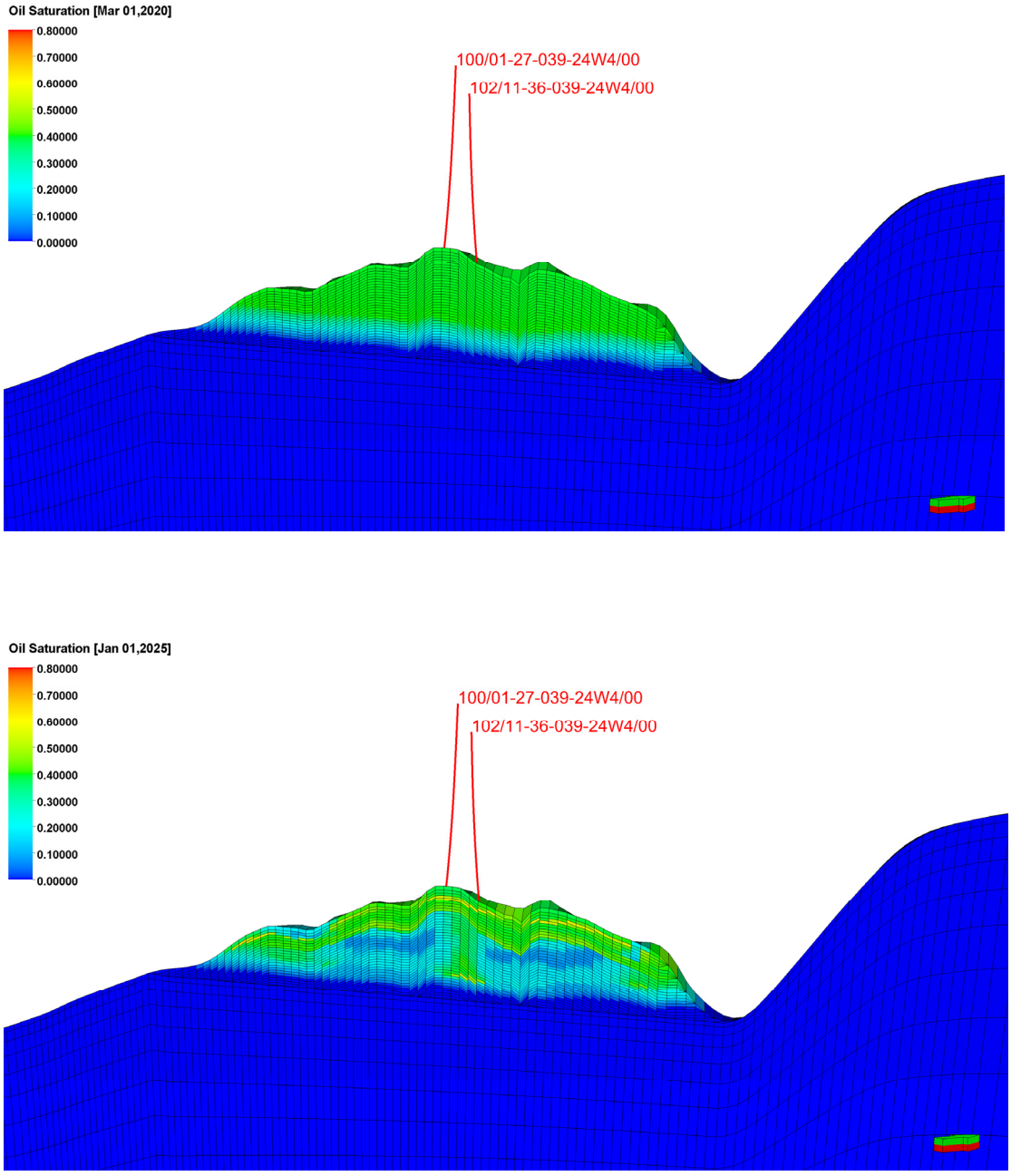
Figure 4: 2024 Simulation Study CO_2 Plume Forecast



No unexpected movement of CO_2 was detected during the 2024 MMV monitoring program (Attachment 1), and no new Surface Casing Vent Flows were seen in the MMV area during the 2024 reporting period (Attachment 2).

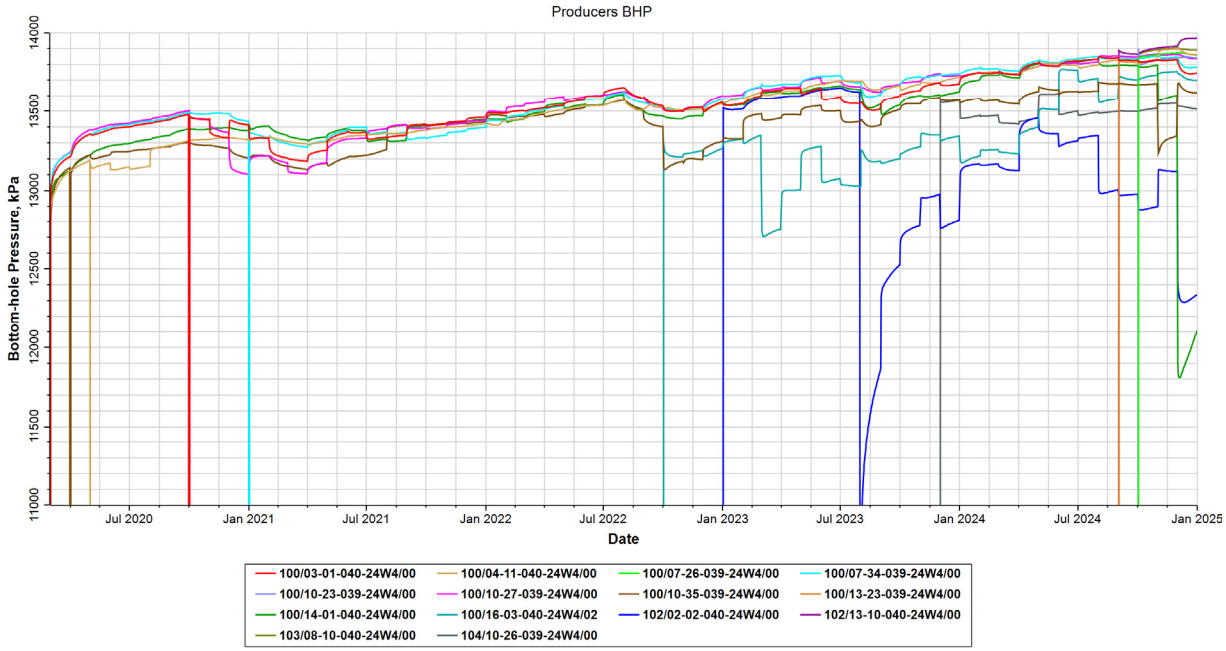
The oil saturation modeled in the vicinity of the CO_2 injectors has continued to decline, showing that CO_2 is being miscibly absorbed into the oil. This results in oil swelling, viscosity reduction, and mobilization of the residual oil with CO_2. Figure 5 below shows the oil saturation along a cross-sectional slice at the 100/01-27-039-24W4/00 injector and the 102/11-36-040-24W4/00 injector before injection and after 58 months of CO_2 injection.

Figure 5: 2024 Simulation Study Oil Saturation Forecast



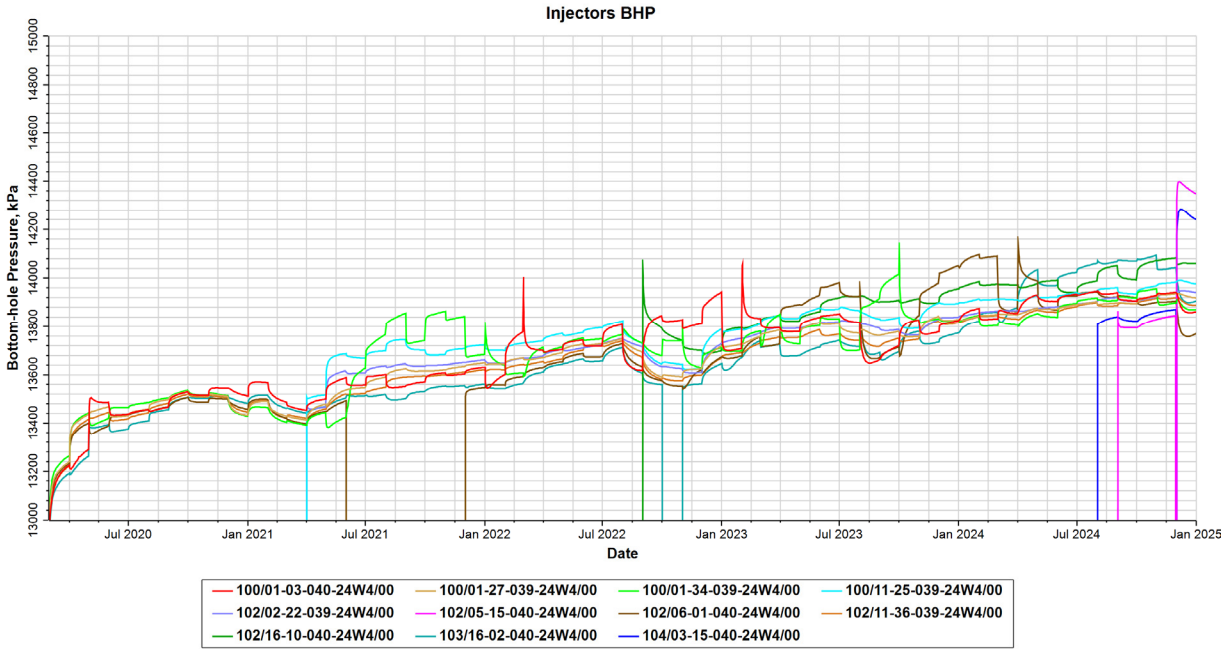
Producing bottom hole pressures during 2024 averaged 13.5 MPa, and fluid withdrawal rate was limited by bottom hole pump capacity and flow line pressures. During 2024 Enhance completed the conversion of our producing wells from ESP's to flowing wells using the CO_2 in the reservoir to lift the oil to the surface. The 2024 Simulation Study prediction of bottom hole producing pressures for the production wells can be seen below in Figure 6.

Figure 6: 2024 Simulation Study Producing Bottom Hole Pressure Forecasts



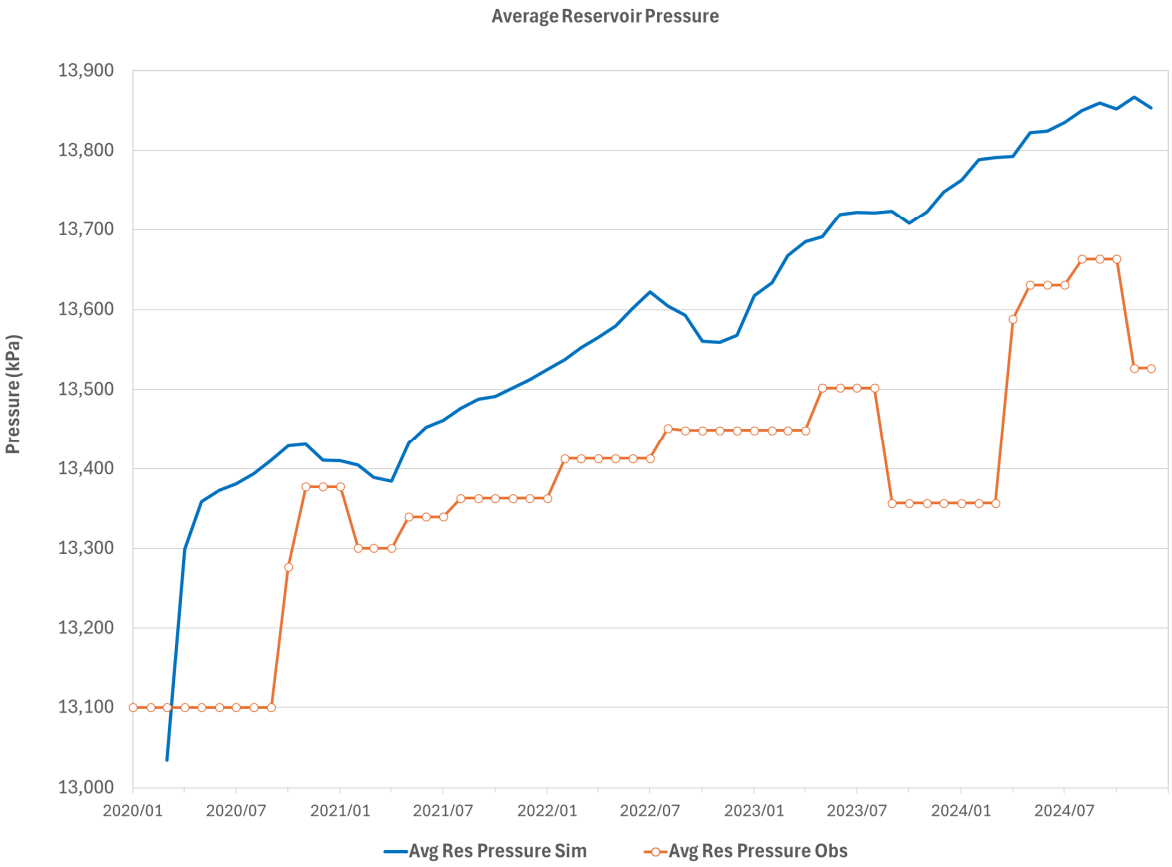
Estimated average bottom hole injection pressures in 2024 have ranged from 13.8-14.2 MPa (Table 5) with injection rates limited by wellbore design. The higher injection pressures are associated with water injection as expected. The 2024 Simulation Study prediction of bottom hole injection pressures for the injection wells is below in Figure 7.

Figure 7: 2024 Simulation Study Bottom Hole Injection Pressure Forecasts



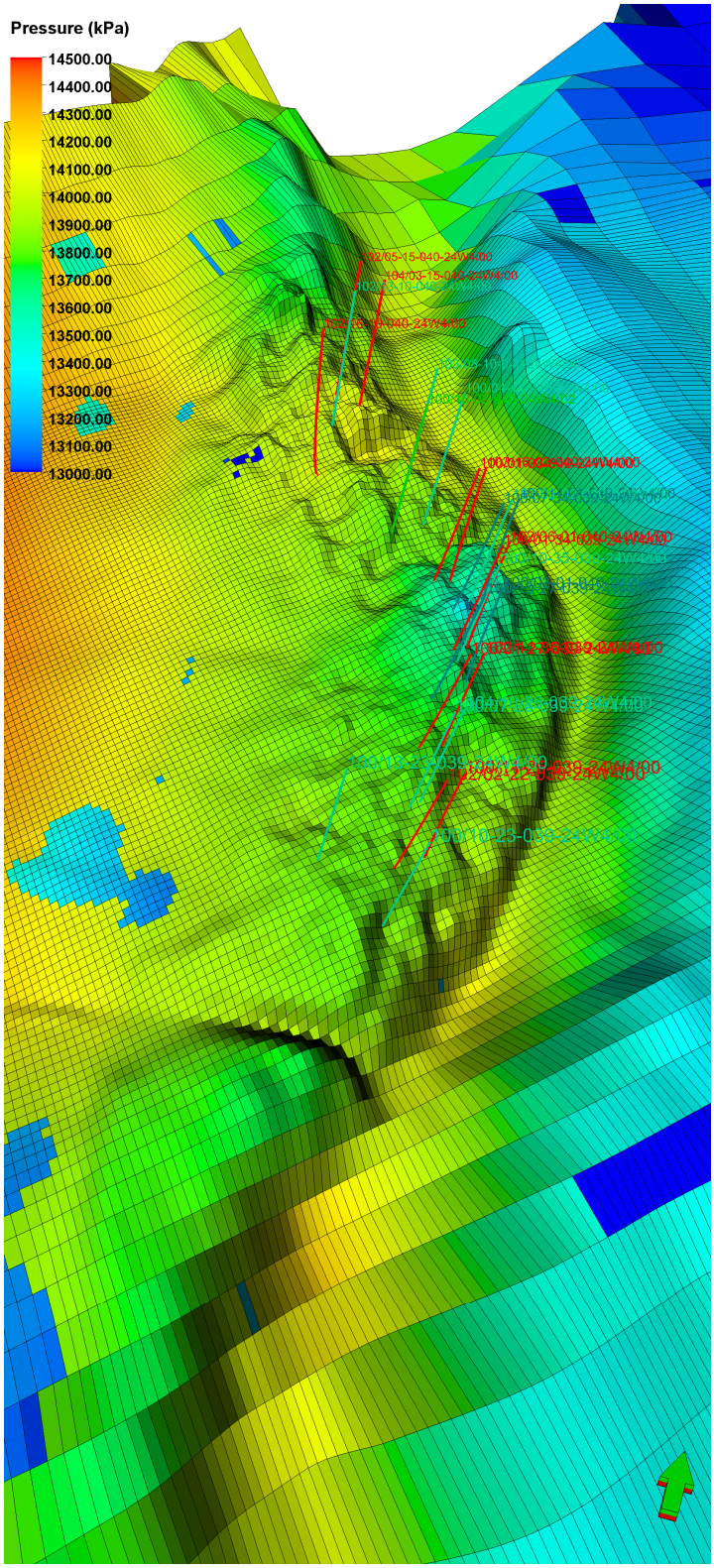
The simulation studies Average Reservoir Pressure prediction is in close agreement to pressure survey observations and is approximately 327 kPa higher than the actual field observation of approximately 13,526 kPa as of December 2024 (Figure 8).

Figure 8: 2024 Simulation Study Average Reservoir Pressure Forecast vs Actual



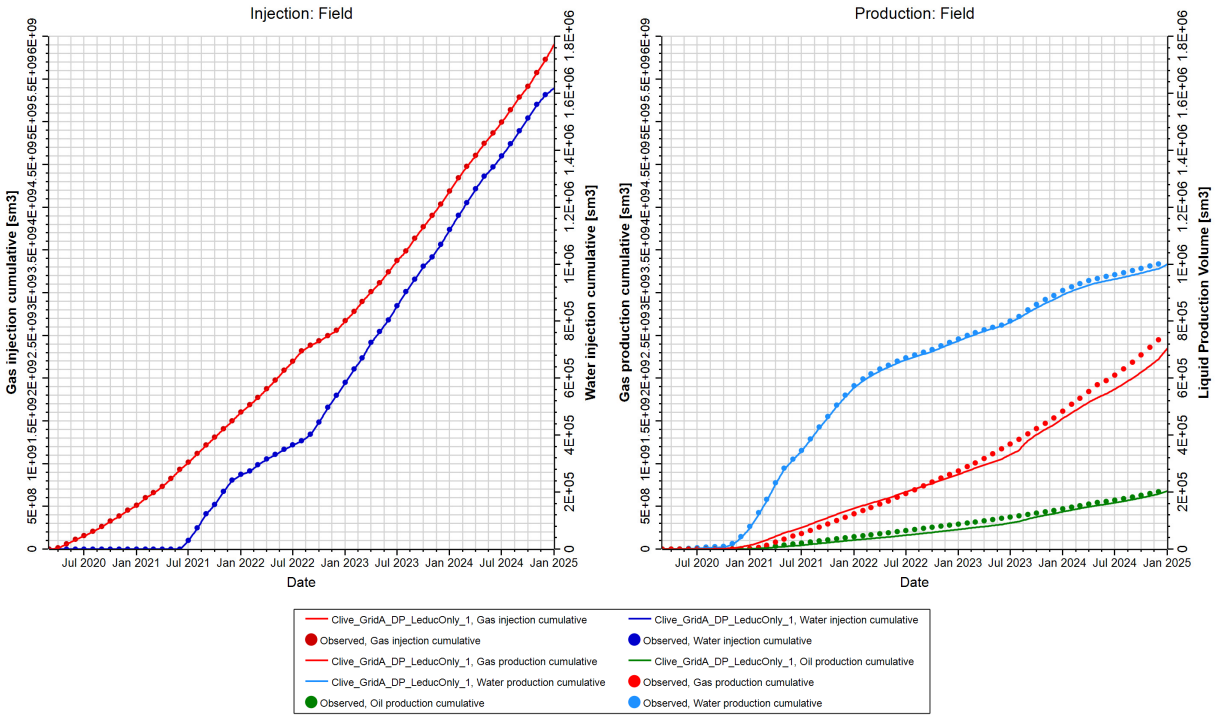
A graphical depiction of the simulation models Average Reservoir Pressure is in Figure 9 below. Pressure propagates almost uniformly across the reservoir boundary, which confirms the high deliverability of the Leduc formation in the Clive field.

Figure 9: 2024 Simulation Study Total Model Average Reservoir Pressure Forecast



A history match of the 2024 Simulation Study is displayed below (Figure 10). The results are in close agreement with field production and injection history based on injection and production cumulative volumes.

Figure 10: 2024 Simulation Study History Match



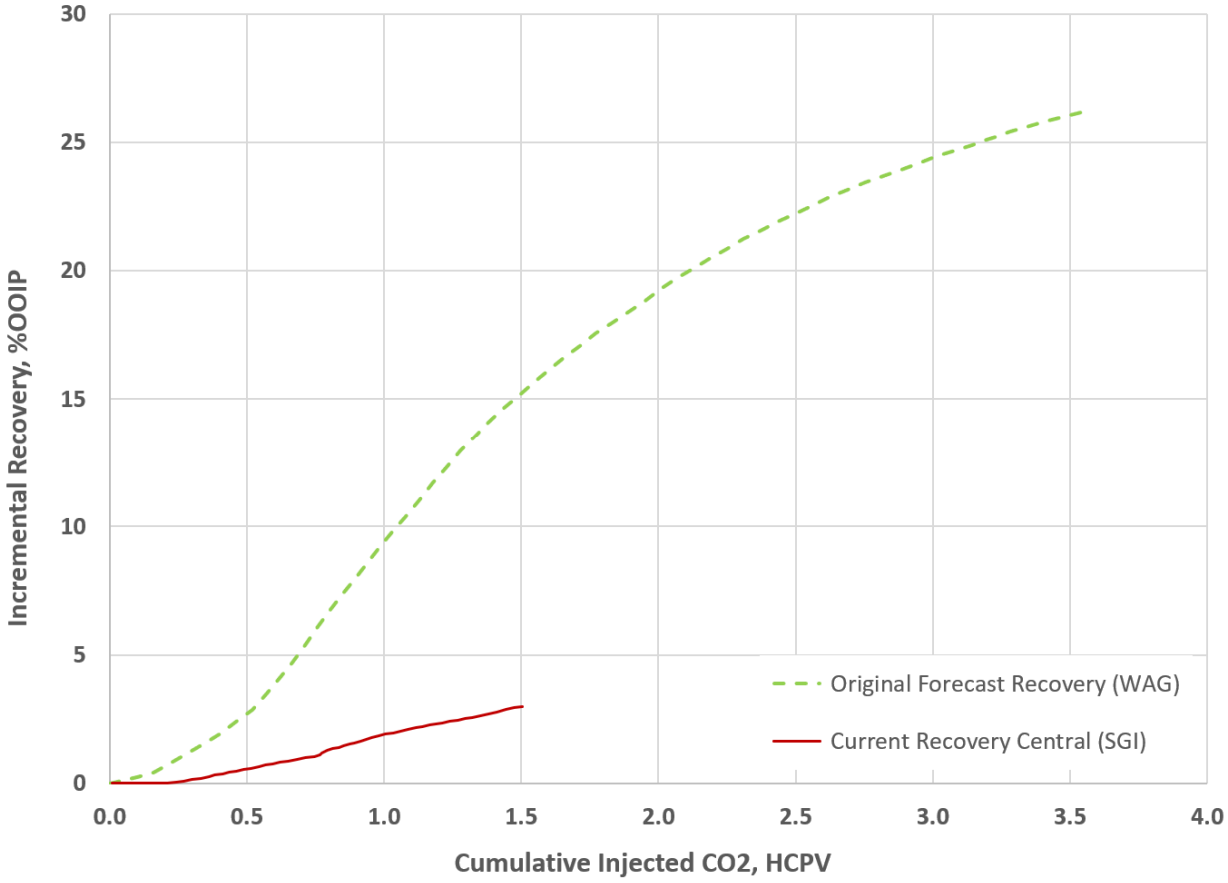
Due to battery start-up constraints in Q4 2020, only two production wells were initially brought onstream. All four drilled producers were online by mid-January 2021 when the main recycle compressor was commissioned. The graph below shows an updated recovery factor curve for oil production from our original simulation model in comparison to CO_2 HCPV injected for Central Clive.

However, it must be noted that the Original Forecast Recovery Curve below (Figure 11) includes four additional horizontal producers (8 Total) in Central Clive and was based on a WAG development scenario. In 2024, Enhance switched to Straight Gas Injection (SGI) and had not drilled the remaining four producers due to facility recycle capacity constraints for most of the year. An updated SGI forecast will be included in next years report and will include an updated EOS (Equation of State) which is currently being developed.

In mid-November 2024, a second recycle compressor R2 came online which doubled the recycle capacity of the project to 180 MMcf/d. This enabled Enhance to drill two new vertical

producers at 102/13-10-040-24W4/00 and 103/08-10-040-24W4/00, as well as two new vertical injectors at 102/05-15-040-24W4/00 and 104/03-15-040-24W4/00. Enhance also deepened the 100/04-11-040-24W4/00 well by 3.5m, and reactivated suspended wells 104/10-26-039-24W4/00, 100/10-23-039-24W4/00, and 100/13-23-039-24W4/00. The new wells and facility changes are currently being evaluated and optimized.

Figure 11: HCPV CO_2 Injected vs Incremental Recovery Factor



d) ***a discussion on how an increase pressure due to the miscible fluid injection could have an adverse effect on hydraulic fracturing of the target formation or caprock, and the displacement of brine upward out of the target formation via a conduit such as fracture or fault, and wellbores within the area of influence. In addition, a list of all wells that penetrated the injection target formation surrounding the*** **injection well where the pressure increase could also have an adverse effect,**

The average reservoir pressure in the Clive D-3A has increased by 550 kPa since the project started (Figure 3). Because of the reservoir's connectivity to the Bashaw Reef Complex via the water leg, it is not anticipated that the maximum shut-in formation pressure of 17,500 kPa

specified in clause 6, subclause (a), will be encountered over the lifespan of the project.

Containment assurance is a top priority for Enhance Energy and a detailed wellbore containment study was undertaken, reviewed by the AER, and submitted in Directive 065 application no. 1923727 (Approval 12832B). Enhance Energy has also implemented a comprehensive MMV program over the area to monitor for any sign of a containment breach and live reservoir injection and production pressures are monitored via SCADA.

e) ***results and evaluation of all monitoring done during the reporting period including but not limited to: pressure surveys, corrosion protection, fluid analyses, logs and any other data collected that would help in determining the success of the scheme,***

Pressure surveys for the reporting period are included in Attachment 4, and Fluid Analyses are included in Attachment 5.

f) a table showing the following data for each month of the reporting period:

i) a representative composition for the injected fluids,
Average composition of the injected fluids is summarized in attached Table 3.

ii) a representative composition for the re-injection streams,
Average composition of the re-injected fluids is summarized in attached Table 4.

iii) mole fraction of the CO_2 and impurities in the injection stream,
Monthly mole fractions of CO_2 and impurities in the injection and re-injection streams are summarized in attached Table 3 and 4, respectively.

iv) standard volume of the CO_2 injected,

v) cumulative volume of the CO_2 injected at standard conditions following the commencement of the scheme,

vi) CO_2 stream formation volume factor,

vii) volume of the CO_2 injected at reservoir conditions,

viii) cumulative volume of the CO_2 injected at reservoir conditions following the commencement of the scheme,

ix) hours on injection, the net amount of the CO_2 injected in the reservoir, in reservoir cubic meters and in standard cubic meters, the difference between total CO_2 injected into and that produced from the scheme,

x) maximum daily injection rate at standard conditions,

xi) average daily injection rate at standard conditions,

xii) maximum wellhead injection pressure and corresponding wellhead injection temperature,

xiii) average wellhead injection pressure and corresponding average wellhead injection temperature,

xiv) estimated or measured average reservoir pressure in the target formation, and

xv) estimated average bottomhole injection pressure.*

**** Include a discussion in detail on how the hydrostatic head of the miscible fluid in the wellbore, friction losses in the tubing, and pressure losses in the reservoir are accounted for in the determination of the average reservoir pressure.***

Monthly tabular data for items 10.f (iv-xv) are attached in Table 5.

To improve our understanding of operating reservoir pressures, Enhance Energy has installed real-time bottom hole production well monitoring sensors on all pumping horizontal oil wells which have continuous monitoring at the pump intake and are tied directly into SCADA. Enhance Energy has also equipped three of our injection wells 100/01-34-039-24W4/00, 100/11-25-039-24W4/00 and 104/03-15-040-24W4/00 with real-time bottom hole injection pressure and temperature sensors tied into SCADA. This creates an additional level of confidence that we are operating the scheme well under the maximum shut-in formation pressure of 17,500 kPag as specified in clause 6, subclause a, of AER Approval 12832O.

Production Wells:

- 100/10-27-039-24W4/00 – BHG landed at reservoir depth (no correction factor)
- 100/07-34-039-24W4/00 – BHG landed at reservoir depth (no correction factor)
- 100/03-01-040-24W4/00 – BHG landed at reservoir depth (no correction factor)
- 100/14-01-040-24W4/00 – BHG landed at reservoir depth (no correction factor)

Injection Wells:

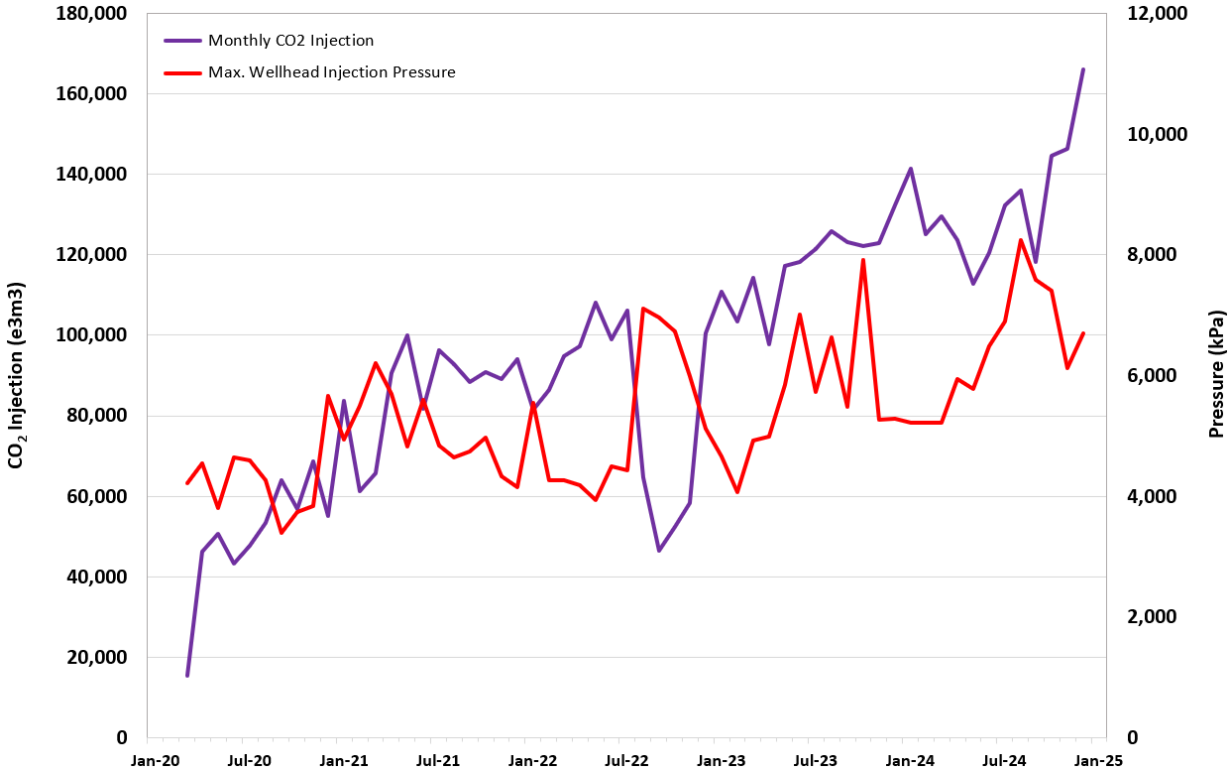
- 100/01-34-039-24W4/00 – BHG landed 60 m above reservoir depth
- 100/11-25-039-24W4/00 – BHG landed at reservoir depth (no correction factor)
- 104/03-15-040-24W4/00 – BHG landed at reservoir depth (no correction factor)

Enhance landed the bottom hole gauges at 90 degrees in the horizontal entry point/'midpoint of perfs' in five of six wells. These gauges are tied directly back to SCADA and have an accuracy of +/-70 kPa based on the manufacturer's specs. No correction factor to a reservoir datum needs to be applied as it would only be a few meters depending on the well. The 100/01-34-039-24W4/00 well gauges were hung 60 m above the midpoint perfs. The estimated average bottom hole injection pressure for this well was calculated by determining the average pressure gradient between the wellhead tubing pressure and the downhole pressure sensor. This pressure gradient (kPa/m) plus 100 kPa was then applied to the 60 m offset distance between the recorder and the reservoir sand face and then added to the downhole pressure sensor's recorded pressure. This method accounts for actual frictional pressure losses in the tubing, temperature gains, and viscosity and density changes of the CO_2 over the 1,839 mMD distance from the injection wellhead to the downhole pressure sensor and only extrapolates the pressure for the final 60 m representing only 3.3% of the total distance from the injection wellhead to the reservoir sand face.

g) a plot showing ongoing monthly injection volumes and the maximum wellhead injection pressure versus time. The plot must display the scheme on an ongoing basis and not just for the reporting period,

A plot of monthly CO_2 injection volume vs max wellhead injection pressure is displayed below in Figure 12.

Figure 12: Monthly CO_2 Injection Volume vs Max Wellhead Injection Pressure



h) a table showing the calculated net tonnes of the CO_2 injected in reservoir and in standard conditions, which is a difference between the miscible fluid injected into and that produced from the scheme:

i) on a monthly basis for the reporting period, and
ii) on an annual basis since the commencement of injection.

Monthly tabular data for item 10.h is attached in Table 6.

i) a table and plot of the calculated voidage replacement ratios both on a monthly and cumulative basis from the start of scheme operations, and

Monthly tabular data of the instantaneous and cumulative voidage replacement ratio is attached in Table 7. Injection of CO_2 into the Part 1 Area began in March 2020 and production did not start until October 2020. Production was restricted due to an initial recycle capacity limitation of 8 MMcf/d at the Battery. Due to the eight month delay between initial injection and

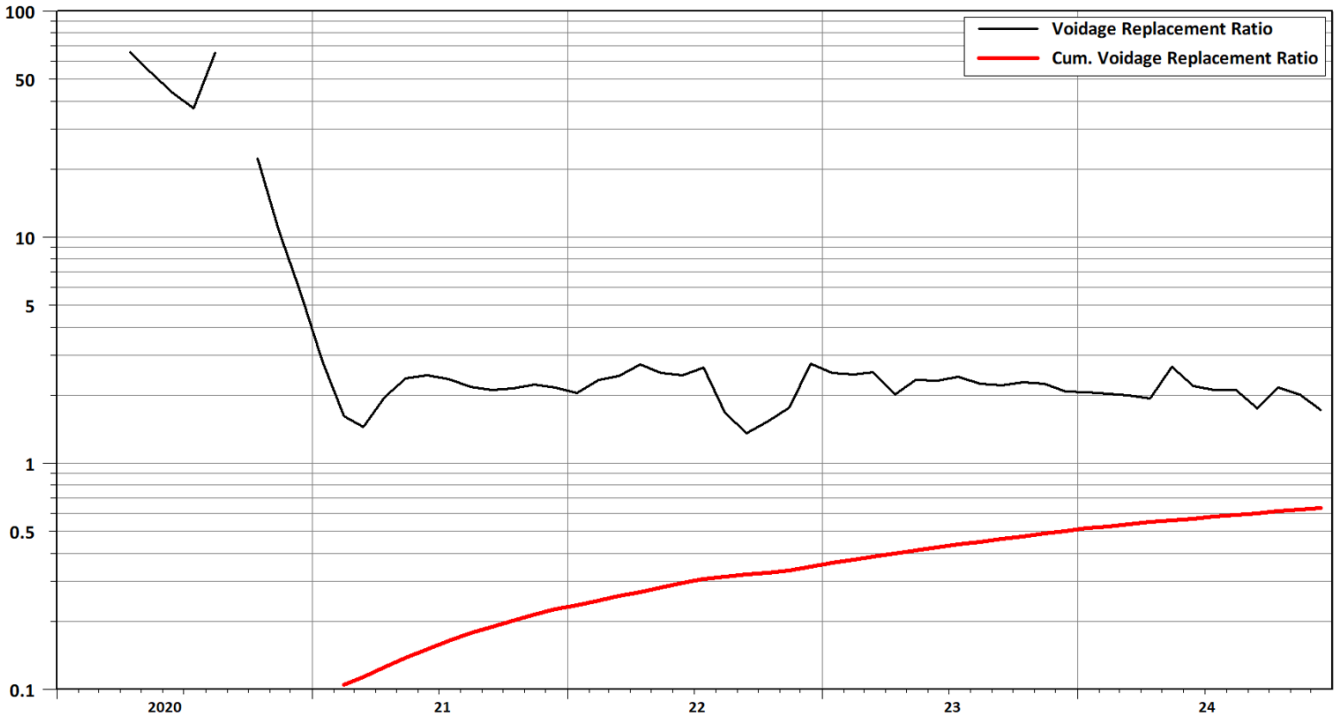
production, voidage replacement calculations are not very meaningful for this period.

6) The Operator must conduct the miscible fluid injection in the well(s) referred to in clause 3 in accordance with the following requirements:

d) a voidage replacement ratio must not exceed 1.0 on the basis of cumulative production and injection volumes following commencement of production,

The cumulative voidage replacement ratio for the 12832O Approval Area is 0.64 (Figure 13).

Figure 13: Monthly Reservoir Voidage for Clive Approval 12832O Area



j) verification that all conditions of this approval have been met during the reporting period. All non-compliance events should be summarized, and should be voluntarily self- disclosed as soon as they occur to the Resource Compliance in the AER Environment & Operational Performance Branch.

Enhance Energy confirms that all conditions of Approval No. 12832O have been satisfied during the reporting period based on the facts as we know them at the time of this submission.

TABLES

Table 3: Composition of Injection Stream for Clive D-3A CO_2 Enhanced Oil Recovery Project

		Components Mole %														
	Month	H2	He	N2	CO2	H2S	C1	C2	C3	iC4	nC4	iC5	nC5	C6	C7+	Total
2020	January															
	February															
	March	1.77	0.00	0.27	97.94	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
	April	1.21	0.00	0.04	98.59	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
	May	1.55	0.00	0.06	98.25	0.00	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
	June	1.51	0.00	0.02	98.28	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
	July	2.13	0.00	0.08	97.66	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
	August	2.13	0.00	0.13	97.61	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
	September	0.67	0.00	0.04	99.20	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
	October	1.04	0.00	0.06	98.67	0.02	0.18	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	100.00
	November	1.14	0.00	0.15	97.62	0.22	0.66	0.07	0.05	0.01	0.03	0.01	0.01	0.01	0.03	100.00
	December	0.99	0.00	0.11	97.76	0.22	0.65	0.08	0.06	0.01	0.03	0.01	0.01	0.01	0.03	100.00
	2020 Average	1.41	0.00	0.10	98.16	0.05	0.23	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0.01	100.00

	Month	H2	He	N2	CO2	H2S	C1	C2	C3	iC4	nC4	iC5	nC5	C6	C7+	Total
2021	January	0.87	0.00	0.21	97.13	0.34	1.02	0.14	0.12	0.02	0.06	0.02	0.03	0.03	0.01	100.00
	February	1.22	0.00	0.45	95.20	0.63	1.73	0.25	0.21	0.03	0.11	0.03	0.05	0.04	0.05	100.00
	March	0.82	0.00	0.52	93.70	1.03	2.66	0.38	0.33	0.06	0.19	0.06	0.08	0.09	0.08	100.00
	April	0.89	0.00	0.22	96.18	0.45	1.54	0.21	0.18	0.03	0.09	0.03	0.04	0.03	0.10	100.00
	May	1.09	0.00	0.15	96.48	0.45	1.32	0.21	0.14	0.02	0.07	0.02	0.02	0.02	0.01	100.00
	June	1.95	0.00	0.17	96.56	0.28	0.76	0.10	0.08	0.01	0.04	0.01	0.01	0.01	0.01	100.00
	July	1.05	0.00	0.16	96.49	0.37	1.43	0.17	0.15	0.02	0.07	0.02	0.02	0.02	0.02	100.00
	August	1.28	0.00	0.23	95.91	0.41	1.61	0.19	0.17	0.03	0.08	0.02	0.03	0.02	0.01	100.00
	September	1.28	0.00	0.22	95.56	0.57	1.72	0.22	0.19	0.03	0.10	0.03	0.04	0.02	0.01	100.00
	October	0.61	0.00	0.58	95.21	0.86	1.89	0.28	0.23	0.05	0.13	0.04	0.05	0.04	0.03	100.00
	November	0.66	0.00	0.36	95.36	0.76	2.10	0.32	0.22	0.04	0.11	0.03	0.03	0.02	0.01	100.00
	December	0.70	0.00	0.27	95.18	0.88	2.20	0.29	0.24	0.04	0.11	0.03	0.04	0.02	0.01	100.00
	2021 Average	1.03	0.00	0.29	95.75	0.59	1.66	0.23	0.19	0.03	0.10	0.03	0.04	0.03	0.03	100.00

	Month	H2	He	N2	CO2	H2S	C1	C2	C3	iC4	nC4	iC5	nC5	C6	C7+	Total
2022	January	0.79	0.00	0.86	94.82	0.64	2.04	0.26	0.22	0.04	0.11	0.03	0.04	0.03	0.12	100.00
	February	0.72	0.00	0.38	94.55	0.68	2.72	0.34	0.28	0.05	0.13	0.04	0.04	0.03	0.04	100.00
	March	0.63	0.00	0.23	95.65	0.71	2.03	0.26	0.22	0.04	0.11	0.03	0.04	0.02	0.03	100.00
	April	0.60	0.00	0.28	95.73	0.65	2.10	0.24	0.19	0.03	0.08	0.02	0.03	0.02	0.04	100.00
	May	0.39	0.00	0.26	95.45	0.69	2.45	0.26	0.22	0.04	0.10	0.02	0.03	0.02	0.05	100.00
	June	0.72	0.00	0.36	93.62	0.73	3.42	0.39	0.35	0.06	0.18	0.05	0.06	0.03	0.04	100.00
	July	0.77	0.00	0.72	94.39	0.64	2.69	0.32	0.22	0.04	0.10	0.03	0.04	0.02	0.02	100.00
	August	0.56	0.01	0.58	91.40	1.15	4.67	0.52	0.47	0.09	0.25	0.06	0.08	0.06	0.10	100.00
	September	0.58	0.01	0.57	89.27	1.62	5.02	0.69	0.66	0.13	0.42	0.18	0.26	0.24	0.36	100.00
	October	0.74	0.01	0.74	90.17	1.67	4.97	0.65	0.51	0.09	0.24	0.06	0.07	0.04	0.04	100.00
	November	0.64	0.01	0.45	91.46	1.21	4.64	0.56	0.44	0.11	0.24	0.06	0.07	0.05	0.06	100.00
	December	0.75	0.00	0.28	94.53	1.11	2.45	0.33	0.26	0.04	0.13	0.03	0.04	0.02	0.03	100.00
	2022 Average	0.66	0.00	0.48	93.42	0.96	3.27	0.40	0.34	0.06	0.17	0.05	0.07	0.05	0.08	100.00

	Month	H2	He	N2	CO2	H2S	C1	C2	C3	iC4	nC4	iC5	nC5	C6	C7+	Total
2023	January	0.74	0.00	0.46	94.30	0.80	2.64	0.34	0.31	0.05	0.15	0.04	0.06	0.04	0.07	100.00
	February	0.58	0.00	0.51	94.60	0.71	2.76	0.32	0.25	0.05	0.12	0.02	0.03	0.02	0.02	100.00
	March	0.56	0.00	0.99	94.60	0.95	2.22	0.26	0.22	0.04	0.09	0.02	0.02	0.01	0.03	100.00
	April	0.54	0.00	0.55	93.43	0.90	3.58	0.36	0.30	0.05	0.14	0.04	0.04	0.03	0.03	100.00
	May	0.62	0.00	0.38	94.16	1.00	2.88	0.35	0.28	0.05	0.15	0.04	0.04	0.02	0.01	100.00
	June	0.63	0.00	0.35	94.35	0.86	2.92	0.34	0.25	0.04	0.12	0.03	0.04	0.02	0.04	100.00
	July	0.47	0.00	0.27	94.78	0.80	2.81	0.29	0.24	0.04	0.11	0.03	0.04	0.03	0.07	100.00
	August	0.63	0.00	0.48	93.50	0.95	3.27	0.39	0.33	0.05	0.15	0.05	0.06	0.04	0.10	100.00
	September	0.80	0.01	0.54	92.36	1.29	3.72	0.45	0.37	0.07	0.17	0.04	0.05	0.03	0.10	100.00
	October	0.81	0.01	0.45	92.62	1.36	3.49	0.44	0.34	0.05	0.16	0.04	0.05	0.04	0.15	100.00
	November	0.73	0.01	1.11	92.25	1.04	3.76	0.44	0.33	0.05	0.15	0.03	0.04	0.02	0.02	100.00
	December	0.67	0.01	0.39	92.96	1.09	3.75	0.44	0.33	0.05	0.15	0.04	0.04	0.03	0.04	100.00
	2023 Average	0.65	0.00	0.54	93.66	0.98	3.15	0.37	0.30	0.05	0.14	0.03	0.04	0.03	0.06	100.00

	Month	H2	He	N2	CO2	H2S	C1	C2	C3	iC4	nC4	iC5	nC5	C6	C7+	Total
2024	January	0.70	0.01	0.35	93.54	1.36	3.09	0.37	0.29	0.04	0.12	0.03	0.03	0.02	0.04	100.00
	February	0.71	0.00	0.38	92.90	1.29	3.59	0.43	0.31	0.03	0.16	0.04	0.05	0.04	0.06	100.00
	March	0.86	0.01	0.37	93.18	1.09	3.42	0.42	0.32	0.05	0.13	0.04	0.04	0.03	0.05	100.00
	April	0.78	0.00	0.38	92.82	1.48	3.35	0.43	0.33	0.05	0.15	0.04	0.05	0.03	0.09	100.00
	May	0.67	0.00	0.26	95.48	0.85	2.12	0.26	0.18	0.03	0.08	0.02	0.02	0.02	0.02	100.00
	June	0.70	0.00	0.26	94.18	1.00	3.03	0.32	0.25	0.04	0.11	0.03	0.03	0.02	0.03	100.00
	July	0.95	0.00	0.80	94.28	0.76	2.44	0.28	0.23	0.04	0.11	0.03	0.04	0.02	0.05	100.00
	August	0.75	0.00	0.33	93.96	0.97	3.07	0.37	0.28	0.04	0.12	0.02	0.04	0.02	0.04	100.00
	September	0.81	0.00	0.45	92.73	1.36	3.48	0.45	0.34	0.05	0.15	0.04	0.05	0.03	0.05	100.00
	October	0.64	0.00	0.45	92.31	1.33	4.06	0.48	0.35	0.09	0.15	0.04	0.04	0.02	0.04	100.00
	November	0.74	0.00	0.33	93.84	0.98	3.14	0.38	0.27	0.05	0.12	0.03	0.04	0.02	0.07	100.00
	December	0.74	0.00	0.35	93.36	0.86	3.40	0.41	0.34	0.06	0.18	0.05	0.07	0.06	0.13	100.00
	2024 Average	0.75	0.00	0.39	93.55	1.11	3.18	0.38	0.29	0.05	0.13	0.03	0.04	0.03	0.06	100.00

Table 4: Composition of Recycle Stream for Clive D-3A CO_2 Enhanced Oil Recovery Project

		Components Mole %														
	Month	H2	He	N2	CO2	H2S	C1	C2	C3	iC4	nC4	iC5	nC5	C6	C7+	Total
2020	January															
	February															
	March															
	April															
	May															
	June															
	July															
	August															
	September															
	October	0.51	0.01	1.90	68.29	4.49	19.70	2.09	1.53	0.25	0.70	0.18	0.21	0.10	0.07	100.00
	November	0.49	0.01	1.54	80.22	3.82	10.23	1.20	0.90	0.15	0.45	0.14	0.20	0.18	0.47	100.00
	December	0.67	0.00	0.78	85.03	2.80	7.50	1.01	0.80	0.14	0.43	0.14	0.18	0.17	0.37	100.00
	2020 Average	0.56	0.01	1.41	77.84	3.70	12.48	1.43	1.08	0.18	0.53	0.15	0.20	0.15	0.30	100.00

	Month	H2	He	N2	CO2	H2S	C1	C2	C3	iC4	nC4	iC5	nC5	C6	C7+	Total
2021	January	0.71	0.00	0.72	89.76	1.68	4.87	0.67	0.59	0.10	0.30	0.10	0.14	0.13	0.21	100.00
	February	0.69	0.00	0.64	90.44	1.67	4.53	0.67	0.54	0.09	0.29	0.09	0.12	0.10	0.13	100.00
	March	0.72	0.00	0.79	90.22	1.65	4.22	0.61	0.54	0.10	0.31	0.10	0.14	0.14	0.47	100.00
	April	0.65	0.00	0.51	91.20	1.31	4.27	0.59	0.52	0.09	0.27	0.08	0.11	0.10	0.30	100.00
	May	0.69	0.00	0.46	90.25	1.73	4.89	0.80	0.55	0.09	0.27	0.07	0.09	0.06	0.05	100.00
	June	0.67	0.00	0.44	90.97	1.82	4.35	0.61	0.52	0.09	0.26	0.07	0.09	0.05	0.06	100.00
	July	0.66	0.00	0.54	89.42	1.56	5.75	0.72	0.61	0.10	0.31	0.08	0.10	0.07	0.08	100.00
	August	0.87	0.00	0.59	89.93	1.41	5.26	0.66	0.58	0.11	0.27	0.08	0.10	0.06	0.09	100.00
	September	0.69	0.00	0.58	90.09	1.71	4.94	0.67	0.58	0.10	0.30	0.09	0.11	0.05	0.11	100.00
	October	0.73	0.00	0.59	89.34	2.27	4.94	0.68	0.59	0.11	0.32	0.09	0.11	0.08	0.16	100.00
	November	0.81	0.01	0.68	87.64	2.28	6.28	0.95	0.65	0.12	0.32	0.08	0.10	0.05	0.06	100.00
	December	0.72	0.00	0.58	89.25	2.15	5.33	0.70	0.59	0.09	0.28	0.08	0.10	0.06	0.08	100.00
	2021 Average	0.72	0.00	0.59	89.87	1.77	4.97	0.69	0.57	0.10	0.29	0.08	0.11	0.08	0.15	100.00

	Month	H2	He	N2	CO2	H2S	C1	C2	C3	iC4	nC4	iC5	nC5	C6	C7+	Total
2022	January	0.70	0.00	1.55	88.47	1.78	5.40	0.71	0.61	0.11	0.32	0.09	0.11	0.06	0.10	100.00
	February	0.73	0.01	0.65	89.11	1.52	5.94	0.75	0.62	0.10	0.29	0.08	0.09	0.05	0.07	100.00
	March	0.67	0.00	0.57	89.59	1.91	5.30	0.70	0.59	0.10	0.28	0.08	0.09	0.05	0.07	100.00
	April	0.72	0.01	0.86	85.99	2.40	7.67	0.88	0.69	0.11	0.31	0.08	0.09	0.06	0.13	100.00
	May	0.63	0.01	0.70	86.13	2.27	7.90	0.86	0.72	0.12	0.33	0.08	0.10	0.06	0.09	100.00
	June	0.61	0.01	0.68	87.26	1.60	7.38	0.85	0.74	0.12	0.38	0.10	0.12	0.07	0.08	100.00
	July	0.63	0.01	0.66	87.83	1.72	7.05	0.86	0.60	0.11	0.26	0.08	0.10	0.05	0.04	100.00
	August	0.61	0.01	0.70	86.57	1.88	7.61	0.85	0.76	0.14	0.40	0.10	0.13	0.09	0.15	100.00
	September	0.59	0.01	0.63	87.59	1.89	5.86	0.81	0.77	0.15	0.49	0.21	0.30	0.28	0.42	100.00
	October	0.61	0.01	0.65	89.70	1.82	5.40	0.71	0.55	0.10	0.26	0.06	0.07	0.03	0.03	100.00
	November	0.63	0.01	0.60	87.37	1.87	7.14	0.86	0.68	0.15	0.33	0.09	0.11	0.07	0.09	100.00
	December	0.61	0.00	0.59	89.32	2.42	5.20	0.68	0.56	0.09	0.27	0.07	0.08	0.05	0.06	100.00
	2022 Average	0.64	0.01	0.74	87.91	1.92	6.49	0.79	0.66	0.12	0.33	0.09	0.12	0.08	0.11	100.00

	Month	H2	He	N2	CO2	H2S	C1	C2	C3	iC4	nC4	iC5	nC5	C6	C7+	Total
2023	January	0.60	0.01	0.66	89.16	1.81	5.86	0.74	0.60	0.09	0.26	0.06	0.07	0.04	0.04	100.00
	February	0.65	0.01	0.89	88.34	1.70	6.51	0.77	0.59	0.09	0.25	0.05	0.07	0.04	0.04	100.00
	March	0.66	0.01	2.27	87.36	2.43	5.56	0.67	0.55	0.08	0.23	0.05	0.06	0.03	0.04	100.00
	April	0.62	0.01	0.97	86.01	2.06	8.11	0.83	0.68	0.11	0.31	0.08	0.09	0.06	0.06	100.00
	May	0.62	0.01	0.70	88.71	2.08	5.89	0.73	0.59	0.11	0.32	0.08	0.09	0.04	0.03	100.00
	June	0.69	0.01	0.65	88.50	1.90	6.36	0.74	0.56	0.09	0.26	0.06	0.08	0.05	0.05	100.00
	July	0.71	0.01	0.76	84.90	2.51	8.68	0.90	0.72	0.12	0.33	0.09	0.11	0.07	0.09	100.00
	August	0.67	0.01	0.76	87.78	1.97	6.70	0.81	0.66	0.10	0.29	0.08	0.09	0.03	0.05	100.00
	September	0.64	0.01	0.62	88.78	2.07	5.87	0.72	0.60	0.10	0.28	0.07	0.08	0.05	0.11	100.00
	October	0.62	0.01	0.61	89.07	2.22	5.65	0.71	0.55	0.09	0.25	0.06	0.07	0.04	0.05	100.00
	November	0.61	0.01	1.89	87.51	1.79	6.36	0.73	0.56	0.09	0.25	0.06	0.07	0.03	0.04	100.00
	December	0.62	0.01	0.69	88.03	1.96	6.66	0.79	0.60	0.09	0.27	0.07	0.08	0.06	0.07	100.00
	2023 Average	0.64	0.01	0.96	87.85	2.04	6.52	0.76	0.61	0.10	0.27	0.07	0.08	0.05	0.06	100.00

	Month	H2	He	N2	CO2	H2S	C1	C2	C3	iC4	nC4	iC5	nC5	C6	C7+	Total
2024	January	0.63	0.01	0.62	88.94	2.48	5.59	0.68	0.53	0.08	0.22	0.05	0.06	0.04	0.07	100.00
	February	0.64	0.00	0.54	88.94	2.14	5.87	0.71	0.52	0.05	0.26	0.07	0.09	0.07	0.10	100.00
	March	0.73	0.01	0.59	89.63	1.78	5.51	0.67	0.52	0.08	0.22	0.06	0.07	0.05	0.08	100.00
	April	0.62	0.00	0.55	89.90	2.21	4.96	0.64	0.50	0.08	0.23	0.06	0.07	0.04	0.14	100.00
	May	0.67	0.00	0.56	89.53	2.21	5.41	0.66	0.47	0.07	0.20	0.05	0.06	0.05	0.06	100.00
	June	0.64	0.00	0.52	88.31	2.19	6.54	0.70	0.55	0.08	0.24	0.06	0.07	0.04	0.06	100.00
	July	0.66	0.00	1.94	87.47	1.93	6.04	0.70	0.57	0.09	0.27	0.07	0.09	0.05	0.12	100.00
	August	0.67	0.00	0.53	90.37	1.65	5.19	0.63	0.48	0.07	0.21	0.04	0.06	0.04	0.06	100.00
	September	0.65	0.00	0.53	90.97	1.79	4.54	0.58	0.45	0.07	0.20	0.05	0.06	0.04	0.07	100.00
	October	0.70	0.00	0.53	90.28	1.72	5.22	0.61	0.45	0.12	0.19	0.05	0.05	0.03	0.05	100.00
	November	0.67	0.00	0.49	91.10	1.50	4.77	0.58	0.42	0.07	0.18	0.04	0.06	0.03	0.09	100.00
	December	0.62	0.00	0.56	89.45	1.46	5.72	0.69	0.57	0.10	0.30	0.09	0.12	0.10	0.22	100.00
	2024 Average	0.66	0.00	0.66	89.57	1.92	5.45	0.65	0.50	0.08	0.23	0.06	0.07	0.05	0.09	100.00

Table 5: Monthly Report of Reservoir and Production Data for Clive D-3A CO_2 Enhanced Oil Recovery Project

	Month	Monthly CO_2 Injection (e3m3)	Cumulative CO_2 Injection (e3m3)	Gas Inj. Formation Vol. Factor (m3/m3)	Reservoir Volume of CO_2 Injected (m3)	Cum. Reservoir Volume of CO_2 Injected (m3)	Hours on Gas Injection (hours)	Net CO_2 Injection (e3m3)	Net Reservoir CO_2 Injection (m3)	Maximum Injection Rate (e3m3/d)	Average Injection Rate (e3m3/d)	Maximum Wellhead Pressure (kPag)	Maximum Wellhead Temperature (°C)	Average Wellhead Pressure (kPag)	Average Wellhead Temperature (°C)	Average Reservoir Pressure (kPag)	Estimated Average Bottom Hole Injection Pressure (kPag)
2020	January																
	February																
	March	15,320.9	15,320.9	0.005450	83,574.8	83,574.8	257.8	15,320.9	83,574.8	868.1	418.5	4,221	42.0	2,345	-13.3	13,100	13,281
	April	46,293.6	61,614.5	0.004060	187,796.4	271,371.2	449.7	46,176.1	186,855.2	1,029.1	764.3	4,538	36.1	2,553	-12.6	13,100	13,350
	May	50,706.1	112,320.6	0.004380	222,129.3	493,500.5	744.0	50,706.1	222,129.3	1,204.7	714.9	3,799	13.8	2,286	-14.1	13,100	13,373
	June	43,364.4	155,685.0	0.004140	179,696.6	673,197.0	720.0	43,364.4	179,696.6	987.2	512.0	4,647	15.0	2,572	-11.9	13,100	13,474
	July	47,701.4	203,386.4	0.004180	199,429.8	872,626.8	744.0	47,701.4	199,429.8	988.2	581.6	4,601	7.7	2,603	-11.6	13,100	13,497
	August	53,501.6	256,888.0	0.004230	226,139.3	1,098,766.1	744.0	53,501.6	226,139.3	997.8	582.2	4,260	5.9	2,647	-11.2	13,100	13,506
	September	64,089.8	320,977.8	0.003990	255,783.3	1,354,549.4	720.0	64,089.8	255,783.3	1,001.6	715.0	3,391	3.3	2,593	-11.4	13,100	13,544
	October	56,769.1	377,746.9	0.004290	243,421.4	1,597,970.8	744.0	56,753.6	243,355.2	988.9	642.0	3,736	8.6	2,622	-11.3	13,277	13,518
	November	68,613.8	446,360.7	0.004110	281,924.8	1,879,895.5	720.0	68,574.7	281,766.1	1,014.6	803.4	3,843	0.4	2,835	-9.3	13,332	13,485
	December	55,029.0	501,389.7	0.004080	224,254.1	2,104,149.6	744.0	54,981.8	224,063.9	1,029.3	678.5	5,663	5.2	3,076	-8.1	13,332	13,445
2021	January	83,785.7	585,175.4	0.004090	342,758.9	2,446,908.5	744.0	67,471.6	277,339.4	1,196.7	919.2	4,935	7.5	3,383	-4.4	13,332	13,505
	February	61,351.6	646,527.0	0.004250	260,473.7	2,707,382.2	672.0	36,940.8	157,704.1	1,322.3	748.7	5,502	13.6	3,796	-1.6	13,300	13,499
	March	65,645.7	712,172.7	0.004240	278,122.5	2,985,504.6	744.0	33,072.4	148,806.5	1,210.9	729.7	6,207	17.5	4,516	4.6	13,300	13,531
	April	90,714.2	802,886.9	0.004140	375,134.9	3,360,639.5	720.0	58,884.6	246,224.9	1,402.7	916.0	5,699	15.6	3,770	-0.9	13,300	13,690
	May	100,084.1	902,971.0	0.004140	413,897.0	3,774,536.5	744.0	68,070.8	282,642.5	1,435.9	922.2	4,829	18.4	3,509	-2.7	13,409	13,894
	June	81,691.5	984,662.5	0.004230	345,865.5	4,120,402.0	720.0	55,387.9	232,496.9	1,419.8	923.8	5,601	14.8	3,727	-0.9	13,409	14,145
	July	96,169.1	1,080,831.6	0.004140	397,979.9	4,518,381.9	744.0	64,549.1	265,492.1	1,400.1	1,052.9	4,844	9.0	3,986	1.9	13,409	14,465
	August	92,962.0	1,173,793.6	0.004210	391,283.1	4,909,664.9	744.0	58,835.3	246,585.7	1,183.7	1,020.9	4,649	7.2	4,053	2.2	13,367	14,737
	September	88,299.1	1,262,092.7	0.004210	371,793.7	5,281,458.6	720.0	54,886.3	231,794.2	1,531.3	1,020.9	4,744	17.4	4,078	2.3	13,367	14,414
	October	90,820.8	1,352,913.5	0.004150	376,921.9	5,658,380.5	744.0	55,481.0	234,856.0	1,403.4	1,046.2	4,965	9.9	4,032	1.1	13,367	14,630
	November	89,235.6	1,442,149.1	0.004160	371,640.0	6,030,020.5	720.0	56,098.1	239,089.9	1,387.5	1,015.7	4,327	2.9	3,649	-2.6	13,367	14,563
	December	94,166.2	1,536,315.3	0.004160	391,839.0	6,421,859.5	744.0	58,178.1	248,966.1	1,282.3	858.1	4,152	1.5	3,338	-5.9	13,367	14,139
2022	January	81,413.9	1,617,729.2	0.004170	339,181.7	6,761,041.2	744.0	48,302.1	204,747.7	1,266.8	740.1	5,543	7.9	3,455	-5.9	13,367	13,718
	February	86,463.3	1,704,192.5	0.004170	360,515.8	7,121,556.9	672.0	52,750.5	228,698.8	1,410.2	921.8	4,261	6.4	3,276	-7.0	13,413	13,887
	March	94,830.3	1,799,022.8	0.004080	387,276.0	7,508,832.9	744.0	59,828.0	250,417.0	1,725.7	932.4	4,263	3.9	3,193	-8.0	13,413	14,020
	April	97,333.9	1,896,356.7	0.004100	398,644.6	7,907,477.5	720.0	66,943.1	278,904.8	1,612.9	1,000.1	4,185	3.8	3,168	-8.4	13,413	14,046
	May	108,182.2	2,004,538.9	0.004080	441,889.3	8,349,366.8	744.0	69,807.1	293,377.5	1,333.4	1,020.7	3,934	-1.3	3,446	-5.5	13,413	14,056
	June	98,967.3	2,103,506.2	0.004220	418,098.1	8,767,464.9	720.0	61,004.1	268,902.8	4,492.9	979.3	4,504	18.7	3,727	-2.3	13,413	14,076
	July	106,273.0	2,209,779.2	0.004230	449,732.7	9,217,197.6	744.0	69,130.6	299,677.3	1,189.5	1,008.6	4,437	6.8	3,821	-0.9	13,413	14,032
	August	64,614.2	2,274,393.4	0.004300	277,688.6	9,494,886.2	744.0	25,074.0	121,504.7	1,190.3	690.2	7,104	22.4	4,832	7.2	13,154	13,954
	September	46,485.9	2,320,879.3	0.004180	194,259.2	9,689,145.4	536.0	6,991.8	39,047.5	2,681.2	576.3	6,960	21.5	4,771	8.8	13,449	13,799
	October	52,401.1	2,373,280.4	0.004380	229,765.0	9,918,910.4	744.0	11,673.7	68,484.5	3,303.0	772.7	6,732	19.4	4,615	7.2	13,449	13,940
	November	58,417.5	2,431,697.9	0.004300	251,309.5	10,170,219.9	720.0	21,662.3	107,596.9	3,087.0	723.5	5,984	8.9	3,958	1.4	13,251	13,741
	December	100,508.7	2,532,206.6	0.004140	416,080.2	10,586,300.1	744.0	64,168.9	273,991.8	3,375.5	1,024.1	5,121	6.7	3,443	-2.7	13,251	13,936
2023	January	110,865.8	2,643,072.4	0.004100	455,096.5	11,041,396.7	744.0	66,370.2	282,898.7	2,608.5	818.8	4,659	9.4	3,376	-2.6	13,251	13,674
	February	103,401.6	2,746,474.0	0.004120	426,288.2	11,467,684.9	672.0	61,497.1	264,536.7	2,301.1	844.1	4,068	8.5	3,387	-2.3	13,251	13,906
	March	114,379.7	2,860,853.7	0.004130	472,401.5	11,940,086.3	744.0	69,407.2	299,257.4	2,656.6	843.3	4,922	9.1	3,333	-1.5	13,251	14,329
	April	97,868.6	2,958,722.3	0.004180	409,258.5	12,349,344.8	720.0	48,727.8	217,609.4	3,299.3	750.3	4,982	7.7	3,231	1.6	13,251	14,149
	May	117,233.2	3,075,955.5	0.004110	482,138.3	12,831,483.0	744.0	65,663.8	283,596.0	2,561.6	866.4	5,839	22.9	4,131	5.3	13,502	14,029
	June	118,300.1	3,194,255.6	0.004120	486,928.2	13,318,411.3	720.0	66,986.7	289,371.8	3,112.6	902.5	7,007	25.5	4,372	9.9	13,893	14,011
	July	121,553.1	3,315,808.7	0.004060	493,614.7	13,812,026.0	744.0	74,670.2	314,522.1	3,261.4	895.3	5,722	28.2	4,264	10.2	13,486	14,137
	August	125,996.4	3,441,805.1	0.004130	520,980.3	14,333,006.3	744.0	71,163.9	312,068.5	3,109.7	934.6	6,637	21.5	4,210	8.4	13,486	15,079
	September	123,063.8	3,564,868.9	0.004200	517,222.4	14,850,228.7	720.0	68,721.9	307,462.7	3,214.9	949.3	5,479	12.4	3,877	4.9	13,152	14,981
	October	122,217.8	3,687,086.7	0.004160	508,904.3	15,359,133.1	744.0	69,732.1	309,458.7	3,210.6	911.0	7,915	20.5	4,443	6.3	13,152	14,328
	November	122,841.3	3,809,928.0	0.004300	527,899.1	15,887,032.2	720.0	66,785.8	312,085.5	3,030.2	948.2	5,267	8.0	3,693	1.3	13,152	14,126
	December	132,182.8	3,942,110.8	0.004190	553,742.3	16,440,774.5	744.0	71,722.3	321,574.0	3,399.1	1,027.9	5,290	9.3	3,866	1.8	13,152	14,085
2024	January	141,374.5	4,083,485.3	0.004260	602,545.3	17,043,319.8	744.0	70,615.4	321,631.7	3,377.0	1,050.7	5,214	9.3	3,898	1.7	13,152	12,673
	February	125,131.7	4,208,617.0	0.004300	537,701.6	17,581,021.4	696.0	61,333.2	284,421.6	3,623.5	995.5	5,214	9.3	3,898	2.0	13,152	14,089
	March	129,539.5	4,338,156.5	0.004320	559,045.0	18,140,066.4	744.0	61,262.5	286,619.8	3,364.8	962.6	5,214	9.3	3,898	2.0	13,152	13,959
	April	123,701.1	4,461,857.6	0.003990	493,665.0	18,633,731.4	720.0	56,005.7	243,192.0	3,348.2	951.7	5,943	15.2	4,046	2.9	13,740	13,961
	May	112,870.9	4,574,728.5	0.003930	443,873.0	19,077,604.3	744.0	71,207.2	288,050.7	3,542.1	831.9	5,776	22.8	3,694	1.8	13,631	13,906
	June	120,531.6	4,695,260.1	0.004010	483,511.7	19,561,116.0	720.0	63,986.9	270,338.2	3,447.3	922.9	6,479	20.4	4,238	6.1	13,631	14,072
	July	132,350.8	4,827,610.9	0.004060	537,712.3	20,098,828.3	744.0	69,172.1	290,051.7	3,275.4	980.2	6,904	23.2	4,625	9.6	13,631	14,093
	August	135,909.6	4,963,520.5	0.004010	545,463.0	20,644,291.3	744.0	68,195.1	293,565.1	3,547.6	1,008.5	8,241	24.8	4,885	12.6	13,663	14,090
	September	118,306.7	5,081,827.2	0.004060	480,296.7	21,124,588.0	720.0	44,633.5	204,022.2	3,293.1	913.4	7,582	28.1	5,242	13.5	13,663	14,072
	October	144,533.5	5,226,360.7	0.004090	590,763.7	21,715,351.7	744.0	72,518.8	328,630.2	3,543.4	1,091.3	7,404	21.4	4,543	7.9	13,663	14,224
	November	146,428.3	5,372,789.0	0.004070	596,582.4	22,311,934.1	720.0	70,602.0	311,475.6	3,544.1	920.7	6,124	50.1	3,881	4.4	13,527	14,425
	December	166,013.0	5,538,802.0	0.004070	675,124.2	22,987,058.3	744.0	70,108.7	312,605.9	3,141.1	1,018.2	6,703	50.0	3,980	1.1	13,527	14,163

Table 6: Monthly Net CO_2 Report for the Clive D-3A CO_2 Enhanced Oil Recovery Project

	Month	Average Reservoir Pressure (kPag)	Gas Formation Vol. Factor (m3/m3)	Monthly Gas Production (e3m3)	Monthly CO_2 Concentration (%)	Monthly CO_2 Production (e3m3)	Monthly CO_2 Injection (e3m3)	Net CO_2 Injection (e3m3)	Net CO2 Injection (Tonne)	Reservoir Volume of CO_2 Produced (m3)	Reservoir Volume of CO_2 Injected (m3)	Net Reservoir Volume of CO_2 Injected (m3)	Net Reservoir CO_2 Injection (Tonne)
2020	January												
	February												
	March	13,100	0.008010				15,320.9	15,320.9	28,521.5	0.0	83,574.8	83,574.8	28,521.5
	April	13,100	0.008010	152.8	76.90%	117.5	46,293.6	46,176.1	85,961.9	941.2	187,796.4	186,855.2	85,961.9
	May	13,100	0.008010	44.1			50,706.1	50,706.1	94,395.0	0.0	222,129.3	222,129.3	94,395.0
	June	13,100	0.008010	25.2			43,364.4	43,364.4	80,727.6	0.0	179,696.6	179,696.6	80,727.6
	July	13,100	0.008010	47.3			47,701.4	47,701.4	88,801.4	0.0	199,429.8	199,429.8	88,801.4
	August	13,100	0.008010	27.0			53,501.6	53,501.6	99,599.1	0.0	226,139.3	226,139.3	99,599.1
	September	13,100	0.008010	15.2			64,089.8	64,089.8	119,310.2	0.0	255,783.3	255,783.3	119,310.2
	October	13,277	0.004270	22.7	68.29%	15.5	56,769.1	56,753.6	105,653.1	66.2	243,421.4	243,355.2	105,653.1
	November	13,332	0.004060	48.7	80.22%	39.1	68,613.8	68,574.7	127,659.4	158.6	281,924.8	281,766.1	127,659.4
	December	13,332	0.004030	55.5	85.03%	47.2	55,029.0	54,981.8	102,354.7	190.2	224,254.1	224,063.9	102,354.7
	2020	13,164	0.00415	438.5	50.00%	219.3	501,389.7	501,170.4	932,983.9	1,356.2	2,104,149.6	2,102,793.5	932,983.9
2021	January	13,332	0.004010	18,174.4	89.76%	16,314.1	83,785.7	67,471.6	125,605.9	65,419.4	342,758.9	277,339.4	125,605.9
	February	13,300	0.004210	26,991.2	90.44%	24,410.8	61,351.6	36,940.8	68,769.3	102,769.6	260,473.7	157,704.1	68,769.3
	March	13,300	0.003970	36,104.7	90.22%	32,573.3	65,645.7	33,072.4	61,567.9	129,316.0	278,122.5	148,806.5	61,567.9
	April	13,300	0.004050	34,900.9	91.20%	31,829.6	90,714.2	58,884.6	109,620.1	128,910.0	375,134.9	246,224.9	109,620.1
	May	13,409	0.004100	35,471.8	90.25%	32,013.3	100,084.1	68,070.8	126,721.3	131,254.5	413,897.0	282,642.5	126,721.3
	June	13,409	0.004310	28,914.6	90.97%	26,303.6	81,691.5	55,387.9	103,110.6	113,368.6	345,865.5	232,496.9	103,110.6
	July	13,409	0.004190	35,361.2	89.42%	31,620.0	96,169.1	64,549.1	120,165.3	132,487.7	397,979.9	265,492.1	120,165.3
	August	13,367	0.004240	37,949.8	89.93%	34,126.7	92,962.0	58,835.3	109,528.3	144,697.4	391,283.1	246,585.7	109,528.3
	September	13,367	0.004190	37,088.2	90.09%	33,412.8	88,299.1	54,886.3	102,177.0	139,999.5	371,793.7	231,794.2	102,177.0
	October	13,367	0.004020	39,558.7	89.34%	35,339.8	90,820.8	55,481.0	103,284.1	142,065.9	376,921.9	234,856.0	103,284.1
	November	13,367	0.004000	37,813.1	87.64%	33,137.5	89,235.6	56,098.1	104,432.8	132,550.0	371,640.0	239,089.9	104,432.8
	December	13,367	0.003970	40,323.3	89.25%	35,988.1	94,166.2	58,178.1	108,304.9	142,872.9	391,839.0	248,966.1	108,304.9
	2021	13,358	0.004172	408,651.9	89.82%	367,069.6	1,034,925.6	667,856.0	1,243,287.3	1,505,711.5	4,317,709.9	2,811,998.4	1,243,287.3
2022	January	13,367	0.004060	37,427.6	88.47%	33,111.8	81,413.9	48,302.1	89,919.6	134,434.0	339,181.7	204,747.7	89,919.6
	February	13,413	0.003910	37,833.6	89.11%	33,712.8	86,463.3	52,750.5	98,200.9	131,816.9	360,515.8	228,698.8	98,200.9
	March	13,413	0.003910	39,069.0	89.59%	35,002.3	94,830.3	59,828.0	111,376.4	136,859.0	387,276.0	250,417.0	111,376.4
	April	13,413	0.003940	35,340.6	85.99%	30,390.8	97,333.9	66,943.1	124,622.0	119,739.7	398,644.6	278,904.8	124,622.0
	May	13,413	0.003870	44,554.9	86.13%	38,375.1	108,182.2	69,807.1	129,953.5	148,511.8	441,889.3	293,377.5	129,953.5
	June	13,413	0.003930	43,505.8	87.26%	37,963.2	98,967.3	61,004.1	113,565.9	149,195.2	418,098.1	268,902.8	113,565.9
	July	13,413	0.004040	42,289.0	87.83%	37,142.4	106,273.0	69,130.6	128,694.2	150,055.4	449,732.7	299,677.3	128,694.2
	August	13,154	0.003950	45,674.3	86.57%	39,540.2	64,614.2	25,074.0	46,677.9	156,184.0	277,688.6	121,504.7	46,677.9
	September	13,449	0.003930	45,089.7	87.59%	39,494.1	46,485.9	6,991.8	13,016.1	155,211.7	194,259.2	39,047.5	13,016.1
	October	13,449	0.003960	45,404.0	89.70%	40,727.4	52,401.1	11,673.7	21,731.9	161,280.5	229,765.0	68,484.5	21,731.9
	November	13,251	0.003910	42,068.4	87.37%	36,755.2	58,417.5	21,662.3	40,326.8	143,712.7	251,309.5	107,596.9	40,326.8
	December	13,251	0.003910	40,684.9	89.32%	36,339.8	100,508.7	64,168.9	119,457.6	142,088.4	416,080.2	273,991.8	119,457.6
	2022	13,366	0.004182	498,941.8	87.90%	438,555.0	995,891.3	557,336.3	1,037,542.8	1,729,089.3	4,164,440.7	2,435,351.4	1,037,542.8
2023	January	13,251	0.003870	49,905.3	89.16%	44,495.6	110,865.8	66,370.2	123,555.5	172,197.8	455,096.5	282,898.7	123,555.5
	February	13,251	0.003860	47,435.5	88.34%	41,904.5	103,401.6	61,497.1	114,483.6	161,751.4	426,288.2	264,536.7	114,483.6
	March	13,251	0.003850	51,479.5	87.36%	44,972.5	114,379.7	69,407.2	129,209.2	173,144.1	472,401.5	299,257.4	129,209.2
	April	13,251	0.003900	57,133.8	86.01%	49,140.8	97,868.6	48,727.8	90,712.2	191,649.0	409,258.5	217,609.4	90,712.2
	May	13,502	0.003850	58,132.6	88.71%	51,569.4	117,233.2	65,663.8	122,240.3	198,542.3	482,138.3	283,596.0	122,240.3
	June	13,893	0.003850	57,981.2	88.50%	51,313.4	118,300.1	66,986.7	124,703.2	197,556.4	486,928.2	289,371.8	124,703.2
	July	13,486	0.003820	55,221.3	84.90%	46,882.9	121,553.1	74,670.2	139,006.8	179,092.6	493,614.7	314,522.1	139,006.8
	August	13,486	0.003810	8,045.2	87.78%	54,832.5	125,996.4	71,163.9	132,479.4	208,911.8	520,980.3	312,068.5	132,479.4
	September	13,152	0.003860	9,600.6	88.78%	54,341.9	123,063.8	68,721.9	127,933.4	209,759.7	517,222.4	307,462.7	127,933.4
	October	13,152	0.003800	9,245.6	89.07%	52,485.7	122,217.8	69,732.1	129,814.0	199,445.7	508,904.3	309,458.7	129,814.0
	November	13,152	0.003850	9,895.2	87.51%	56,055.5	122,841.3	66,785.8	124,329.1	215,813.7	527,899.1	312,085.5	124,329.1
	December	13,152	0.003840	17,473.0	88.03%	60,460.5	132,182.8	71,722.3	133,519.0	232,168.3	553,742.3	321,574.0	133,519.0
	2023	13,331	0.004152	431,548.8	87.85%	608,455.1	1,409,904.2	801,449.1	1,491,985.6	2,340,033.0	5,854,474.3	3,514,441.3	1,491,985.6
2024	January	13,152	0.003970	9,271.3	88.94%	70,759.1	141,374.5	70,615.4	131,458.3	280,913.6	602,545.3	321,631.7	131,458.3
	February	13,152	0.003970	8,970.8	88.94%	63,798.5	125,131.7	61,333.2	114,178.5	253,280.0	537,701.6	284,421.6	114,178.5
	March	13,152	0.003990	8,926.6	89.63%	68,277.0	129,539.5	61,262.5	114,046.9	272,425.2	559,045.0	286,619.8	114,046.9
	April	13,740	0.003700	8,948.4	89.90%	67,695.4	123,701.1	56,005.7	104,260.8	250,473.0	493,665.0	243,192.0	104,260.8
	May	13,631	0.003740	5,178.5	89.53%	41,663.7	112,870.9	71,207.2	132,560.0	155,822.2	443,873.0	288,050.7	132,560.0
	June	13,631	0.003770	6,768.1	88.31%	56,544.7	120,531.6	63,986.9	119,118.7	213,173.5	483,511.7	270,338.2	119,118.7
	July	13,631	0.003920	7,528.3	87.47%	63,178.7	132,350.8	69,172.1	128,771.5	247,660.5	537,712.3	290,051.7	128,771.5
	August	13,663	0.003720	8,121.3	90.37%	67,714.5	135,909.6	68,195.1	126,952.7	251,897.9	545,463.0	293,565.1	126,952.7
	September	13,663	0.003750	8,796.0	90.97%	73,673.2	118,306.7	44,633.5	83,090.2	276,274.5	480,296.7	204,022.2	83,090.2
	October	13,663	0.003640	11,324.8	90.28%	72,014.7	144,533.5	72,518.8	135,001.7	262,133.5	590,763.7	328,630.2	135,001.7
	November	13,527	0.003760	8,988.2	91.10%	75,826.3	146,428.3	70,602.0	131,433.4	285,106.9	596,582.4	311,475.6	131,433.4
	December	13,527	0.003780	11,143.0	89.45%	95,904.3	166,013.0	70,108.7	130,515.1	362,518.3	675,124.2	312,605.9	130,515.1
	2024	13,511	0.004100	103,965.3	89.57%	817,050.1	1,596,691.2	779,641.1	1,451,387.7	3,111,679.2	6,546,283.8	3,434,604.6	1,451,387.7

Table 7: Monthly Report of Reservoir Voidage for Clive D-3A CO_2 Enhanced Oil Recovery Project

	Month	Average Reservoir Pressure (kPag)	Monthly Oil Production (m3)	Oil Formation Vol. Factor (m3/m3)	Reservoir Volume of Oil Produced (m3)	Monthly Gas Production (e3m3)	Monthly CO2 Production (e3m3)	Gas Formation Vol. Factor (m3/m3)	Solution Gas/Oil Ratio (m3/m3)	Reservoir Volume of Gas Produced (m3)	Reservoir Volume of CO2 Produced (m3)	Monthly Water Production (m3)	Water Formation Vol. Factor (m3/m3)	Reservoir Volume of Water Produced (m3)	Monthly Water Injection (m3)	Reservoir Volume of Water injected (m3)	Monthly Gas Injection (e3m3)	Monthly CO_2 Injection (e3m3)	Gas Inj. Formation Vol. Factor (m3/m3)	Reservoir Volume Gas Injected (m3)	Cumulative Reservoir Volume Injected (m3)	Reservoir Volume Produced (m3)	Cumulative Reservoir Volume Produced (m3)	Voidage Replacement Ratio	Cum. Voidage Replacement Ratio
2020	January	13,100.0	0.0	1.38697	0.0	0.0	0.0	0.00801	131.4	0.0	0.0	0.0	1.02004	0.0	0.0	0.0	0.0	0.0	0.00000	0.0	0.0	0.0	0.0	0.00	0.01
	February	13,100.0	0.0	1.38697	0.0	0.0	0.0	0.00801	131.4	0.0	0.0	0.0	1.02004	0.0	0.0	0.0	0.0	0.0	0.00000	0.0	0.0	0.0	0.0	0.00	0.01
	March	13,100.0	0.0	1.38697	0.0	0.0	0.0	0.00801	131.4	0.0	0.0	0.0	1.02004	0.0	0.0	0.0	323.6	15,320.9	0.00545	85,340.0	85,340.0	0.0	0.0	0.00	0.02
	April	13,100.0	179.0	1.38697	248.3	152.8	0.0	0.00801	131.4	1,035.8	0.0	1,578.7	1.02004	1,610.3	0.0	0.0	662.9	46,293.6	0.00406	190,485.6	275,825.6	2,894.4	2,894.4	65.81	0.02
	May	13,100.0	101.2	1.38697	140.4	44.1	0.0	0.00801	131.4	246.8	0.0	3,785.2	1.02004	3,861.0	0.0	0.0	899.5	50,706.1	0.00438	226,069.7	501,895.3	4,248.2	7,142.5	53.22	0.03
	June	13,100.0	48.2	1.38697	66.9	25.2	0.0	0.00801	131.4	151.2	0.0	3,906.1	1.02004	3,984.4	0.0	0.0	762.5	43,364.4	0.00414	182,856.3	684,751.6	4,202.4	11,344.9	43.51	0.04
	July	13,100.0	81.8	1.38697	113.5	47.3	0.0	0.00801	131.4	292.8	0.0	4,991.6	1.02004	5,091.6	0.0	0.0	1,143.1	47,701.4	0.00418	204,208.8	888,960.4	5,497.9	16,842.8	37.14	0.04
	August	13,100.0	43.9	1.38697	60.9	27.0	0.0	0.00801	131.4	170.1	0.0	3,251.4	1.02004	3,316.5	0.0	0.0	1,314.6	53,501.6	0.00423	231,695.8	1,120,656.2	3,547.5	20,390.4	65.31	0.05
	September	13,100.0	12.1	1.38697	16.8	15.2	0.0	0.00801	131.4	109.0	0.0	1,180.8	1.02004	1,204.5	0.0	0.0	515.9	64,089.8	0.00399	257,842.3	1,378,498.4	1,330.3	21,720.7	193.83	0.06
	October	13,276.7	127.0	1.39010	176.5	22.7	0.0	0.00427	132.8	24.9	0.0	10,588.5	1.02001	10,800.4	0.0	0.0	597.4	56,769.1	0.00429	245,983.0	1,624,481.5	11,001.9	32,722.5	22.36	0.07
	November	13,332.0	288.5	1.39108	401.3	48.7	0.0	0.00406	133.2	41.7	0.0	26,052.2	1.02001	26,573.4	0.0	0.0	766.3	68,613.8	0.00411	285,073.4	1,909,554.8	27,016.5	59,739.0	10.55	0.08
	December	13,332.0	584.3	1.39108	812.8	55.5	0.0	0.00403	133.2	0.0	0.0	38,795.8	1.02001	39,571.9	0.0	0.0	844.8	55,029.0	0.00408	227,696.8	2,137,251.7	40,384.7	100,123.7	5.64	0.08
2021	January	13,332.0	2,071.2	1.39108	2,881.2	18,174.4	0.0	0.00401	133.2	71,740.5	0.0	49,345.1	1.02001	50,332.3	0.0	0.0	2,477.9	83,785.7	0.00409	352,895.7	2,490,147.4	124,954.0	225,077.7	2.82	0.10
	February	13,300.4	2,777.7	1.39052	3,862.4	26,991.2	0.0	0.00421	133.0	112,021.6	0.0	52,202.8	1.02001	53,247.4	0.0	0.0	3,082.2	61,351.6	0.00425	273,559.5	2,763,706.8	169,131.4	394,209.1	1.62	0.10
	March	13,300.4	3,519.2	1.39052	4,893.5	36,104.7	0.0	0.00397	133.0	141,446.1	0.0	58,254.2	1.02001	59,419.8	0.0	0.0	4,424.1	65,645.7	0.00424	296,866.1	3,060,572.9	205,759.4	599,968.5	1.44	0.11
	April	13,300.4	3,526.3	1.39052	4,903.4	34,900.9	0.0	0.00405	133.0	139,532.6	0.0	52,207.5	1.02001	53,252.2	0.0	0.0	3,594.7	90,714.2	0.00414	390,000.2	3,450,573.2	197,688.1	797,656.6	1.97	0.13
	May	13,408.6	3,786.7	1.39243	5,272.7	35,471.8	0.0	0.00410	133.8	143,187.4	0.0	31,843.5	1.02000	32,480.2	0.0	0.0	3,648.0	100,084.1	0.00414	428,983.3	3,879,556.4	180,940.4	978,597.0	2.37	0.14
	June	13,408.6	2,928.4	1.39243	4,077.6	28,914.6	0.0	0.00431	133.8	122,920.7	0.0	31,738.8	1.02000	32,373.4	31,069.8	31,691.1	2,909.5	81,691.5	0.00423	358,183.7	4,269,431.2	159,371.7	1,137,968.7	2.45	0.15
	July	13,408.6	3,586.7	1.39243	4,994.2	35,361.2	0.0	0.00419	133.8	146,128.6	0.0	42,102.1	1.02000	42,944.0	42,883.4	43,740.9	3,497.2	96,169.1	0.00414	412,452.5	4,725,624.5	194,066.8	1,332,035.5	2.35	0.16
	August	13,366.5	3,810.8	1.39169	5,303.4	37,949.8	0.0	0.00424	133.5	158,772.8	0.0	44,609.8	1.02000	45,502.0	48,342.0	49,308.9	3,968.1	92,962.0	0.00421	407,985.1	5,182,918.5	209,578.3	1,541,613.8	2.18	0.18
	September	13,366.5	3,583.4	1.39169	4,987.0	37,088.2	0.0	0.00419	133.5	153,338.3	0.0	40,378.3	1.02000	41,185.9	32,847.2	33,504.2	4,098.4	88,299.1	0.00421	389,050.5	5,605,473.2	199,511.2	1,741,125.0	2.12	0.19
	October	13,366.5	3,792.3	1.39169	5,277.7	39,558.7	0.0	0.00402	133.5	157,134.6	0.0	42,332.3	1.02000	43,179.0	44,826.1	45,722.7	4,575.8	90,820.8	0.00415	395,912.2	6,047,108.0	205,591.3	1,946,716.3	2.15	0.20
	November	13,366.5	3,575.6	1.39169	4,976.1	37,813.1	0.0	0.00400	133.5	149,514.0	0.0	38,431.7	1.02000	39,200.4	40,048.9	40,849.9	4,349.4	89,235.6	0.00416	389,753.9	6,477,711.9	193,690.5	2,140,406.7	2.22	0.21
	December	13,366.5	3,678.1	1.39169	5,118.8	40,323.3	0.0	0.00397	133.5	158,102.8	0.0	35,563.6	1.02000	36,274.9	19,744.2	20,139.1	4,746.1	94,166.2	0.00416	411,588.2	6,909,439.2	199,496.5	2,339,903.2	2.16	0.23
2022	January	13,366.5	3,377.4	1.39169	4,700.3	37,427.6	0.0	0.00406	133.5	150,084.1	0.0	26,012.7	1.02000	26,533.0	11,543.7	11,774.6	4,440.7	81,413.9	0.00417	357,682.3	7,278,896.1	181,317.4	2,521,220.6	2.04	0.24
	February	13,412.9	3,477.4	1.39251	4,842.3	37,833.6	0.0	0.00391	133.9	146,040.7	0.0	22,681.3	1.01999	23,134.8	23,520.3	23,990.6	4,978.4	86,463.3	0.00417	381,273.6	7,684,160.2	174,017.8	2,695,238.4	2.33	0.25
	March	13,412.9	3,674.8	1.39251	5,117.2	39,069.0	0.0	0.00391	133.9	150,676.4	0.0	18,935.0	1.01999	19,313.6	19,876.3	20,273.7	4,281.1	94,830.3	0.00408	404,759.5	8,109,193.5	175,107.2	2,870,345.6	2.43	0.26
	April	13,412.9	3,420.7	1.39251	4,763.4	35,340.6	0.0	0.00394	133.9	137,421.8	0.0	15,752.1	1.01999	16,067.1	16,206.4	16,530.5	4,346.1	97,333.9	0.00410	416,444.6	8,542,168.6	158,252.2	3,028,597.8	2.74	0.27
	May	13,412.9	4,038.2	1.39251	5,623.2	44,554.9	0.0	0.00387	133.9	170,167.5	0.0	15,927.4	1.01999	16,245.9	17,404.7	17,752.7	5,144.6	108,182.2	0.00408	462,903.3	9,022,824.6	192,036.6	3,220,634.4	2.50	0.28
	June	13,412.9	3,848.5	1.39251	5,359.1	43,505.8	0.0	0.00393	133.9	168,961.6	0.0	13,705.1	1.01999	13,979.1	15,779.6	16,095.1	6,747.6	98,967.3	0.00422	446,604.0	9,485,523.8	188,299.9	3,408,934.2	2.46	0.30
	July	13,412.9	3,743.5	1.39251	5,212.9	42,289.0	0.0	0.00404	133.9	168,657.1	0.0	11,573.3	1.01999	11,804.7	13,935.1	14,213.7	6,319.9	106,273.0	0.00423	476,477.6	9,976,215.1	185,674.6	3,594,608.9	2.64	0.31
	August	13,153.8	3,993.8	1.38792	5,543.1	45,674.3	0.0	0.00395	131.8	178,168.9	0.0	11,271.3	1.02003	11,497.1	22,339.8	22,787.2	6,048.5	64,614.2	0.00430	303,682.9	10,302,685.3	195,209.1	3,789,817.9	1.67	0.32
	September	13,448.8	3,914.0	1.39314	5,452.8	45,089.7	0.0	0.00393	134.1	174,971.0	0.0	11,133.2	1.01999	11,355.8	42,836.7	43,693.0	5,572.3	46,485.9	0.00418	217,545.2	10,563,923.5	191,779.6	3,981,597.5	1.36	0.32
	October	13,448.8	3,882.6	1.39314	5,409.0	45,404.0	0.0	0.00396	134.1	177,877.8	0.0	15,143.0	1.01999	15,445.7	48,895.7	49,873.1	5,694.8	52,401.1	0.00438	254,735.2	10,868,531.8	198,732.5	4,180,330.0	1.53	0.33
	November	13,250.7	3,532.8	1.38964	4,909.3	42,068.4	0.0	0.00391	132.6	162,796.4	0.0	13,478.7	1.02002	13,748.5	44,395.7	45,284.3	5,440.4	58,417.5	0.00430	274,713.9	11,188,530.1	181,454.2	4,361,784.2	1.76	0.34
	December	13,250.7	3,410.3	1.38964	4,739.1	40,684.9	0.0	0.00391	132.6	157,159.7	0.0	13,553.8	1.02002	13,825.1	44,291.0	45,177.5	5,841.4	100,508.7	0.00414	440,262.1	11,673,969.7	175,723.9	4,537,508.1	2.76	0.35
2023	January	13,250.7	4,045.4	1.38964	5,621.6	49,905.3	0.0	0.00387	132.6	191,155.5	0.0	14,334.4	1.02002	14,621.3	45,853.6	46,771.4	6,704.7	110,865.8	0.00410	482,618.9	12,203,360.0	211,398.4	4,748,906.6	2.50	0.36
	February	13,250.7	3,833.0	1.38964	5,326.5	47,435.5	0.0	0.00386	132.6	181,284.2	0.0	12,822.6	1.02002	13,079.3	41,887.5	42,725.9	5,907.8	103,401.6	0.00412	450,644.0	12,696,729.9	199,689.9	4,948,596.5	2.47	0.37
	March	13,250.7	4,230.6	1.38964	5,879.0	51,479.5	0.0	0.00385	132.6	196,278.0	0.0	13,591.9	1.02002	13,864.0	47,450.7	48,400.5	6,522.9	114,379.7	0.00413	499,341.8	13,244,472.1	216,020.9	5,164,617.4	2.54	0.39
	April	13,250.7	4,427.9	1.38964	6,153.2	57,133.8	0.0	0.00390	132.6	220,717.1	0.0	12,074.6	1.02002	12,316.3	44,244.9	45,130.5	6,851.5	97,868.6	0.00418	437,909.5	13,727,512.1	239,186.6	5,403,804.0	2.02	0.40
	May	13,502.1	4,496.8	1.39409	6,268.9	58,132.6	0.0	0.00385	134.6	221,263.8	0.0	9,410.7	1.01998	9,598.8	39,584.3	40,375.3	7,262.4	117,233.2	0.00411	512,005.9	14,279,893.3	237,131.5	5,640,935.5	2.33	0.41
	June	13,893.0	4,427.2	1.40101	6,202.5	57,981.2	0.0	0.00385	137.6	220,701.2	0.0	18,097.6	1.01993	18,458.3	50,264.8	51,266.7	7,088.2	118,300.1	0.00412	516,103.6	14,847,263.6	245,362.1	5,886,297.5	2.31	0.42
	July	13,486.2	4,263.2	1.39380	5,942.1	55,221.3	0.0	0.00382	134.4	208,612.7	0.0	20,866.6	1.01999	21,283.6	48,629.2	49,601.1	6,688.8	121,553.1	0.00406	520,777.2	15,417,641.9	235,838.4	6,122,135.9	2.42	0.44
	August	13,486.2	4,801.4	1.39380	6,692.2	8,045.2	54,832.5	0.00381	134.4	28,195.1	208,926.6	23,908.7	1.01999	24,386.5	42,388.1	43,235.2	8,772.8	125,996.4	0.00413	557,254.8	16,018,132.0	268,200.5	6,390,336.4	2.24	0.45
	September	13,151.5	4,867.0	1.38788	6,754.8	9,600.6	54,341.9	0.00386	131.8	34,539.0	209,495.3	21,156.0	1.02003	21,579.7	40,223.6	41,029.2	10,170.9	123,063.8	0.00420	559,969.5	16,619,130.7	272,368.9	6,662,705.3	2.21	0.46
	October	13,151.5	4,674.6	1.38788	6,487.8	9,245.6	52,485.7	0.00380	131.8	32,831.5	199,683.4	18,496.4	1.02003	18,866.9	37,388.7	38,137.6	9,736.8	122,217.8	0.00416	549,447.5	17,206,715.8	257,869.6	6,920,574.9	2.28	0.48
	November	13,151.5	4,752.7	1.38788	6,596.2	9,895.2	56,055.5	0.00385	131.8	35,675.7	215,756.4	15,556.4	1.02003	15,868.0	44,436.4	45,326.4	10,323.7	122,841.3	0.00430	572,264.3	17,824,306.5	273,896.3	7,194,471.2	2.25	0.49
	December	13,151.5	5,850.2	1.38788	8,119.4	17,473.0	60,460.5	0.00384	131.8	64,178.3	232,321.7	18,632.6	1.02003	19,005.8	50,928.8	51,948.9	16,434.7	132,182.8	0.00419	622,590.8	18,498,846.1	323,625.2	7,518,096.4	2.08	0.50
2024	January	13,151.5	5,857.9	1.38788	8,130.1	9,271.3	70,759.1	0.00397	131.8	33,729.0	280,802.3	14,700.2	1.02003	14,994.6	48,772.8	49,749.7	10,124.8	141,374.5	0.00426	645,697.7	19,627,131.3	337,656.0	38,033,736.0	2.06	0.52
	February	13,151.5	5,297.4	1.38788	7,352.2	8,970.8	63,798.5	0.00397	131.8	32,842.2	253,276.4	14,411.6	1.02003	14,700.3	46,256.0	47,182.5	9,564.1	125,131.7	0.00430	578,799.4	20,253,113.1	308,171.0	38,341,907.1	2.03	0.53
	March	13,151.5	5,721.0	1.38788	7,940.1	8,926.6	68,277.0	0.00399	131.8	32,594.6	272,304.6	12,892.3	1.02003	13,150.5	47,559.0	48,511.6	9,481.5	129,539.5	0.00432	599,963.7	20,901,588.4	325,989.8	38,667,896.8	1.99	0.54
	April	13,740.1	5,571.9	1.39830	7,791.2	8,948.4	67,695.4	0.00370	136.4	30,301.6	250,516.4	8,737.5	1.01995	8,911.8	44,530.8	45,419.3	9,562.2	123,701.1	0.00399	531,825.7	21,478,833.3	297,521.1	38,965,417.9	1.94	0.55
	May	13,630.7	3,456.4	1.39636	4,826.4	5,178.5	41,663.7	0.00374	135.6	17,630.6	155,959.5	8,853.5	1.01997	9,030.3	31,737.0	32,370.7	5,951.2	112,870.9	0.00393	467,276.5	21,978,480.5	187,446.8	39,152,864.7	2.67	0.56
	June	13,630.7	4,743.8	1.39636	6,624.1	6,768.1	56,544.7	0.00377	135.6	23,080.8	213,077.7	8,206.6	1.01997	8,370.5	38,868.1	39,644.2	7,424.2	120,531.6	0.00401	513,293.8	22,531,418.5	251,153.1	39,404,017.7	2.20	0.57
	July	13,630.7	5,187.5	1.39636	7,243.6	7,528.3	63,178.7	0.00392	135.6	26,737.6	247,507.4	8,565.5	1.01997	8,736.5	41,784.8	42,619.1	8,024.3	132,350.8	0.00406	570,313.2	23,144,350.8	290,225.1	39,694,242.9	2.11	0.58
	August	13,663.0	5,519.0	1.39694	7,709.7	8,121.3	67,714.5	0.00372	135.8	27,423.7	251,907.2	8,995.4	1.01996	9,175.0	44,238.4	45,121.5	8,727.8	135,909.6	0.00401	580,491.4	23,769,963.6	296,215.5	39,990,458.4	2.11	0.59
	September	13,663.0	5,935.3	1.39694	8,291.2	8,796.0	73,673.2	0.00375	135.8	29,950.0	276,165.0	8,342.9	1.01996	8,509.4	45,215.1	46,117.7	9,250.5	118,306.7	0.00406	517,851.5	24,333,932.8	322,915.7	40,313,374.0	1.75	0.60
	October	13,663.0	5,954.5	1.39694	8,318.1	11,324.8	72,014.7	0.00364	135.8	38,281.2	262,153.0	9,497.9	1.01996	9,687.5	46,802.7	47,737.0	12,051.0	144,533.5	0.00409	640,020.8	25,021,690.6	318,439.7	40,631,813.7	2.16	0.62
	November	13,526.7	6,033.2	1.39452	8,413.4	8,988.2	75,826.3	0.00376	134.7	30,732.9	285,050.6	7,709.8	1.01998	7,863.8	34,356.4	35,042.8	9,620.9	146,428.3	0.00407	635,780.2	25,692,513.6	332,060.8	40,963,874.5	2.02	0.63
	December	13,526.7	7,162.0	1.39452	9,987.6	11,143.0	95,904.3	0.00378	134.7	38,463.3	362,430.7	22,579.3	1.01998	23,030.4	25,000.0	25,499.5	11,806.9	166,013.0	0.00407	723,139.2	26,441,152.3	433,912.1	41,397,786.6	1.73	0.64

ATTACHMENTS

ATTACHMENT 1

MMV Soil & Groundwater Monitoring 2024 Annual Report

Clive CO_2 Injection & Enhanced Oil Recovery Project

MMV Soil & Groundwater Monitoring

2024 Annual Report

Prepared for

Enhance Energy Inc.

Integrated Sustainability

02 April 2025

Report Submission To:	Franki Race
Cc:	Brendan McGowan
Legal Company Name:	Enhance Energy Inc.
Company Address:	2000 – 500 4 Avenue S.W. Calgary Alberta, T2P 2V6
Contact Phone Number:	+1(403) 984-5251
Contact Email Address:	FRace@enhancenergy.com BMcgowan@enhanceenergy.com

Submitted By:	Aaron Petrowitsch
Legal Company Name:	Integrated Sustainability.
Company Address:	1600 – 400 3 Avenue S.W. Calgary Alberta, T2P 4H2
Contact Phone Number:	+1 (403) 369-1678
Contact Email Address:	aaron.petrowitsch@integratedsustainability.ca

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Any questions concerning the information, or its interpretation should be directed to Aaron Petrowitsch.

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EXECUTIVE SUMMARY

Enhance Energy Inc. (Enhance) has been operating a Carbon Capture, Utilization and Storage (CCUS) project near the town of Clive, Alberta, since 2020. Carbon dioxide (CO_2) is piped to the Clive Battery from two facilities located in Sturgeon County northeast of Edmonton, Alberta. The CO_2 is injected into the Leduc Formation via a network of wells. The injection zone is located at a depth of roughly 1,800 to 1,900 m below ground level and capped by an effective primary seal. This primary seal constitutes a barrier to upward migration and leakage of CO_2 from the oil reservoirs targeted for CO_2-enhanced oil recovery in the area.

Enhance routinely monitors gases in the formations above the storage zone and reports them to the regulator on an annual basis pursuant to the approved Monitoring, Measurement & Verification (MMV) plan. This deeper monitoring interval is referred to as the Geosphere interval. Monitoring is focused on the Leduc Formation and the Nisku Formation, which is separated from the Leduc by the Ireton Formation caprock. The purpose of the Nisku monitoring is to confirm that geological containment of the injected CO_2 is being maintained.

As expected, CO_2 concentrations have been increasing in the Leduc Formation since the start of activities in March 2020. No significant departures from normally expected CO_2 variability have been identified in the overlying Nisku interval – a clear indication that the injected CO_2 remains secured within the Leduc interval.

No notable changes, beyond expected variability, have occurred either in the shallower bedrock formations being used for coal bed methane and/or conventional gas production, as well as dedicated and private residential water wells in the MMV area (referred to as the Hydrosphere interval), or soil gases measured across the same area (the Biosphere interval).

Therefore, results from the 2024 monitoring program (and previous years) indicate that the injected CO_2 is stable - in the Leduc Formation.

1 INTRODUCTION

1.1 Project Background

Enhance Energy Inc. (Enhance) is an Alberta-based company that specializes in enhanced oil recovery (EOR) and carbon capture, utilization, and storage (CCUS). Enhance's Clive Project (the Project) is a CCUS operation located in Lacombe County, Alberta - about 30 km northeast of the City of Red Deer (Figure 1). Carbon dioxide (CO_2) is piped to the facility from two sources via the Alberta Carbon Trunk Line. These include Nutrien Ltd. (Nutrien) and Northwest Redwater Partnership (NWR).

The CO_2 is injected into Devonian-aged bedrock of the Leduc Formation at a depth of roughly 1,800 to 1,900 meters below ground surface (mbgs). The Leduc Formation is overlain by the Ireton Formation that comprises an upper interval of shale and limestone and the lower interval of limestone with shale partings. The Ireton Formation is, in turn, overlain by the Winterburn Group and the Wabamun Group aquitard, which separates the Leduc from the shallower Cretaceous-aged Mannville and Colorado Group formations (including the coal-bearing Horseshoe Canyon Formation from which coal bed methane gas is extracted).

Overlying the bedrock is a mantle of unconsolidated glacial deposits (till) of Quaternary age and surficial soils of Holocene age of variable thickness. These till deposits were formed from glacial erosion of local and regional bedrock materials, including the Horseshoe Canyon Formation and other bedrock formations located to the north.

Monitoring at the Clive Project has been occurring since 2019 to fulfill the objectives of Enhance's approved Monitoring, Measurement & Verification (MMV) plan. This plan and the monitoring infrastructure put into place have been designed to ensure that containment of the injected CO_2 is maintained. Containment has been demonstrated based on the following information:

- Review and comparison of gas compositions in the deeper bedrock formations (Geosphere).
- Assessment of water quality conditions in freshwater aquifers in the upper 50 m of surface (Hydrosphere).
- Sampling and evaluation of soil gases in the upper 1 m of the soil profile (Biosphere).

Atmospheric gases have also been assessed at various locations for comparison with soil gas results to ensure that sampling intervals of the dedicated soil gas probes are isolated from surface and representative of the soil gases at each location.

Surveillance programs completed since 2019 have now developed a useful database of information to define baseline conditions across the Project area and define the range of natural variability regarding CO_2, CH_4, and H_2S levels so that any changes or trends that may indicate migration of injected CO_2 out from the Leduc Formation can be evaluated.

1.2 Scope of Report

This document represents the fifth MMV summary report completed for the Clive Project. The key objectives of this report are:

- Results of the 2024 field campaigns (late Spring and Fall).
- Assess temporal trends of monitoring data to determine if any changes outside of anticipated baseline conditions are evident.
- Identify and investigate anomalous conditions in the soil gases and/or groundwater samples to facilitate attribution of source and/or cause using geochemical forensics (i.e. gas composition and isotopic signatures).
- Document the findings and update understanding of the baseline conditions in the Geosphere, Hydrosphere, and Biosphere intervals.
- Continue to demonstrate successful CO_2 containment in the Leduc Formation.

1.3 Program Execution

Gas samples from the various bedrock formations defining the Geosphere interval (deep monitoring zone) were collected throughout 2024 for analysis of gas composition and isotopic values. The data was provided directly by Enhance for use in compiling this summary report.

Collection of groundwater samples from selected water wells defining the Hydrosphere interval (intermediate monitoring zone) was conducted by Integrated Sustainability during both 2024 site visits. A total of 26 samples were collected in the Spring and 26 in the Fall.

Soil gas sampling, defining the Biosphere interval (near surface monitoring zone), was conducted at 31 locations in the late Spring season and 32 locations in the Fall season of 2024. Sampling locations deemed to be approaching sufficient baseline data collection were either sampled once in the Spring or Fall of 2024 or removed from the sampling program as recommended by Integrated Sustainability and approved by Enhance. The 2024 program had plans to install three (3) new soil gas probes, but this could only be completed at two (2) locations, as outlined below.

Atmospheric gas sampling was also conducted at eight (8) locations to provide the data necessary to confirm the integrity of soil gas samples by identifying any interferences signaling a breach of the seal around the dedicated soil gas probes. Further details of the program methodology executed by the Integrated Sustainability team during the field program activities are provided in Appendix 1.

All groundwater and soil gas samples were submitted to AGAT Laboratories in Calgary AB for gas composition analysis, the University of Alberta for stable carbon isotope analysis, and the University of Ottawa for radioactive carbon analysis as per the approved MMV program.

Some modifications and refinements were made to the 2024 program. These included:

- Soil gas sampling locations were based on direction from Enhance, as sufficient baseline data have been collected based on monitoring since 2019.
- The installation of two (2) new soil gas probes.
  - 07-15-040-24 W4M
  - 05-21-040-24 W4M
- Soil gas samples were unable to be collected at the following locations:
  - 10-09-040-24 W4M: A soil gas probe was planned for installation at this location in the Fall season; however, a suitable location near the existing well pad area could not be identified, and therefore a soil gas probe was not installed.
- Groundwater samples were not collected at the landowner locations for the following reasons:
  - Landowner 4: No response/approval from the landowner to collect a sample.
  - Landowner 5: The residence was under renovation and did not have power supplied to the groundwater well for sampling.
- The five (5) Enhance dedicated monitoring wells located at 10-35-039-24 W4M, 04-15-040-24 W4M and 12-25-039-24 W4M were sampled in both the Summer and Fall of 2024 as directed by Enhance.

2 GEOSPHERE MONITORING

2.1 Gas Composition

Enhance measures the composition of gases present in various bedrock formations and the CO_2 they inject into the Leduc Formation, the locations of which are shown in Figure 2. Table A, on the following page, provides a summary of compositional ranges (in mole %) for relevant gases being tracked as part of the MMV program.

From a review of Table A, it is apparent that the composition of gases varies notably between the formations assessed, as well as the CO_2 that is injected into the Leduc. The most notable contrasts are the almost pure nature of the CO_2 being injected into the Leduc Formation, the presence of comparatively high concentrations of H_2S in the Leduc and Nisku, and the general lack of H_2S in the Mannville and CBM intervals.

Table A. Comparison of Gas Compositions in Various Bedrock Formations

Formation	CO_2 mole %	CH_4 mole %	C_2H_6 mole %	H_2S mole %
Source CO_2	95 - 100	Trace - 0.2	Trace - 1.4	ND
Leduc	2 - 98	0.1 - 75	0.01 - 8	Trace - 17
Nisku	0.1 - 12	0.05 - 97	0.02 - 21	Trace - 41
Mannville	0.3 - 0.6	88 - 93	3 - 4	ND - 0.1
CBM	0.1 - 0.9	92 - 99	ND - 0.5	ND

Note: ND = not detected

The detection of increasing CO_2 in overlying formations is considered the primary indication that containment by the Ireton caprock above the Leduc interval has been compromised. Detection of H_2S concentrations in shallower Mannville and CBM bedrock formations and/or surface casing vent flows (SCVFs) being monitored in the area may also signal the upward movement of gases from the deeper Devonian intervals and the presence of a connected pathway(s). The detection of H_2S alone, however, is not sufficient evidence to substantiate such an occurrence given its presence in the Nisku Formation, as well as the common occurrence geochemical reactions in the subsurface that can produce this gas in intervals that otherwise do not have it present. A weight of evidence approach is therefore necessary to confirm the unlikely situation of a CO_2 release from the Leduc Formation.

Table B. Comparison of Isotope Compositions in Various Gas Fractions and Related Formations

Formation	$\delta^{13}C_{CO2}$ (‰)	$\delta^{13}C_{CH4}$ (‰)	$\delta^{13}C_{C2H6}$ (‰)	$\delta^{34}S$ (‰)	$F14C_{CO2}$
Source CO_2	-44.8 to -25.4 (Avg: -28.3)	-44.5 to -29.9	-31.5 to -29.6	ND	<0.001 - 0.051
Leduc	-28.3 to 0.5	-40.5 to -32.6	-34.3 to 30.8	14.6 to 17.2	<0.001
Nisku	-13.1 to 3.7	-57.1 to -30.9	-33.9 to -26.3	14.6 to 16.0	<0.002
Mannville	-13.7 to -1.6	-47.3 to -46.0	-28.4 to -27.4	ND	ND
CBM	-13.8 to 24.5	-58.3 to -52.8	-39.1 to -36.1	ND	<0.001 - 0.01
SCVF	-10.0	-59.1 to -54.7	-47.5 to -46.1	ND	<0.002

Notes:

1. CBM = coal bed methane wells
2. SCVF = surface casing vents flow
3. ND = not determined

To enhance the investigative process, the use of carbon and sulphur isotopes has been employed to provide additional evidence needed to understand physical, chemical, and biological processes affecting the gas compositions. Table B summarizes the characteristic ranges of isotope measurements for the Geosphere intervals being monitored, while a complete listing of historical gas compositions and isotope measurements used to assess conditions in the Project area is provided in Appendix 2.

The most striking differences between the isotopic compositions of the gases sampled from the various Geosphere intervals are as follows:

- $\delta^{13}C_{CO2}$ values of the injected CO_2 are over 29‰ different than the bedrock intervals above the Leduc Formation.
- $\delta^{13}C_{CH4}$ and $\delta^{13}C_{C2H6}$ values are quite different in the CBM intervals compared to the deeper Mannville and Devonian (at least 6‰ lower for CH_4 and 7.6‰ lower for C_2H_6).
- $\delta^{34}S$ values in the Nisku and Leduc are unique compared to any other Geosphere interval.

2.2 Data Trends

The temporal history of CO_2 (as mole%) in both the Leduc and Nisku intervals is shown in Figure A. Injection operations commenced in March 2020, after which CO_2 in the Leduc monitoring wells began to increase, as noted by the red symbols. In contrast, CO_2 in the Nisku monitoring wells (blue symbols) has remained stable since that time. This lack of significant change in the Nisku monitoring wells is evidence that the injected CO_2 remains stable in the underlying Leduc interval and that the Ireton caprock is maintaining a competent seal to containment.

Of note, are the changing CO_2 levels recorded for the 04-26-039-24 W4M Nisku monitoring well, which is located near CO2 injection wells 01-26-039-24 W4M and 15-26-039-24 W4M. There was an increase starting in late 2022 from baseline levels of around 2-3 mole%, which was then followed by a peak in early 2023 of 12.2%. Following this peak value was a continual decline to the most current value of 1.3 mole%. The primary reason for these changes in chemistry is due to swabbing activities that were required to collect samples for analysis. These activities and their impact on samples collected from this well will be discussed further in Section 6 of this report.

Temporal changes in gas composition within shallower Geosphere intervals, in particular CBM wells in the area, are shown in Figure B. Although the CO_2 and CH_4 levels have remained within a narrow concentration band, the variable readings noted for the 12-12 and 10-34 CBM monitoring wells, compared to the 04-15 well, are of note. Further evaluation of the possible reason(s) is also provided in Section 6.

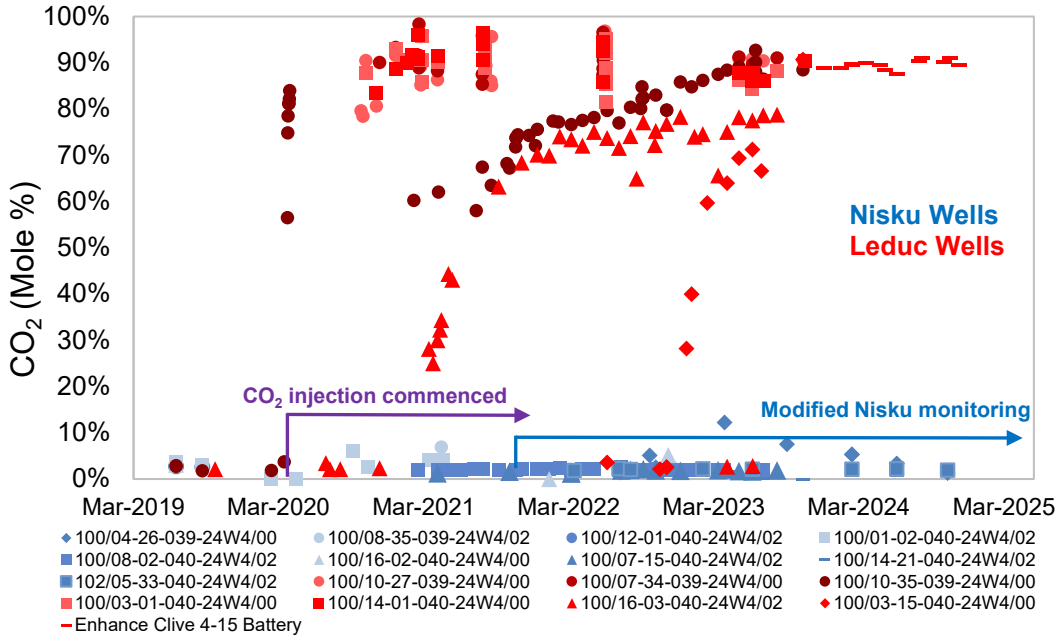


Figure A. Time Series Plot of CO_2 Concentrations in The Nisku and Leduc Formation Monitoring Wells.

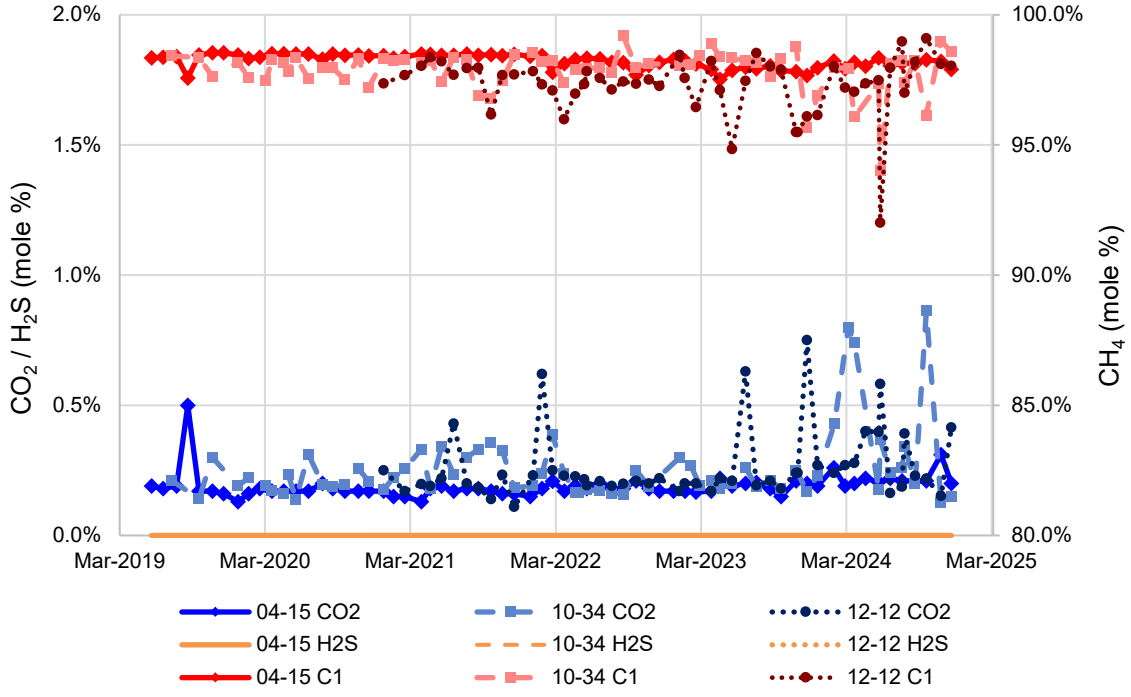


Figure B. Historical Concentrations of CO_2, H_2S, And CH_4 In Selected CBM Monitoring Wells.

3 HYDROSPHERE MONITORING

As part of the MMV program, groundwater samples are routinely collected for water quality and free gases analysis. These samples are collected from dedicated monitoring wells and local landowner wells situated throughout the CCUS project area. The majority of these wells are completed in upper bedrock deposits of the Edmonton Group formations, including the coal-bearing Horseshoe Canyon Formation. Landowner well locations in relation to the MMV plan area are shown in Figure 3, and details outlining the sampling process and laboratory analysis are provided in Appendix 1.

Results from this part of the MMV program are included in the following tables:

- Table 1A - Field Measured Parameters
- Table 1B - General, Major Ions, Nutrients
- Table 2 – Groundwater Analytical Results: Dissolved Metals
- Table 3 – Groundwater Analytical Results: Groundwater Isotopes
- Table 4 – Microbiological Parameters

3.1 Water Quality Conditions

Figure C has been provided to show the compositional differences in groundwater quality based on major ion composition. The Durov plot provided is constructed using percentages of major cation and anions plotted in separate ternary diagrams, as shown. Displaying groundwater data in this manner can reveal many things such as distinct types of water and depths relationships, natural geochemical evolution trends, and mixing relationships.

Based on the analysis of the samples collected in the study area, the groundwater can generally be described as fresh, low in mineralization (total dissolved solid = 537 ± 150 mg/L), alkaline (pH = 7.2 ± 0.7), and very hard (208 ± 147 mg/L as $CaCO_3$). The results are consistent with the expected range of water quality in shallow bedrock formations of southern Alberta (Cheung et al. 2010). The Durov plot provided in Figure C visually represents the major ion composition of the groundwater samples. The plot also displays that most of the samples collected are dominated by calcium and bicarbonate ions except for those that have been naturally softened (i.e. higher in sodium ions). This is displayed on the plot where the cation composition transitions from left to right in the upper ternary plot.

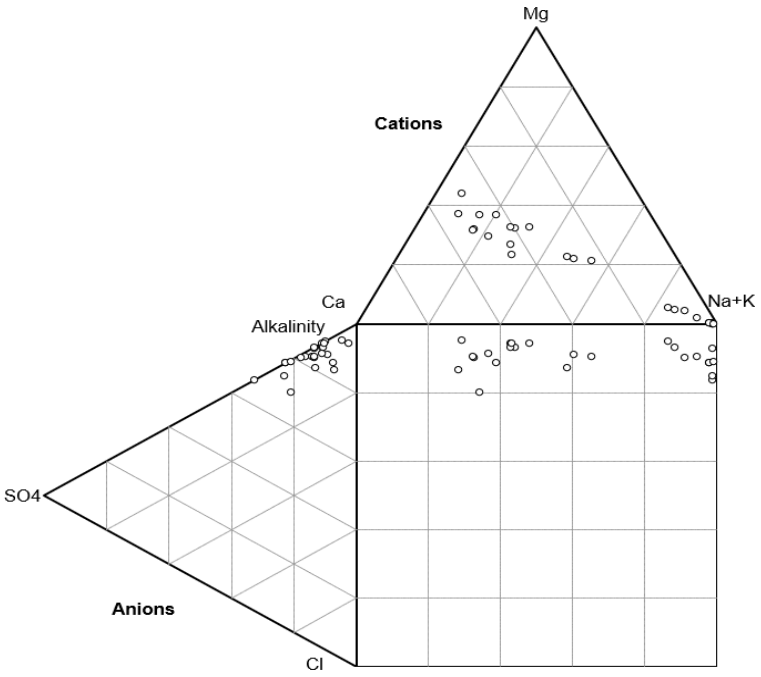


Figure C. Durov Plot of Hydrosphere Samples Showing Variability in Major Ion Composition

Table C provides a summary of groundwater quality as measured in 2024 and compared to historical measurements for various constituents of interest. Bacterial concentrations and isotopic compositions are provided as well. Comparisons have been made to established drinking water quality guidelines (Health Canada 2025), as well as selected criteria and percentage exceedances thereof. Groundwater exceedances observed in the comparison are not a cause for concern, as they represent the natural composition of the water.

Table C. Summary Of Selected Groundwater Parameters, Assessment Criteria, And % Exceedances of Assessment Criteria

Parameter	Measurement in 2024	2019-2023 range	Drinking water guideline or screening criteria [1]	% Above guideline in 2024	% Above guideline historically from 2019-2023
TDS (mg/L)	319 to 984	236 to 950	500	49	46
pH (field)	7.1 to 8.9	7.9 to 9.5	7.0 to 10.5	0	4
Hardness (as mg/L $CaCO_3$)	4.9 to 645	0.7 to 442	80-100 [1]	71	70

Parameter	Measurement in 2024	2019-2023 range	Drinking water guideline or screening criteria [1]	% Above guideline in 2024	% Above guideline historically from 2019-2023
Cl (mg/L)	<1 to 54	<1 to 111	10 [1]	29	30
NO_3 (as mg/L N)	<0.01 to 16.1	<0.1 to 7.9	10	4	1
Fe (mg/L)	<0.01 to 2.45	<0.10 to 11.30	≤0.10	29	15
Mn (mg/L	<0.01 to 1.04	<0.01 to 0.59	0.12	31	33
SFB (cfu/mL)	500 to 67,000	<1 to 67,000	0	100	90
IRB (cfu/mL)	150 to 35000	<1 to 9,000	0	100	92
SRB (cfu/mL)	5 to 115,000	<1 to 115,000	0	100	42
CO_2 (ppmv)		1 to 18,500	--	--	--
CH_4 (ppmv)		<10 to 400	--	--	--
$\delta^{13}C_{DIC}$ (‰)	-16.1 to -11.4	-15.0 to -11.1	--	--	--
$\delta^{13}C_{CO2}$ (‰)	-24.5 to -22.1	-22.0 to -12.1	--	--	--
$\delta^{13}C_{CH4}$ (‰)	ND	-88.8 to -32.7	--	--	--
$\delta^{34}S_{SO4}$ (‰)	-18.8 to 33.8	-9.6 to 2.2	--	--	--

Notes:

1. ND = not detected.
2. Drinking water guidelines accessed from Health Canada (2024).
3. TDS = total dissolved solids; Cl = chloride; NO3 = nitrate, Fe = iron; MN = manganese.
4. SFB = slime-forming bacteria; IRB = iron-reducing bacteria; SRB = sulphate-reducing bacteria.

Concentrations of the water quality parameters assessed in 2024 remained similar to historical values, including percentages of drinking water guidelines and/or screening criteria exceedances. Notable increases over previous monitoring program are, however, noted for:

- Iron (Fe)
- Sulphate-reducing bacteria (SRB)

The higher frequency of detections for Fe can be explained by the recent change in guideline value from the previous ≤0.30 mg/L to the new ≤0.10 mg/L in March of 2025. The coincidence of higher Fe and SRB concentrations is also suggestive of well-maintenance issues, as noted in previous monitoring reports. The presence of notable concentrations of

other bacteria, including slime-forming and iron-related, in a high percentage of the water wells is consistent with this conclusion. Similarly, the maximum reading of 33.8‰ for $\delta^{34}S_{SO4}$ is consistent with sulphate-reducing conditions. The generation of methanogenic conditions in some wells would, therefore, explain the presence of detectable concentrations of CH_4 in past sampling programs. However, the presence of CH_4 was not detected at levels above the method detection limit in any of the water wells sampled in 2024.

3.2 Data Trends

Analysis for the presence of statistically significant trends in water quality parameters was conducted to identify any emerging patterns for concern. Graphs showing temporal variation are provided in Figures 6 to 9 and Appendix 3. Notable trends identified in 2024 are summarized in Table D.

Table D. Summary of statistically significant trends identified in 2024.

Trend direction	Constituent	Well(s)
Increasing	TDS	160563, 273618, 298649, and 97466
	SRB	273119
Decreasing	Fe, dissolved	SW-16 GW, 273147, 159670, 273119, and 10-35-039-24W4M
	Fe, total	UL1, 160563, 273147, 159670, 292474, 273119, SE-15 GW
	Mn, dissolved	273119, 273147, SE-08 GW
	NO_3	273119, UL1
	SFBs	NW 32-040-24 W4M

Of the wells identified, the two that consistently show trends are highlighted in red (273147) and blue (273119) for ease of reference. It is clear that the vast majority of trends identified in 2024 are decreasing ones and, therefore, not of concern in the context of this MMV program.

4 BIOSPHERE MONITORING

4.1 Gas Composition

The network of soil gas monitoring stations was assessed twice in 2024, once in the Spring and in the Fall. A total of 65 soil gas sampling stations were assessed. Locations of those stations are shown in Figure 4, and details of the sampling and analytical activities are provided in Appendix 1.

Soil gas sampling results are included in Table 5A - Soil Gas Analytical Results. Table E provides a summary of gas compositions and isotopic measurements made in 2024, along with historical ranges of values, medians, and 95th percentiles (P95) for context.

Table E. Summary of Soil Gas Measurements Including Those Made In 2024

Parameter	2024 range	2024 median	2024 P95	2019 - 2023 range	2019-2023 median	2019-2023 P95
CO_2 (ppmv)	1070 - 99600	15100	59395	1070 - 94100	28500	85860
CH_4 (ppmv)	1 – 5	1	3	1 - 7	1	2
C_2H_6 (ppmv)	ND	ND	ND	ND – 0.28	ND	ND
H_2S (ppmv)	ND - 1	ND	ND	≤0.5	ND	ND
$\delta^{13}C_{CO2}$ (‰)	-26.3 to -16.1	-20.2	-17.7	-26.4 to -7.5	-20.7	-10.1
$\delta^{13}C_{CH4}$ (‰)	ND	ND	ND	-69.4 to -36.8	-51.3	-38.3
$\delta^{13}C_{C2H6}$ (‰)	ND	ND	ND	-30.6 to -27.2	-29.7	-27.5
$F14C_{CO2}$	0.33 - 093	0.71	0.89	0.13 – 0.98	0.71	0.92

Notes:

1. ND = not detected.
2. Results for 12-25 and 14-23 have been removed from the 2024 statistical assessment due to interference from SCVFs (2019 to 2023 range has retained these soil gas measurements).
3. CO_2 and CH_4 are reported from AGAT Breathing Air analysis results.
4. C_2H_6 and H_2S reported from AGAT Hydrocarbon C_{10}+ analysis results (C_2H_6 detection limit = 50 ppmv; H_2S detection limit = 0.5 ppmv).
5. P95 = calculated 95th percentile.

Compared to the historical range of values reported from 2019 to 2023, no significant departures from baseline conditions were detected in 2024. From a review of the historical ranges, it is evident that detections for CH_4, as well as C_2H_6 and H_2S, have been made in the past. This has occurred at locations known to have, or suspected to have, surface casing vent flows from the production wells. Such occurrences would account for the elevated reading reported; however, none of the detections made have been attributed to leakage from the deeper Devonian intervals (i.e. Leduc and Nisku).

A comparison of primary gases, including nitrogen (N_2), oxygen (O_2), and carbon dioxide (CO_2), was conducted to provide some context for the soil gas measurements made in 2024. The results are shown in Figure D, along with interpreted sources based on methodology developed by Romanak et al. (2013). What is most apparent is the prevalence of natural soil respiration processes and the formation of CO_2 as a result. The spatial distribution of soil gas CO_2 values measured in both the late Spring (green symbols) and Fall (red symbols) seasons is provided in Figure 5. A seasonal pattern of higher values in the early growing season compared to lower values later in the year is noted.

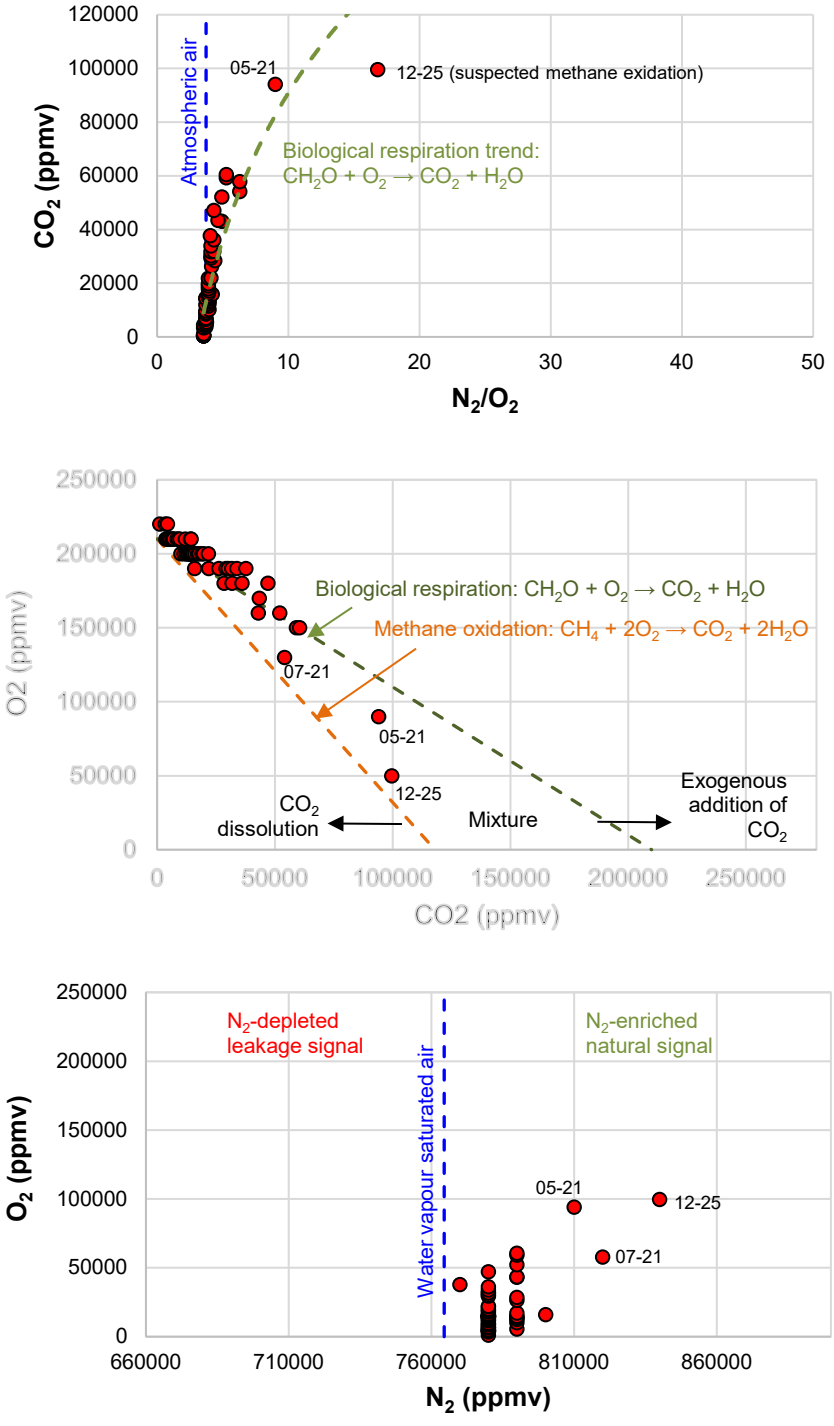


Figure D. Comparisons of N_2, O_2, and CO_2 In Soil Gas Samples for Source & Process Attribution *(Method from Romanak et al. 2013)*

As for soil gas CH_4, the spatial distribution of laboratory-measured values is provided in Figure 6. Measured values of 2 ppmv or less were noted in soil gas samples collected in both the late Spring (June) and Fall (September) sampling programs. This is consistent with the documented global atmospheric average of 1.93 ppm (as reported by NOAA Global Monitoring Laboratory; https://gml.noaa.gov/ccgg/trends_ch4/).

Concentrations of CO_2 and CH_4 measured during the 2024 sampling programs are shown in Figure E, along with other possible source gases from the underlying bedrock intervals. This includes the CO_2 injected into the Leduc Formation, shown as a blue triangle on the righthand side of the plot.

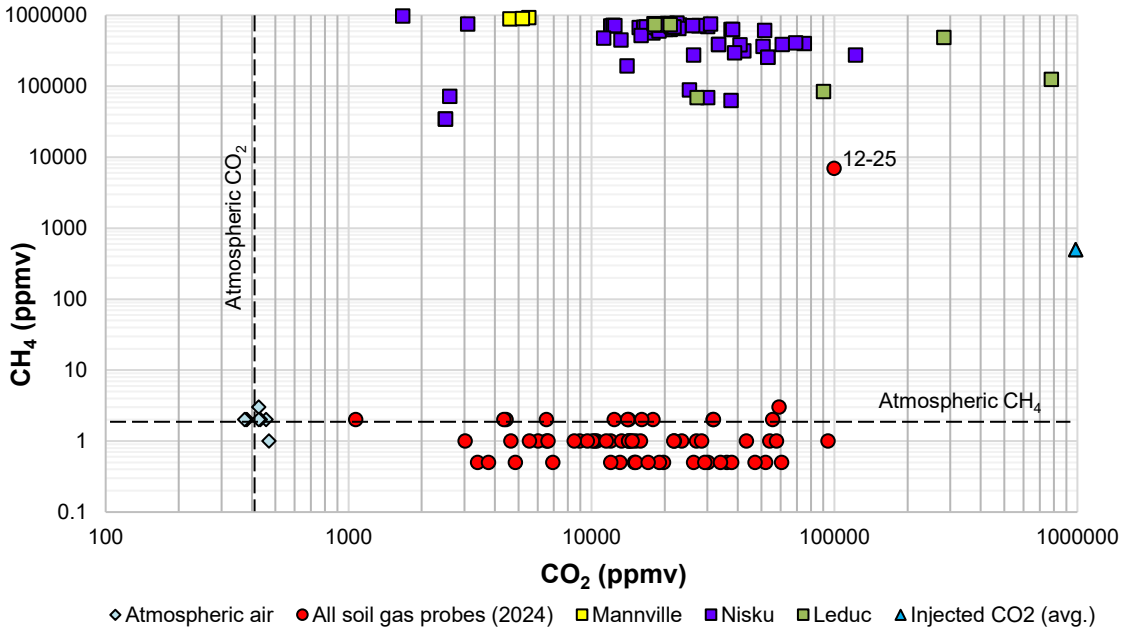


Figure E. Soil Gas Measurements for CO_2 And CH_4 Versus Other Gas Sources

During the 2024 sampling year, all soil gas monitoring locations were found to exhibit CO_2 and CH_4 consistent with expected baseline conditions, with one exception. The 12-25 location stands out compared to the rest of the soil gas measurements. This sample is believed to originate from the Lower Mannville based on its isotopic characteristics. Also apparent in the measurements collected is a seasonal difference in CO_2, as noted by the comparative statistics provided in Table F (i.e. a higher concentration of CO_2 tends to occur later in the growing season).

Table F. Statistical Comparison of Seasonal CO_2 Concentrations

	June CO_2 (ppmv)	September CO_2 (ppmv)
Average	20098	25132
Stdev	14861	24737
Median	14750	15200
P95	48850	73940
Count	34	33

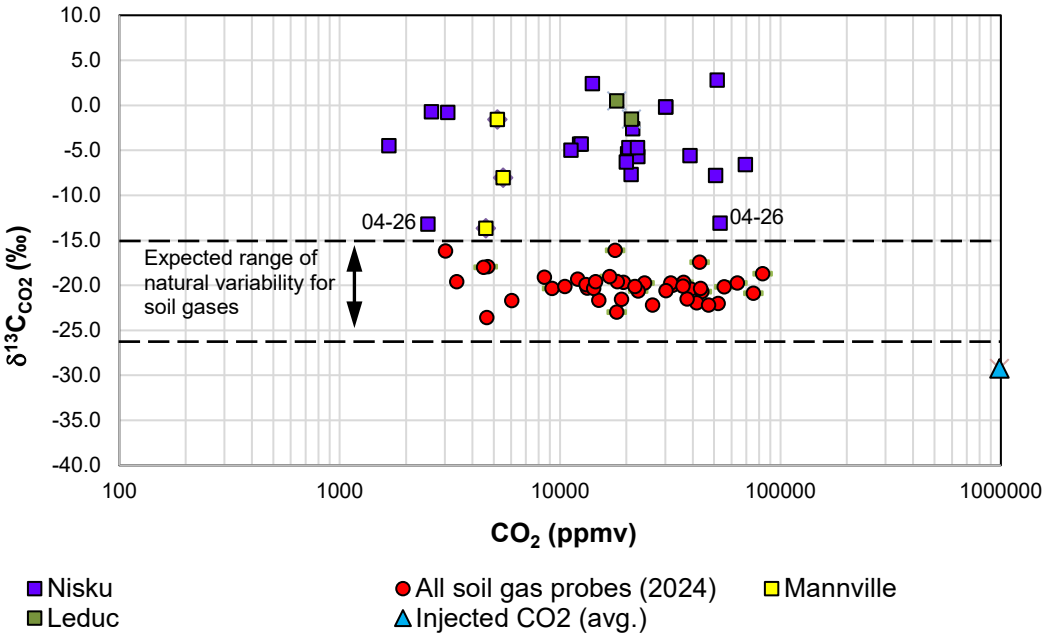


Figure F. Comparison of CO_2 Concentrations and $\delta^{13}C_{CO2}$ for Soil Gases and Various Other Gas Samples

Figure F shows a comparison between CO_2 concentrations and $\delta^{13}C_{CO2}$ values for samples collected in 2024. Also included are samples collected from the Geosphere intervals. It is clear that none of the soil gas samples exhibit $\delta^{13}C_{CO2}$ values consistent with either a deeper hydrocarbon source or, more importantly, the injected CO_2, which plots in the lower right corner of the graph. The spatial distribution of soil gas $\delta^{13}C_{CO2}$ values measured in both the late Spring (green symbols) and Fall (red symbols) seasons is provided in Figure 6. All soil gas sample results fall within the expected range of natural variability for the Project area, as shown by the dotted lines.

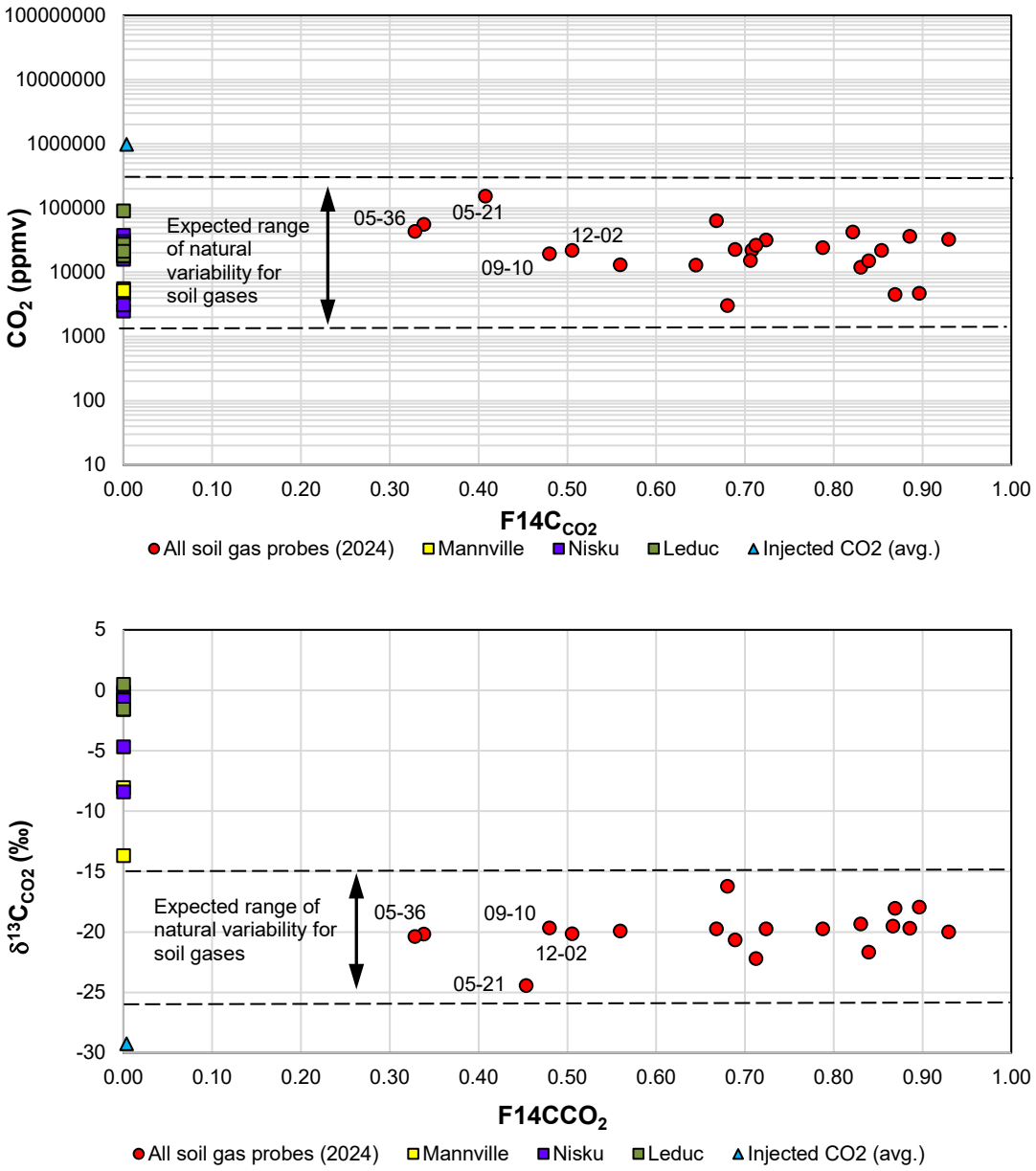


Figure G. Comparison of $F14C_{CO2}$ and CO_2 concentrations for Soil Gases and Other Potential Sources

Figure G shows the relationship between the fraction of radiogenic Carbon-14 (shown as $F14C_{CO2}$ values between 0.00 and 1.00) for both the measured CO_2 concentrations and $\delta^{13}C_{CO2}$ concentrations of the soil gas, Geosphere, and injected CO_2 samples collected in 2024. Most of the soil gas CO_2 measurements exhibit $F14C_{CO2}$ values of 0.50 or greater,

which is consistent with expected baseline conditions. Exceptions are noted for the following sampling locations:

- 05-36
- 05-21
- 09-10
- 12-02

When assessing all the MMV monitoring data together, including $\delta^{13}C_{CO2}$ values, the reason for the lower $F14C_{CO2}$ values cannot be linked to a deeper source of CO_2. The previous suspicion for the occurrence of comparatively older CO_2 (i.e. noted by the lower $F14C_{CO2}$ values) was the degassing of CH_4 from coal, known to be present in the upper bedrock and glacial till layers, followed by oxidation to CO_2. This suspicion still holds. Weathering of old plant material buried during deposition of the glacial deposits is also a possibility. The spatial distribution of soil gas $F14C_{CO2}$ values measured in both the late Spring (green symbols) and Fall (red symbols) seasons is provided in Figure 7.

4.2 Data Trends

Trends in concentrations of CO_2, CH_4, and H_2S, as well as measurements of $\delta^{13}C_{CO2}$ and $F14C_{CO2}$, were assessed using the full complement of historical data for each soil gas monitoring station. The Mann-Kendall test for trend (Mann 1945; Kendall 1975) combined with Theil-Sen's slope estimator (Sen 1968; Theil 1950) was used to accomplish this task. Trends were noted as being of a statistically significant nature when a greater than 95% confidence and a change of ±10% or more per year was reported. The results are summarized in Appendix 3 and discussed below. Graphs showing temporal variation are provided in Figures 10 to 13 and are provided in Appendix 3.

The following comments on trends are provided below.

- **CO_2:** Thirteen soil gas monitoring stations were identified with statistically significant trends during the preparation of this report. With the exception of one (16-16-040-24 W4M), all have been exhibiting declining trends in CO_2 since inception of the monitoring program in 2019.
- **CH_4**: Three locations out of four flagged by the trend evaluation process have shown increasing concentrations since 2019. These include:
  - 04-01-040-24W4
  - 01-32-040-24W4
  - 07-02-040-24W4
- **$\delta^{13}C_{CO2}$**: Values at all soil gas monitoring stations (except 06-08-041-24 W4M) have been exhibiting a declining trend, with changes ranging from 0.46 to 3.12 ‰ per year, or 2% to 20% per year.
- **$F14C_{CO2}$**: Values have been exhibiting an increasing trend anywhere from 0.8 to 3.5% per year - a move towards younger (not older) carbon-14 ages.

5 ATMOSPHERE MONITORING

Atmospheric air samples are routinely collected and analyzed as part of the MMV monitoring process to facilitate comparison with soil gases and help verify the integrity of the soil gas probes by ensuring proper isolation from interferences with the surface environment. Detection of anomalous CH_4 and H_2S is also used to determine the presence of fugitive gas emissions from surrounding production wells. Atmospheric air sampling results are included in Table 5B – Atmospheric Gas Analytical Results. Table G provides a summary of historical atmosphere gas composition and isotopic measurements collected in the 2019 to 2023 period (including the median and P95), as well as the range of values measured in 2024. Average concentrations from global monitoring stations have also been provided for context.

Table G. Summary of Atmospheric Gas Measurements

Parameter	Global Average	2024 range	2019 - 2023 Range	2019-2023 Median	2019-2023 P95
CO_2 (ppmv)	421	373 – 470	361 - 1180	414	773
CH_4 (ppmv)	1.9	0 – 600	0.5 – 4.0	2	2
H_2S (ppmv)	0.0001 – 0.0003	ND	ND	ND	ND
$\delta^{13}C_{CO2}$ (‰)	-8.2	-7.9 to -6.2	-17.0 to -5.8	-8.0	-11.3
$F14C_{CO2}$	1.045	0.995	0.993 – 1.032	1.003	1.007

Notes:

1. CO_2 and CH_4 are reported from AGAT Breathing Air analysis results.
2. P95 = calculated 95th percentile.
3. ND = not detected.
4. Global average $\delta^{13}C_{CO2}$ and $F14C_{CO2}$ accessed from NOAA's Global Monitoring Laboratory, https://gml.noaa.gov/ccgg/isotopes/.
5. Atmospheric H_2S data accessed from ATSDR website https://www.atsdr.cdc.gov/toxprofiles/tp114-c1-b.pdf.

6 TARGETED EVALUATIONS

6.1 04-26 Nisku Monitoring Well

As noted in Section 2.2 of this report, CO_2 concentrations measured in the 04-26-039-24 W4M Nisku monitoring well started to increase in 2021. The median concentration for data associated with all Nisku monitoring wells (n = 89) has been established at 2.1%, with a P95 of 5.5%. However, in August 2021, a sharp increase to 5.6% was noted, followed by a decline, then an increase to 12.2% in April 2022, followed by a steadily declining trend to the most recent measurement of 1.3% in November 2024.

Figure H shows the changes in CO_2 at the 04-26 Nisku well since late January 2020, along with $\delta^{13}C_{CO2}$ measurements. The lack of a sustained level of elevated CO_2 and detection of $\delta^{13}C_{CO2}$ values inconsistent with the injected CO_2 leads to the conclusion a leak of CO_2 from the Leduc is not responsible.

Following discussions with Enhance, it was determined that the 04-26 well has required swabbing activities to collect samples for analysis. These activities may have potentially influenced the two documented measurements of $\delta^{13}C_{CO2}$ at levels below -10‰, that are clearly suspect when compared to the others.

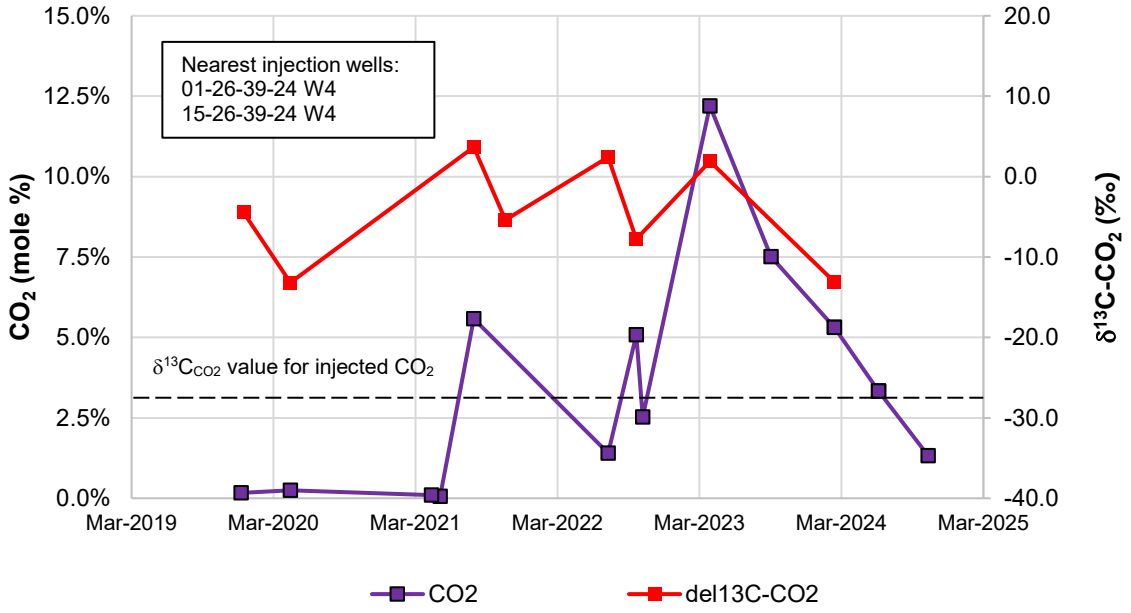


Figure H. Changes in mole% CO_2 and $\delta^{13}C_{CO2}$ Measurements at Nisku Monitoring Well 04-26-039-24 W4M.

Results from the next cycle of monitoring at the 04-26 well will help confirm that well swabbing activities are the reason for the variability in CO_2 gas and associated $\delta^{13}C_{CO2}$ values.

6.2 CBM Monitoring Wells

The variability in the CO_2 and CH_4 measurements noted in CBM wells 12-12 and 10-35 was first investigated by reviewing for the presence of H_2S. If the upward movement of gases from the deeper Devonian formations was responsible, then measurable concentrations of this gas would be detected. This, however, has not been the case.

A comparison of CO_2 and N_2 compositions of the CBM gases with the deeper Devonian intervals and the injected CO_2 was also made. The results are shown in Figure I, where it is

quite evident that the CBM gases have a different composition compared to the Geosphere source, in particular, the injected CO_2.

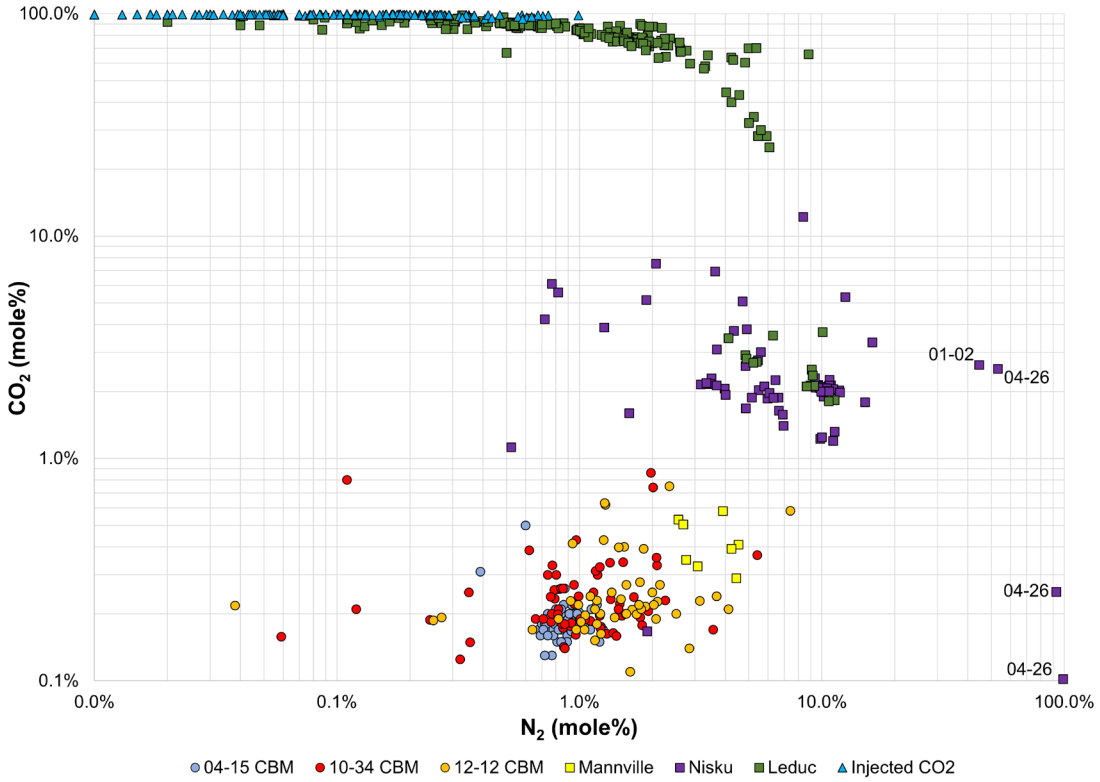


Figure I. Comparison of CO_2 and N_2 for CBM and Other Source Gases

Finally, a comparison of $\delta^{13}C_{CH4}$ and $\delta^{13}C_{C2H6}$ was made, with the results provided in Figure J. The separation between data value groupings for the Leduc, Nisku, and Mannville wells versus the CBM wells is obvious and supports the conclusion that intervening caprock formations are providing the seal necessary to isolate the shallower gas-bearing formations from the deeper zones.

Whatever the reason(s) of the CO_2 variability in the CBM wells, the weight of evidence indicates that the cause of this variability is not related to the upward migration of gases sourced from deeper formations, specifically the Leduc Formation where the injected CO_2 has been placed.

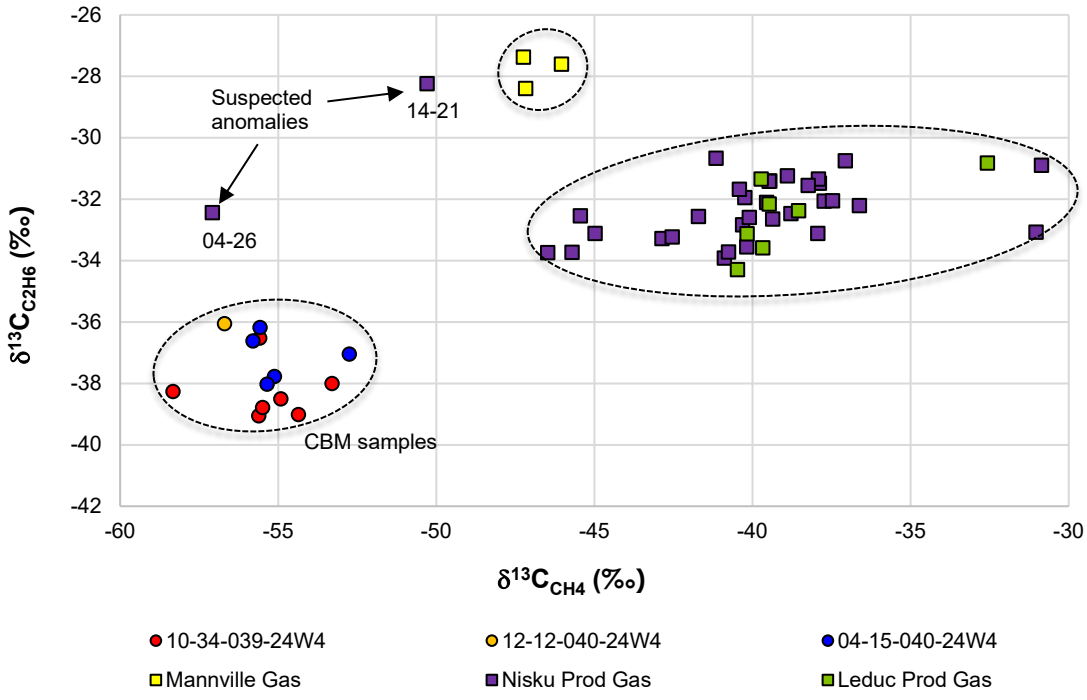


Figure J. Comparison of $\delta^{13}C_{CH4}$ and $\delta^{13}C_{C2H6}$ Measurements for CBM and Other Formation Gases

7 SUMMARY AND CONCLUSIONS

The 2024 monitoring program was the sixth year that surveillance was completed to track the performance of CO_2 containment in the Leduc Formation. The program included the assessment of gases collected from various bedrock formations (Geosphere interval), water samples and, if available, dissolved gas samples from local water wells (Hydrosphere interval), and soil gas monitoring at dedicated locations through the Clive field (Biosphere interval). Sampling of the atmospheric gases for compositions and isotopes (Atmosphere) was also conducted at several locations to provide data to check the integrity of soil gas probes and facilitate comparisons with measured values from other locations and sampling media (gas versus water).

Based on the result obtained from the 2024 program and comparisons with those obtained from previous year's programs, the following conclusions can be drawn:

Geosphere Monitoring:

- Injected CO_2 remains within the Leduc Formation, as evidenced by a lack of an increasing concentration of CO_2 within the overlying Nisku Formation (and other shallower bedrock intervals).
- The increase and subsequent decrease in CO_2 noted at the 04-26 Nisku monitoring well (during the 2002 to 2023 period) is not consistent with an escape of injected CO_2 from the underlying Leduc. Evidence is provided by the $\delta^{13}C_{CO2}$ values, which are not consistent with the injected CO_2.
- The increase in variability of CO_2 and CH_4 in the CBM monitoring wells is not consistent with gases moving upward from either the Mannville or deeper Devonian intervals. Evidence is provided by the lack of detectable H_2S originating from the deeper Devonian intervals and/or a lack of similarity in $\delta^{13}C_{CH4}$ and $\delta^{13}C_{C2H6}$ measurements.

Hydrosphere Monitoring:

- Groundwater sampled from private water wells around the MMV area continues to show water quality results consistent with natural baseline chemistry for shallow bedrock formations in Central Alberta.
- No concerns beyond the consistent detection of slime-forming, iron-related, and sulphate-reducing bacteria were noted. The presence of these bacteria is quite common for water wells that have not been routinely maintained (i.e. shock chlorination or physical cleaning).
- Trends in water quality parameters indicate decreasing values with the exception of increasing TDS at four wells and SRB concentrations at one. These increasing trends are not related to the CCUS program based on preceding evidence.

Biosphere Monitoring:

- Soil gas monitoring results from the 2024 program remain consistent with natural baseline conditions in the area. Review of N_2, O_2, CO_2, CH_4 (and related isotopes) indicates conditions consistent with soil respiration processes as the driver for the range and variability of values observed.
- Seasonal changes in CO_2 levels are evident, with higher concentrations of this soil gas occurring later in the year (September) when soil respiration has approached or reached its peak during the active growing season.
- The source of anomalous CO_2 and CH_4 at the 12-25 soil probe monitoring location remains consistent with gas originating from the lower Mannville Group.
- Statistically significant trends, the majority of which are showing declining CO_2 levels and a small number with slightly increasing CH_4 levels (around 2 ppmv/year), have been identified but are not related to CCUS activities in the area.

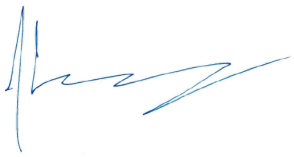
8 CLOSURE

Integrated Sustainability would like to thank Enhance Energy Inc. for the opportunity to support the Clive MMV program. We trust that this report meets your needs and expectations. If you have any questions, please contact the undersigned at your convenience.

Sincerely,

Integrated Sustainability

Jon Fennell, M.Sc., Ph.D., P.Geol.
Principal Hydrogeologist & Geochemist



Joseph Cruz, B.Sc., P.Geo.
Senior Hydrogeologist

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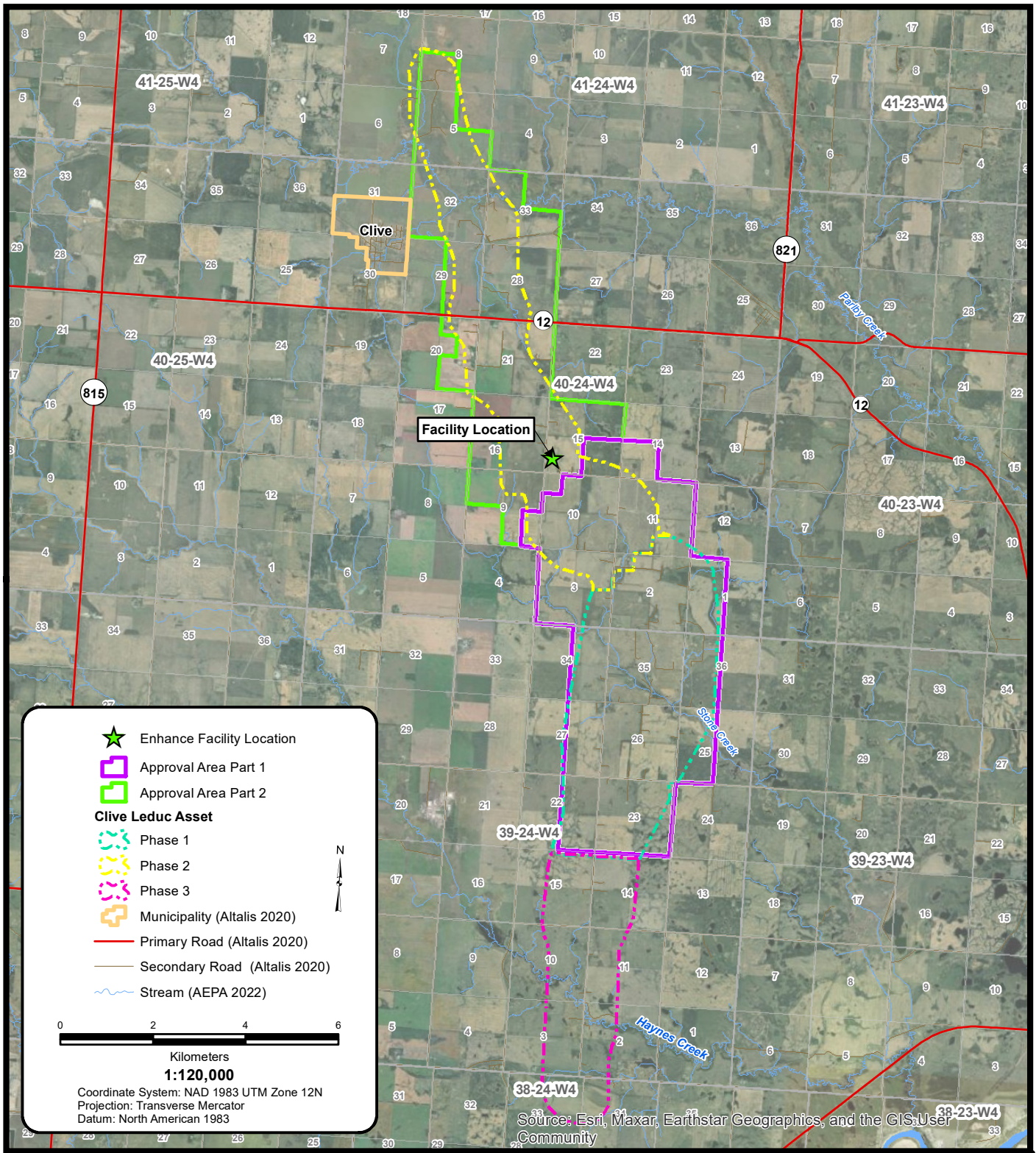
Figures



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ENHANCE ENERGY INC.
MMV SOIL & GROUNDWATER MONITORING 2024 ANNUAL REPORT
MMV PLAN AREA

DRAWN BY:	CHECKED BY:	APPROVED BY:
K.MATEUSH	I.GRANT	J.FENNELL

PROJECT NO.	FIGURE NO.	REVISION:
CP24-EEI-01-00	1	3

NOTES: 1-APR-25
Source: Roads and Urban Areas from Altalis. MMV Plan Area provided by Enhance. FWMIS Streams from Government of Alberta. Esri, Maxar, Earthstar Geographics, and the GIS User Community.

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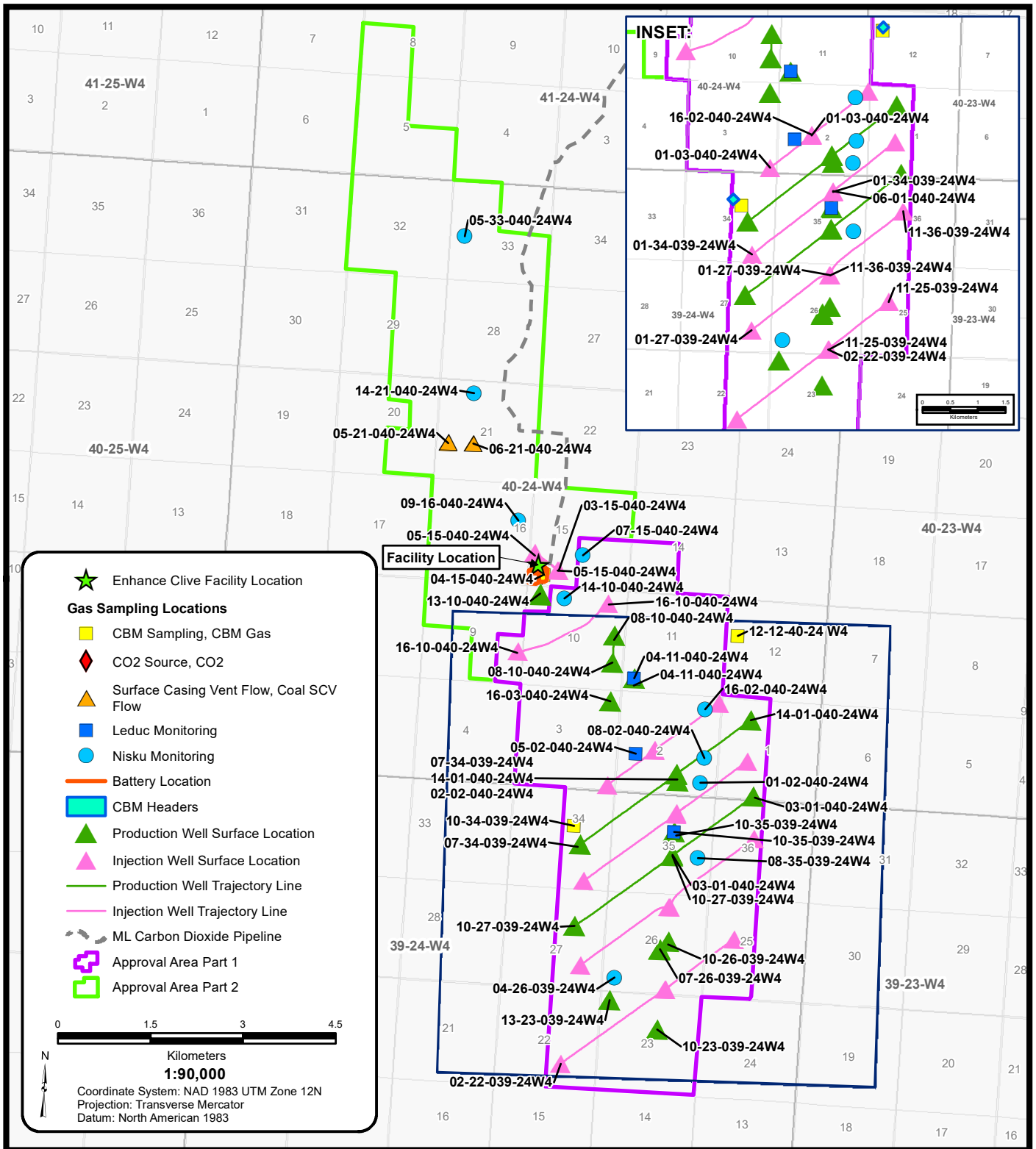

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MMV SOIL & GROUNDWATER MONITORING 2024 ANNUAL REPORT
GAS SAMPLING LOCATIONS

DRAWN BY:	CHECKED BY:	APPROVED BY:
K.MATEUSH	J.FENNELL	I.GRANT

PROJECT NO.	FIGURE NO.	REVISION:
CP24-EEI-01-00	2	3

NOTES: 1-APR-25
Source: MMV Plan Area provided by Enhance. Production and Injection data, georeferenced in from Enhance_Final_2020HMP_MAR2021_PublicVersion.pdf. Pipelines providedd by the Government of Alberta.

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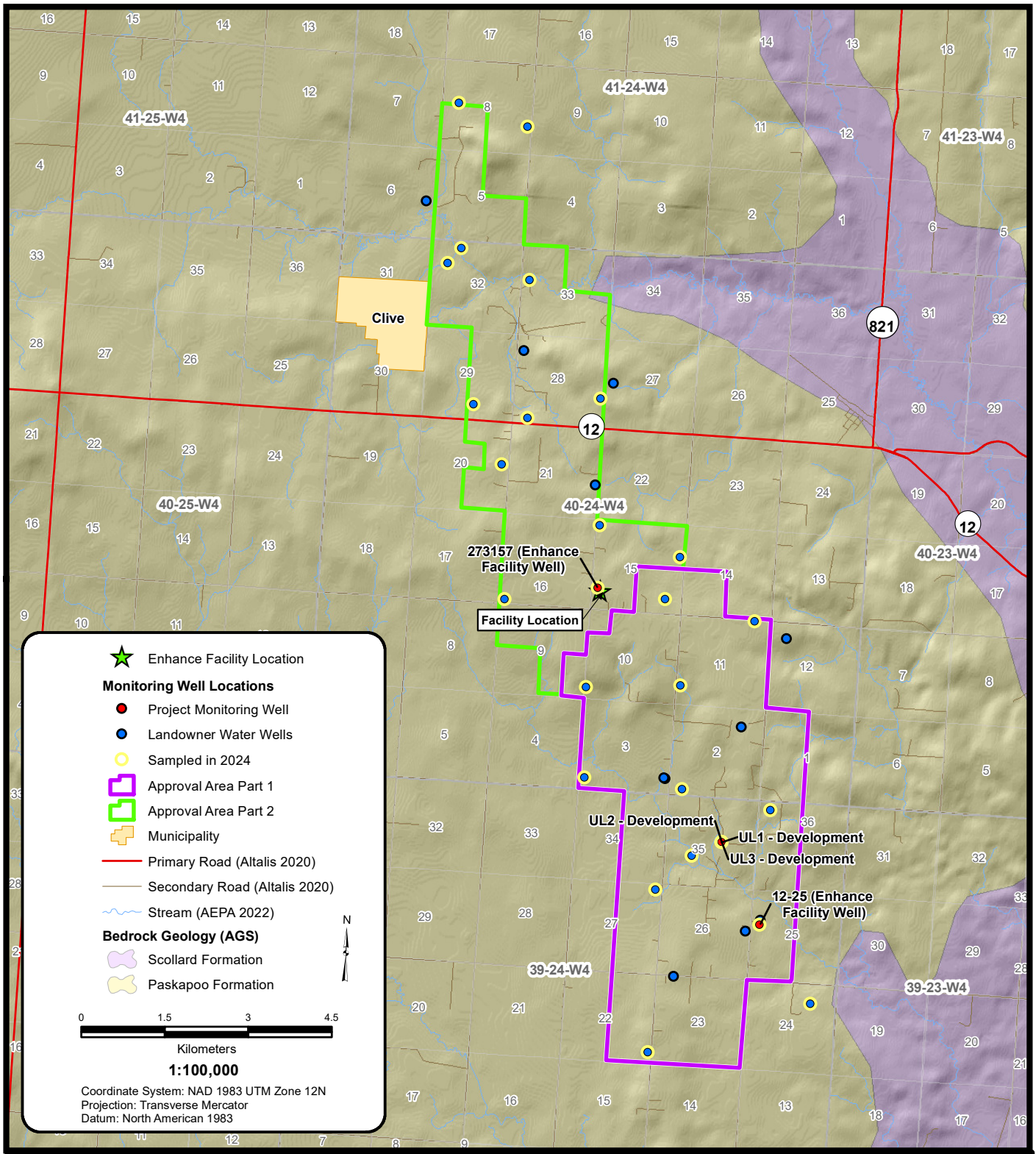

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MMV SOIL & GROUNDWATER MONITORING 2024 ANNUAL REPORT
MONITORING WELL NETWORK

DRAWN BY:	CHECKED BY:	APPROVED BY:
K.MATEUSH	J.FENNELL	I.GRANT

PROJECT NO.	FIGURE NO.	REVISION:
CP24-EEI-01-00	3	3

NOTES: 2-APR-25
Source: Roads and Urban Areas from Altalis. MMV Plan Area provided by Enhance.
FWMIS Streams and Bedrock Geology from Government of Alberta. (Bedrock from Alberta Geological Survey.)

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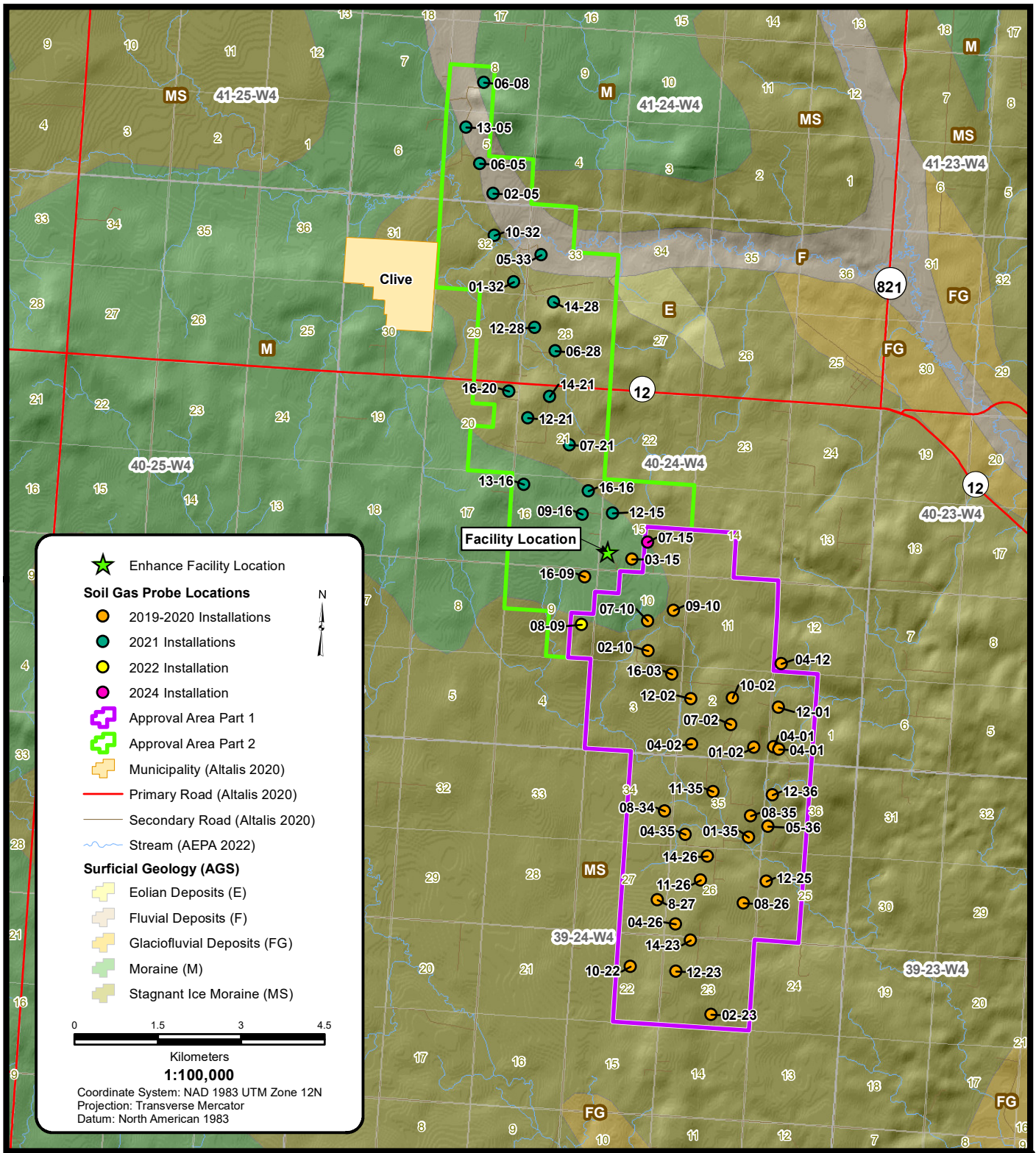

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MMV SOIL & GROUNDWATER MONITORING 2024 ANNUAL REPORT
SOIL GAS PROBE NETWORK

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K.MATEUSH	J.FENNELL	I.GRANT

PROJECT NO.	FIGURE NO.	REVISION:
CP24-EEI-01-00	4	3

NOTES: 1-APR-25
Source: Roads and Urban Areas from Altalis. MMV Plan Area provided by Enhance.
FWMIS Streams and Surficial Geology from Government of Alberta. (Surficial Geology from the Alberta Geological Survey)

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4860
21800
27000
North 3 Data
17100
10500
12400
12000
Clive
1070
4450
6540
10300
15200
3770
50
North 2 Data
14100 (Dup 3)
6520
94100
57800
54100 (Dup 2)
55700
6920
6030
31800
23500
26300
13100
17900
11500
19800
29300
15200
8490
12000
6610
14200
4650
8930
14200
19000
15900
14500
North 1 Data
13300
14200
21900
9620
52100
4350
5550 (Dup 1)
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36100
10100
14700
15000 (Dup 2)
43400
28400
37700
33900
99600
South Data
31700
47100
15000
16100
43000
60500

41-25-W4
41-24-W4
41-23-W4
40-25-W4
40-24-W4
40-23-W4
39-24-W4
39-23-W4

Spring = Green
Fall = Red

- Soil Gas Probe Locations
- Enhance Facility Location
- Approval Area Part
- Approval Area Part
- North 3 Data
- North 2 Data
- North 1 Data
- South Data
- Primary Road (Altalis 2020)
- Secondary Road (Altalis 2020)
- Stream (AEPA 2022)
- Municipality (Altalis 2020)

NOTE: Units are in ppmv.

0 1 2
Kilometers

N

1:52,000

Coordinate System: NAD 1983 UTM Zone 12N

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CLIENT:
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MMV SOIL & GROUNDWATER MONITORING 2024 ANNUAL REPORT
SOIL GAS PROBE NETWORK
CO2 SPRING AND FALL 2024 RESULTS

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K.MATEUSH	J.FENNELL	I.GRANT

PROJECT NO.	FIGURE NO.	REVISION:
CP24-EEI-01-00	5	3

NOTES: 1-APR-25
Source: Roads and Urban Areas from Altalis. MMV Plan Area provided by Enhance. FWMIS Streams from Government of Alberta.

41-25-W4
41-24-W4
41-23-W4
40-25-W4
40-24-W4
40-23-W4
39-24-W4
39-23-W4
North 3 Data
North 2 Data
North 1 Data
South Data
Clive
821
12
2 (Dup 3)
1 (Dup 2)
1 (Dup 1)
< 1 (Dup 2)
6930

Spring = Green
Fall = Red

- Soil Gas Probe Locations
- Enhance Facility Location
- Approval Area Part
- Approval Area Part
- North 3 Data
- North 2 Data
- North 1 Data
- South Data
- Primary Road (Altalis 2020)
- Secondary Road (Altalis 2020)
- Stream (AEPA 2022)
- Municipality (Altalis 2020)

NOTE: Units are in ppmv.

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Kilometers

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Coordinate System: NAD 1983 UTM Zone 12N

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Fort McMurray
Grande Prairie
Edmonton
Calgary

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MMV SOIL & GROUNDWATER MONITORING 2024 ANNUAL REPORT
SOIL GAS PROBE NETWORK
CH4 SPRING AND FALL 2024 RESULTS

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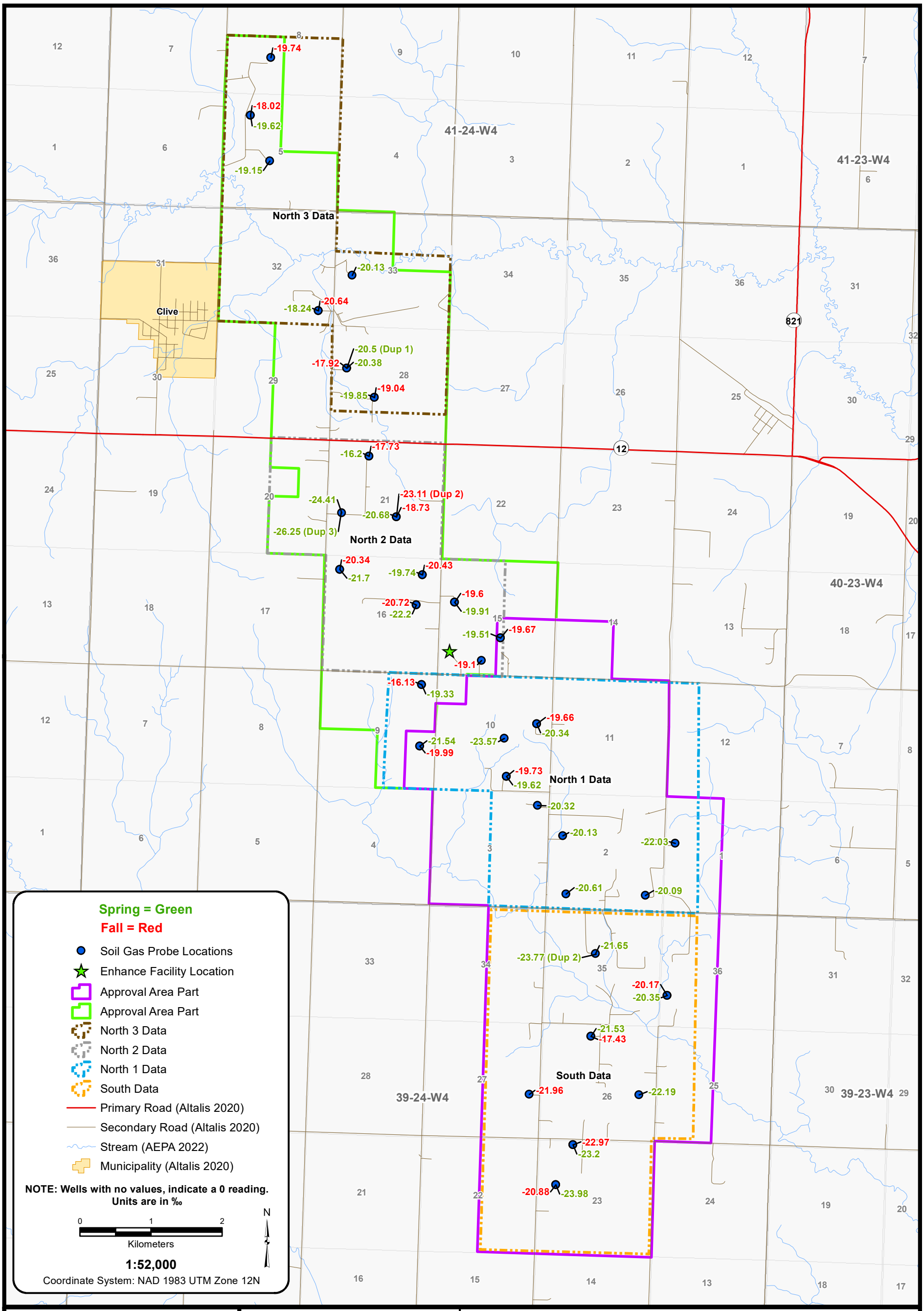
K.MATEUSH	J.FENNELL	I.GRANT

PROJECT NO.	FIGURE NO.	REVISION:
CP24-EEI-01-00	6	3

NOTES: 1-APR-25
Source: Roads and Urban Areas from Altalis. MMV Plan Area provided by Enhance. FWMIS Streams from Government of Alberta.



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MMV SOIL & GROUNDWATER MONITORING 2024 ANNUAL REPORT
SOIL GAS PROBE NETWORK
D13C-CO2 SPRING AND FALL 2024 RESULTS

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K.MATEUSH	J.FENNELL	I.GRANT

PROJECT NO.	FIGURE NO.	REVISION:
CP24-EEI-01-00	7	3

NOTES: 1-APR-25
Source: Roads and Urban Areas from Altalis. MMV Plan Area provided by Enhance. FWMIS Streams from Government of Alberta.

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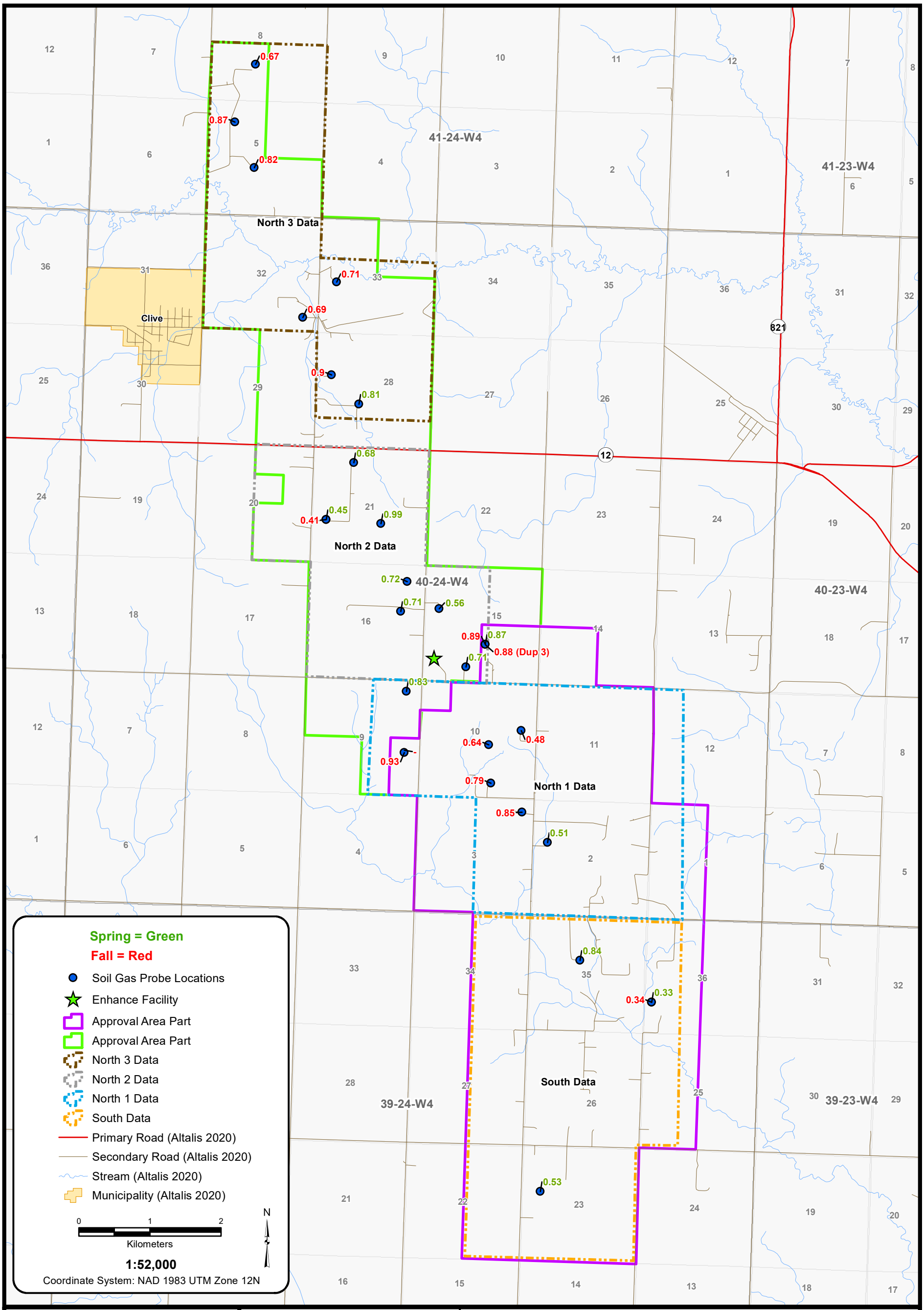

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MMV SOIL & GROUNDWATER MONITORING 2024 ANNUAL REPORT
SOIL GAS PROBE NETWORK
F14C CO2 SPRING AND FALL 2024 RESULTS

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K.MATEUSH	J.FENNELL	I.GRANT

PROJECT NO.	FIGURE NO.	REVISION:
CP24-EEI-01-00	8	3

NOTES: 1-APR-25
Source: Roads and Urban Areas from Altalis. MMV Plan Area provided by Enhance. FWMIS Streams from Government of Alberta.

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Tables

Table 1A: Groundwater Analytical Results: Field Measured Parameters

Project Number: CP24-EEI-01-00 **Date:** January 8, 2025 **Rev #:** 3

Date (dd-mmm-yy)	Landowner	Field Temperature °C	Electrical Conductivity µS/cm	pH pH Units	Field Dissolved Oxygen (Percent) %	Oxidizing-Reducing Potential (Field) %
7/Oct/21	Landowner 2	9.47	513	7.55	29.7	-
15/Jun/22	Landowner 2	13.7	517	6.7	43.5	-
20/Sep/22	Landowner 2	11.4	540.35	7.79	117.58	-
21/Jun/23	Landowner 2	8.71	731	6.64	38.8	-
13/Sep/23	Landowner 2	7.4	740	7.31	21.7	-
12/Jun/24	Landowner 2	8.6	754	7.13	36.1	-
12/Jun/24	Landowner 2	8.6	754	7.13	36.1	-
11/Sep/24	Landowner 2	10.8	763	7.16	29.6	179.3
7/Oct/21	Landowner 1	9.62	454	7.80	N/A	-
17/Jun/22	Landowner 1	11.65	476	7.56	25.7	-
19/Sep/22	Landowner 1	11.37	439	7.72	92.16	-
22/Jun/23	Landowner 1	9.2	648	7.03	30	-
13/Sep/23	Landowner 1	10.6	654	7.38	12.1	-
11/Jun/24	Landowner 1	10.8	682	7.39	32.1	-
19/Sep/24	Landowner 1	13	663	7.34	21.5	118.2
6/Oct/21	Landowner 25	7.6	448	7.55	69.4	-

Date (dd-mmm-yy)	Landowner	Field Temperature °C	Electrical Conductivity µS/cm	pH pH Units	Field Dissolved Oxygen (Percent) %	Oxidizing-Reducing Potential (Field) %
16/Jun/21	Landowner 33	7.69	532	6.82	78.1	-
7/Oct/21	Landowner 33	7.78	492	N/A	N/A	-
15/Jun/22	Landowner 33	11.4	359	7.87	80.1	-
21/Sep/22	Landowner 33	13.9	592.15	7.8	117.53	-
21/Jun/23	Landowner 33	8.4	742	7.09	63	-
19/Sep/23	Landowner 33	7.8	737	7.35	46.9	-
19/Sep/23	Landowner 33	7.8	737	7.35	46.9	-
11/Jun/24	Landowner 33	9.3	752	7.41	69.1	-
10/Sep/24	Landowner 33	10.3	747	7.43	72.8	166.9
15/Jun/22	Landowner 33	10.65	522	7.60	102.2	-
8/Oct/21	Landowner 4	8.95	601	7.58	53.5	-
18/Jun/22	Landowner 4	11.41	647	7.37	33.4	-
19/Sep/22	Landowner 4	13.94	662.89	7.19	115.24	-
21/Jun/23	Landowner 4	8.4	742	7.12	63	-
13/Sep/23	Landowner 4	10.2	873	7.24	22.5	-
12/Sep/24	Landowner 4	10.5	874	7.17	30.1	-44.5
8/Oct/21	Landowner 31	8.77	660	8.03	30.1	-
17/Jun/22	Landowner 31	13.4	703	7.53	125	-
19/Sep/22	Landowner 31	11.42	641.64	7.41	46.24	-
19/Sep/22	Landowner 31	11.42	641.64	7.41	46.24	-
27/Jun/23	Landowner 31	8.92	951	7.44	56.6	-
14/Sep/23	Landowner 31	8.9	941	7.49	16.2	-
7/Oct/21	Landowner 24	7.9	321	7.74	88.1	-
17/Jun/22	Landowner 24	7.5	938	9.06	53	-
22/Sep/22	Landowner 24	14.49	400.12	9.82	53	-
14/Jun/21	UL1 - Development	7.43	646	7.43	41.8	-
14/Jun/21	UL2 - Development	10.42	685	7.21	34.1	-

Date (dd-mmm-yy)	Landowner	Field Temperature °C	Electrical Conductivity µS/cm	pH pH Units	Field Dissolved Oxygen (Percent) %	Oxidizing-Reducing Potential (Field) %
14/Jun/21	UL3 - Development	12.42	1230	10.02	26.9	-
22/Sep/23	Landowner 35	7	825	7.13	22.8	-
20/Jun/24	Landowner 35	8.4	857	7.13	22.1	-
17/Sep/24	Landowner 35	8.4	853	7.14	26.9	-31.8
16/Jun/21	Landowner 19	7.86	539	7.11	52.4	-
8/Oct/21	Landowner 19	8.4	275	7.49	111.2	-
24/Jun/23	Landowner 19	11.2	751	7.08	63.6	-
24/Jun/23	Landowner 19	11.2	751	7.08	63.6	-
18/Sep/23	Landowner 19	7.7	775	7.14	29.7	-
11/Jun/24	Landowner 19	9.2	807	7.24	51.2	-
11/Sep/24	Landowner 19	9.6	801	7.16	56.1	171.8
23/Jun/22	Landowner 29	8.99	453	7.71	70.4	-
24/Jun/22	Landowner 29	8.99	453	7.71	70.4	-
24/Sep/22	Landowner 29	12.48	603	7.90	40.60	-
29/Jun/23	Landowner 29	11.16	684	6.37	20.30	-
14/Sep/23	Landowner 29	10.1	644	7.32	13.9	-
17/Jun/24	Landowner 29	9.4	680	7.30	22.5	-
12/Sep/24	Landowner 29	10.1	648	7.32	31.6	-30.8

Date (dd-mmm-yy)	Landowner	Field Temperature °C	Electrical Conductivity µS/cm	pH pH Units	Field Dissolved Oxygen (Percent) %	Oxidizing-Reducing Potential (Field) %
14/Jun/21	Enhance Facility Well	16.91	982	8.11	16.9	-
5/Oct/21	Enhance Facility Well	12.64	378	8.30	250.3	-
14/Jun/22	Enhance Facility Well	9	642	8.18	38.5	-
19/Sep/22	Enhance Facility Well	14.75	761	8.17	71.39	-
21/Jun/23	Enhance Facility Well	10.13	950	8	33.7	-
13/Sep/23	Enhance Facility Well	15.7	933	8.17	27.2	-
13/Sep/23	Enhance Facility Well	15.7	933	8.17	27.2	-
18/Jun/24	Enhance Facility Well	7.5	952	8.21	32.1	-
12/Sep/24	Enhance Facility Well	14	950	8.11	19.7	61.4
12/Sep/24	Enhance Facility Well	14	950	8.11	19.7	61.4
6/Oct/21	Landowner 14	8.52	514	7.43	20	-
18/Jun/22	Landowner 14	7.81	490	7.5	87.8	-
21/Sep/22	Landowner 14	10.65	567	7.72	96.73	-
27/Jun/23	Landowner 14	8.45	744	6.44	24.8	-
14/Sep/23	Landowner 14	9.4	759	7.38	18.4	-
17/Jun/24	Landowner 14	8.5	8	7.38	24.6	-
10/Sep/24	Landowner 14	10.5	797	7.45	39.8	-27.7
8/Oct/21	Landowner 26	7.07	767	7.41	29.7	-
23/Jun/22	Landowner 26	8.99	453	7.71	70.4	-
21/Sep/22	Landowner 26	9.37	864	7.47	32.64	-
16/Oct/21	Landowner 7	6.8	456	7.63	24.3	-
16/Jun/22	Landowner 7	9.5	258	7.65	47.6	-
20/Sep/22	Landowner 7	12.74	544	7.55	105.92	-
15/Sep/23	Landowner 7	7.3	718	7.35	17.2	-
12/Sep/24	Landowner 7	8.9	728	7.31	19.1	-24.2

Date (dd-mmm-yy)	Landowner	Field Temperature °C	Electrical Conductivity µS/cm	pH pH Units	Field Dissolved Oxygen (Percent) %	Oxidizing-Reducing Potential (Field) %
6/Oct/21	Landowner 11	9.59	577	7.50	33.6	-
15/Jun/22	Landowner 11	12.33	502	7.22	127	-
20/Sep/22	Landowner 11	11.3	607	7.82	98.69	-
12/Jun/24	Landowner 11	9.6	813	7.39	33.3	-
17/Sep/24	Landowner 11	12.2	813	7.45	29.9	124.8
6/Oct/21	Landowner 16	8.34	624	8.13	33.5	-
16/Jun/22	Landowner 16	10.82	651	8.57	172.6	-
20/Sep/22	Landowner 16	11.37	679.66	8.22	35.2	-
23/Jun/23	Landowner 16	10.4	924	7.51	35.2	-
14/Sep/23	Landowner 16	8.4	897	8.05	20.1	-
11/Jun/24	Landowner 16	9.7	924	8.01	25.1	-
11/Sep/24	Landowner 16	10.4	921	8.04	22.2	9.3
11/Sep/24	Landowner 16	10.4	921	8.04	22.2	9.3
16/Jun/21	Landowner 9	8.91	264	7.11	45.6	-
6/Oct/21	Landowner 9	6.6	504	7.48	84.2	-
15/Jun/22	Landowner 9	11.5	564	7.76	96.6	-
19/Sep/22	Landowner 9	11.7	546.35	7.92	48.99	-
21/Jun/23	Landowner 9	10.59	785	7.34	28	-
21/Jun/23	Landowner 9	10.59	785	7.34	28	-
14/Sep/23	Landowner 9	8.7	766	7.65	12.5	-
12/Jun/24	Landowner 9	8.9	770	7.60	28.3	-
10/Sep/24	Landowner 9	8.4	776	7.72	35.1	160.9
6/Oct/21	Landowner 3	7.24	674	8.09	174.2	-
17/Jun/22	Landowner 3	9.47	828	7.5	53	-
21/Sep/22	Landowner 3	12.29	878.29	7.61	62.22	-
19/Sep/23	Landowner 3	9.1	1166	7.43	9.6	-
11/Sep/24	Landowner 3	9.9	1191	7.48	27	-61.7
6/Oct/21	Landowner 3	11.4	756	7.99	44.3	-

Date (dd-mmm-yy)	Landowner	Field Temperature °C	Electrical Conductivity µS/cm	pH pH Units	Field Dissolved Oxygen (Percent) %	Oxidizing-Reducing Potential (Field) %
14/Oct/21	Landowner 15	6.38	328	8.00	93.9	-
23/Jun/22	Landowner 15	10.16	699	7.94	101.3	-
21/Sep/22	Landowner 15	13.48	767	8.08	63.36	-
27/Jun/23	Landowner 15	11.8	993	7.04	28.9	-
13/Sep/23	Landowner 15	9.9	967	7.61	27.7	-
17/Jun/24	Landowner 15	7.8	983	7.65	40.3	-
10/Sep/24	Landowner 15	11.2	992	7.70	53.2	144.3
8/Oct/21	Landowner 28	8.43	429	7.67	99.2	-
15/Jun/22	Landowner 28	13.27	474	8.18	44.8	-
19/Sep/22	Landowner 28	12.08	459	7.62	119.3	-
8/Oct/21	Landowner 8	9.37	527	8.85	20	-
15/Jun/22	Landowner 8	9	1015	8.53	-	-
15/Jun/22	Landowner 8	9	1015	8.53	-	-
21/Sep/22	Landowner 8	12.62	1153	8.71	32.19	-
23/Jun/23	Landowner 8	10.3	1495	8.16	58	-
15/Sep/23	Landowner 8	10	1485	8.60	17.6	-
11/Jun/24	Landowner 8	9.3	1507	8.60	20.8	-
11/Sep/24	Landowner 8	12.5	1513	8.60	28.8	-8.7
7/Oct/21	Landowner 30	5.32	404	7.56	4.11	-
18/Jun/22	Landowner 30	12.56	533	7.22	56	-
19/Sep/22	Landowner 30	10.01	458	7.50	85.23	-
29/Jun/23	Landowner 30	7.7	663	5.84	22.1	-
19/Sep/23	Landowner 30	6.9	648	7.28	6.1	-
17/Jun/24	Landowner 30	6	530	8.23	14.5	-
12/Sep/24	Landowner 30	7.5	663	7.32	11.3	-83.5

Date (dd-mmm-yy)	Landowner	Field Temperature °C	Electrical Conductivity µS/cm	pH pH Units	Field Dissolved Oxygen (Percent) %	Oxidizing-Reducing Potential (Field) %
14/Oct/21	Landowner 21	7.42	747	8.84	10.1	-
16/Jun/22	Landowner 21	14.76	800	8.88	130.1	-
20/Sep/22	Landowner 21	10.86	798	8.79	37.25	-
14/Sep/23	Landowner 21	10.1	1128	8.56	18.8	-
17/Jun/24	Landowner 21	10.8	1163	8.46	31.9	-
17/Jun/24	Landowner 21	10.8	1163	8.46	31.9	-
17/Oct/21	Landowner 13	7.15	682	7.77	33.3	-
16/Jun/22	Landowner 13	13.07	480	7.74	94.2	-
21/Sep/22	Landowner 13	11.53	787	7.88	44.48	-

Date (dd-mmm-yy)	Landowner	Field Temperature °C	Electrical Conductivity µS/cm	pH pH Units	Field Dissolved Oxygen (Percent) %	Oxidizing-Reducing Potential (Field) %
5/Oct/21	Enhance Monitoring Well	6.8	732	8.83	110.5	-
26/Jun/22	Enhance Monitoring Well	10.43	835	8.81	160	-
20/Jun/23	Enhance Monitoring Well	7.5	353	7.20	42.00	-
12/Sep/23	Enhance Monitoring Well	14.7	1593	7.31	25.4	-
18/Jun/24	Enhance Monitoring Well	8.5	1082	8.54	29.5	-
18/Sep/24	Enhance Monitoring Well	14.7	1120	8.75	12.4	-186.6
5/Oct/21	Enhance Monitoring Well	7.68	446	7.82	138.1	-
26/Jun/22	Enhance Monitoring Well	13.12	503	8.31	25	-
20/Jun/23	Enhance Monitoring Well	7.4	665	6.85	67.00	-
12/Sep/23	Enhance Monitoring Well	13.3	1452	7.24	21.4	-
18/Jun/24	Enhance Monitoring Well	7.1	673	7.44	90	-
9/Sep/24	Enhance Monitoring Well	10.1	483	7.33	55.6	237.3
5/Oct/21	Enhance Monitoring Well	7.68	455	7.44	24.9	-
26/Jun/22	Enhance Monitoring Well	10.85	502	8.13	27.2	-
20/Jun/23	Enhance Monitoring Well	8.6	1135.00	7.85	45.00	-
21/Sep/23	Enhance Monitoring Well	8.4	1109	8.64	13.9	-
18/Jun/24	Enhance Monitoring Well	7.4	663	7.25	16.1	-
18/Sep/24	Enhance Monitoring Well	11.7	658	7.26	16.8	33.33

Date (dd-mmm-yy)	Landowner	Field Temperature °C	Electrical Conductivity µS/cm	pH pH Units	Field Dissolved Oxygen (Percent) %	Oxidizing-Reducing Potential (Field) %
6/Oct/21	Landowner 23	11.7	919	8.65	16	-
16/Jun/22	Landowner 23	12.02	913	8.63	20.67	-
20/Sep/22	Landowner 23	11.01	938.57	8.75	37.41	-
22/Jun/23	Landowner 23	11.27	1205	8.44	35.6	-
13/Sep/23	Landowner 23	9.8	1206	8.58	18.8	-
6/Oct/21	Landowner 20	10.11	750	8.78	25.3	-
8/Oct/21	Landowner 10	10.76	732	8.40	114.2	-
16/Jun/22	Landowner 20	19.3	-	8.84	11.27	-
18/Jun/22	Landowner 10	10.57	681	7.78	52.4	-
20/Sep/22	Landowner 10	10.77	725	8.32	29.68	-
20/Sep/22	Landowner 10	10.77	725	8.32	29.68	-
23/Sep/22	Landowner 20	12.94	828.22	8.94	119.58	-
12/Jun/24	Landowner 10	9	909	8.12	18.7	-
17/Jun/24	Landowner 20	9.2	1043	8.67	27.8	-
11/Sep/24	Landowner 20	11.3	1059	8.73	26.4	80.4
14/Oct/21	Landowner 5	7.62	1057	7.70	15.1	-
17/Jun/22	Landowner 5	10.81	7610	7.6	33.2	-
22/Sep/22	Landowner 5	16.09	774	8.12	114.34	-
23/Jun/23	Landowner 5	10.2	1043	6.66	63.5	-
18/Sep/24	Landowner 5	13.1	1069	7.42	24.2	73.1
18/Sep/24	Landowner 5	13.1	1069	7.42	24.2	73.1
8/Oct/21	Landowner 17	6.63	430	7.56	35.5	-
18/Jun/22	Landowner 17	9.31	474	8.1	10.82	-
21/Sep/22	Landowner 17	10.62	494	7.72	99.06	-
19/Sep/23	Landowner 17	8.9	714	7.22	10.8	-
12/Sep/24	Landowner 17	8.6	745	7.33	25.9	-8.5
7/Oct/21	Landowner 32	6.95	648	7.57	88.5	-
18/Jun/22	Landowner 32	9.92	607	7.65	93	-

Date (dd-mmm-yy)	Landowner	Field Temperature °C	Electrical Conductivity µS/cm	pH pH Units	Field Dissolved Oxygen (Percent) %	Oxidizing-Reducing Potential (Field) %
14/Oct/21	Landowner	9.77	336	7.76	156.3	-
17/Jun/22	Landowner	16.52	522	7.46	59.9	-
20/Sep/22	Landowner	13.77	637	6.69	112.6	-
16/Oct/21	Landowner 18	7.58	342	7.80	21.2	-
15/Jun/22	Landowner 18	9.97	363	7.91	45	-
19/Sep/22	Landowner 18	11.84	387	7.78	116.49	-
16/Jun/24	Landowner 18	6.4	528	7.48	21.2	-
17/Jun/21	Landowner 6	7.68	748	6.49	73.6	-
4/Oct/21	Landowner 6	7.72	529	7.33	56.2	-
14/Jun/22	Landowner 6	7.67	502	7.32	44.5	-
19/Sep/22	Landowner 6	10.44	600.83	7.6	117.12	-
15/Sep/23	Landowner 6	7.5	782	7.14	26.3	-
12/Jun/24	Landowner 6	7.8	824	7.19	43.3	-
10/Sep/24	Landowner 6	12	814	7.17	44.2	153.7
7/Oct/21	Landowner 22	11.6	935	8.93	N/A	-
15/Jun/22	Landowner 22	12.85	773	7.63	93.9	-
20/Sep/22	Landowner 22	10.64	769	9.06	90.56	-
22/Jun/23	Landowner 22	11.4	1089	8.71	26.9	-
13/Sep/23	Landowner 22	10.8	1047	8.92	22.7	-
12/Jun/24	Landowner 22	10.2	1057	8.89	30.5	-
12/Sep/24	Landowner 22	9.1	1049	893.00	34.7	66.9
10/Sep/24		15.8	1238	7.12	70.9	169.1

Table 1B : Groundwater Analytical Results: General, Major Ions, and Nutrients

Client **Enhance Energy**

Date: Jan. 24, 2025

Date (dd-mmm-yy)	Lanowner None	Bicarbonate mg/L	Bromide mg/L	Electrical Conductivity uS/cm	Calculated TDS mg/L	Carbonate mg/L	Chloride mg/L	Hydroxide mg/L	Dissolved Calcium mg/L	Dissolved Iron mg/L	Dissolved Lithium mg/L	Dissolved Magnesium mg/L	Dissolved Manganese mg/L	Dissolved Phosphorus mg/L	Dissolved Potassium mg/L	Dissolved Silicon mg/L	Dissolved Sodium mg/L	Dissolved Strontium mg/L	Dissolved Tin mg/L	Fluoride mg/L	Hardness mg/L	% Ion Balance	Nitrate mg/L	Nitrate-N mg/L	Nitrite mg/L	Nitrite-N mg/L	Nitrate + Nitrite (as N) mg/L	p - Alkalinity (as CaCO3) mg/L	pH pH Units	Sodium Adsorption Ratio None	Sulfate mg/L	T - Alkalinity (as CaCO3) mg/L	Total Iron mg/L	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
8/Aug/19	Landowner 2	426	< 0.1	796	449	< 5	6	< 5	-	< 0.1	0.051	34.2	< 0.005	< 0.08	-	4.63	31.4	0.719	0.0043	0.14	364	101	21.8	4.92	< 0.05	< 0.01	4.92	< 5	7.79	0.72	54	350	0.2	< 1	-	< 0.001	2200.00
9/Oct/19	Landowner 2	438	< 0.1	761	449	< 5	7	< 5	-	< 0.1	0.045	32.5	< 0.005	< 0.08	-	5.08	31.7	0.679	0.0014	0.18	343	94	21.8	4.92	< 0.05	< 0.01	4.92	< 5	7.68	0.74	54	359	< 0.1	-	-	< 0.001	-
7/Oct/21	Landowner 2	424	< 0.1	749	465	< 5	5.8	< 5	-	< 0.1	0.043	36.3	< 0.005	< 0.08	-	5.86	36.5	0.688	< 0.0005	0.16	407	115	18.9	4.27	< 0.05	< 0.01	4.27	< 5	8.05	0.79	52.4	347	< 0.1	< 1	2500	< 0.001	9000.00
7/Oct/21	Landowner 2	418	< 0.1	746	449	< 5	5.7	< 5	-	< 0.1	0.045	33.3	< 0.005	< 0.08	-	5.81	33.9	0.745	< 0.0005	0.14	378	108	19.0	4.29	< 0.05	< 0.01	4.29	< 5	8.24	0.76	52.4	343	< 0.1	< 1	500	< 0.001	< 1
15/Jun/22	Landowner 2	420	< 0.1	705	430	< 5	5.5	< 5	84.2	< 0.1	0.044	31.8	< 0.005	0.19	2.5	5.23	31.0	0.790	< 0.0005	0.18	341	99	18.2	4.11	< 0.05	< 0.01	4.11	< 5	7.89	0.77	48.7	337	< 0.1	-	-	< 0.001	-
20/Sep/22	Landowner 2	432	< 0.1	702	444	< 5	5.6	< 5	84.8	< 0.1	0.051	34.4	< 0.005	0.13	2.9	5.99	33.0	0.785	< 0.0010	0.14	353	99	18.1	4.09	< 0.05	< 0.01	4.09	< 5	7.96	0.76	52.8	347	< 0.1	< 1	500	< 0.001	500.00
21/Jun/23	Landowner 2	434	< 0.1	752	442	< 5	6.4	< 5	82.0	0.003	0.043	29.9	0.00010	< 0.05	2.78	4.77	29.9	0.722	< 0.0001	0.11	328	90	20.7	4.68	< 0.05	< 0.01	4.68	< 5	7.93	0.72	56.9	356	< 0.01	75	< 20	< 0.0005	2200
13/Sep/23	Landowner 2	412	< 0.1	757	425	< 5	4.9	< 5	82.9	0.003	0.056	30.5	0.00015	< 0.05	2.71	4.85	30.4	0.661	< 0.0001	0.14	333	97	15.6	3.52	< 0.05	< 0.01	3.52	< 5	7.75	0.73	55.3	337	< 0.01	< 1	500	< 0.0005	7
12/Jun/24	Landowner 2	440	< 0.1	808	457	< 5	8.0	< 5	92.6	0.004	0.055	34.3	0.00011	< 0.05	2.93	5.77	31.9	0.759	< 0.0001	0.09	372	101	13.8	3.12	< 0.05	< 0.01	3.12	< 5	7.74	0.72	56.6	353	0.02	< 1	13000	< 0.0005	9000
12/Jun/24	Landowner 2	444	< 0.1	807	456	< 5	8.9	< 5	89.2	0.011	0.055	34.0	0.00016	< 0.05	2.91	5.77	32.0	0.768	< 0.0001	0.10	363	97	13.9	3.14	< 0.05	< 0.01	3.14	< 5	7.80	0.73	56.8	354	0.01	< 1	13000	< 0.0005	9000
11/Sep/24	Landowner 2	458	< 0.1	787	470	< 5	4.3	< 5	93.8	0.003	0.064	36.3	0.00022	< 0.05	3.04	6.61	32.9	0.791	< 0.0001	0.12	384	101	14.1	3.19	< 0.05	< 0.01	3.19	< 5	7.72	0.73	60.7	375	0.02	< 1	2500	< 0.0005	9000
8/Aug/19	Landowner	380	< 0.1	690	361	< 5	10	< 5	-	1.1	0.036	28.7	0.426	< 0.08	-	4.55	47.6	0.53	0.0016	0.2	270	108	0.2	0.05	< 0.05	< 0.01	0.05	< 5	7.99	1.26	25	310	79.7	20	-	< 0.001	< 1
8/Oct/19	Landowner	409	< 0.1	669	370	< 5	9	< 5	-	1.1	0.038	26.3	0.443	< 0.08	-	4.66	46.5	0.563	0.0019	0.17	251	95	0.1	0.02	< 0.05	< 0.01	0.02	< 5	7.85	1.28	28	335	60.9	-	-	< 0.001	-
7/Aug/19	Landowner 1	360	< 0.1	700	368	< 5	7	< 5	-	< 0.1	0.045	29.1	0.014	< 0.08	-	4.55	38.6	0.721	< 0.0005	0.14	294	109	7.2	1.63	< 0.05	< 0.01	1.63	< 5	7.91	0.98	36	300	< 0.1	< 1	-	< 0.001	9000
7/Aug/19	Landowner 1	370	< 0.1	700	372	< 5	7	< 5	-	< 0.1	0.045	29.1	0.014	< 0.08	-	4.56	38.3	0.719	< 0.0005	0.14	293	106	7.2	1.63	< 0.05	< 0.01	1.63	< 5	7.93	0.97	36	300	< 0.1	< 1	-	< 0.001	9000
9/Oct/19	Landowner 1	413	< 0.1	686	393	< 5	8	< 5	-	< 0.1	0.042	26.6	0.015	< 0.08	-	4.55	37.6	0.744	0.0017	0.15	272	89	7.7	1.74	< 0.05	< 0.01	1.74	< 5	8	0.99	42	338	< 0.1	-	-	< 0.001	-
7/Oct/21	Landowner 1	379	< 0.1	714	374	< 5	7.8	< 5	-	< 0.1	0.041	29.3	0.011	-	-	5.60	37.5	0.775	< 0.0005	0.16	293	104	4.3	0.97	< 0.05	< 0.01	0.97	< 5	7.95	0.95	36.4	311	< 0.1	< 1	13000	< 0.001	2200
17/Jun/22	Landowner 1	302	< 0.1	601	333	8	8.9	< 5	65.3	< 0.1	0.045	25.6	0.008	0.16	2.9	4.68	34.7	0.696	< 0.005	0.17	268	111	4.3	0.97	< 0.05	< 0.01	0.97	6	8.40	0.92	34.4	260	< 0.1	75	-	< 0.001	2200
19/Sep/22	Landowner 1	408	< 0.1	623	386	< 5	8.2	< 5	65.3	< 0.1	0.039	29.2	< 0.005	0.11	3.0	5.45	39.4	0.700	< 0.0005	0.17	283	96	4.0	0.90	< 0.05	< 0.01	0.90	< 5	8.03	1.02	36.7	328	< 0.1	5	67000	< 0.001	2200
22/Jun/23	Landowner 1	401	< 0.1	677	374	< 5	7.7	< 5	66.1	0.002	0.043	25.4	0.00944	< 0.05	2.88	4.66	36.7	0.712	< 0.0001	0.13	270	93	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.97	0.97	37.7	329	< 0.01	325	2500	< 0.0005	9000
13/Sep/23	Landowner 1	397	< 0.1	681	371	< 5	7.8	< 5	64.3	0.013	0.049	25.1	0.00889	< 0.05	2.91	4.36	34.6	0.645	< 0.0001	0.15	264	91	3.0	0.68	< 0.05	< 0.01	0.68	< 5	7.33	0.93	37.6	317	< 0.01	< 1	2500	< 0.0005	2200
11/Jun/24	Landowner 1	399	< 0.1	693	398	< 5	8.9	< 5	79.0	0.015	0.057	29.3	0.00521	< 0.05	3.09	5.19	39.2	0.783	< 0.0001	0.10	318	106	2.5	0.56	< 0.05	< 0.01	0.56	< 5	8.02	0.96	39.9	320	0.02	1400	2500	< 0.0005	2200
18/Sep/24	Landowner 1	411	< 0.1	688	403	< 5	11.1	< 5	73.1	0.003	0.043	28.8	0.00648	< 0.05	3.08	5.33	37.8	0.751	< 0.0001	0.14	301	96	2.4	0.54	< 0.05	< 0.01	0.54	< 5	7.99	0.95	45.0	337	< 0.01	115000	67000	< 0.0005	2200
7/Aug/19	Landowner 25	340	< 0.1	680	371	< 5	11	< 5	-	< 0.1	0.049	29	< 0.005	< 0.08	-	4.44	33.5	0.797	0.0011	0.06	301	109	19.7	4.45	< 0.05	< 0.01	4.45	< 5	7.93	0.84	35	280	< 0.1	< 1	-	< 0.001	25
9/Oct/19	Landowner 25	372	< 0.1	671	379	< 5	7	< 5	-	< 0.1	0.044	27.3	< 0.005	< 0.08	-	4.61	32.2	0.799	0.002	0.17	278	94	20	4.52	< 0.05	< 0.01	4.52	< 5	8	0.84	40	305	< 0.1	-	-	< 0.001	-
6/Oct/21	Landowner 25	405	< 0.1	722	398	< 5	< 1.0	< 5	-	0.7	0.054	28.5	0.128	< 0.08	-	6.09	58.3	1.17	< 0.0005	0.09	293	114	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.00	1.48	39.6	332	0.7	< 1	< 20	< 0.001	2200
7/Aug/19	Landowner 33	380	0.3	850	443	< 5	48	< 5	-	< 0.1	0.041	44.1	< 0.005	< 0.08	-	4.6	40.1	0.483	0.0015	0.04	368	108	18.4	4.16	< 0.05	< 0.01	4.16	< 5	8.1	0.91	29	310	< 0.1	< 1	-	< 0.001	150
8/Oct/19	Landowner 33	419	0.3	814	445	< 5	41	< 5	-	< 0.1	0.044	39.8	< 0.005	< 0.08	-	4.44	38.3	0.497	0.0015	0.01	338	95	18.2	4.11	< 0.05	< 0.01	4.11	< 5	7.76	0.91	30	344	< 0.1	-	-	< 0.001	-
8/Oct/19	Landowner 33	436	0.2	812	458	< 5	41	< 5	-	< 0.1	0.044	41.7	< 0.005	< 0.08	-	4.44	39.7	0.491	0.0021	0.06	345	94	18.1	4.09	< 0.05	< 0.01	4.09	< 5	7.84	0.93	32	358	< 0.1	-	-	< 0.001	-
16/Jun/21	Landowner 33	352	0.2	740	417	14	31	< 5	-	< 0.1	-	40	< 0.005	< 0.08	-	-	40	-	-	0.05	344	109	17	3.84	< 0.05	< 0.01	3.84	11	8.51	0.94	28.3	305	< 0.1	-	2500	-	-
7/Oct/21	Landowner 33	428	0.2	790	460	< 5	30.8	< 5	-	< 0.1	0.037	45.1	< 0.005	< 0.08	-	5.63	42.1	0.484	< 0.0005	0.16	390	110	18.1	4.09	< 0.05	< 0.01	4.09	< 5	8.19	0.93	28.9	344	< 0.1	< 1	13000	< 0.001	2200
15/Jun/22	Landowner 33	360	0.2	744	390	6	25.9	< 5	64.4	< 0.1	0.039	36.5	< 0.005	0.16	1.9	4.68	35.6	0.480	< 0.0005	0.14	311	102	16.8	3.80	< 0.05	< 0.01	3.80	5	8.34	0.88	25.7	306	< 0.1	< 1	< 1	< 0.001	2200
21/Sep/22	Landowner 33	387	0.2	723	409	< 5	26.1	< 5	67.9	< 0.1	0.044	39.1	< 0.005	< 0.08	1.9	5.04	38.6	0.507	< 0.0005	0.09	331	105	17.7	4.00	< 0.05	< 0.01	4.00	< 5	8.18	0.92	27.5	312	< 0.1	-	67000	< 0.001	-
21/Jun/23	Landowner 33	415	0.2	768	425	< 5	27.6	< 5	64.3	0.001	0.036	35.8	0.00014	< 0.05	2.08	4.35	37.4	0.464	< 0.0001	0.08	308	91	21.1	4.77	< 0.05	< 0.01	4.77	< 5	7.70	0.93	32.6	334	< 0.01	5	2500	< 0.0005	500
19/Sep/23	Landowner 33	438	0.1	756	435	< 5	23.2	< 5	67.7	0.005 0.006	0.041	39.7	0.00006	< 0.05	2.15	4.81	41.7	0.466	< 0.0001	0.08	333	98	16.8	3.80	< 0.05	< 0.01	3.80	< 5	7.49	1.00	28.4	350	< 0.01 < 0.1	< 1	67000	< 0.0005	2200
19/Sep/23	Landowner 33	437	0.1	756	435	< 5	23.1	< 5	68.6	0.001	0.044	39.6	< 0.00005	< 0.05	2.20	4.84	41.4	0.480	< 0.0001	0.08	334	98	16.7	3.77	< 0.05	< 0.01	3.77	< 5	7.51	0.99	28.5	349	< 0.1	< 1	67000	< 0.0005	2200
11/Jun/24	Landowner 33	433	< 0.1	780	441	< 5	22.7	< 5	76.1	0.005	0.049	39.7	0.00010	< 0.05	2.16	5.01	41.1	0.430	< 0.0001	0.04	354	103	16.0	3.61	< 0.05	< 0.01	3.61	< 5	7.98	0.95	30.6	347	< 0.01	< 1	13000	< 0.0005	500
10/Sep/24	Landowner 33	421	< 0.1	761	435	< 5	23.3	< 5	70.4	< 0.001	0.045	41.9	0.00020	< 0.05	2.23	5.77	42.3	0.461	0.0003	< 0.01	348	104	17.0	3.84	< 0.05	< 0.01	3.84	< 5	7.72	0.99	31.2	339	< 0.01	< 1	500	< 0.0005	500
15/Jun/22	Landowner 33	359	< 0.1	735	391	5	26.0	< 5	66.4	< 0.1	0.039	36.7	< 0.005	0.14	1.9	4.70	36.0	0.473	< 0.0005	0.11	317	105	16.8	3.80	< 0.05	< 0.01	3.80	< 5	8.33	0.88	25.7	303	< 0.1	< 1	< 1	< 0.001	2200
9/Aug/19	Landowner	570	< 0.1	1000	581	< 5	< 1	< 5	-	0.3	0.085	10.3	0.095	< 0.08	-	3.88	184	0.661	0.0023	0.08	119	96	< 0.1	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.25	7.34	74	467	0.3	20	-	< 0.001	2200
9/Aug/19	Landowner	< 5	< 0.1	< 5	< 0.6	< 5	< 1	< 5	-	< 0.1	< 0.001	< 0.2	< 0.005	< 0.08	-	< 0.032	< 0.6	< 0.001	< 0.0005	< 0.01	< 1	-	< 0.1	< 0.02	< 0.05	< 0.01	< 0.02	< 5	5.93	0	< 1	< 5	< 0.1	< 1	-	< 0.001	< 1
9/Aug/19	Landowner	< 5	< 0.2	< 5	< 0.6	< 5	< 1	< 5	-	< 0.1	< 0.001	< 0.2	< 0.005	< 0.08	-	< 0.032	< 0.6	< 0.001	< 0.0005	< 0.06	< 1	-	< 0.5	< 0.02	< 0.20	< 0.01	< 0.02	< 5	6.23	0	< 1	< 5	< 0.1	< 1	-	< 0.001	< 1
8/Oct/19	Landowner	616	< 0.1	1060	624	< 5	< 1	< 5	-	2.4	0.087	5.9	0.182	< 0.08	-	3.93	213	0.472	0.0029	0.25	76	93	0.4	0.09	< 0.05	< 0.01	0.09	< 5	8.06	10.6	79	505	2.8	-	-	< 0.001	-
8/Aug/19	Landowner 4	500	< 0.1	950	529	< 5	3	< 5	-	1.4	0.059	46.2	0.15	< 0.08	-	4.96	58.3	0.884	0.0024	0.05	407	107	1.9	0.43	< 0.05	< 0.01	0.43	< 5	7.86	1.26	85	410	3.6	5	-	< 0.001	2200
8/Oct/19	Landowner 4	545	< 0.1	917	534	< 5	1	< 5	-	2.1	0.062	44.2	0.174	< 0.08	-	5.27	55.7	0.924	0.002	< 0.01	384	96	< 0.1	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.74	1.24	82	447	2.4	-	-	< 0.001	-
8/Oct/21	Landowner 4	541	< 0.1	950	555	< 5	1.6	< 5	-	< 0.1	0.051	49.9	0.214	-	-	6.27	60.6	0.912	< 0.0005	0.08	442	109	0.7	0.16	< 0.05	< 0.01	0.16	< 5	7.97	1.25	79.5	443	1.5	325	440000	< 0.001	2200
18/Jun/22	Landowner 4	553	< 0.1	818	525	< 5	2.3	< 5	79.5	< 0.1	0.052	41.7	0.172	0.13	2.1	5.58	51.6	0.945	< 0.0005	0.08	370	91	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.05	1.17	75.4	447	1.3	< 1	0	< 0.001	2200
19/Sep/22	Landowner 4	553	< 0.1	843	537	< 5	1.8	< 5	80.8	1.1	0.049	47.4	0.182	0.10	2.1	6.56	57.7	0.922	< 0.0010	0.09	397	99	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.96	1.26	75.3	446	1.4	< 1	67000	< 0.001	9000
21/Jun/23	Landowner 4	536	< 0.1	893	515	< 5	2.1	< 5	78.5	1.08	0.049	40.6	0.179	< 0.05	2.21	5.28	50.0	0.887	< 0.0001	0.03	363	91	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.93	1.14	78.1	439	1.67	20	2500	< 0.0005	8
13/Sep/23	Landowner 4	509	< 0.1	895	494	< 5	1.9	< 5	73.8	0.987	0.064	39.0	0.172	< 0.05	2.16	4.90	49.4	0.770	0.0001	0.10	345	91	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.64	1.16	77.6	417	1.36	< 1	500	< 0.0005	< 1
12/Sep/24	Landowner 4	563	< 0.1	907	544	< 5	2.6	< 5	87.8	1.33	0.062	46.2	0.176	< 0.05	2.20	6.64	55.5	0.951	< 0.0001	0.07	409	99	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.75	1.19	73.1	461	1.80	< 1	13000	< 0.0005	9000

Date (dd-mmm-yy)	Lanowner None	Bicarbonate mg/L	Bromide mg/L	Electrical Conductivity uS/cm	Calculated TDS mg/L	Carbonate mg/L	Chloride mg/L	Hydroxide mg/L	Dissolved Calcium mg/L	Dissolved Iron mg/L	Dissolved Lithium mg/L	Dissolved Magnesium mg/L	Dissolved Manganese mg/L	Dissolved Phosphorus mg/L	Dissolved Potassium mg/L	Dissolved Silicon mg/L	Dissolved Sodium mg/L	Dissolved Strontium mg/L	Dissolved Tin mg/L	Fluoride mg/L	Hardness mg/L	% Ion Balance	Nitrate mg/L	Nitrate-N mg/L	Nitrite mg/L	Nitrite-N mg/L	Nitrate + Nitrite (as N) mg/L	p - Alkalinity (as CaCO3) mg/L	pH pH Units	Sodium Adsorption Ratio None	Sulfate mg/L	T - Alkalinity (as CaCO3) mg/L	Total Iron mg/L	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
8/Aug/19	Landowner 31	397	< 0.1	886	523	46	2	< 5	-	0.1	0.051	35.1	0.036	< 0.08	-	2.1	148	0.108	0.003	0.07	166	99	0.4	0.09	< 0.05	< 0.01	0.09	38	8.95	5.01	85	402	0.3	20	-	< 0.001	500
8/Oct/21	Landowner 31	478	< 0.1	969	581	< 5	< 1.0	< 5	-	< 0.1	0.045	40.1	0.615	-	-	4.71	136.0	0.459	< 0.0005	0.12	284	113	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.91	3.51	119	392	6.3	< 1	440000	< 0.001	500
17/Jun/22	Landowner 31	443	< 0.1	927	530	7	1.6	< 5	45.9	< 0.1	0.041	35.5	0.595	0.16	2.5	4.55	106	0.519	< 0.005	0.15	261	100	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	6	8.35	2.86	114	375	6.4	5	100	< 0.001	< 1
19/Sep/22	Landowner 31	548	< 0.1	912	605	< 5	< 1.0	< 5	40.3	4.2	0.040	38.7	0.502	0.11	2.6	5.23	139	0.500	< 0.0005	0.13	260	101	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.25	3.75	115	442	6.6	< 1	2500	< 0.001	< 1
19/Sep/22	Landowner 31	542	< 0.1	906	594	< 5	< 1.0	< 5	40.0	5.4	0.038	38.2	0.498	0.11	2.6	5.25	136	0.500	< 0.0005	0.16	257	101	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.33	3.69	111	443	6.5	< 1	2500	< 0.001	500
27/Jun/23	Landowner 31	518	< 0.1	1000	579	< 5	< 1.0	< 5	46.6	5.26	0.038	35.4	0.521	< 0.05	2.44	4.91	120	0.579	< 0.0001	0.09	262	98	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.68	3.23	120	413	5.67	1400	2500	< 0.0005	2200
14/Sep/23	Landowner 31	498	< 0.1	960	569	< 5	< 1.0	< 5	52.6	4.93	0.029	35.9	0.682	< 0.05	2.46	4.61	115	0.620	0.0001	0.12	279	102	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.71	3.00	118	408	5.39	< 1	13000	< 0.0005	< 1
8/Aug/19	Landowner 24	550	< 0.1	981	575	< 5	1	< 5	-	1.6	0.05	18.7	0.241	< 0.08	-	4.41	143	0.621	0.0022	0.19	216	99	1.6	0.36	< 0.05	< 0.01	0.36	< 5	8.05	4.23	82	451	3.4	5	-	< 0.001	150
7/Oct/21	Landowner 24	549	< 0.1	1000	601	< 5	< 1.0	< 5	-	3.3	0.051	20.7	0.324	< 0.08	-	5.93	154	0.684	< 0.0005	0.16	256	111	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.31	4.19	85.2	456	3.3	5	2500	< 0.001	< 1
17/Jun/22	Landowner 24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	100	-	2200
17/Jun/22	Landowner 24	151	< 0.1	466	236	59	< 1.0	< 5	1.4	< 0.1	0.011	1.8	< 0.005	0.09	2.5	1.43	96.6	0.054	< 0.0005	< 0.01	10.9	101	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	49	9.47	12.7	< 1.0	222	0.3	-	-	< 0.001	-
11/Jul/19	UL1 - Development	541	< 0.1	1160	653	23	5	< 5	-	< 0.1	0.022	2.3	0.011	< 0.08	-	3.14	233	0.058	< 0.0005	1.19	24	87	3.4	0.77	< 0.05	< 0.01	0.77	19	8.68	20.5	113	482	7.9	< 1	-	< 0.001	9000
15/Jul/19	UL1 - Development	424	< 0.1	698	402	< 5	3	< 5	-	< 0.1	0.038	31.4	0.485	< 0.08	-	4.43	47.3	0.651	< 0.0005	0.11	298	102	1.5	0.34	< 0.05	< 0.01	0.34	< 5	8.31	1.19	40	351	2.7	5	-	< 0.001	9000
15/Jul/19	UL1 - Development	420	< 0.1	678	393	< 5	3	< 5	-	0.2	0.039	29	0.266	< 0.08	-	4.52	47.2	0.638	< 0.0005	0.16	280	99	0.2	0.05	< 0.05	< 0.01	0.05	< 5	8.27	1.23	40	344	0.3	5	-	< 0.001	9000
6/Aug/19	UL1 - Development	531	< 0.1	1170	661	18	4	< 5	-	< 0.1	0.045	1.7	0.005	< 0.08	-	3.83	255	0.082	< 0.0005	1.35	19	97	< 0.1	< 0.02	0.55	0.17	0.17	15	8.65	25.1	114	466	2.2	115000	-	0.004	35000
6/Aug/19	UL1 - Development	514	< 0.1	1170	653	19	4	< 5	-	< 0.1	0.044	1.7	< 0.005	< 0.08	-	3.44	256	0.086	< 0.0005	1.33	20	100	0.1	0.02	0.64	0.19	0.22	16	8.65	24.9	112	454	2	115000	-	0.003	35000
7/Oct/19	UL1 - Development	584	< 0.1	1150	696	22	4	< 5	-	< 0.1	0.035	1.6	0.006	< 0.08	-	3.51	255	0.08	< 0.0005	1.67	19	88	< 0.1	< 0.02	0.14	0.04	0.04	18	8.66	25.6	120	515	0.9	-	-	0.002	-
7/Oct/19	UL1 - Development	589	< 0.1	1150	686	21	4	< 5	-	< 0.1	0.036	1.6	0.006	0.1	-	3.54	248	0.081	< 0.0005	1.61	19	86	< 0.1	< 0.02	0.17	0.05	0.05	17	8.65	24.9	116	517	0.9	-	-	0.003	-
21/Jul/20	UL1 - Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115000	-	-	9000
21/Jul/20	UL1 - Development	567	< 0.1	1220	675	26	2.7	< 5	-	< 0.1	0.036	1.2	0.01	-	-	-	273	0.059	0.0005	1.32	14	100	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	21	8.69	31.5	88	508	0.4	-	-	-	-
28/Oct/20	UL1 - Development	551	< 0.1	1160	691	45	1.7	< 5	-	0.2	0.021	0.9	0.008	-	-	4.58	288	0.036	0.0006	1.43	13	104	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	38	8.75	34.2	79.3	527	0.3	27000	-	0.003	9000
28/Oct/20	UL1 - Development	569	< 0.1	1160	697	43	1.6	< 5	-	0.2	0.021	0.9	0.009	-	-	4.72	288	0.036	0.0006	1.44	13	102	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	36	8.74	35.2	79.5	539	0.3	27000	-	0.003	9000
15/Jun/21	UL1 - Development	384	< 0.1	678	390	< 5	13.8	< 5	-	< 0.1	0.057	30.3	0.528	< 0.08	-	5.23	51.9	0.684	0.0005	0.1	287	108	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.85	1.33	37.8	307	0.1	-	-	0.002	-
7/Aug/19	UL2 - Development	380	< 0.1	700	373	< 5	3	< 5	-	0.2	0.049	30.2	0.318	< 0.08	-	5.01	47.8	0.609	< 0.0005	0.16	286	111	< 0.1	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.92	1.23	38	310	0.6	1400	-	< 0.001	9000
7/Oct/19	UL2 - Development	441	< 0.1	675	399	< 5	3	< 5	-	0.4	0.039	27.7	0.283	< 0.08	-	5.41	45.6	0.623	< 0.0005	0.12	263	89	< 0.1	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.23	1.22	44	362	1.2	-	-	< 0.001	-
22/Jul/20	UL2 - Development	384	< 0.1	724	360	< 5	2.7	< 5	-	0.5	0.045	28.7	0.295	-	-	-	43.6	0.602	< 0.0005	0.12	262	101	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.03	1.17	36.2	315	0.6	27000	-	-	9000
22/Jul/20	UL2 - Development	< 5	< 0.1	< 5	< 0.6	< 5	< 1.0	< 5	-	< 0.1	< 0.001	< 0.2	< 0.005	-	-	-	< 0.6	< 0.001	< 0.0005	< 0.01	< 1	13	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	6.05	0	< 1.0	< 5	< 0.1	-	-	-	2200
27/Oct/20	UL2 - Development	414	< 0.1	678	389	< 5	2.7	< 5	-	0.4	0.032	30.8	0.289	-	-	5.84	48.4	0.439	< 0.0005	0.1	291	105	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.13	1.23	35.9	340	0.6	< 1	-	< 0.001	2200
15/Jun/21	UL2 - Development	556	< 0.1	1170	685	25	2.5	< 5	-	< 0.1	0.045	0.9	0.007	0.17	-	3.9	293	0.058	0.0013	1.25	12	110	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	21	8.78	36.5	85.5	488	0.4	-	-	0.002	-
7/Aug/19	UL3 - Development	390	< 0.1	710	378	< 5	3	< 5	-	< 0.1	0.041	31.5	0.548	< 0.08	-	4.89	45.8	0.641	< 0.0005	0.14	294	109	< 0.1	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.97	1.16	38	320	0.3	1400	-	< 0.001	9000
7/Oct/19	UL3 - Development	424	< 0.1	682	387	< 5	3	< 5	-	0.1	0.044	29.7	0.599	< 0.08	-	4.58	43.4	0.661	< 0.0005	0.1	276	95	< 0.1	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.16	1.14	39	348	0.1	-	-	< 0.001	-
22/Jul/20	UL3 - Development	399	< 0.1	768	365	< 5	2.9	< 5	-	< 0.1	0.043	29.3	0.549	-	-	-	40.9	0.643	< 0.0005	0.12	266	97	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.02	1.09	35.6	327	0.1	115000	-	-	9000
22/Jul/20	UL3 - Development	391	< 0.1	730	364	< 5	2.9	< 5	-	< 0.1	0.043	29.7	0.554	-	-	-	41.7	0.663	< 0.0005	0.13	271	101	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.04	1.1	35.5	320	0.1	115000	-	-	9000
28/Oct/20	UL3 - Development	415	< 0.1	683	391	< 5	3	< 5	-	< 0.1	0.025	32.2	0.564	-	-	5.85	46	0.418	< 0.0005	0.11	301	106	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.11	1.15	35.5	340	0.1	5	-	0.001	2200
28/Oct/20	UL3 - Development	< 5	< 0.1	< 5	< 0.6	< 5	< 1.0	< 5	-	< 0.1	< 0.001	< 0.2	< 0.005	-	-	< 0.032	< 0.6	< 0.001	< 0.0005	< 0.01	< 1	13	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	5.44	0	< 1.0	< 5	< 0.1	< 1	-	0.002	150
15/Jun/21	UL3 - Development	388	< 0.1	674	381	< 5	3	< 5	-	< 0.1	0.053	29.5	0.288	< 0.08	-	5.58	50.7	0.618	< 0.0005	0.12	286	110	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.88	1.3	39.1	312	0.6	-	-	0.001	-
22/Sep/23	Landowner 35	512	< 0.1	909	511	< 5	< 1.0	< 5	59.0	0.766	0.044	37.3	1.01	< 0.05	2.49	5.67	74.7	0.546	0.0001	0.12	301	92	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.06	1.87	85.4	411	0.90	< 1	13000	< 0.0005	2200
20/Jun/24	Landowner 35	484	< 0.1	916	513	< 5	< 1.0	< 5	73.7	0.417	0.047	38.2	0.914	< 0.05	2.53	6.69	72.7	0.563	< 0.0001	0.09	341	103	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.97	1.71	87.7	396	0.64	5	2500	0.0005	9000
17/Sep/24	Landowner 35	507	< 0.1	848	537	< 5	< 1.0	< 5	69.7	0.860	0.047	43.6	1.04	< 0.05	2.76	7.47	82.0	0.593	< 0.0001	0.14	354	106	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.64	1.90	89.7	415	0.88	< 1	2500	< 0.0005	500
16/Jun/21	Landowner 19	428	< 0.1	773	437	20	8.4	< 5	-	< 0.1	-	47.5	< 0.005	< 0.08	-	-	14.6	-	-	0.19	419	104	25.1	5.67	< 0.05	< 0.01	5.67	17	8.6	0.31	19.7	376	< 0.1	-	2500	-	-
8/Oct/21	Landowner 19	457	< 0.1	822	448	< 5	8.4	< 5	-	< 0.1	0.046	52.8	< 0.005	-	-	6.32	15.7	0.608	< 0.0005	0.18	465	118	24.9	5.62	< 0.05	< 0.01	5.62	< 5	7.73	0.32	19.7	375	< 0.1	< 1	440000	< 0.001	2200
24/Jun/23	Landowner 19	490	0.3	817	415	< 5	7.5	< 5	86.4	0.003	0.053	46.4	0.00066	< 0.05	1.52	5.66	13.5	0.534	< 0.0001	0.20	407	101	< 0.5	< 0.02	0.36	0.11	0.11	< 5	7.67	0.29	18.8	401	0.04	1400	500	0.0008	2200
24/Jun/23	Landowner 19	497	< 0.1	818	424	< 5	7.5	< 5	89.8	< 0.001	0.057	48.4	0.00069	< 0.05	1.58	5.77	14.2	0.545	< 0.0001	0.20	424	104	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.68	0.30	18.4	408	0.05	1400	500	0.0007	2200
19/Sep/23	Landowner 19	518	< 0.1	796	457	< 5	6.8	< 5	91.6	0.004	0.048	50.3	0.00028	< 0.05	1.63	6.34	14.7	0.573	0.0002	0.22	436	100	17.5	3.95	< 0.05	< 0.01	3.95	< 5	7.40	0.31	19.9	414	0.03 < 0.1	< 1	67000	0.0008	2200
11/Jun/24	Landowner 19	512	< 0.1	839	472	< 5	8.1	< 5	97.0	0.010	0.055	53.5	0.00033	< 0.05	1.78	6.90	15.6	0.626	< 0.0001	0.17	463	106	24.8	5.60	< 0.05	< 0.01	5.60	< 5	7.84	0.32	19.6	411	0.01	< 1	67000	0.0008	2200
11/Sep/24	Landowner 19	522	< 0.1	827	478	< 5	8.6	< 5	96.7	0.002	0.062	53.3	0.00037	< 0.05	1.69	7.31	15.6	0.583	< 0.0001	0.19	461	103	25.5	5.76	< 0.05	< 0.01	5.76	< 5	7.73	0.32	19.8	428	< 0.01	< 1	67000	0.0008	9000
17/Jun/21	Landowner 29	410	< 0.1	682	400	< 5	12.1	< 5	-	0.7	0.06	26.8	0.121	< 0.08	-	6.69	52	1.12	< 0.0005	0.05	271	98	0.7	0.16	< 0.05	< 0.01	0.16	< 5	8.13	1.37	40.7	336	0.8	-	13000	< 0.001	-
23/Jun/22	Landowner 29	385	< 0.1	647	370	< 5	< 1.0	< 5	67.8	< 0.1	0.051	25.9	0.123	0.08	2.3	5.42	49.6	1.11	< 0.0005	0.04	276	110	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.04	1.30	35.5	316	0.6	< 1	-	< 0.001	2200
23/Jun/22	Landowner 29	383	< 0.1	643	370	< 5	< 1.0	< 5	67.4	< 0.1	0.050	27.3	0.124	0.09	2.2	5.41	49.0	1.06	< 0.0005	0.05	281	111	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.02	1.27	35.5	314	0.6	325	-	< 0.001	2200
24/Jun/22	Landowner 29	474	< 0.1	1150	654	< 5	95.5	< 5	96.3	< 0.1	0.057	46.9	0.332	0.10	2.3	5.06	105	0.854	< 0.0005	0.11	434	111	< 0.5	< 0.02	3.34	1.02	1.02	< 5	7.86	2.19	71.1	389	0.9	325	-	< 0.001	2200
24/Sep/22	Landowner 29	443	< 0.1	684	400	< 5	< 1.0	< 5	58.9	0.6	0.058	27.5	0.118	0.12	2.4	6.11	55.0	1.15	< 0.0025	0.06	260	95	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.20	1.48	38.1	357	0.6	< 1	100	< 0.001	2200
29/Jun/23	Landowner 29	406	< 0.1	698	385	< 5	< 1.0	< 5	58.2	0.484	0.047	23.7	0.117	< 0.05	2.17	4.97	48.9	1.07	< 0.0001	0.15	243	91	1.5	0.34	< 0.05	< 0.01	0.34	< 5	8.00	1.36	50.9	333	0.44	75	< 20	< 0.0005	2200
14/Sep/23	Landowner 29	402	< 0.1	668	380	< 5	1.1	< 5	63.3	0.537	0.042	25.4	0.124	< 0.05	2.20	5.22	55.1	1.19	0.0001	0.07	263	105	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.59	1.48	35.1	329	0.72	< 1	2500	< 0.0005	2200
17/Jun/24	Landowner 29	401	< 0.1	701	380	< 5	< 1.0	< 5	67.0	0.457	0.057	24.9	0.111	< 0.05	2.12	5.77	50.2	0.936	< 0.0001	0.08	270	104	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.92	1.33	38.6	329	0.62	< 1	2500	< 0.0005	2200
12/Sep/24	Landowner 29	433	< 0.1	671	392	< 5	< 1.0	< 5	66.2	0.542	0.062	25.5	0.117	< 0.05	2.24	6.48	50.1	0.980	< 0.0001	0.07	270	98	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.85	1.33	34.9	355	0.59	< 1	13000	< 0.0005	2200

Date (dd-mmm-yy)	Lanowner None	Bicarbonate mg/L	Bromide mg/L	Electrical Conductivity uS/cm	Calculated TDS mg/L	Carbonate mg/L	Chloride mg/L	Hydroxide mg/L	Dissolved Calcium mg/L	Dissolved Iron mg/L	Dissolved Lithium mg/L	Dissolved Magnesium mg/L	Dissolved Manganese mg/L	Dissolved Phosphorus mg/L	Dissolved Potassium mg/L	Dissolved Silicon mg/L	Dissolved Sodium mg/L	Dissolved Strontium mg/L	Dissolved Tin mg/L	Fluoride mg/L	Hardness mg/L	% Ion Balance	Nitrate mg/L	Nitrate-N mg/L	Nitrite mg/L	Nitrite-N mg/L	Nitrate + Nitrite (as N) mg/L	p - Alkalinity (as CaCO3) mg/L	pH pH Units	Sodium Adsorption Ratio None	Sulfate mg/L	T - Alkalinity (as CaCO3) mg/L	Total Iron mg/L	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
15/Jun/21	Enhance Facility Well	482	< 0.1	985	584	6	2.6	< 5	-	< 0.1	0.095	4.7	0.039	< 0.08	-	4.37	226	0.26	< 0.0005	0.14	51	108	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.36	13.7	93.3	398	0.7	-	-	0.001	-
5/Oct/21	Enhance Facility Well	516	< 0.1	1000	594	14	8.8	< 5	-	0.2	0.071	4.7	0.046	< 0.08	-	4.53	216	0.270	< 0.0005	0.14	52	96	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	12	8.52	13.1	83.0	446	0.2	< 1	100	< 0.001	< 1
14/Jun/22	Enhance Facility Well	477	-	907	580	32	2.3	< 5	11.3	< 0.1	0.069	4.7	0.035	0.13	1.3	4.34	212	0.269	< 0.0005	0.15	47.6	96	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	27	8.81	13.4	81.9	436	0.1	-	-	< 0.001	-
19/Sep/22	Enhance Facility Well	530	< 0.1	914	601	12	2.0	< 5	11.7	0.2	0.063	4.8	0.038	0.11	1.2	4.90	224	0.270	< 0.0010	0.16	49.0	99	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	10	8.48	13.9	84.8	446	0.2	-	2500	< 0.001	500
21/Jun/23	Enhance Facility Well	532	< 0.1	981	583	< 5	2.5	< 5	11.5	0.057	0.071	4.66	0.0394	< 0.05	1.26	3.9	205	0.291	< 0.0001	0.14	47.9	92	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.31	12.9	96.0	433	0.17	75	2500	< 0.0005	500
13/Sep/23	Enhance Facility Well	511	< 0.1	961	554	< 5	2.1	< 5	11.8	0.194	0.058	4.12	0.0380	< 0.05	1.05	3.8	196	0.269	0.0001	0.14	46.4	92	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.13	12.5	87.4	419	0.53	< 1	100	< 0.0005	25
13/Sep/23	Enhance Facility Well	509	< 0.1	960	536	< 5	2.1	< 5	10.9	0.164	0.057	4.15	0.0385	< 0.05	1.06	3.6	180	0.272	< 0.0001	0.12	44.3	86	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.07	11.8	87.4	417	0.51	< 1	500	< 0.0005	2200
18/Jun/24	Enhance Facility Well	504	< 0.1	1000	567	< 5	2.8	< 5	13.2	0.147	0.084	5.47	0.0390	< 0.05	1.34	5.01	209	0.274	< 0.0001	0.12	55.5	101	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.22	12.2	87.1	413	0.19	< 1	2500	< 0.0005	9000
12/Sep/24	Enhance Facility Well	433	< 0.1	670	396	< 5	< 1.0	< 5	67.1	0.514	0.065	26.2	0.113	< 0.05	2.26	6.55	51.9	0.982	< 0.0001	0.07	275	100	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.89	1.36	35.5	355	0.68	< 1	13000	< 0.0005	2200
12/Sep/24	Enhance Facility Well	555	< 0.1	998	582	6	2.3	< 5	12.4	0.144	0.090	4.76	0.0344	< 0.05	1.24	4.78	197	0.266	< 0.0001	0.13	50.6	86	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	5	8.36	12.1	85.3	465	0.22	< 1	2500	< 0.0005	9000
6/Oct/21	Landowner 14	447	0.1	818	444	< 5	13.5	< 5	-	1.0	0.064	33.9	0.200	< 0.08	-	6.71	75.2	0.596	< 0.0005	0.12	306	113	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.01	1.87	32.3	366	1.1	< 1	2500	< 0.001	25
18/Jun/22	Landowner 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-
18/Jun/22	Landowner 14	481	< 0.1	711	433	< 5	12.6	< 5	57.5	< 0.1	0.064	28.5	0.190	0.14	2.1	5.98	64.0	0.620	< 0.0005	0.09	261	90	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.11	1.72	32.1	386	1.1	-	-	< 0.001	-
21/Sep/22	Landowner 14	429	0.1	780	429	< 5	15.1	< 5	57.1	1.0	0.070	28.3	0.191	< 0.08	2.2	6.13	81.2	0.568	< 0.0010	0.13	259	108	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.04	2.19	34.0	352	1.3	< 1	500	< 0.001	2200
27/Jun/23	Landowner 14	458	< 0.1	793	428	< 5	10.8	< 5	51.8	0.944	0.061	27.8	0.188	< 0.05	2.08	5.45	77.6	0.550	< 0.0001	0.08	244	98	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.64	2.16	32.9	366	1.01	1400	2500	< 0.0005	2200
14/Sep/23	Landowner 14	469	< 0.1	823	436	< 5	10.4	< 5	52.8	0.714	0.048	25.7	0.175	< 0.05	1.99	5.12	80.2	0.537	0.0001	0.12	238	96	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.05	2.26	34.2	385	1.32	< 1	2500	< 0.0005	2200
17/Jun/24	Landowner 14	461	< 0.1	842	463	< 5	13.4	< 5	53.1	0.650	0.053	25.0	0.153	< 0.05	2.24	5.80	104	0.985	< 0.0001	0.11	236	106	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.98	2.95	38.9	378	0.76	75	500	< 0.0005	2200
10/Sep/24	Landowner 14	509	< 0.1	808	498	< 5	12.9	< 5	55.5	0.639	0.075	28.1	0.165	< 0.05	2.01	6.69	109	0.515	< 0.0001	0.09	254	104	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.71	2.97	39.7	409	0.70	< 1	67000	< 0.0005	2200
8/Oct/21	Landowner 26	492	< 0.1	1250	690	< 5	101	< 5	-	0.6	0.060	48.0	0.397	-	-	6.10	115.0	0.952	< 0.0005	0.22	457	114	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.96	2.34	77.3	404	0.7	< 1	440000	< 0.001	2200
24/Jun/22	Landowner 26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-
21/Sep/22	Landowner 26	481	0.8	1210	671	< 5	111	< 5	95.3	1.6	0.069	46.0	0.335	< 0.08	2.4	5.29	109	1.05	< 0.0010	0.20	427	107	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.91	2.29	70.4	394	0.9	< 1	13000	< 0.001	2200
16/Oct/21	Landowner 7	394	< 0.1	729	412	< 5	6.2	< 5	-	< 0.1	0.030	30.4	0.093	< 0.08	-	5.97	41.0	0.637	< 0.0005	0.18	360	120	1.1	0.25	< 0.05	< 0.01	0.25	< 5	7.62	0.94	42.5	323	3.1	< 1	67000	< 0.001	500
16/Jun/22	Landowner 7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	0	-	500
16/Jun/22	Landowner 7	458	< 0.1	674	419	< 5	7.2	< 5	82.0	< 0.1	0.026	27.6	0.124	0.10	2.8	4.65	32.2	0.557	< 0.0005	0.25	318	91	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.08	0.78	41.5	369	6.2	-	-	< 0.001	-
20/Sep/22	Landowner 7	457	< 0.1	676	424	< 5	5.9	< 5	84.2	2.8	0.028	30.4	0.116	0.13	3.1	5.79	35.6	0.612	< 0.0010	0.19	335	99	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.03	0.85	39.6	369	5.6	< 1	2500	< 0.001	2200
15/Sep/23	Landowner 7	458	< 0.1	721	422	< 5	6.3	< 5	83.8	2.86	0.021	27.5	0.153	< 0.05	3.04	4.82	34.3	0.583	0.0001	0.16	322	95	0.7	0.16	< 0.05	< 0.01	0.16	< 5	7.63	0.83	40.9	366	6.22	< 1	2500	< 0.0005	500
12/Sep/24	Landowner 7	468	< 0.1	754	445	< 5	7.3	< 5	90.6	2.07	0.032	30.3	0.0987	< 0.05	3.14	6.27	36.7	0.597	< 0.0001	0.17	351	99	0.7	0.16	< 0.05	< 0.01	0.16	< 5	7.80	0.85	46.3	384	5.37	< 1	13000	< 0.0005	2200
6/Oct/21	Landowner 11	436	0.1	858	477	< 5	15.3	< 5	-	< 0.1	0.038	26.6	0.163	< 0.08	-	5.06	102	0.685	< 0.0005	0.24	247	106	1.8	0.41	< 0.05	< 0.01	0.41	< 5	8.26	2.82	59.8	357	< 0.1	< 1	2500	< 0.001	2200
15/Jun/22	Landowner 11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	0	-	2200
15/Jun/22	Landowner 11	426	< 0.1	813	458	7	15.0	< 5	47.0	< 0.1	0.037	24.9	0.119	0.15	1.7	4.72	95.5	0.684	< 0.0005	0.26	220	97	2.5	0.56	< 0.05	< 0.01	0.56	5	8.35	2.80	54.6	360	< 0.1	-	-	< 0.001	-
20/Sep/22	Landowner 11	475	< 0.1	773	498	< 5	17.2	< 5	49.7	0.1	0.042	27.2	0.144	0.12	2.0	5.57	108	0.679	< 0.0010	0.26	-	99	1.0	0.23	< 0.05	< 0.01	0.23	< 5	8.00	3.06	59.2	383	0.1	< 1	67000	< 0.001	2200
12/Jun/24	Landowner 11	458	0.1	861	497	< 5	20.5	< 5	58.5	0.028	0.049	26.8	0.126	< 0.05	1.94	5.20	104	0.635	< 0.0001	0.24	256	104	2.6	0.59	< 0.05	< 0.01	0.59	< 5	7.73	2.83	57.1	367	0.03	< 1	13000	< 0.0005	9000
17/Sep/24	Landowner 11	462	< 0.1	803	504	< 5	20.3	< 5	56.8	0.012	0.041	28.0	0.0953	< 0.05	2.06	5.82	108	0.671	< 0.0001	0.22	257	105	1.8	0.41	< 0.05	< 0.01	0.41	< 5	7.81	2.93	59.7	379	0.27	< 1	2500	< 0.0005	35000
6/Oct/21	Landowner 16	517	< 0.1	977	561	< 5	< 1.0	< 5	-	< 0.1	0.085	5.9	0.017	< 0.08	-	4.39	221	0.341	< 0.0005	0.25	67	113	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.31	11.7	60.8	428	0.1	< 1	2500	< 0.001	9000
16/Jun/22	Landowner 16	493	< 0.1	789	499	< 5	1.1	< 5	14.3	< 0.1	0.081	4.6	0.011	0.09	1.4	4.19	183	0.326	< 0.0005	0.18	54.6	99	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.23	10.8	52.2	404	< 0.1	-	< 1	< 0.001	9000
20/Sep/22	Landowner 16	556	< 0.1	879	574	6	< 1.0	< 5	14.8	< 0.1	0.088	5.4	0.015	0.11	1.4	4.66	211	0.360	< 0.0005	0.18	59.2	98	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	5	8.37	11.9	62.0	459	< 0.1	-	500	< 0.001	2200
23/Jun/23	Landowner 16	544	< 0.1	940	559	< 5	5.1	< 5	15.3	0.068	0.102	5.28	0.0147	< 0.05	1.46	4.1	203	0.325	< 0.0001	0.18	59.9	97	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.33	11.4	61.1	454	0.08	< 1	500	< 0.0005	9000
14/Sep/23	Landowner 16	528	< 0.1	940	553	< 5	< 1.0	< 5	16.4	0.092	0.067	5.19	0.0150	< 0.05	1.51	3.9	211	0.334	0.0002	0.22	62.3	106	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.95	11.6	59.4	433	0.10	< 1	500	< 0.0005	2200
11/Jun/24	Landowner 16	550	< 0.1	968	554	7	< 1.0	< 5	17.4	0.080	0.115	5.40	0.0138	< 0.05	1.55	4.30	186	0.312	< 0.0001	0.18	65.7	89	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	6	8.36	9.98	66.0	455	0.09	< 1	2500	< 0.0005	2200
11/Sep/24	Landowner 16	550	< 0.1	942	557	< 5	< 1.0	< 5	16.7	0.072	0.110	5.68	0.0154	< 0.05	1.62	5.11	196	0.327	< 0.0001	0.16	65.1	95	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.16	10.6	66.7	443	0.16	< 1	13000	< 0.0005	9000
11/Sep/24	Landowner 16	581	< 0.1	944	570	< 5	< 1.0	< 5	17.2	0.069	0.113	5.55	0.0153	< 0.05	1.61	5.23	196	0.323	< 0.0001	0.20	65.8	91	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.25	10.5	63.5	476	0.08	< 1	500	< 0.0005	9000
16/Jun/21	Landowner 9	421	< 0.1	773	443	< 5	10.4	< 5	-	< 0.1	-	25.2	0.007	< 0.08	-	-	95.3	-	-	0.14	220	103	1.6	0.36	< 0.05	< 0.01	0.36	< 5	8.18	2.79	54.5	345	< 0.1	-	0	-	-
16/Jun/21	Landowner 9	414	< 0.1	767	442	< 5	11.9	< 5	-	< 0.1	-	25.7	0.007	< 0.08	-	-	95	-	-	0.19	221	104	1.5	0.34	< 0.05	< 0.01	0.34	< 5	8.08	2.78	55.8	340	< 0.1	-	0	-	-
6/Oct/21	Landowner 9	423	< 0.1	827	481	< 5	6.0	< 5	-	< 0.1	0.060	20.8	0.014	< 0.08	-	4.15	140	0.596	< 0.0005	0.23	188	118	1.3	0.29	< 0.05	< 0.01	0.29	< 5	8.19	4.44	60.9	347	< 0.1	< 1	2500	< 0.001	500
15/Jun/22	Landowner 9	400	< 0.1	779	428	< 5	5.7	< 5	34.9	< 0.1	0.059	18.8	0.010	0.16	1.8	3.60	111	0.630	< 0.0005	0.22	165	103	1.5	0.34	< 0.05	< 0.01	0.34	< 5	8.26	3.77	57.9	328	< 0.1	< 1	0	< 0.001	2200
19/Sep/22	Landowner 9	438	< 0.1	713	455	< 5	6.0	< 5	39.8	< 0.1	0.054	22.7	0.007	0.12	2.2	4.15	109	0.644	< 0.0010	0.23	193	101	1.8	0.41	< 0.05	< 0.01	0.41	< 5	8.33	3.42	57.6	359	< 0.1	< 1	13000	< 0.001	2200
21/Jun/23	Landowner 9	446	< 0.1	801	462	< 5	6.2	< 5	33.3	0.001	0.057	17.2	0.00786	< 0.05	1.97	3.45	118	0.552	< 0.0001	0.24	154	93	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.20	4.14	65.6	357	< 0.01	75	500	< 0.0005	2200
21/Jun/23	Landowner 9	448	< 0.1	801	475	< 5	7.0	< 5	32.7	0.001	0.056	16.7	0.00888	< 0.05	1.99	3.33	117	0.559	< 0.0001	0.27	150	88	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.18	4.15	79.5	358	< 0.01	75	500	< 0.0005	2200
14/Sep/23	Landowner 9	424	< 0.1	802	450	< 5	6.1	< 5	33.9	0.008	0.048	17.2	0.0103	< 0.05	1.91	3.36	122	0.567	0.0002	0.25	155	101	1.3	0.29	< 0.05	< 0.01	0.29	< 5	7.80	4.26	58.9	347	< 0.01	< 1	100	< 0.0005	2200
12/Jun/24	Landowner 9	446	< 0.1	819	457	< 5	7.3	< 5	40.8	0.037	0.069	21.6	0.00359	< 0.05	2.16	4.02	105	0.597	0.0002	0.27	191	96	1.4	0.32	< 0.05	< 0.01	0.32	< 5	7.87	3.31	59.6	355	< 0.01	< 1	2500	< 0.0005	9000
10/Sep/24	Landowner 9	471	< 0.1	804	472	< 5	5.5	< 5	40.1	0.009	0.068	22.1	0.00652	< 0.05	2.17	4.34	106	0.621	< 0.0001	0.18	191	92	0.9	0.20	< 0.05	< 0.01	0.20	< 5	8.10	3.34	63.3	386	< 0.01	< 1	67000	< 0.0005	2200
6/Oct/21	Landowner 3	486	< 0.1	1110	627	5	8.1	< 5	-	< 0.1	0.067	3.0	0.092	< 0.08	-	4.20	246	0.401	< 0.0005	0.11	49	110	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.36	15.3	109	407	0.3	< 1	2500	< 0.001	500
6/Oct/21	Landowner 3	498	< 0.1	1110	637	< 5	8.3	< 5	-	0.1	0.066	2.5	0.088	< 0.08	-	4.27	250	0.401	< 0.0005	0.10	45	109	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.28	16.2	116	409	0.3	< 1	13000	< 0.001	2200
17/Jun/22	Landowner 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	100	-	2200
17/Jun/22	Landowner 3	480	< 0.1	1220	723	< 5	42.7	< 5	67.5	< 0.1	0.083	30.7	0.296	< 0.08	2.7	4.17	159	1.19	< 0.0005	0.08	295	100	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.22	4.03	184	393	1.6	-	-	< 0.001	-
21/Sep/22	Landowner 3	480	< 0.1	1190	707	< 5	39.4	< 5	51.6	0.8	0.091	23.7	0.248	< 0.08	2.8	4.27	188	1.09	< 0.0010	0.12	226	103	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.17	5.44	165	393	1.3 1.34	< 1	2200	< 0.001	2200
19/Sep/23	Landowner 3	554	< 0.1	1200	750	< 5	35.7	< 5	58.1	1.33	0.094	26.0	0.302	< 0.05	2.85	4.3	197	1.08	0.0001	0.10	252	103	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.63	5.40	158	443	1.3	< 1	500	< 0.0005	500
11/Sep/24	Landowner 3	567	< 0.1	1240	761	< 5	41	< 5	63.4	1.10	0.107	27.2	0.283	< 0.05	3.08	5.52	179	0.965	< 0.0001	< 0.01	270	95	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.70	4.74	168	456	1.12	< 1	13000	< 0.0005	2200
6/Oct/21	Landowner 3	490	< 0.1	1110	641	< 5	9.0	< 5	-	< 0.1	0.069	2.8	0.112	< 0.08	-	4.33	249	0.434	< 0.0005	0.03	50	110	1.7	0.38	< 0.05	< 0.01	0.38	< 5	8.29	15.4	120	405	< 0.1	< 1	67000	< 0.001	-

Date (dd-mmm-yy)	Lanowner None	Bicarbonate mg/L	Bromide mg/L	Electrical Conductivity uS/cm	Calculated TDS mg/L	Carbonate mg/L	Chloride mg/L	Hydroxide mg/L	Dissolved Calcium mg/L	Dissolved Iron mg/L	Dissolved Lithium mg/L	Dissolved Magnesium mg/L	Dissolved Manganese mg/L	Dissolved Phosphorus mg/L	Dissolved Potassium mg/L	Dissolved Silicon mg/L	Dissolved Sodium mg/L	Dissolved Strontium mg/L	Dissolved Tin mg/L	Fluoride mg/L	Hardness mg/L	% Ion Balance	Nitrate mg/L	Nitrate-N mg/L	Nitrite mg/L	Nitrite-N mg/L	Nitrate + Nitrite (as N) mg/L	p - Alkalinity (as CaCO3) mg/L	pH pH Units	Sodium Adsorption Ratio None	Sulfate mg/L	T - Alkalinity (as CaCO3) mg/L	Total Iron mg/L	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
14/Oct/21	Landowner 15	553	< 0.1	1020	589	7	< 1.0	< 5	-	< 0.1	-	6.8	0.006	-	-	-	225	-	-	< 0.01	82	110	2.1	0.47	< 0.05	< 0.01	0.47	6	8.37	10.8	52.6	465	< 0.1	< 1	67000	-	2200
23/Jun/22	Landowner 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	0	-	2200
23/Jun/22	Landowner 15	602	< 0.1	938	604	12	< 1.0	< 5	18.5	< 0.1	0.094	5.6	< 0.005	0.09	1.6	4.67	212	0.420	< 0.0005	0.09	69.3	93	1.8	0.41	< 0.05	< 0.01	0.41	10	8.43	11.1	56.8	505	< 0.1	-	-	< 0.001	-
21/Sep/22	Landowner 15	542	< 0.1	1040	594	< 5	2.0	< 5	21.0	< 0.1	0.105	7.3	< 0.005	< 0.08	1.7	4.75	220	0.473	< 0.0010	0.19	82.5	107	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.30	10.5	75.2	449	0.5	< 1	500	< 0.001	2200
27/Jun/23	Landowner 15	600	< 0.1	1080	599	10	< 1.0	< 5	20.5	0.002	0.099	7.49	0.00777	< 0.05	1.75	4.5	211	0.515	< 0.0001	0.07	82.0	96	2.4	0.54	< 0.05	< 0.01	0.54	8	8.44	10.1	50.8	500	0.01	1400	2500	< 0.0005	2200
13/Sep/23	Landowner 15	598	< 0.1	1000	569	< 5	< 1.0	< 5	19.4	0.003	0.120	8.11	0.00878	< 0.05	1.79	4.1	187	0.539	0.0001	0.07	81.8	89	1.5	0.34	< 0.05	< 0.01	0.34	< 5	7.95	8.99	56.9	490	0.01	5	< 20	< 0.0005	2200
17/Jun/24	Landowner 15	620	< 0.1	1030	581	< 5	< 1.0	< 5	21.7	0.007	0.090	6.48	0.00529	< 0.05	1.86	5.25	192	0.455	< 0.0001	0.05	80.9	89	2.2	0.50	< 0.05	< 0.01	0.50	< 5	7.73	9.29	52.3	494	< 0.01	1400	500	< 0.0005	2200
10/Sep/24	Landowner 15	645	< 0.1	1030	613	< 5	2.9	< 5	22.0	0.004	0.104	7.76	0.00382	< 0.05	1.95	5.67	204	0.486	< 0.0001	0.11	86.9	90	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.06	9.52	56.7	529	0.49	1400	13000	< 0.0005	9000
8/Oct/21	Landowner 28	403	< 0.1	643	373	< 5	9.0	< 5	-	< 0.1	0.041	34.9	< 0.005	-	-	4.97	13.2	1.12	< 0.0005	0.08	373	111	1.0	0.23	< 0.05	< 0.01	0.23	< 5	8.01	0.30	21.8	322	< 0.1	< 1	440000	< 0.001	2200
15/Jun/22	Landowner 28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	0	-	2200
15/Jun/22	Landowner 28	337	< 0.1	599	313	< 5	6.8	< 5	75.7	< 0.1	0.040	29.6	< 0.005	0.16	3.0	4.38	11.2	1.13	< 0.0005	0.11	311	110	1.1	0.25	< 0.05	< 0.01	0.25	< 5	8.23	0.28	19.6	276	< 0.1	-	-	< 0.001	-
19/Sep/22	Landowner 28	421	< 0.1	599	363	< 5	6.8	< 5	77.7	< 0.1	0.038	33.4	< 0.005	0.12	3.4	5.18	12.2	0.953	< 0.0010	0.10	332	96	1.1	0.25	< 0.05	< 0.01	0.25	< 5	8.09	0.29	21.2	340	< 0.1	< 1	2500	< 0.001	2200
8/Oct/21	Landowner 8	635	< 0.1	1560	946	< 5	1.5	< 5	-	< 0.1	0.099	0.6	0.011	-	-	3.21	384.0	0.086	< 0.0005	0.37	11	109	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.33	51.0	243	528	< 0.1	5	440000	< 0.001	2200
15/Jun/22	Landowner 8	659	< 0.1	1460	948	31	< 1.0	< 5	2.7	< 0.1	0.088	0.5	0.007	0.19	0.7	2.93	351	0.080	< 0.0005	0.35	8.8	92	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	26	8.76	51.4	238	582	< 0.1	-	-	< 0.001	-
15/Jun/22	Landowner 8	671	< 0.1	1460	950	28	< 1.0	< 5	2.6	< 0.1	0.089	0.5	0.007	0.18	0.8	2.94	353	0.081	< 0.0005	0.33	8.6	92	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	23	8.71	52.5	235	587	< 0.1	-	-	< 0.001	-
24/Jun/22	Landowner 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-
21/Sep/22	Landowner 8	594	< 0.1	1550	935	25	2.9	< 5	2.8	< 0.1	0.094	0.5	0.008	< 0.08	0.7	2.93	369	0.082	< 0.0005	0.35	9.1	103	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	21	8.60	53.3	242	529	< 0.1	< 1	67000	< 0.001	9000
23/Jun/23	Landowner 8	641	< 0.1	1550	956	21	20.3	< 5	2.89	0.006	0.102	0.52	0.00742	< 0.05	0.81	2.9	366	0.079	< 0.0001	0.39	9.4	97	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	17	8.60	52.0	229	560	0.01	325	67000	< 0.0005	9000
15/Sep/23	Landowner 8	648	< 0.1	1580	956	17	< 1.0	< 5	2.88	0.018	0.069	0.52	0.00766	< 0.05	0.85	2.7	381	0.084	0.0001	0.38	9.3	104	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	14	8.53	54.2	235	559	< 0.01	< 1	67000	< 0.0005	9000
11/Jun/24	Landowner 8	660	< 0.1	1600	952	26	< 1.0	< 5	3.08	0.011	0.121	0.53	0.00746	< 0.05	0.86	3.07	347	0.077	< 0.0001	0.35	9.9	91	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	22	8.64	48.0	250	575	0.02	< 1	2500	< 0.0005	9000
11/Sep/24	Landowner 8	703	< 0.1	1580	984	17	< 1.0	< 5	2.97	0.011	0.114	0.57	0.00819	< 0.05	0.89	3.61	353	0.079	< 0.0001	0.25	9.8	88	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	14	8.52	49.1	264	605	0.01	5	13000	< 0.0005	9000
7/Oct/21	Landowner 30	362	< 0.1	700	370	8	8.1	< 5	-	1.6	0.033	31.0	0.499	< 0.08	-	5.66	51.9	0.483	< 0.0005	0.20	291	118	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	6	8.41	1.32	25.6	309	119	< 1	2500	< 0.001	< 1
18/Jun/22	Landowner 30	432	0.1	663	418	< 5	12.5	< 5	0.3	< 0.1	0.022	< 0.2	< 0.005	0.16	2.4	5.38	164	0.002	< 0.0005	0.14	0.7	90	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.08	82.3	26.5	347	< 0.1	< 1	-	< 0.001	25
19/Sep/22	Landowner 30	425	< 0.1	613	382	< 5	8.5	< 5	59.0	1.8	0.030	29.9	0.483	0.13	2.1	5.89	49.4	0.522	< 0.0010	0.16	270	100	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.10	1.31	23.6	343	11.3	< 1	20	< 0.001	< 1
29/Jun/23	Landowner 30	395	0.2	678	390	< 5	9.9	< 5	53.7 58.0	0.559	0.028	26.4	0.479	< 0.05	1.98	4.60	47.7	0.534	< 0.0001	0.25	243	88	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.91	1.33	56.4	324	2.13 8.66	< 1	< 20	< 0.0005	< 1
19/Sep/23	Landowner 30	434	< 0.1	662	382	< 5	8.3	< 5	58.0	0.632	0.034	27.4	0.499	< 0.05	2.15	5.05	48.9	0.529	0.0001	0.13	258	94	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.44	1.33	24.1	347	8.6	< 1	2500	< 0.0005	< 1
17/Jun/24	Landowner 30	366	< 0.1	617	322	< 5	10.3	< 5	48.2	2.45	0.033	26.7	0.256	< 0.05	2.00	4.19	47.9	0.434	< 0.0001	0.06	230	106	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.13	1.37	7.0	300	10.5	325	13000	< 0.0005	9000
12/Sep/24	Landowner 30	433	< 0.1	679	391	< 5	8.1	< 5	66.1	1.41	0.040	29.4	0.480	< 0.05	2.15	6.29	48.7	0.549	< 0.0001	0.12	286	102	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.83	1.25	23.1	355	3.38	< 1	< 20	< 0.0005	150
14/Oct/21	Landowner 21	532	< 0.1	1140	672	12	10.7	< 5	-	0.1	0.042	1.6	0.020	< 0.08	-	3.89	273.0	0.152	< 0.0005	0.69	24	106	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	10	8.48	24.3	105	456	0.2	< 1	67000	< 0.001	500
16/Jun/22	Landowner 21	571	< 0.1	1050	646	20	1.0	< 5	3.2	< 0.1	0.036	0.6	0.007	0.12	1.0	3.53	245	0.139	< 0.0005	0.53	10.5	90	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	16	8.59	32.9	94.8	492	0.2	-	-	< 0.001	-
20/Sep/22	Landowner 21	584	< 0.1	1100	720	21	< 1.0	< 5	4.4	< 0.1	0.043	0.8	0.012	0.17	1.0	3.73	286	0.131	< 0.0005	0.72	14.3	100	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	17	8.64	32.9	120	505	0.2	< 1	67000	< 0.001	2200
22/Jun/23	Landowner 21	587	< 0.1	1220	650	16	< 1.0	< 5	4.69	0.064	0.038	0.82	0.0132	< 0.05	0.98	3.3	238	0.134	< 0.0001	0.72	15.1	87	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	14	8.57	26.6	101	508	0.16	325	2500	< 0.0005	2200
14/Sep/23	Landowner 21	598	< 0.1	1220	712	< 5	5.2	< 5	4.40	0.059	0.029	0.57	0.0109	< 0.05	0.92	3.3	282	0.110	0.0002	0.71	13.3	100	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.25	33.6	125	490	0.17	< 1	2500	< 0.0005	9000
17/Jun/24	Landowner 21	611	< 0.1	1210	697	< 5	1.1	< 5	4.41	0.033	0.040	0.50	0.00891	< 0.05	0.91	3.45	250	0.098	0.0001	0.71	13.1	86	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.33	30.1	140	494	0.16	20	500	< 0.0005	9000
17/Jun/24	Landowner 21	593	< 0.1	1240	700	14	< 1.0	< 5	4.39	0.031	0.039	0.52	0.00917	< 0.05	0.94	3.50	254	0.099	< 0.0001	0.70	13.1	87	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	11	8.49	30.5	135	500	0.06	20	500	< 0.0005	9000
17/Oct/21	Landowner 13	504	< 0.1	1080	710	< 5	< 1.0	< 5	-	1.3	0.050	31.3	0.219	-	-	4.34	196.0	1.04	0.0010	< 0.01	262	116	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.03	5.26	179	406	0.6	115000	67000	0.004	500
16/Jun/22	Landowner 13	512	< 0.1	1010	662	< 5	< 1.0	< 5	48.0	< 0.1	0.041	23.0	0.165	0.09	2.3	4.27	158	0.989	< 0.0005	0.09	215	93	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.24	4.69	179	411	0.6	-	-	< 0.001	-
21/Sep/22	Landowner 13	455	< 0.1	1080	652	< 5	1.5	< 5	47.5	0.3	0.047	24.3	0.179	< 0.08	2.6	4.45	172	1.03	< 0.0010	0.07	219	106	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.14	5.06	180	373	0.4	< 1	< 1	< 0.001	500
5/Oct/21	Enhance Monitoring Well	624	< 0.1	1180	701	32	2.3	< 5	-	< 0.1	0.032	0.3	< 0.005	0.10	-	3.60	290	0.058	< 0.0005	1.38	5	99	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	26	8.70	53.9	66.9	564	0.2	< 1	67000	0.002	< 1
26/Jun/22	Enhance Monitoring Well	537	< 0.1	1080	627	41	1.0	< 5	2.7	< 0.1	0.030	0.49	0.515	< 0.08	1.1	5.03	282	0.056	< 0.0005	1.69	8.8	113	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	27	8.72	41.4	34.6	495	< 0.1	11500	-	< 0.001	9000
12/Sep/23	Enhance Monitoring Well	386	< 0.1	665	577	< 5	2.9	< 5	59.9 60.6	0.066	0.035	30.9	0.471	0.09	4.48 4.2	5.0	256	0.632	0.0004	0.10	278	235	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.77	6.66	33.9	316	1.08	20	< 20	< 0.0005	2200
18/Jun/24	Enhance Monitoring Well	608	< 0.1	1200	665	14	< 1.0	< 5	2.74	0.080	0.035	0.38	0.00757	0.16	0.90	3.83	272	0.053	0.0001	1.59	8.4	99	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	12	8.53	40.8	76.2	522	0.20	6000	2500	< 0.0005	9000
18/Sep/24	Enhance Monitoring Well	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6000	2500	-	9000
18/Sep/24	Enhance Monitoring Well	658	< 0.1	1160	715	19	< 1.0	< 5	2.53	0.024	0.033	0.41	0.00679	< 0.20	1.04	3.60	287	0.054	0.0003	1.30	8.0	96	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	16	8.60	44.1	81.1	571	0.14	-	-	< 0.0009	-
5/Oct/21	Enhance Monitoring Well	419	< 0.1	687	398	< 5	5.8	< 5	-	0.5	0.042	30.6	0.344	< 0.08	-	5.64	46.9	0.618	< 0.0005	0.11	294	102	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.13	1.19	38.8	344	0.6	115000	440000	< 0.001	2200
26/Jun/22	Enhance Monitoring Well	373	< 0.1	630	362	< 5	3.2	< 5	61.4	< 0.1	0.040	29.8	0.248	0.11	2.1	5.14	47.3	0.579	< 0.0005	0.10	276	110	0.9	0.20	< 0.05	< 0.01	0.20	< 5	7.97	1.24	33.4	306	0.4	6000	-	< 0.001	2200
12/Sep/23	Enhance Monitoring Well	400	< 0.1	689	380	< 5	2.9	< 5	59.6	0.1	0.044	30.5	0.275	< 0.05	2.2	5.25	50.3	0.611	0.0003	0.09	274	104	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.77	1.32	37.8	328	1.7	325	< 20	< 0.0005	2200
18/Jun/24	Enhance Monitoring Well	386	< 0.1	701	383	< 5	3.3	< 5	65.0	0.048	0.048	32.4	0.286	< 0.05	2.29	6.06	51.4	0.647	0.0002	0.11	296	114	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.81	1.30	38.4	316	0.14	6000	2500	< 0.0005	9000
9/Sep/24	Enhance Monitoring Well	433	< 0.1	673	414	< 5	12.3	< 5	66.3	0.003	0.046	31.1	0.285	< 0.05	2.35	6.33	51.6	0.641	0.0002	< 0.01	294	100	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.37	1.31	37.1	347	0.12	< 1	100	< 0.0005	2200
5/Oct/21	Enhance Monitoring Well	421	< 0.1	692	394	< 5	5.2	< 5	-	< 0.1	0.039	31.3	0.631	< 0.08	-	5.38	44.8	0.672	< 0.0005	0.10	300	103	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.25	1.13	34.9	345	0.1	325	440000	< 0.001	2200
26/Jun/22	Enhance Monitoring Well	369	< 0.1	637	392	< 5	1.5	< 5	63.5	< 0.1	0.037	30.6	0.005	0.24	2.4	3.63	45.6	0.617	< 0.0005	0.09	285	103	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.92	1.18	67.1	302	< 0.1	6000	-	< 0.001	2200
21/Sep/23	Enhance Monitoring Well	642	< 0.1	1140	714	21	< 1.0	< 5	2.58	0.009	0.035	0.34	0.00848	0.17	0.77	3.4	301	0.051	0.0002	1.55	7.8	104	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	17	8.51	46.7	72.3	549	1.94	6000	13000	0.0006	9000
21/Sep/23	Enhance Monitoring Well	640	0.3	1140	698	19	< 1.0	< 5	2.74	0.016	0.035	0.36	0.00511	0.14	1.07	3.4	291	0.059	0.0006	1.34	8.3	102	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	16	8.50	43.8	69.5	543	0.22	6000	13000	0.0007	9000
18/Jun/24	Enhance Monitoring Well	395	< 0.1	705	386	< 5	3.6	< 5	67.3	0.020	0.045	32.3	0.533	< 0.05	2.41	5.82	48.2	0.667	< 0.0001	0.10	301	111	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.75	1.21	38.0	324	0.04	< 1	2500	< 0.0005	9000
17/Sep/24	Enhance Monitoring Well	426	< 0.1	668	403	< 5	3.5	< 5	68.4	0.339	0.044	32.7	0.572	< 0.05	2.49	6.33	49.0	0.668	< 0.0001	0.11	305	106	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.66	1.22	37.7	349	5.09	6000	13000	< 0.0005	2200

Date (dd-mmm-yy)	Lanowner None	Bicarbonate mg/L	Bromide mg/L	Electrical Conductivity uS/cm	Calculated TDS mg/L	Carbonate mg/L	Chloride mg/L	Hydroxide mg/L	Dissolved Calcium mg/L	Dissolved Iron mg/L	Dissolved Lithium mg/L	Dissolved Magnesium mg/L	Dissolved Manganese mg/L	Dissolved Phosphorus mg/L	Dissolved Potassium mg/L	Dissolved Silicon mg/L	Dissolved Sodium mg/L	Dissolved Strontium mg/L	Dissolved Tin mg/L	Fluoride mg/L	Hardness mg/L	% Ion Balance	Nitrate mg/L	Nitrate-N mg/L	Nitrite mg/L	Nitrite-N mg/L	Nitrate + Nitrite (as N) mg/L	p - Alkalinity (as CaCO3) mg/L	pH pH Units	Sodium Adsorption Ratio None	Sulfate mg/L	T - Alkalinity (as CaCO3) mg/L	Total Iron mg/L	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
6/Oct/21	Landowner 23	387	0.2	971	524	< 5	57.4	< 5	-	< 0.1	0.041	33.1	< 0.005	< 0.08	-	6.84	31.4	0.618	< 0.0005	0.20	441	108	44.5	10.1	< 0.05	< 0.01	10.1	< 5	7.93	0.65	41.3	317	< 0.1	< 1	13000	< 0.001	9000
6/Oct/21	Landowner 23	571	< 0.1	1330	755	15	9.4	< 5	-	< 0.1	0.053	1.0	0.009	< 0.08	-	3.39	323	0.075	< 0.0005	0.54	14	113	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	13	8.55	37.4	121	494	< 0.1	< 1	< 20	< 0.001	9000
16/Jun/22	Landowner 23	586	< 0.1	1190	723	26	10.6	< 5	1.5	< 0.1	0.048	0.2	< 0.005	0.13	0.7	3.26	277	0.070	< 0.0005	0.49	4.6	92	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	22	8.74	56.3	119	516	< 0.1	-	-	< 0.001	-
20/Sep/22	Landowner 23	609	< 0.1	1220	796	21	10.3	< 5	2.8	< 0.1	0.056	0.4	0.007	0.18	0.7	3.51	317	0.078	< 0.0005	0.58	8.6	100	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	17	8.63	46.9	144	525	< 0.1	< 1	2500	< 0.001	2200
22/Jun/23	Landowner 23	585	0.1	1250	722	15	16.9	< 5	2.66	0.007	0.054	0.37	0.00802	0.05	0.70	3.1	271	0.074	0.0002	0.58	8.2	90	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	12	8.60	41.2	128	505	0.01	20	100	< 0.0005	9000
13/Sep/23	Landowner 23	619	< 0.1	1280	733	9	10.4	< 5	2.82	0.007	0.061	0.36	0.00752	< 0.05	0.69	2.9	273	0.071	0.0001	0.56	8.5	89	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	8	8.38	40.7	132	511	< 0.01	< 1	100	< 0.0005	< 1
6/Oct/21	Landowner 20	490	< 0.1	1150	661	15	7.3	< 5	-	< 0.1	0.048	0.6	0.006	< 0.08	-	3.48	276	0.071	< 0.0005	0.53	9	109	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	12	8.60	39.5	118	426	< 0.1	< 1	2500	< 0.001	9000
8/Oct/21	Landowner 10	529	< 0.1	1080	618	14	3.0	< 5	-	< 0.1	0.063	2.7	0.015	-	-	4.43	238.0	0.173	< 0.0005	0.29	32	99	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	12	8.53	18.4	90.8	457	< 0.1	< 1	440000	< 0.001	9000
8/Oct/21	Landowner 10	537	< 0.1	1080	626	12	3.0	< 5	-	< 0.1	0.067	2.6	0.014	-	-	4.31	244.0	0.175	< 0.0005	0.29	31	100	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	10	8.48	19.2	91.1	460	< 0.1	< 1	440000	< 0.001	500
16/Jun/22	Landowner 20	514	< 0.1	1010	613	21	9.1	< 5	1.3	< 0.1	0.043	0.3	< 0.005	0.11	0.7	3.25	229	0.072	< 0.0005	0.49	4.5	88	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	18	8.65	47.0	99.3	449	< 0.1	< 1.0	-	< 0.001	500
18/Jun/22	Landowner 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	0	-	2200
18/Jun/22	Landowner 10	555	< 0.1	954	616	14	3.3	< 5	7.9	< 0.1	0.064	2.3	0.026	0.15	1.1	3.98	224	0.162	< 0.0005	0.25	29.2	90	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	12	8.52	18.0	90.6	470	< 0.1	-	-	< 0.001	-
20/Sep/22	Landowner 10	570	< 0.1	969	633	< 5	3.2	< 5	8.0	< 0.1	0.069	2.6	0.026	0.12	1.2	4.46	249	0.170	< 0.0005	0.26	30.7	102	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.35	19.6	88.6	467	< 0.1	< 1	13000	< 0.001	2200
20/Sep/22	Landowner 10	565	< 0.1	972	629	< 5	3.2	< 5	8.0	< 0.1	-	2.5	0.026	-	1.1	-	247	-	-	0.24	30.3	101	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.35	19.5	89.1	460	< 0.1	< 1	67000	-	2200
23/Sep/22	Landowner 20	519	< 0.1	1100	671	22	7.7	< 5	2.3	< 0.1	0.052	0.4	0.005	0.12	0.7	3.46	278	0.065	< 0.0005	0.52	7.4	105	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	19	8.66	44.5	105	455	< 0.1	< 1	100	< 0.001	2200
12/Jun/24	Landowner 10	568	< 0.1	1070	625	< 5	5.9	< 5	9.54	0.035	0.077	2.81	0.0265	< 0.05	1.29	4.71	238	0.179	0.0001	0.25	35.4	98	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.23	17.4	88.3	456	0.05	< 1	13000	< 0.0005	9000
17/Jun/24	Landowner 20	478	< 0.1	1130	648	20	14.4	< 5	2.66	0.008	0.056	0.50	0.00544	< 0.05	0.74	3.49	258	0.067	0.0001	0.53	8.7	100	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	16	8.70	38.0	117	424	< 0.01	< 1	500	< 0.0005	2200
11/Sep/24	Landowner 20	538	< 0.1	1100	648	17	9.1	< 5	2.61	0.003	0.064	0.49	0.00544	< 0.05	0.72	4.11	240	0.067	< 0.0001	0.48	8.5	88	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	14	8.59	35.7	113	469	< 0.01	< 1	100	< 0.0005	2200
14/Oct/21	Landowner 5	577	< 0.1	1140	710	< 5	4.0	< 5	-	< 0.1	0.030	48.7	0.233	< 0.08	-	4.51	170	0.51	< 0.0005	0.12	347	115	0.5	0.11	< 0.05	< 0.01	0.11	< 5	8.23	3.97	142	465	< 0.1	75	440000	< 0.001	2200
16/Jun/22	Landowner 5	505	< 0.1	1030	639	< 5	< 1.0	< 5	51.8	< 0.1	0.029	38.3	0.190	0.19	2.1	4.59	149	0.491	< 0.0005	0.15	287	108	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.14	3.83	149	467	< 0.1	75	< 1	< 0.001	500
22/Sep/22	Landowner 5	587	< 0.1	1110	697	< 5	< 1.0	< 5	46.7	< 0.1	0.035	40.9	0.207	0.14	2.7	5.21	166	0.518	< 0.0005	0.15	285	102	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.15	4.28	152	473	< 0.1	115000	67000	< 0.001	2200
23/Jun/23	Landowner 5	553	< 0.1	1110	664	< 5	6.1	< 5	51.1	0.012	0.037	37.1	0.207	< 0.05	2.28	4.44	148	0.468	< 0.0001	0.13	280	98	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.79	3.85	147	444	0.02	115000	67000	< 0.0005	9000
18/Sep/24	Landowner 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	67000	-	2200
18/Sep/24	Landowner 5	585	< 0.1	1120	704	< 5	< 1.0	< 5	53.6	0.022	0.031	39.8	0.211	< 0.05	2.38	4.99	135	0.472	< 0.0001	0.15	298	88	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.99	3.41	186	480	0.04	< 1	13000	< 0.0005	2200
18/Sep/24	Landowner 5	583	< 0.1	1110	709	< 5	< 1.0	< 5	53.9	0.024	0.032	41.0	0.214	< 0.05	2.43	5.16	140	0.472	< 0.0001	0.18	303	91	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.01	3.50	185	478	0.04	-	-	< 0.0005	-
8/Oct/21	Landowner 17	311	0.4	742	394	< 5	56.6	< 5	-	< 0.1	0.039	28.4	0.411	-	-	6.09	35.1	0.916	< 0.0005	0.10	344	118	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.82	0.82	25.9	255	0.2	< 1	67000	< 0.001	2200
18/Jun/22	Landowner 17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	0	-	2200
18/Jun/22	Landowner 17	339	0.3	651	382	< 5	56.6	< 5	77.7	< 0.1	0.040	23.4	0.334	0.15	2.7	5.47	27.2	0.970	< 0.0005	0.11	290	91	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.27	0.69	27.7	272	0.5	-	-	< 0.001	-
21/Sep/22	Landowner 17	313	0.3	704	363	< 5	49.6	< 5	76.3	0.3	0.042	24.0	0.316	< 0.08	2.6	5.60	30.9	1.03	< 0.0010	0.14	289	102	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.97	0.79	25.7	257	0.4	< 1	2500	< 0.001	9000
19/Sep/23	Landowner 17	345	0.4	731	392	< 5	57.9	< 5	79.5	0.386	0.044	25.3	0.345	< 0.05	2.76	5.48	30.8	0.912	0.0001	0.11	303	96	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.35	0.77	25.9	275	0.44	< 1	13000	< 0.0005	500
12/Sep/24	Landowner 17	350	0.2	763	400	< 5	53.6	< 5	88.0	0.358	0.049	27.5	0.336	< 0.05	2.77	6.44	32.6	1.15	< 0.0001	0.08	333	106	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	7.78	0.78	22.9	287	0.40	< 1	13000	< 0.0005	2200
7/Oct/21	Landowner 32	480	< 0.1	1020	596	< 5	43.4	< 5	-	< 0.1	0.088	54.2	< 0.005	< 0.08	-	7.10	40.2	1.00	< 0.0005	0.33	533	114	33.9	7.66	< 0.05	< 0.01	7.66	< 5	8.09	0.76	61.2	394	< 0.1	< 1	13000	< 0.001	9000
18/Jun/22	Landowner 32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	0	-	2200
18/Jun/22	Landowner 32	527	< 0.1	898	567	< 5	31.7	< 5	102	< 0.1	0.083	45.5	< 0.005	0.16	3.0	6.07	32.8	0.999	< 0.0005	0.25	442	91	34.9	7.88	< 0.05	< 0.01	7.88	< 5	8.01	0.68	58.2	424	0.2	-	-	< 0.001	-
14/Oct/21	Landowner 25	335	< 0.1	660	361	< 5	7.0	< 5	-	< 0.1	0.045	30.4	< 0.005	< 0.08	-	4.97	36.2	0.819	< 0.0005	0.15	300	115	14.1	3.19	< 0.05	< 0.01	3.19	< 5	7.94	0.91	34.9	275	< 0.1	< 1	67000	< 0.001	500
14/Oct/21	Landowner 25	337	< 0.1	656	358	< 5	6.2	< 5	-	< 0.1	0.046	30.4	< 0.005	< 0.08	-	4.82	34.2	0.818	< 0.0005	0.15	298	113	13.3	3.00	< 0.05	< 0.01	3.00	< 5	7.94	0.86	35.3	276	< 0.1	< 1	67000	< 0.001	2200
17/Jun/22	Landowner 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
17/Jun/22	Landowner 25	382	< 0.1	593	370	< 5	6.2	< 5	71.3	< 0.1	0.038	26.3	< 0.005	0.09	2.8	4.65	29.3	0.835	< 0.0005	0.17	286	96	12.4	2.80	< 0.05	< 0.01	2.80	< 5	8.13	0.75	34.0	307	< 0.1	-	< 1	< 0.001	500
17/Jun/22	Landowner 25	381	< 0.1	639	370	< 5	6.4	< 5	71.4	< 0.1	0.040	25.6	< 0.005	< 0.08	3.0	4.66	29.7	0.831	< 0.0005	0.17	284	96	12.5	2.82	< 0.05	< 0.01	2.82	< 5	8.00	0.77	34.2	305	< 0.1	-	100	< 0.001	500
17/Jun/22	Landowner 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	-	-	-
20/Sep/22	Landowner 25	388	< 0.1	604	377	< 5	6.5	< 5	66.7	< 0.1	0.047	29.0	< 0.005	0.12	3.3	5.37	33.5	0.889	< 0.0010	0.13	286	97	12.3	2.78	< 0.20	< 0.01	2.78	< 5	8.05	0.86	35.2	312	< 0.1	< 1	500	< 0.001	< 1
16/Oct/21	Landowner 18	302	< 0.1	590	297	< 5	1.3	< 5	-	< 0.1	0.034	18.4	0.157	< 0.08	-	5.24	48.9	1.41	< 0.0005	< 0.01	213	118	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.34	1.46	22.9	252	0.2	< 1	67000	< 0.001	2200
15/Jun/22	Landowner 18	278	< 0.1	521	277	8	1.1	< 5	48.3	0.1	0.030	16.9	0.142	0.15	1.8	4.38	40.2	1.36	< 0.0005	0.06	190	105	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	6	8.42	1.27	23.9	240	0.2	-	-	< 0.001	-
19/Sep/22	Landowner 18	344	< 0.1	490	308	< 5	1.1	< 5	48.6	0.3	0.027	18.3	0.130	0.13	2.1	5.14	44.9	1.21	< 0.0025	0.08	197	96	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.13	1.39	24.2	278	0.4	< 1	2500	< 0.001	500
16/Jun/24	Landowner 18	339	< 0.1	549	319	< 5	1.3	< 5	57.2	0.294	0.039	17.9	0.125	< 0.05	2.02	4.60	44.0	1.07	< 0.0001	0.06	217	102	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	8.07	1.30	29.7	270	2.31	5	13000	< 0.0005	2200
17/Jun/21	Landowner 6	427	0.2	772	438	< 5	31.1	< 5	-	< 0.1	0.05	38.9	< 0.005	< 0.08	-	6.97	19.6	0.537	< 0.0005	0.13	402	103	10.7	2.42	< 0.05	< 0.01	2.42	< 5	8.02	0.43	28.4	350	< 0.1	-	13000	< 0.001	-
4/Oct/21	Landowner 6	466	0.2	814	467	< 5	27.4	< 5	-	< 0.1	0.043	43.0	< 0.005	< 0.08	-	6.00	19.3	0.553	< 0.0005	0.18	442	106	11.3	2.55	< 0.05	< 0.01	2.55	< 5	8.02	0.40	28.0	382	< 0.1	20	440000	< 0.001	2200
14/Jun/22	Landowner 6	391	0.163	753	406	< 5	25.6	< 5	91.0	< 0.1	0.046	37.4	< 0.005	< 0.08	2.1	5.78	18.5	0.598	< 0.0005	0.21	381	107	11.8	2.67	< 0.05	< 0.01	2.67	< 5	8.28	0.41	27.8	322	-	1400	< 1 0	< 0.001	2200
19/Sep/22	Landowner 6	470	0.1	824	494	< 5	36.7	< 5	98.0	< 0.1	0.042	44.2	< 0.005	0.15	2.7	7.12	20.3	0.573	< 0.0010	0.19	427	96	25.7	5.81	< 0.05	< 0.01	5.81	< 5	7.90	0.43	34.9	379	< 0.1	115000	67000	< 0.001	2200
15/Sep/23	Landowner 6	440	0.2	817	436	< 5	26.3	< 5	92.5	0.103	0.034	38.3	0.00388	< 0.05	2.36	5.40	19.0	0.555	0.0002	0.15	389	99	12.3	2.78	< 0.05	< 0.01	2.78	< 5	7.78	0.42	28.6	361	0.60	1400	67000	< 0.0005	2200
12/Jun/24	Landowner 6	451	0.2	857	456	< 5	30.7	< 5	96.4	0.078	0.061	41.4	0.00795	< 0.05	2.38	6.30	19.1	0.549	< 0.0001	0.14	411	100	14.4	3.25	< 0.05	< 0.01	3.25	< 5	7.47	0.41	30.0	359	2.95	325	13000	< 0.0005	9000
10/Sep/24	Landowner 6	473	< 0.1	834	476	< 5	30.1	< 5	102	0.038	0.052	44.2	0.00218	< 0.05	2.49	7.00	20.2	0.589	0.0007	0.15	437	102	13.2	2.98	< 0.05	< 0.01	2.98	< 5	7.65	0.42	31.3	387	0.68	1400	13000	< 0.0005	2200
7/Oct/21	Landowner 22	520	< 0.1	1160	695	46	< 1.0	< 5	-	< 0.1	0.053	0.3	< 0.005	< 0.08	-	3.46	279	0.044	< 0.0005	0.90	6	99	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	38	8.89	49.6	111	493	< 0.1	< 1	500	< 0.001	2200
15/Jun/22	Landowner 22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1	0	-	500
15/Jun/22	Landowner 22	443	< 0.1	1080	605	31	< 1.0	< 5	1.6	< 0.1	0.043	< 0.2	< 0.005	0.18	< 0.6	2.94	244	0.043	< 0.0005	1.20	4.0	100	0.6	0.14	< 0.05	< 0.01	0.14	26	8.80	53.0	110	415	< 0.1	-	-	< 0.001	-
20/Sep/22	Landowner 22	525	< 0.1	1030	661	30	< 1.0	< 5	1.7	< 0.1	0.050	0.3	< 0.005	0.17	< 0.6	3.23	271	0.046	< 0.0005	0.97	5.5	101	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	25	8.81	50.3	100	471	< 0.1	< 1	500	< 0.001	2200
22/Jun/23	Landowner 22	481	< 0.1	1100	638	41	4.8	< 5	1.54	0.008	0.051	0.22	0.00830	< 0.05	0.57	2.8	250	0.046	< 0.0001	1.10	4.8	95	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	34	8.85	49.9	103	463	0.05	75	13000	< 0.0005	2200
14/Sep/23	Landowner 22	539	< 0.1	1100	627	20	< 1.0	< 5	1.67	0.006	0.058	0.23	0.00517	< 0.05	0.57	2.5	239	0.045	0.0002	0.78	5.1	90	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	17	8.56	45.9	100	462	< 0.01	< 1	100	< 0.0005	9000
12/Jun/24	Landowner 22	512	< 0.1	1120	637	26	2.0	< 5	1.58	0.006	0.058	0.23	0.00364	< 0.05	0.59	3.29	247	0.042	< 0.0001	1.00	4.9	93	< 0.5	< 0.02	0.11	0.03	0.03	22	8.72	48.6	108	453	< 0.01	< 1	500	< 0.0005	9000
12/Sep/24	Landowner 22	537	< 0.1	1110	621	29	< 1.0	< 5	1.63	< 0.001	0.065	0.24	0.00348	< 0.05	0.59	3.35	235	0.044	< 0.0001	0.98	5.1	88	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	25	8.71	45.4	90.7	489	0.02	< 1	500	< 0.0005	9000

Date (dd-mmm-yy)	Lanowner	Bicarbonate	Bromide	Electrical Conductivity	Calculated TDS	Carbonate	Chloride	Hydroxide	Dissolved Calcium	Dissolved Iron	Dissolved Lithium	Dissolved Magnesium	Dissolved Manganese	Dissolved Phosphorus	Dissolved Potassium	Dissolved Silicon	Dissolved Sodium	Dissolved Strontium	Dissolved Tin	Fluoride	Hardness	% Ion Balance	Nitrate	Nitrate-N	Nitrite	Nitrite-N	Nitrate + Nitrite (as N)	p - Alkalinity (as CaCO3)	pH	Sodium Adsorption Ratio	Sulfate	T - Alkalinity (as CaCO3)	Total Iron	Sulfate Reducing Bacteria	Slime Forming Bacteria	Dissolved Vanadium	Iron Related Bacteria
	None	mg/L	mg/L	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	%	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH Units	None	mg/L	mg/L	mg/L	cfu/ml	cfu/ml	mg/L	cfu/ml
17/Oct/21	Enhance Monitoring Well	882	< 0.1	1710	1170	< 5	48.3	< 5	-	< 0.1	0.134	102	0.019	0.08	-	10.66	77.2	1.78	0.0008	0.18	1020	112	1.6	0.36	< 0.05	< 0.01	0.36	< 5	7.75	1.05	263	714	131	115000	4400000	0.003	500
18/Jun/22	Enhance Monitoring Well	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6000	0	-	2200
18/Jun/22	Enhance Monitoring Well	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6000	0	-	2200
18/Jun/22	Enhance Monitoring Well	678	< 0.1	1360	935	< 5	48.3	< 5	167	< 0.1	0.112	75.8	< 0.005	0.16	1.8	8.51	57.8	1.38	< 0.0005	0.31	729	97	24.1	5.44	< 0.05	< 0.01	5.44	< 5	8.24	0.93	227	545	0.7	-	-	< 0.001	-
18/Jun/22	Enhance Monitoring Well	641	< 0.1	1440	922	< 5	51.5	< 5	163	< 0.1	0.114	73.3	< 0.005	0.17	1.8	8.52	57.3	1.40	< 0.0005	0.32	709	97	28.5	6.44	< 0.05	< 0.01	6.44	< 5	7.99	0.94	231	525	4.0	-	-	< 0.001	-
20/Sep/22	Enhance Monitoring Well	763	< 0.1	1530	997	< 5	50.0	< 5	167	< 0.1	0.126	78.5	< 0.005	0.15	1.9	10.6	67.3	1.30	< 0.0025	0.28	740	93	17.6	3.98	< 0.05	< 0.01	3.98	< 5	7.97	1.08	239	613	< 0.1	1400	4400000	< 0.001	9000
13/Sep/23	Enhance Monitoring Well	697	< 0.1	1500	869	< 5	43.1	< 5	126	0.387	0.089	59.1	0.0286	0.05	2.18	9.16	61.8	1.04	0.0002	0.38	558	80	33.9	7.66	< 0.05	< 0.01	7.66	< 5	7.46	1.14	200	571	20.6	27000	2500	0.0005	2200
16/Jun/24	Enhance Monitoring Well	603	< 0.1	1350	829	< 5	47.1	< 5	145	0.033	0.143	68.7	0.00160	< 0.05	1.56	8.62	55.1	0.901	0.0001	0.29	645	100	71.1	16.1	< 0.05	< 0.01	16.1	< 5	7.69	0.94	144	484	8.31	27000	-	< 0.0005	-
10/Sep/24	Enhance Monitoring Well	650	< 0.1	1300	795	< 5	34.8	< 5	132	0.016	0.124	68.4	0.00175	< 0.05	2.05	9.10	57.6	0.889	0.0007	0.26	611	98	64.0	14.5	< 0.05	< 0.01	14.5	< 5	7.70	1.01	116	533	5.71	14000	4400000	< 0.0005	350000
9/Oct/19		< 5	< 0.1	< 5	< 0.6	< 5	< 1	< 5	-	< 0.1	< 0.001	< 0.2	< 0.005	< 0.08	-	< 0.032	< 0.6	< 0.001	< 0.0005	< 0.01	< 1	13	< 0.1	< 0.02	< 0.05	< 0.01	< 0.02	< 5	6.26	0	< 1	< 5	< 0.1	-	-	< 0.001	-
9/Oct/19		< 5	< 0.1	< 5	< 0.6	< 5	< 1	< 5	-	< 0.1	< 0.001	< 0.2	< 0.005	< 0.08	-	< 0.032	< 0.6	< 0.001	< 0.0005	< 0.01	< 1	13	< 0.1	< 0.02	< 0.05	< 0.01	< 0.02	< 5	5.89	0	< 1	< 5	< 0.1	-	-	< 0.001	-
22/Jul/20		< 5	< 0.1	< 5	< 0.6	< 5	< 1.0	< 5	-	< 0.1	< 0.001	< 0.2	< 0.005	-	-	-	< 0.6	< 0.001	< 0.0005	< 0.01	< 1	13	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	5.1	0	< 1.0	< 5	< 0.1	< 1	-	-	< 1
28/Oct/20		< 5	< 0.1	< 5	< 0.6	< 5	< 1.0	< 5	-	< 0.1	< 0.001	< 0.2	< 0.005	-	-	< 0.032	< 0.6	< 0.001	< 0.0005	< 0.01	< 1	13	< 0.5	< 0.02	< 0.05	< 0.01	< 0.02	< 5	5.23	0	< 1.0	< 5	< 0.1	< 1	-	< 0.001	< 1

INTEGRATED SUSTAINABILITY

Table 2: Groundwater Analytical Results: Dissolved Metals

Client Enhance Energy **Date:** Jan.8, 25 **Rev #:** 3

Date (dd-mmm-yy)	Landowner	Dissolved Aluminum mg/L	Dissolved Antimony mg/L	Dissolved Arsenic mg/L	Dissolved Barium mg/L	Dissolved Beryllium mg/L	Dissolved Boron mg/L	Dissolved Cadmium mg/L	Dissolved Chromium mg/L	Dissolved Cobalt mg/L	Dissolved Copper mg/L	Dissolved Iron mg/L	Dissolved Lead mg/L	Dissolved Lithium mg/L	Dissolved Manganese mg/L	Dissolved Molybdenum mg/L	Dissolved Nickel mg/L	Dissolved Phosphorus mg/L	Dissolved Selenium mg/L	Dissolved Silicon mg/L	Dissolved Silver mg/L	Dissolved Sodium mg/L	Dissolved Strontium mg/L	Dissolved Thallium mg/L	Dissolved Tin mg/L	Dissolved Titanium mg/L	Dissolved Uranium mg/L	Dissolved Vanadium mg/L	Dissolved Zinc mg/L
8/Aug/19	Landowner 2	0.008	< 0.001	< 0.001	0.06	< 0.001	0.07	< 0.000016	< 0.001	< 0.0009	0.0095	< 0.1	< 0.0005	0.051	< 0.005	0.001	< 0.003	< 0.08	0.0043	4.63	< 0.00005	31.4	0.719	< 0.0001	0.0043	0.001	0.009	< 0.001	0.015
9/Oct/19	Landowner 2	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.05	< 0.000016	< 0.001	< 0.0009	0.0094	< 0.1	< 0.0005	0.045	< 0.005	0.001	< 0.003	< 0.08	0.0038	5.08	0.0001	31.7	0.679	< 0.0001	0.0014	< 0.001	0.008	< 0.001	0.013
7/Oct/21	Landowner 2	0.034	< 0.001	< 0.001	0.06	< 0.001	0.05	< 0.000016	< 0.001	< 0.0009	0.0111	< 0.1	< 0.0005	0.043	< 0.005	0.001	< 0.003	< 0.08	< 0.0005	5.86	< 0.0001	36.5	0.688	< 0.0001	< 0.0005	0.002	0.009	< 0.001	0.035
7/Oct/21	Landowner 2	0.006	< 0.001	< 0.001	0.06	< 0.001	0.06	< 0.000016	< 0.001	< 0.0009	0.0114	< 0.1	< 0.0005	0.045	< 0.005	0.001	< 0.003	< 0.08	< 0.0005	5.81	0.0001	33.9	0.745	< 0.0001	< 0.0005	0.003	0.009	< 0.001	0.036
15/Jun/22	Landowner 2	< 0.004	< 0.001	< 0.001	0.06	< 0.0005	0.06	0.000018	< 0.0005	< 0.0009	0.0265	< 0.1	0.0001	0.044	< 0.005	0.001	< 0.003	0.19	0.0038	5.23	< 0.00005	31.0	0.790	< 0.0001	< 0.0005	< 0.001	0.008	< 0.001	0.054
20/Sep/22	Landowner 2	< 0.004	< 0.001	< 0.001	0.06	< 0.0005	0.07	< 0.000032	< 0.0005	< 0.0009	0.0022	< 0.1	< 0.0001	0.051	< 0.005	0.001	< 0.003	0.13	0.0042	5.99	< 0.00005	33.0	0.785	< 0.0001	< 0.0010	< 0.002	0.008	< 0.001	0.019
21/Jun/23	Landowner 2	< 0.004	< 0.001	< 0.001	0.06	< 0.00005	0.050	< 0.000016	< 0.0005	< 0.00006	0.0077	0.003	0.00012	0.043	0.00010	0.001	< 0.0004	< 0.05	0.00402	4.77	< 0.00003	29.9	0.722	< 0.00001	< 0.0001	< 0.001	0.00831	< 0.0005	0.005
13/Sep/23	Landowner 2	0.008	< 0.001	< 0.001	0.06	< 0.00005	0.063	< 0.000016	0.0005	< 0.00006	0.0039	0.003	0.00007	0.056	0.00015	0.001	0.0006	< 0.05	0.00399	4.85	< 0.00003	30.4	0.661	< 0.00001	< 0.0001	< 0.001	0.00840	< 0.0005	< 0.004
12/Jun/24	Landowner 2	0.012	< 0.001	< 0.001	0.06	< 0.00005	0.062	< 0.000016	< 0.0005	< 0.00006	0.0081	0.004	0.00008	0.055	0.00011	< 0.001	0.0005	< 0.05	0.00408	5.77	< 0.00003	31.9	0.759	< 0.00001	< 0.0001	< 0.001	0.00704	< 0.0005	0.005
12/Jun/24	Landowner 2	0.009	< 0.001	< 0.001	0.06	< 0.00005	0.062	< 0.000016	0.0012	0.00251	0.0098	0.011	0.00007	0.055	0.00016	0.001	0.0005	< 0.05	0.00408	5.77	< 0.00003	32.0	0.768	< 0.00001	< 0.0001	< 0.001	0.00687	< 0.0005	0.006
11/Sep/24	Landowner 2	0.012	< 0.001	< 0.001	0.06	< 0.00005	0.071	< 0.000016	< 0.0005	< 0.00006	0.0074	0.003	0.00012	0.064	0.00022	0.001	0.0006	< 0.05	0.00460	6.61	< 0.00003	32.9	0.791	< 0.00001	< 0.0001	< 0.001	0.00715	< 0.0005	0.028
8/Aug/19	Landowner	0.005	< 0.001	0.02	0.07	< 0.001	0.08	< 0.000016	< 0.001	0.0012	0.0015	1.1	< 0.0005	0.036	0.426	0.003	< 0.003	< 0.08	0.0007	4.55	< 0.00005	47.6	0.53	< 0.0001	0.0016	< 0.001	0.003	< 0.001	0.008
8/Oct/19	Landowner	0.019	< 0.001	0.023	0.08	< 0.001	0.08	< 0.000016	< 0.001	< 0.0009	0.0027	1.1	< 0.0005	0.038	0.443	0.004	< 0.003	< 0.08	0.0009	4.66	< 0.00005	46.5	0.563	< 0.0001	0.0019	0.002	0.003	< 0.001	0.007
7/Aug/19	Landowner 1	0.01	< 0.001	< 0.001	0.06	< 0.001	0.06	0.000025	< 0.001	< 0.0009	0.022	< 0.1	< 0.0005	0.045	0.014	0.003	< 0.003	< 0.08	0.0018	4.55	< 0.00005	38.6	0.721	< 0.0001	< 0.0005	0.002	0.007	< 0.001	0.04
7/Aug/19	Landowner 1	0.011	< 0.001	< 0.001	0.06	< 0.001	0.06	0.00002	< 0.001	< 0.0009	0.0217	< 0.1	< 0.0005	0.045	0.014	0.002	< 0.003	< 0.08	0.0018	4.56	< 0.00005	38.3	0.719	< 0.0001	< 0.0005	0.001	0.007	< 0.001	0.041
9/Oct/19	Landowner 1	0.009	< 0.001	< 0.001	0.05	< 0.001	0.05	< 0.000016	< 0.001	< 0.0009	0.012	< 0.1	< 0.0005	0.042	0.015	0.002	< 0.003	< 0.08	0.0012	4.55	0.00018	37.6	0.744	< 0.0001	0.0017	< 0.001	0.007	< 0.001	0.024
7/Oct/21	Landowner 1	0.005	< 0.001	< 0.001	0.06	< 0.001	0.06	< 0.000016	< 0.001	< 0.0009	0.0201	< 0.1	< 0.0005	0.041	0.011	0.002	< 0.003	-	< 0.0005	5.60	< 0.0001	37.5	0.775	< 0.0001	< 0.0005	0.002	0.008	< 0.001	0.025
17/Jun/22	Landowner 1	< 0.004	< 0.001	< 0.001	0.05	< 0.0005	0.07	< 0.00016	< 0.0010	< 0.0009	0.0067	< 0.1	< 0.0005	0.045	0.008	0.002	< 0.003	0.16	< 0.005	4.68	< 0.00010	34.7	0.696	< 0.0001	< 0.005	< 0.01	0.004	< 0.001	0.016
19/Sep/22	Landowner 1	< 0.004	< 0.001	< 0.001	0.06	< 0.0005	0.05	< 0.000016	< 0.0005	< 0.0009	0.0103	< 0.1	< 0.0001	0.039	< 0.005	0.002	< 0.003	0.11	< 0.0005	5.45	< 0.00005	39.4	0.700	< 0.0001	< 0.0005	< 0.001	0.007	< 0.001	0.013
22/Jun/23	Landowner 1	< 0.004	< 0.001	< 0.001	0.06	< 0.00005	0.055	< 0.000016	< 0.0005	< 0.00006	0.0087	0.002	0.00012	0.043	0.00944	0.002	< 0.0004	< 0.05	0.00034	4.66	< 0.00003	36.7	0.712	< 0.00001	< 0.0001	< 0.001	0.00806	< 0.0005	0.019
13/Sep/23	Landowner 1	0.023	< 0.001	< 0.001	0.06	< 0.00005	0.060	< 0.000016	< 0.0005	< 0.00006	0.0155	0.013	0.00016	0.049	0.00889	0.002	< 0.0004	< 0.05	0.00030	4.36	< 0.00003	34.6	0.645	< 0.00001	< 0.0001	< 0.001	0.00723	< 0.0005	0.016
11/Jun/24	Landowner 1	0.015	< 0.001	< 0.001	0.06	< 0.00005	0.069	< 0.000016	< 0.0005	< 0.00006	0.0108	0.015	0.00006	0.057	0.00521	0.002	< 0.0004	< 0.05	0.00023	5.19	< 0.00003	39.2	0.783	< 0.00001	< 0.0001	< 0.001	0.00760	< 0.0005	0.022
18/Sep/24	Landowner 1	0.006	< 0.001	< 0.001	0.06	< 0.00005	0.056	< 0.000016	< 0.0005	< 0.00006	0.0083	0.003	0.00011	0.043	0.00648	0.002	< 0.0004	< 0.05	0.00020	5.33	< 0.00003	37.8	0.751	< 0.00001	< 0.0001	< 0.001	0.00648	< 0.0005	0.019
7/Aug/19	Landowner 25	< 0.004	< 0.001	< 0.001	0.07	< 0.001	0.06	< 0.000016	< 0.001	< 0.0009	0.0028	< 0.1	< 0.0005	0.049	< 0.005	0.002	< 0.003	< 0.08	0.0024	4.44	< 0.00005	33.5	0.797	< 0.0001	0.0011	0.001	0.008	< 0.001	0.024
9/Oct/19	Landowner 25	0.028	< 0.001	< 0.001	0.06	< 0.001	0.05	< 0.000016	< 0.001	< 0.0009	0.006	< 0.1	< 0.0005	0.044	< 0.005	0.002	< 0.003	< 0.08	0.002	4.61	0.00009	32.2	0.799	< 0.0001	0.002	< 0.001	0.008	< 0.001	0.03
6/Oct/21	Landowner 25	0.007	< 0.001	< 0.001	0.07	< 0.001	0.07	< 0.000016	< 0.001	< 0.0009	< 0.0008	0.7	< 0.0005	0.054	0.128	0.001	< 0.003	< 0.08	0.0005	6.09	< 0.0001	58.3	1.17	< 0.0001	< 0.0005	0.003	< 0.001	< 0.001	0.047
7/Aug/19	Landowner 33	< 0.004	< 0.001	< 0.001	0.21	< 0.001	0.07	< 0.000016	< 0.001	< 0.0009	0.0013	< 0.1	< 0.0005	0.041	< 0.005	0.002	< 0.003	< 0.08	0.0024	4.6	< 0.00005	40.1	0.483	< 0.0001	0.0015	0.002	0.005	< 0.001	< 0.005
8/Oct/19	Landowner 33	< 0.004	< 0.001	< 0.001	0.21	< 0.001	0.11	< 0.000016	< 0.001	< 0.0009	0.0015	< 0.1	< 0.0005	0.044	< 0.005	0.002	< 0.003	< 0.08	0.002	4.44	0.00008	38.3	0.497	< 0.0001	0.0015	0.005	0.006	< 0.001	< 0.005
8/Oct/19	Landowner 33	0.007	< 0.001	< 0.001	0.19	< 0.001	0.06	< 0.000016	< 0.001	< 0.0009	0.0013	< 0.1	< 0.0005	0.044	< 0.005	0.002	< 0.003	< 0.08	0.0015	4.44	0.00033	39.7	0.491	< 0.0001	0.0021	0.001	0.005	< 0.001	< 0.005
16/Jun/21	Landowner 33	0.025	< 0.001	< 0.001	0.18	< 0.001	0.06	< 0.000016	< 0.001	< 0.0009	0.0027	< 0.1	< 0.0005	-	< 0.005	0.002	< 0.003	< 0.08	< 0.0005	-	< 0.0001	40	-	< 0.0001	-	0.002	0.005	-	< 0.005
7/Oct/21	Landowner 33	0.006	< 0.001	< 0.001	0.20	< 0.001	0.07	0.000017	< 0.001	< 0.0009	0.0036	< 0.1	< 0.0005	0.037	< 0.005	0.001	< 0.003	< 0.08	< 0.0005	5.63	< 0.0001	42.1	0.484	< 0.0001	< 0.0005	0.003	0.005	< 0.001	0.013
15/Jun/22	Landowner 33	< 0.004	< 0.001	< 0.001	0.18	< 0.0005	0.06	< 0.000016	< 0.0005	< 0.0009	0.0031	< 0.1	0.0003	0.039	< 0.005	0.001	< 0.003	0.16	0.0008	4.68	< 0.00005	35.6	0.480	< 0.0001	< 0.0005	< 0.001	0.004	< 0.001	0.005
21/Sep/22	Landowner 33	< 0.004	< 0.001	< 0.001	0.19	< 0.0005	0.07	< 0.000016	< 0.0005	< 0.0009	0.0078	< 0.1	0.0004	0.044	< 0.005	0.001	< 0.003	< 0.08	0.0010	5.04	< 0.00005	38.6	0.507	< 0.0001	< 0.0005	< 0.001	0.004	< 0.001	0.011
21/Jun/23	Landowner 33	< 0.004	< 0.001	< 0.001	0.18	< 0.00005	0.061	< 0.000016	< 0.0005	< 0.00006	0.0055	0.001	0.00030	0.036	0.00014	0.002	< 0.0004	< 0.05	0.00101	4.35	< 0.00003	37.4	0.464	< 0.00001	< 0.0001	< 0.001	0.00434	< 0.0005	0.007
19/Sep/23	Landowner 33	0.014	< 0.001	< 0.001	0.19	< 0.00005	0.069	< 0.000016	< 0.0005	< 0.00006	0.0043	0.005 0.006	0.00028	0.041	0.00006	0.001	< 0.0004	< 0.05	0.00098	4.81	< 0.00003	41.7	0.466	< 0.00001	< 0.0001	< 0.001	0.00452	< 0.0005	0.004
19/Sep/23	Landowner 33	< 0.004	< 0.001	< 0.001	0.19	< 0.00005	0.071	< 0.000016	< 0.0005	0.00006	0.0037	0.001	0.00027	0.044	< 0.00005	0.001	< 0.0004	< 0.05	0.00101	4.84	< 0.00003	41.4	0.480	< 0.00001	< 0.0001	< 0.001	0.00414	< 0.0005	< 0.004
11/Jun/24	Landowner 33	0.008	< 0.001	< 0.001	0.18	< 0.00005	0.084	< 0.000016	< 0.0005	0.00022	0.0049	0.005	0.00007	0.049	0.00010	0.001	< 0.0004	< 0.05	0.00093	5.01	< 0.00003	41.1	0.430	< 0.00001	< 0.0001	< 0.001	0.00410	< 0.0005	0.007
10/Sep/24	Landowner 33	0.008	< 0.001	< 0.001	0.18	< 0.00005	0.073	0.000017	< 0.0005	< 0.00006	0.0106	< 0.001	0.00036	0.045	0.00020	0.002	0.0005	< 0.05	0.00101	5.77	< 0.00003	42.3	0.461	< 0.00001	0.0003	< 0.001	0.00312	< 0.0005	0.018
15/Jun/22	Landowner 33	< 0.004	< 0.001	< 0.001	0.18	< 0.0005	0.06	< 0.000016	< 0.0005	< 0.0009	0.0062	< 0.1	0.0004	0.039	< 0.005	0.001	< 0.003	0.14	0.0009	4.70	< 0.00005	36.0	0.473	< 0.0001	< 0.0005	< 0.001	0.004	< 0.001	0.011
9/Aug/19	Landowner	0.016	< 0.001	< 0.001	< 0.05	< 0.001	0.21	< 0.000016	< 0.001	< 0.0009	0.0035	0.3	< 0.0005	0.085	0.095	0.002	< 0.003	< 0.08	< 0.0005	3.88	< 0.00005	184	0.661	< 0.0001	0.0023	< 0.001	< 0.001	< 0.001	0.011
9/Aug/19	Landowner	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	< 0.01	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	< 0.001	< 0.005	< 0.001	< 0.003	< 0.08	< 0.0005	< 0.032	< 0.00005	< 0.6	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.005
9/Aug/19	Landowner	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	< 0.01	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	< 0.001	< 0.005	< 0.001	< 0.003	< 0.08	< 0.0005	< 0.032	< 0.00005	< 0.6	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.005
8/Oct/19	Landowner	0.007	< 0.001	< 0.001	< 0.05	< 0.001	0.23	< 0.000016	< 0.001	< 0.0009	0.0009	2.4	< 0.0005	0.087	0.182	0.002	< 0.003	< 0.08	0.0006	3.93	< 0.00005	213	0.472	< 0.0001	0.0029	0.004	< 0.001	< 0.001	0.022

Date (dd-mmm-yy)	Landowner	Dissolved Aluminum mg/L	Dissolved Antimony mg/L	Dissolved Arsenic mg/L	Dissolved Barium mg/L	Dissolved Beryllium mg/L	Dissolved Boron mg/L	Dissolved Cadmium mg/L	Dissolved Chromium mg/L	Dissolved Cobalt mg/L	Dissolved Copper mg/L	Dissolved Iron mg/L	Dissolved Lead mg/L	Dissolved Lithium mg/L	Dissolved Manganese mg/L	Dissolved Molybdenum mg/L	Dissolved Nickel mg/L	Dissolved Phosphorus mg/L	Dissolved Selenium mg/L	Dissolved Silicon mg/L	Dissolved Silver mg/L	Dissolved Sodium mg/L	Dissolved Strontium mg/L	Dissolved Thallium mg/L	Dissolved Tin mg/L	Dissolved Titanium mg/L	Dissolved Uranium mg/L	Dissolved Vanadium mg/L	Dissolved Zinc mg/L
8/Aug/19	Landowner 4	0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.13	< 0.000016	< 0.001	< 0.0009	0.0215	1.4	0.0013	0.059	0.15	0.001	< 0.003	< 0.08	< 0.0005	4.96	< 0.00005	58.3	0.884	< 0.0001	0.0024	0.002	< 0.001	< 0.001	0.026
8/Oct/19	Landowner 4	0.017	< 0.001	< 0.001	< 0.05	< 0.001	0.13	< 0.000016	< 0.001	< 0.0009	0.0009	2.1	< 0.0005	0.062	0.174	0.001	< 0.003	< 0.08	0.0008	5.27	< 0.00005	55.7	0.924	< 0.0001	0.002	0.003	< 0.001	< 0.001	0.014
8/Oct/21	Landowner 4	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.11	0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	0.051	0.214	0.001	< 0.003	-	< 0.005	6.27	< 0.0001	60.6	0.912	< 0.0001	< 0.0005	0.005	< 0.001	< 0.001	0.019
18/Jun/22	Landowner 4	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.11	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.052	0.172	0.001	< 0.003	0.13	< 0.0005	5.58	< 0.00005	51.6	0.945	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	0.006
19/Sep/22	Landowner 4	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.11	< 0.000032	< 0.0005	< 0.0009	< 0.0008	1.1	< 0.0001	0.049	0.182	0.001	< 0.003	0.10	< 0.0010	6.56	< 0.00005	57.7	0.922	< 0.0001	< 0.0010	< 0.002	< 0.001	< 0.001	0.007
21/Jun/23	Landowner 4	< 0.004	< 0.001	< 0.001	< 0.05	< 0.00005	0.094	< 0.000016	< 0.0005	< 0.00006	< 0.0003	1.08	< 0.00005	0.049	0.179	0.001	< 0.0004	< 0.05	< 0.00005	5.28	< 0.00003	50.0	0.887	< 0.00001	< 0.0001	< 0.001	0.00041	< 0.0005	0.006
13/Sep/23	Landowner 4	0.022	< 0.001	< 0.001	< 0.05	< 0.00005	0.119	< 0.000016	0.0006	0.00077	0.0005	0.987	< 0.00005	0.064	0.172	0.001	< 0.0004	< 0.05	< 0.00005	4.90	< 0.00003	49.4	0.770	< 0.00001	0.0001	< 0.001	0.00041	< 0.0005	0.006
12/Sep/24	Landowner 4	0.023	< 0.001	< 0.001	< 0.05	< 0.00005	0.117	< 0.000016	< 0.0005	< 0.00006	< 0.0003	1.33	< 0.00005	0.062	0.176	0.001	< 0.0004	< 0.05	< 0.00005	6.64	< 0.00003	55.5	0.951	< 0.00001	< 0.0001	< 0.001	0.00031	< 0.0005	0.005
8/Aug/19	Landowner 31	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.18	< 0.000016	< 0.001	< 0.0009	< 0.0008	0.1	< 0.0005	0.051	0.036	0.003	< 0.003	< 0.08	< 0.0005	2.1	< 0.00005	148	0.108	< 0.0001	0.003	< 0.001	< 0.001	< 0.001	< 0.005
8/Oct/21	Landowner 31	0.006	< 0.001	0.003	< 0.05	< 0.001	0.18	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	0.0039	0.045	0.615	0.001	< 0.003	-	0.0009	4.71	< 0.0001	136.0	0.459	< 0.0001	< 0.0005	0.003	0.002	< 0.001	0.019
17/Jun/22	Landowner 31	< 0.004	< 0.001	0.002	< 0.05	< 0.0005	0.17	< 0.00016	< 0.0010	< 0.0009	< 0.0008	< 0.1	< 0.0005	0.041	0.595	0.001	< 0.003	0.16	< 0.005	4.55	< 0.00010	106	0.519	< 0.0001	< 0.005	< 0.01	0.003	< 0.001	< 0.010
19/Sep/22	Landowner 31	< 0.004	< 0.001	0.002	< 0.05	< 0.0005	0.14	< 0.000016	< 0.0005	< 0.0009	< 0.0008	4.2	< 0.0001	0.040	0.502	0.002	< 0.003	0.11	< 0.0005	5.23	< 0.00005	139	0.500	< 0.0001	< 0.0005	< 0.001	0.001	< 0.001	< 0.004
19/Sep/22	Landowner 31	< 0.004	< 0.001	0.002	< 0.05	< 0.0005	0.14	< 0.000016	< 0.0005	< 0.0009	< 0.0008	5.4	< 0.0001	0.038	0.498	0.001	< 0.003	0.11	< 0.0005	5.25	< 0.00005	136	0.500	< 0.0001	< 0.0005	< 0.001	0.001	< 0.001	< 0.004
27/Jun/23	Landowner 31	< 0.004	< 0.001	0.003	< 0.05	< 0.00005	0.129	< 0.000016	< 0.0005	< 0.00006	< 0.0003	5.26	< 0.00005	0.038	0.521	0.001	< 0.0004	< 0.05	< 0.00005	4.91	< 0.00003	120	0.579	< 0.00001	< 0.0001	< 0.001	0.00236	< 0.0005	< 0.004
14/Sep/23	Landowner 31	0.012	< 0.001	0.003	< 0.05	< 0.00005	0.118	< 0.000016	0.0016	0.00348	0.0007	4.93	< 0.00005	0.029	0.682	0.002	< 0.0004	< 0.05	< 0.00005	4.61	< 0.00003	115	0.620	< 0.00001	0.0001	< 0.001	0.00327	< 0.0005	< 0.004
8/Aug/19	Landowner 24	0.005	< 0.001	0.002	< 0.05	< 0.001	0.2	< 0.000016	< 0.001	< 0.0009	0.143	1.6	< 0.0005	0.05	0.241	0.002	< 0.003	< 0.08	0.0006	4.41	< 0.00005	143	0.621	< 0.0001	0.0022	0.001	< 0.001	< 0.001	0.006
7/Oct/21	Landowner 24	0.006	< 0.001	0.002	< 0.05	< 0.001	0.20	< 0.000016	< 0.001	< 0.0009	< 0.0008	3.3	< 0.0005	0.051	0.324	0.001	< 0.003	< 0.08	< 0.0005	5.93	< 0.0001	154	0.684	< 0.0001	< 0.0005	0.004	< 0.001	< 0.001	0.009
17/Jun/22	Landowner 24	0.006	< 0.001	0.002	< 0.05	< 0.0005	0.14	0.000029	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.011	< 0.005	0.006	< 0.003	0.09	< 0.0005	1.43	< 0.00005	96.6	0.054	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.004
11/Jul/19	UL1 - Development	< 0.004	< 0.001	0.009	< 0.05	< 0.001	0.18	< 0.000016	< 0.001	< 0.0009	0.0011	< 0.1	< 0.0005	0.022	0.011	0.008	< 0.003	< 0.08	< 0.0005	3.14	< 0.00005	233	0.058	< 0.0001	< 0.0005	< 0.001	0.003	< 0.001	0.026
15/Jul/19	UL1 - Development	0.007	< 0.001	< 0.001	< 0.05	< 0.001	0.09	0.000031	< 0.001	< 0.0009	0.0015	< 0.1	< 0.0005	0.038	0.485	0.002	< 0.003	< 0.08	< 0.0005	4.43	< 0.00005	47.3	0.651	< 0.0001	< 0.0005	0.002	0.007	< 0.001	0.091
15/Jul/19	UL1 - Development	0.007	< 0.001	0.003	< 0.05	< 0.001	0.08	0.000017	< 0.001	< 0.0009	0.0016	0.2	< 0.0005	0.039	0.266	0.004	< 0.003	< 0.08	< 0.0005	4.52	< 0.00005	47.2	0.638	< 0.0001	< 0.0005	0.003	0.006	< 0.001	0.053
6/Aug/19	UL1 - Development	0.139	0.001	0.018	< 0.05	< 0.001	0.3	0.000038	< 0.001	< 0.0009	0.0065	< 0.1	< 0.0005	0.045	0.005	0.016	< 0.003	< 0.08	0.0021	3.83	< 0.00005	255	0.082	< 0.0001	< 0.0005	0.003	0.011	0.004	< 0.005
6/Aug/19	UL1 - Development	0.038	0.001	0.018	< 0.05	< 0.001	0.3	0.000038	< 0.001	< 0.0009	0.0066	< 0.1	< 0.0005	0.044	< 0.005	0.016	< 0.003	< 0.08	0.002	3.44	< 0.00005	256	0.086	< 0.0001	< 0.0005	0.002	0.011	0.003	< 0.005
7/Oct/19	UL1 - Development	0.014	0.001	0.017	< 0.05	< 0.001	0.27	< 0.000016	< 0.001	< 0.0009	0.0111	< 0.1	< 0.0005	0.035	0.006	0.014	< 0.003	< 0.08	0.0013	3.51	< 0.00005	255	0.08	< 0.0001	< 0.0005	0.01	0.009	0.002	0.021
7/Oct/19	UL1 - Development	0.014	0.001	0.017	< 0.05	< 0.001	0.28	< 0.000016	< 0.001	< 0.0009	0.0098	< 0.1	< 0.0005	0.036	0.006	0.014	< 0.003	0.1	0.0012	3.54	< 0.00005	248	0.081	< 0.0001	< 0.0005	0.009	0.009	0.003	0.018
21/Jul/20	UL1 - Development	0.006	< 0.001	< 0.001	< 0.05	< 0.001	0.31	0.000027	< 0.001	< 0.0009	0.0027	< 0.1	0.0005	0.036	0.01	0.012	< 0.003	-	0.0006	-	< 0.0001	273	0.059	< 0.0001	0.0005	0.001	0.006	-	0.011
28/Oct/20	UL1 - Development	0.24	< 0.001	0.005	< 0.05	< 0.001	0.2	< 0.000016	< 0.001	< 0.0009	0.0009	0.2	< 0.0005	0.021	0.008	0.008	< 0.003	-	< 0.0005	4.58	< 0.0001	288	0.036	< 0.0001	0.0006	0.008	0.003	0.003	0.013
28/Oct/20	UL1 - Development	0.236	< 0.001	0.005	< 0.05	< 0.001	0.2	< 0.000016	< 0.001	< 0.0009	< 0.0008	0.2	0.0005	0.021	0.009	0.008	< 0.003	-	< 0.0005	4.72	< 0.0001	288	0.036	< 0.0001	0.0006	0.008	0.003	0.003	0.011
15/Jun/21	UL1 - Development	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.09	< 0.000016	< 0.001	< 0.001	0.002	< 0.1	0.0003	0.057	0.528	0.001	< 0.004	< 0.08	< 0.0005	5.23	< 0.00005	51.9	0.684	< 0.0005	0.0005	< 0.001	0.003	0.002	0.01
7/Aug/19	UL2 - Development	0.009	< 0.001	0.001	0.05	< 0.001	0.09	0.000017	< 0.001	< 0.0009	0.0179	0.2	< 0.0005	0.049	0.318	0.002	< 0.003	< 0.08	< 0.0005	5.01	< 0.00005	47.8	0.609	< 0.0001	< 0.0005	0.002	0.004	< 0.001	0.034
7/Oct/19	UL2 - Development	0.007	< 0.001	0.002	< 0.05	< 0.001	0.08	0.000026	< 0.001	< 0.0009	0.0115	0.4	< 0.0005	0.039	0.283	0.002	< 0.003	< 0.08	< 0.0005	5.41	< 0.00005	45.6	0.623	< 0.0001	< 0.0005	0.008	0.003	< 0.001	0.042
22/Jul/20	UL2 - Development	0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.09	0.000018	< 0.001	< 0.0009	0.0086	0.5	0.0006	0.045	0.295	0.002	< 0.003	-	< 0.0005	-	< 0.0001	43.6	0.602	< 0.0001	< 0.0005	0.002	0.003	-	0.021
22/Jul/20	UL2 - Development	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	< 0.01	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	< 0.001	< 0.005	< 0.001	< 0.003	-	< 0.0005	-	< 0.0001	< 0.6	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	-	< 0.005
27/Oct/20	UL2 - Development	0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.05	< 0.000016	< 0.001	< 0.0009	0.0061	0.4	< 0.0005	0.032	0.289	0.002	< 0.003	-	0.0012	5.84	< 0.0001	48.4	0.439	< 0.0001	< 0.0005	0.001	0.002	< 0.001	0.021
15/Jun/21	UL2 - Development	0.104	< 0.001	0.004	< 0.05	< 0.001	0.27	0.000017	< 0.001	< 0.001	0.003	< 0.1	0.0011	0.045	0.007	0.007	< 0.004	0.17	< 0.0005	3.9	< 0.00005	293	0.058	< 0.0005	0.0013	0.008	0.004	0.002	0.04
7/Aug/19	UL3 - Development	0.008	< 0.001	< 0.001	0.06	< 0.001	0.08	0.000046	< 0.001	< 0.0009	0.0211	< 0.1	< 0.0005	0.041	0.548	0.002	< 0.003	< 0.08	< 0.0005	4.89	< 0.00005	45.8	0.641	< 0.0001	< 0.0005	0.002	0.003	< 0.001	0.035
7/Oct/19	UL3 - Development	0.011	< 0.001	< 0.001	0.07	< 0.001	0.08	< 0.000016	< 0.001	< 0.0009	0.0073	0.1	< 0.0005	0.044	0.599	0.002	< 0.003	< 0.08	< 0.0005	4.58	< 0.00005	43.4	0.661	< 0.0001	< 0.0005	0.002	0.003	< 0.001	0.017
22/Jul/20	UL3 - Development	0.005	< 0.001	< 0.001	< 0.05	< 0.001	0.09	< 0.000016	< 0.001	< 0.0009	0.0097	< 0.1	0.0009	0.043	0.549	0.002	< 0.003	-	< 0.0005	-	< 0.0001	40.9	0.643	< 0.0001	< 0.0005	0.002	0.003	-	0.027
22/Jul/20	UL3 - Development	0.005	< 0.001	< 0.001	< 0.05	< 0.001	0.09	0.00004	< 0.001	< 0.0009	0.0098	< 0.1	0.0009	0.043	0.554	0.002	< 0.003	-	0.0005	-	< 0.0001	41.7	0.663	< 0.0001	< 0.0005	0.001	0.003	-	0.026
28/Oct/20	UL3 - Development	0.017	< 0.001	< 0.001	< 0.05	< 0.001	0.05	0.000023	< 0.001	< 0.0009	0.0056	< 0.1	< 0.0005	0.025	0.564	0.001	< 0.003	-	< 0.0005	5.85	< 0.0001	46	0.418	< 0.0001	< 0.0005	0.003	0.002	0.001	0.012
28/Oct/20	UL3 - Development	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	< 0.01	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	< 0.001	< 0.005	< 0.001	< 0.003	-	< 0.0005	< 0.032	< 0.0001	< 0.6	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	0.002	< 0.005
15/Jun/21	UL3 - Development	< 0.004	< 0.001	< 0.001	0.05	< 0.001	0.07	< 0.000016	< 0.001	< 0.001	0.003	< 0.1	0.0007	0.053	0.288	0.001	< 0.004	< 0.08	< 0.0005	5.58	< 0.00005	50.7	0.618	< 0.0005	< 0.0005	0.004	0.003	0.001	< 0.01
22/Sep/23	Landowner 35	0.007	< 0.001	< 0.001	< 0.05	< 0.00005	0.150	< 0.000016	< 0.0005	0.00108	0.0014	0.766	< 0.00005	0.044	1.01	0.002	0.0014	< 0.05	< 0.00005	5.67	< 0.00003	74.7	0.546	< 0.00001	0.0001	< 0.001	0.0109	< 0.0005	0.015
20/Jun/24	Landowner 35	0.007	< 0.001	< 0.001	< 0.05	< 0.00005	0.157	< 0.000016	< 0.0005	0.00128	< 0.0003	0.417	< 0.00005	0.047	0.914	0.001	0.0014	< 0.05	< 0.00005	6.69	< 0.00003	72.7	0.563	< 0.00001	< 0.0001	< 0.001	0.00871	0.0005	0.012
17/Sep/24	Landowner 35	0.011	< 0.001	< 0.001	< 0.05	< 0.00005	0.158	< 0.000016	0.0007	0.00239	< 0.0003	0.860	< 0.00005	0.047	1.04	0.002	0.0014	< 0.05	0.00008	7.47	< 0.00003	82.0	0.593	< 0.00001	< 0.0001	< 0.001	0.00897	< 0.0005	0.014

Date (dd-mmm-yy)	Landowner	Dissolved Aluminum mg/L	Dissolved Antimony mg/L	Dissolved Arsenic mg/L	Dissolved Barium mg/L	Dissolved Beryllium mg/L	Dissolved Boron mg/L	Dissolved Cadmium mg/L	Dissolved Chromium mg/L	Dissolved Cobalt mg/L	Dissolved Copper mg/L	Dissolved Iron mg/L	Dissolved Lead mg/L	Dissolved Lithium mg/L	Dissolved Manganese mg/L	Dissolved Molybdenum mg/L	Dissolved Nickel mg/L	Dissolved Phosphorus mg/L	Dissolved Selenium mg/L	Dissolved Silicon mg/L	Dissolved Silver mg/L	Dissolved Sodium mg/L	Dissolved Strontium mg/L	Dissolved Thallium mg/L	Dissolved Tin mg/L	Dissolved Titanium mg/L	Dissolved Uranium mg/L	Dissolved Vanadium mg/L	Dissolved Zinc mg/L
16/Jun/21	Landowner 19	< 0.004	< 0.001	< 0.001	0.09	< 0.001	0.04	0.00002	< 0.001	< 0.0009	0.0055	< 0.1	< 0.0005	-	< 0.005	0.001	< 0.003	< 0.08	0.0016	-	< 0.0001	14.6	-	< 0.0001	-	0.002	0.012	-	0.012
8/Oct/21	Landowner 19	0.049	< 0.001	< 0.001	0.10	< 0.001	0.05	0.000029	< 0.001	< 0.0009	0.0072	< 0.1	< 0.0005	0.046	< 0.005	0.001	< 0.003	-	0.0046	6.32	< 0.0001	15.7	0.608	< 0.0001	< 0.0005	0.004	0.012	< 0.001	0.026
24/Jun/23	Landowner 19	< 0.004	< 0.001	< 0.001	0.09	< 0.00005	0.047	0.000031	< 0.0005	< 0.00006	0.0108	0.003	0.00024	0.053	0.00066	0.001	0.0079	< 0.05	0.00479	5.66	< 0.00003	13.5	0.534	< 0.00001	< 0.0001	< 0.001	0.0108	0.0008	0.048
24/Jun/23	Landowner 19	< 0.004	< 0.001	< 0.001	0.09	< 0.00005	0.048	< 0.000016	< 0.0005	< 0.00006	0.0050	< 0.001	0.00007	0.057	0.00069	0.002	0.0075	< 0.05	0.00531	5.77	< 0.00003	14.2	0.545	< 0.00001	< 0.0001	< 0.001	0.0125	0.0007	0.040
19/Sep/23	Landowner 19	0.018	< 0.001	< 0.001	0.10	< 0.00005	0.044	0.000030	< 0.0005	0.00040	0.0183	0.004	0.00034	0.048	0.00028	0.001	0.0021	< 0.05	0.00465	6.34	< 0.00003	14.7	0.573	< 0.00001	0.0002	< 0.001	0.0106	0.0008	0.033
11/Jun/24	Landowner 19	0.008	< 0.001	< 0.001	0.10	< 0.00005	0.049	0.000021	< 0.0005	0.00013	0.0099	0.010	0.00018	0.055	0.00033	< 0.001	0.0007	< 0.05	0.00497	6.90	< 0.00003	15.6	0.626	< 0.00001	< 0.0001	< 0.001	0.0106	0.0008	0.014
11/Sep/24	Landowner 19	0.009	< 0.001	< 0.001	0.09	< 0.00005	0.053	< 0.000016	< 0.0005	< 0.00006	0.0167	0.002	0.00042	0.062	0.00037	0.001	0.0007	< 0.05	0.00516	7.31	< 0.00003	15.6	0.583	< 0.00001	< 0.0001	< 0.001	0.00922	0.0008	0.027
17/Jun/21	Landowner 29	0.006	< 0.001	< 0.001	0.07	< 0.001	0.08	< 0.000016	< 0.001	< 0.0009	< 0.0008	0.7	< 0.0005	0.06	0.121	0.001	< 0.003	< 0.08	< 0.0005	6.69	< 0.0001	52	1.12	< 0.0001	< 0.0005	0.003	< 0.001	< 0.001	0.015
23/Jun/22	Landowner 29	0.010	< 0.001	< 0.001	0.07	< 0.0005	0.06	0.000016	< 0.0005	< 0.0009	0.0040	< 0.1	< 0.0001	0.051	0.123	0.001	< 0.003	0.08	< 0.0005	5.42	< 0.00005	49.6	1.11	< 0.0001	< 0.0005	0.002	< 0.001	< 0.001	0.054
23/Jun/22	Landowner 29	0.005	< 0.001	< 0.001	0.07	< 0.0005	0.06	< 0.000016	< 0.0005	< 0.0009	0.0097	< 0.1	< 0.0001	0.050	0.124	0.001	< 0.003	0.09	< 0.0005	5.41	< 0.00005	49.0	1.06	< 0.0001	< 0.0005	0.002	< 0.001	< 0.001	0.318
24/Jun/22	Landowner 29	0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.10	0.000027	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.057	0.332	0.001	< 0.003	0.10	< 0.0005	5.06	< 0.00005	105	0.854	< 0.0001	< 0.0005	0.004	0.004	< 0.001	0.010
24/Sep/22	Landowner 29	< 0.004	< 0.001	< 0.001	0.07	< 0.0005	0.08	< 0.000080	< 0.0005	< 0.0009	< 0.0008	0.6	< 0.0002	0.058	0.118	0.001	< 0.003	0.12	< 0.0025	6.11	< 0.00005	55.0	1.15	< 0.0001	< 0.0025	< 0.005	< 0.001	< 0.001	0.061
29/Jun/23	Landowner 29	< 0.004	< 0.001	< 0.001	0.08	< 0.00005	0.056	< 0.000016	< 0.0005	< 0.00006	< 0.0003	0.484	0.00005	0.047	0.117	0.001	< 0.0004	< 0.05	< 0.00005	4.97	< 0.00003	48.9	1.07	< 0.00001	< 0.0001	< 0.001	0.00007	< 0.0005	0.052
14/Sep/23	Landowner 29	0.013	< 0.001	< 0.001	0.09	< 0.00005	0.056	< 0.000016	0.0010	< 0.00006	0.0009	0.537	< 0.00005	0.042	0.124	0.001	< 0.0004	< 0.05	< 0.00005	5.22	< 0.00003	55.1	1.19	< 0.00001	0.0001	< 0.001	0.00008	< 0.0005	0.039
17/Jun/24	Landowner 29	0.009	< 0.001	< 0.001	0.07	< 0.00005	0.073	< 0.000016	< 0.0005	< 0.00006	0.0018	0.457	< 0.00005	0.057	0.111	0.001	< 0.0004	< 0.05	< 0.00005	5.77	< 0.00003	50.2	0.936	< 0.00001	< 0.0001	< 0.001	0.00007	< 0.0005	0.036
12/Sep/24	Landowner 29	0.007	< 0.001	< 0.001	0.09	< 0.00005	0.072	< 0.000016	< 0.0005	< 0.00006	< 0.0003	0.542	< 0.00005	0.062	0.117	0.001	< 0.0004	< 0.05	< 0.00005	6.48	< 0.00003	50.1	0.980	< 0.00001	< 0.0001	< 0.001	0.00006	< 0.0005	0.025
15/Jun/21	Enhance Facility Well	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.11	< 0.000016	< 0.001	< 0.001	0.008	< 0.1	< 0.0002	0.095	0.039	0.002	< 0.004	< 0.08	< 0.0005	4.37	< 0.00005	226	0.26	< 0.0005	< 0.0005	0.008	< 0.001	0.001	0.03
5/Oct/21	Enhance Facility Well	0.019	< 0.001	< 0.001	< 0.05	< 0.001	0.12	< 0.000016	< 0.001	< 0.0009	< 0.0008	0.2	< 0.0005	0.071	0.046	0.002	< 0.003	< 0.08	0.0094	4.53	0.0002	216	0.270	< 0.0001	< 0.0005	0.001	< 0.001	< 0.001	< 0.005
14/Jun/22	Enhance Facility Well	0.014	< 0.001	< 0.001	< 0.05	< 0.0005	0.10	< 0.000016	< 0.0005	< 0.0009	0.0041	< 0.1	0.0002	0.069	0.035	0.002	< 0.003	0.13	< 0.0005	4.34	< 0.00005	212	0.269	< 0.0001	< 0.0005	0.003	< 0.001	< 0.001	0.203
19/Sep/22	Enhance Facility Well	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.10	< 0.000032	< 0.0005	< 0.0009	< 0.0008	0.2	0.0023	0.063	0.038	0.002	< 0.003	0.11	< 0.0010	4.90	< 0.00005	224	0.270	< 0.0001	< 0.0010	< 0.002	< 0.001	< 0.001	0.373
21/Jun/23	Enhance Facility Well	< 0.004	< 0.001	< 0.001	< 0.05	< 0.00005	0.093	< 0.000016	< 0.0005	< 0.00006	0.0016	0.057	0.00054	0.071	0.0394	0.002	0.0004	< 0.05	< 0.00005	3.9	< 0.00003	205	0.291	< 0.00001	< 0.0001	< 0.001	0.00031	< 0.0005	0.210
13/Sep/23	Enhance Facility Well	0.010	< 0.001	< 0.001	< 0.05	< 0.00005	0.079	< 0.000016	< 0.0005	< 0.00006	0.0016	0.194	0.00008	0.058	0.0380	0.002	< 0.0004	< 0.05	< 0.00005	3.8	< 0.00003	196	0.269	< 0.00001	0.0001	< 0.001	0.00033	< 0.0005	0.032
13/Sep/23	Enhance Facility Well	0.008	< 0.001	< 0.001	< 0.05	< 0.00005	0.077	< 0.000016	< 0.0005	< 0.00006	< 0.0003	0.164	0.00007	0.057	0.0385	0.002	< 0.0004	< 0.05	< 0.00005	3.6	< 0.00003	180	0.272	< 0.00001	< 0.0001	< 0.001	0.00033	< 0.0005	0.030
18/Jun/24	Enhance Facility Well	0.008	< 0.001	< 0.001	< 0.05	< 0.00005	0.115	< 0.000016	< 0.0005	0.00072	0.0030	0.147	0.00029	0.084	0.0390	0.002	< 0.0004	< 0.05	0.00011	5.01	< 0.00003	209	0.274	< 0.00001	< 0.0001	< 0.001	0.00025	< 0.0005	0.250
12/Sep/24	Enhance Facility Well	0.009	< 0.001	< 0.001	0.09	< 0.00005	0.073	< 0.000016	< 0.0005	< 0.00006	< 0.0003	0.514	< 0.00005	0.065	0.113	0.001	< 0.0004	< 0.05	< 0.00005	6.55	< 0.00003	51.9	0.982	< 0.00001	< 0.0001	< 0.001	0.00006	< 0.0005	0.025
12/Sep/24	Enhance Facility Well	0.005	< 0.001	< 0.001	< 0.05	< 0.00005	0.115	< 0.000016	0.0005	< 0.00006	0.0005	0.144	0.00068	0.090	0.0344	0.002	0.0007	< 0.05	< 0.00005	4.78	< 0.00003	197	0.266	< 0.00001	< 0.0001	< 0.001	0.00026	< 0.0005	0.184
6/Oct/21	Landowner 14	< 0.004	< 0.001	< 0.001	0.06	< 0.001	0.08	< 0.000016	< 0.001	< 0.0009	< 0.0008	1.0	< 0.0005	0.064	0.200	0.001	< 0.003	< 0.08	< 0.0005	6.71	< 0.0001	75.2	0.596	< 0.0001	< 0.0005	0.002	0.001	< 0.001	0.017
18/Jun/22	Landowner 14	< 0.004	< 0.001	< 0.001	0.06	< 0.0005	0.08	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.064	0.190	0.001	< 0.003	0.14	< 0.0005	5.98	< 0.00005	64.0	0.620	< 0.0001	< 0.0005	< 0.001	0.001	< 0.001	0.030
21/Sep/22	Landowner 14	< 0.004	< 0.001	< 0.001	0.06	< 0.0005	0.12	< 0.000032	< 0.0005	< 0.0009	< 0.0008	1.0	< 0.0001	0.070	0.191	0.001	< 0.003	< 0.08	< 0.0010	6.13	< 0.00005	81.2	0.568	< 0.0001	< 0.0010	< 0.002	0.001	< 0.001	0.044
27/Jun/23	Landowner 14	< 0.004	< 0.001	< 0.001	0.06	< 0.00005	0.094	< 0.000016	< 0.0005	0.00008	< 0.0003	0.944	< 0.00005	0.061	0.188	0.001	< 0.0004	< 0.05	< 0.00005	5.45	< 0.00003	77.6	0.550	< 0.00001	< 0.0001	< 0.001	0.00107	< 0.0005	0.030
14/Sep/23	Landowner 14	0.007	< 0.001	< 0.001	0.06	< 0.00005	0.082	< 0.000016	0.0006	0.00038	0.0006	0.714	< 0.00005	0.048	0.175	0.001	< 0.0004	< 0.05	< 0.00005	5.12	< 0.00003	80.2	0.537	< 0.00001	0.0001	< 0.001	0.00100	< 0.0005	0.024
17/Jun/24	Landowner 14	0.007	< 0.001	< 0.001	0.20	< 0.00005	0.107	< 0.000016	< 0.0005	0.00021	0.0016	0.650	< 0.00005	0.053	0.153	0.002	< 0.0004	< 0.05	< 0.00005	5.80	< 0.00003	104	0.985	< 0.00001	< 0.0001	< 0.001	0.00071	< 0.0005	0.023
10/Sep/24	Landowner 14	0.012	< 0.001	< 0.001	0.05	< 0.00005	0.133	< 0.000016	< 0.0005	0.00007	< 0.0003	0.639	< 0.00005	0.075	0.165	0.001	< 0.0004	< 0.05	< 0.00005	6.69	< 0.00003	109	0.515	< 0.00001	< 0.0001	< 0.001	0.00069	< 0.0005	0.026
8/Oct/21	Landowner 26	0.006	< 0.001	< 0.001	< 0.05	< 0.001	0.11	< 0.000016	< 0.001	< 0.0009	< 0.0008	0.6	< 0.0005	0.060	0.397	0.001	< 0.003	-	< 0.0005	6.10	< 0.0001	115.0	0.952	< 0.0001	< 0.0005	0.003	0.005	< 0.001	0.021
21/Sep/22	Landowner 26	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.13	< 0.000032	< 0.0005	< 0.0009	0.0019	1.6	0.0001	0.069	0.335	0.001	< 0.003	< 0.08	< 0.0010	5.29	< 0.00005	109	1.05	< 0.0001	< 0.0010	< 0.002	0.004	< 0.001	0.010
16/Oct/21	Landowner 7	0.005	< 0.001	< 0.001	0.10	< 0.0005	0.06	0.000025	< 0.0005	< 0.0009	0.0037	< 0.1	0.0005	0.030	0.093	0.002	0.003	< 0.08	< 0.0005	5.97	< 0.00005	41.0	0.637	< 0.0001	< 0.0005	< 0.001	0.008	< 0.001	0.016
16/Jun/22	Landowner 7	0.008	< 0.001	< 0.001	0.08	< 0.0005	0.05	< 0.000016	< 0.0005	< 0.0009	0.0013	< 0.1	< 0.0001	0.026	0.124	0.002	< 0.003	0.10	< 0.0005	4.65	< 0.00005	32.2	0.557	< 0.0001	< 0.0005	0.003	0.006	< 0.001	0.016
20/Sep/22	Landowner 7	< 0.004	< 0.001	< 0.001	0.09	< 0.0005	0.07	< 0.000032	< 0.0005	< 0.0009	< 0.0008	2.8	< 0.0001	0.028	0.116	0.002	< 0.003	0.13	< 0.0010	5.79	< 0.00005	35.6	0.612	< 0.0001	< 0.0010	< 0.002	0.006	< 0.001	0.013
15/Sep/23	Landowner 7	0.015	< 0.001	< 0.001	0.10	< 0.00005	0.045	< 0.000016	0.0014	0.00246	0.0016	2.86	< 0.00005	0.021	0.153	0.002	0.0005	< 0.05	0.00010	4.82	< 0.00003	34.3	0.583	< 0.00001	0.0001	< 0.001	0.00667	< 0.0005	0.009
12/Sep/24	Landowner 7	0.008	< 0.001	< 0.001	0.11	< 0.00005	0.063	0.000020	< 0.0005	0.00023	0.0038	2.07	0.00013	0.032	0.0987	0.002	< 0.0004	< 0.05	0.00013	6.27	< 0.00003	36.7	0.597	< 0.00001	< 0.0001	< 0.001	0.00613	< 0.0005	0.031
6/Oct/21	Landowner 11	0.007	< 0.001	< 0.001	< 0.05	< 0.001	0.11	0.000029	< 0.001	< 0.0009	0.0013	< 0.1	0.0005	0.038	0.163	0.004	< 0.003	< 0.08	< 0.0005	5.06	< 0.0001	102	0.685	< 0.0001	< 0.0005	0.003	0.003	< 0.001	0.048
15/Jun/22	Landowner 11	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.11	0.000022	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.037	0.119	0.001	< 0.003	0.15	0.0007	4.72	< 0.00005	95.5	0.684	< 0.0001	< 0.0005	< 0.001	0.002	< 0.001	0.036
20/Sep/22	Landowner 11	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.13	< 0.000032	< 0.0005	< 0.0009	< 0.0008	0.1	< 0.0001	0.042	0.144	0.002	< 0.003	0.12	< 0.0010	5.57	< 0.00005	108	0.679	< 0.0001	< 0.0010	< 0.002	0.002	< 0.001	0.050
12/Jun/24	Landowner 11	0.016	< 0.001	< 0.001	< 0.05	< 0.00005	0.134	0.000018	< 0.0005	0.00053	0.0018	0.028	< 0.00005	0.049	0.126	0.001	< 0.0004	< 0.05	0.00074	5.20	< 0.00003	104	0.635	< 0.00001	< 0.0001	< 0.001	0.00223	< 0.0005	0.080
17/Sep/24	Landowner 11	0.014	< 0.001	< 0.001	< 0.05	< 0.00005	0.114	0.000021	< 0.0005	0.00010	0.0017	0.012	0.00012	0.041	0.0953	0.001	< 0.0004	< 0.05	0.00053	5.82	< 0.00003	108	0.671	< 0.00001	< 0.0001	< 0.001	0.00207	< 0.0005	0.076

Date (dd-mmm-yy)	Landowner	Dissolved Aluminum mg/L	Dissolved Antimony mg/L	Dissolved Arsenic mg/L	Dissolved Barium mg/L	Dissolved Beryllium mg/L	Dissolved Boron mg/L	Dissolved Cadmium mg/L	Dissolved Chromium mg/L	Dissolved Cobalt mg/L	Dissolved Copper mg/L	Dissolved Iron mg/L	Dissolved Lead mg/L	Dissolved Lithium mg/L	Dissolved Manganese mg/L	Dissolved Molybdenum mg/L	Dissolved Nickel mg/L	Dissolved Phosphorus mg/L	Dissolved Selenium mg/L	Dissolved Silicon mg/L	Dissolved Silver mg/L	Dissolved Sodium mg/L	Dissolved Strontium mg/L	Dissolved Thallium mg/L	Dissolved Tin mg/L	Dissolved Titanium mg/L	Dissolved Uranium mg/L	Dissolved Vanadium mg/L	Dissolved Zinc mg/L
6/Oct/21	Landowner 16	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.23	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	0.085	0.017	0.002	< 0.003	< 0.08	0.0009	4.39	< 0.0001	221	0.341	< 0.0001	< 0.0005	0.004	< 0.001	< 0.001	< 0.005
16/Jun/22	Landowner 16	0.024	< 0.001	< 0.001	< 0.05	< 0.0005	0.21	0.000033	< 0.0005	< 0.0009	0.0046	< 0.1	0.0005	0.081	0.011	0.002	< 0.003	0.09	< 0.0005	4.19	< 0.00005	183	0.326	< 0.0001	< 0.0005	0.005	< 0.001	< 0.001	0.021
20/Sep/22	Landowner 16	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.22	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.088	0.015	0.002	< 0.003	0.11	< 0.0005	4.66	< 0.00005	211	0.360	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.004
23/Jun/23	Landowner 16	< 0.004	< 0.001	< 0.001	< 0.05	< 0.00005	0.236	< 0.000016	< 0.0005	< 0.00006	< 0.0003	0.068	< 0.00005	0.102	0.0147	0.002	< 0.0004	< 0.05	< 0.00005	4.1	< 0.00003	203	0.325	< 0.00001	< 0.0001	< 0.001	0.00011	< 0.0005	< 0.004
14/Sep/23	Landowner 16	0.007	< 0.001	< 0.001	< 0.05	< 0.00005	0.167	< 0.000016	< 0.0005	0.00051	0.0013	0.092	< 0.00005	0.067	0.0150	0.002	< 0.0004	< 0.05	< 0.00005	3.9	< 0.00003	211	0.334	< 0.00001	0.0002	< 0.001	0.00011	< 0.0005	< 0.004
11/Jun/24	Landowner 16	0.008	< 0.001	< 0.001	< 0.05	< 0.00005	0.261	< 0.000016	< 0.0005	< 0.00006	0.0014	0.080	< 0.00005	0.115	0.0138	0.002	< 0.0004	< 0.05	< 0.00005	4.30	< 0.00003	186	0.312	< 0.00001	< 0.0001	< 0.001	0.00012	< 0.0005	< 0.004
11/Sep/24	Landowner 16	0.009	< 0.001	< 0.001	< 0.05	< 0.00005	0.254	< 0.000016	< 0.0005	< 0.00006	0.0006	0.072	0.00010	0.110	0.0154	0.002	< 0.0004	< 0.05	< 0.00005	5.11	< 0.00003	196	0.327	< 0.00001	< 0.0001	< 0.001	0.00010	< 0.0005	0.006
11/Sep/24	Landowner 16	0.007	< 0.001	< 0.001	< 0.05	< 0.00005	0.263	< 0.000016	< 0.0005	< 0.00006	0.0030	0.069	0.00038	0.113	0.0153	0.002	< 0.0004	< 0.05	< 0.00005	5.23	< 0.00003	196	0.323	< 0.00001	< 0.0001	< 0.001	0.00010	< 0.0005	0.012
16/Jun/21	Landowner 9	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.11	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	0.0011	-	0.007	0.005	< 0.003	< 0.08	< 0.0005	-	< 0.0001	95.3	-	< 0.0001	-	0.002	0.005	-	< 0.005
16/Jun/21	Landowner 9	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.1	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	0.0009	-	0.007	0.005	< 0.003	< 0.08	< 0.0005	-	< 0.0001	95	-	< 0.0001	-	0.001	0.005	-	< 0.005
6/Oct/21	Landowner 9	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.14	< 0.000016	< 0.001	< 0.0009	0.0016	< 0.1	< 0.0005	0.060	0.014	0.004	< 0.003	< 0.08	0.0105	4.15	0.0001	140	0.596	< 0.0001	< 0.0005	0.004	0.004	< 0.001	0.007
15/Jun/22	Landowner 9	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.13	< 0.000016	< 0.0005	< 0.0009	0.0011	< 0.1	0.0001	0.059	0.010	0.004	< 0.003	0.16	0.0011	3.60	< 0.00005	111	0.630	< 0.0001	< 0.0005	< 0.001	0.003	< 0.001	< 0.004
19/Sep/22	Landowner 9	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.12	< 0.000032	< 0.0005	< 0.0009	0.0020	< 0.1	< 0.0001	0.054	0.007	0.005	< 0.003	0.12	0.0013	4.15	< 0.00005	109	0.644	< 0.0001	< 0.0010	< 0.002	0.003	< 0.001	0.007
21/Jun/23	Landowner 9	< 0.004	< 0.001	< 0.001	< 0.05	< 0.00005	0.123	< 0.000016	< 0.0005	< 0.00006	0.0016	0.001	0.00012	0.057	0.00786	0.004	0.0007	< 0.05	0.00109	3.45	< 0.00003	118	0.552	< 0.00001	< 0.0001	< 0.001	0.00343	< 0.0005	< 0.004
21/Jun/23	Landowner 9	< 0.004	< 0.001	< 0.001	< 0.05	< 0.00005	0.122	< 0.000016	< 0.0005	< 0.00006	0.0013	0.001	0.00012	0.056	0.00888	0.004	0.0006	< 0.05	0.00107	3.33	< 0.00003	117	0.559	< 0.00001	< 0.0001	< 0.001	0.00344	< 0.0005	0.006
14/Sep/23	Landowner 9	0.018	< 0.001	< 0.001	< 0.05	< 0.00005	0.111	< 0.000016	0.0016	0.00318	0.0027	0.008	0.00010	0.048	0.0103	0.004	0.0006	< 0.05	0.00107	3.36	< 0.00003	122	0.567	< 0.00001	0.0002	< 0.001	0.00340	< 0.0005	< 0.004
12/Jun/24	Landowner 9	0.011	< 0.001	< 0.001	< 0.05	< 0.00005	0.143	< 0.000016	< 0.0005	< 0.00006	0.0037	0.037	< 0.00005	0.069	0.00359	0.004	< 0.0004	< 0.05	0.00113	4.02	< 0.00003	105	0.597	< 0.00001	0.0002	< 0.001	0.00278	< 0.0005	0.004
10/Sep/24	Landowner 9	0.007	< 0.001	< 0.001	< 0.05	< 0.00005	0.134	< 0.000016	< 0.0005	< 0.00006	0.0016	0.009	0.00006	0.068	0.00652	0.004	< 0.0004	< 0.05	0.00122	4.34	< 0.00003	106	0.621	< 0.00001	< 0.0001	< 0.001	0.00265	< 0.0005	< 0.004
6/Oct/21	Landowner 3	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.20	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	0.067	0.092	0.002	< 0.003	< 0.08	< 0.0005	4.20	0.0002	246	0.401	< 0.0001	< 0.0005	0.008	< 0.001	< 0.001	0.022
6/Oct/21	Landowner 3	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.19	< 0.000016	< 0.001	< 0.0009	< 0.0008	0.1	< 0.0005	0.066	0.088	0.002	< 0.003	< 0.08	< 0.0005	4.27	0.0001	250	0.401	< 0.0001	< 0.0005	0.006	< 0.001	< 0.001	0.018
17/Jun/22	Landowner 3	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.16	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.083	0.296	0.002	< 0.003	< 0.08	< 0.0005	4.17	< 0.00005	159	1.19	< 0.0001	< 0.0005	< 0.001	0.002	< 0.001	0.038
21/Sep/22	Landowner 3	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.20	< 0.000032	< 0.0005	< 0.0009	< 0.0008	0.8	< 0.0001	0.091	0.248	0.002	< 0.003	< 0.08	< 0.0010	4.27	< 0.00005	188	1.09	< 0.0001	< 0.0010	< 0.002	0.001	< 0.001	0.038
19/Sep/23	Landowner 3	0.009	< 0.001	< 0.001	< 0.05	< 0.00005	0.175	< 0.000016	< 0.0005	0.00007	0.0009	1.33	< 0.00005	0.094	0.302	0.002	0.0005	< 0.05	< 0.00005	4.3	< 0.00003	197	1.08	< 0.00001	0.0001	< 0.001	0.00179	< 0.0005	0.046
11/Sep/24	Landowner 3	0.008	< 0.001	< 0.001	< 0.05	< 0.00005	0.194	< 0.000016	< 0.0005	0.00008	0.0004	1.10	< 0.00005	0.107	0.283	0.002	< 0.0004	< 0.05	0.00011	5.52	< 0.00003	179	0.965	< 0.00001	< 0.0001	< 0.001	0.00129	< 0.0005	0.057
6/Oct/21	Landowner 3	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.19	< 0.000016	< 0.001	< 0.0009	0.0044	< 0.1	< 0.0005	0.069	0.112	0.002	< 0.003	< 0.08	< 0.0005	4.33	< 0.0001	249	0.434	< 0.0001	< 0.0005	0.006	< 0.001	< 0.001	0.021
14/Oct/21	Landowner 15	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.19	< 0.000016	< 0.0005	< 0.0009	0.0020	< 0.1	< 0.0002	-	0.006	< 0.001	< 0.003	-	< 0.0005	-	< 0.00005	225	-	< 0.0001	-	0.003	< 0.001	-	0.008
23/Jun/22	Landowner 15	0.005	< 0.001	< 0.001	< 0.05	< 0.0005	0.21	< 0.000016	< 0.0005	< 0.0009	0.0048	< 0.1	< 0.0001	0.094	< 0.005	< 0.001	< 0.003	0.09	< 0.0005	4.67	< 0.00005	212	0.420	< 0.0001	< 0.0005	0.003	< 0.001	< 0.001	0.007
21/Sep/22	Landowner 15	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.24	< 0.000032	< 0.0005	< 0.0009	0.0025	< 0.1	< 0.0001	0.105	< 0.005	< 0.001	< 0.003	< 0.08	< 0.0010	4.75	< 0.00005	220	0.473	< 0.0001	< 0.0010	< 0.002	< 0.001	< 0.001	0.007
27/Jun/23	Landowner 15	< 0.004	< 0.001	< 0.001	< 0.05	< 0.00005	0.198	< 0.000016	< 0.0005	< 0.00006	0.0056	0.002	0.00060	0.099	0.00777	< 0.001	< 0.0004	< 0.05	< 0.00005	4.5	< 0.00003	211	0.515	< 0.00001	< 0.0001	< 0.001	0.00017	< 0.0005	0.014
13/Sep/23	Landowner 15	0.012	< 0.001	< 0.001	< 0.05	< 0.00005	0.237	< 0.000016	< 0.0005	< 0.00006	0.0033	0.003	0.00007	0.120	0.00878	< 0.001	< 0.0004	< 0.05	< 0.00005	4.1	< 0.00003	187	0.539	< 0.00001	0.0001	< 0.001	0.00018	< 0.0005	0.005
17/Jun/24	Landowner 15	0.007	< 0.001	< 0.001	< 0.05	< 0.00005	0.191	< 0.000016	< 0.0005	< 0.00006	0.0047	0.007	0.00029	0.090	0.00529	< 0.001	< 0.0004	< 0.05	< 0.00005	5.25	< 0.00003	192	0.455	< 0.00001	< 0.0001	< 0.001	0.00010	< 0.0005	0.009
10/Sep/24	Landowner 15	0.014	< 0.001	< 0.001	< 0.05	< 0.00005	0.249	< 0.000016	0.0005	< 0.00006	0.0034	0.004	0.00008	0.104	0.00382	0.001	0.0006	< 0.05	0.00008	5.67	< 0.00003	204	0.486	< 0.00001	< 0.0001	< 0.001	0.00027	< 0.0005	0.011
8/Oct/21	Landowner 28	0.008	< 0.001	< 0.001	0.05	< 0.001	0.04	< 0.000016	< 0.001	< 0.0009	0.0083	< 0.1	0.0009	0.041	< 0.005	0.002	< 0.003	-	< 0.0005	4.97	< 0.00005	13.2	1.12	< 0.0001	< 0.0005	0.002	0.016	< 0.001	0.076
15/Jun/22	Landowner 28	< 0.004	< 0.001	< 0.001	0.05	< 0.0005	0.03	< 0.000016	< 0.0005	< 0.0009	0.0053	< 0.1	< 0.0001	0.040	< 0.005	0.002	< 0.003	0.16	< 0.0005	4.38	< 0.00005	11.2	1.13	< 0.0001	< 0.0005	< 0.001	0.015	< 0.001	0.065
19/Sep/22	Landowner 28	< 0.004	< 0.001	< 0.001	0.05	< 0.0005	0.03	< 0.000032	< 0.0005	< 0.0009	0.0042	< 0.1	< 0.0001	0.038	< 0.005	0.002	< 0.003	0.12	< 0.0010	5.18	< 0.00005	12.2	0.953	< 0.0001	< 0.0010	< 0.002	0.013	< 0.001	0.068
8/Oct/21	Landowner 8	0.019	< 0.001	< 0.001	< 0.05	< 0.001	0.36	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	0.099	0.011	0.001	< 0.003	-	0.0009	3.21	< 0.0001	384.0	0.086	< 0.0001	< 0.0005	0.002	< 0.001	< 0.001	0.008
15/Jun/22	Landowner 8	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.31	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.088	0.007	0.002	< 0.003	0.19	< 0.0005	2.93	< 0.00005	351	0.080	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.004
15/Jun/22	Landowner 8	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.31	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.089	0.007	0.001	< 0.003	0.18	< 0.0005	2.94	< 0.00005	353	0.081	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.004
21/Sep/22	Landowner 8	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.33	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.094	0.008	0.001	< 0.003	< 0.08	< 0.0005	2.93	< 0.00005	369	0.082	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.004
23/Jun/23	Landowner 8	< 0.004	< 0.001	< 0.001	< 0.05	< 0.00005	0.353	< 0.000016	< 0.0005	< 0.00006	< 0.0003	0.006	< 0.00005	0.102	0.00742	0.003	< 0.0004	< 0.05	0.00008	2.9	< 0.00003	366	0.079	< 0.00001	< 0.0001	< 0.001	0.00027	< 0.0005	< 0.004
15/Sep/23	Landowner 8	0.015	< 0.001	< 0.001	< 0.05	< 0.00005	0.240	< 0.000016	< 0.0005	0.00017	0.0023	0.018	< 0.00005	0.069	0.00766	0.002	< 0.0004	< 0.05	< 0.00005	2.7	< 0.00003	381	0.084	< 0.00001	0.0001	< 0.001	0.00029	< 0.0005	< 0.004
11/Jun/24	Landowner 8	0.008	< 0.001	< 0.001	< 0.05	< 0.00005	0.392	< 0.000016	< 0.0005	< 0.00006	0.0005	0.011	< 0.00005	0.121	0.00746	0.002	< 0.0004	< 0.05	< 0.00005	3.07	< 0.00003	347	0.077	< 0.00001	< 0.0001	< 0.001	0.00029	< 0.0005	< 0.004
11/Sep/24	Landowner 8	0.022	< 0.001	< 0.001	< 0.05	< 0.00005	0.382	< 0.000016	< 0.0005	0.00043	0.0020	0.011	0.00005	0.114	0.00819	0.002	< 0.0004	< 0.05	0.00038	3.61	< 0.00003	353	0.079	< 0.00001	< 0.0001	< 0.001	0.00024	< 0.0005	< 0.004
7/Oct/21	Landowner 30	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.08	0.000055	< 0.001	0.0099	< 0.0008	1.6	< 0.0005	0.033	0.499	0.019	0.024	< 0.08	< 0.0005	5.66	0.0002	51.9	0.483	< 0.0001	< 0.0005	0.003	0.004	< 0.001	< 0.005
18/Jun/22	Landowner 30	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.06	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.022	< 0.005	0.002	< 0.003	0.16	< 0.0005	5.38	< 0.00005	164	0.002	< 0.0001	< 0.0005	< 0.001	0.004	< 0.001	0.004
19/Sep/22	Landowner 30	< 0.004	< 0.001	0.006	0.06	< 0.0005	0.07	< 0.000032	< 0.0005	0.0011	< 0.0008	1.8	< 0.0001	0.030	0.483	0.002	< 0.003	0.13	< 0.0010	5.89	< 0.00005	49.4	0.522	< 0.0001	< 0.0010	< 0.002	0.003	< 0.001	0.011
29/Jun/23	Landowner 30	< 0.004	< 0.001	0.006	0.06	< 0.00005	0.063	< 0.000016	< 0.0005	0.00008	< 0.0003	0.559	< 0.00005	0.028	0.479	0.002	< 0.0004	< 0.05	< 0.00005	4.60	< 0.00003	47.7	0.534	< 0.00001	< 0.0001	< 0.001	0.00279	< 0.0005	< 0.004
19/Sep/23	Landowner 30	0.022	< 0.001	0.006	0.07	< 0.00005	0.076	< 0.000016	0.0008	0.00203	0.0008	0.632	< 0.00005	0.034	0.499	0.002	0.0006	< 0.05	< 0.00005	5.05	< 0.00003	48.9	0.529	< 0.00001	0.0001	< 0.001	0.00296	< 0.0005	< 0.004
17/Jun/24	Landowner 30	0.007	< 0.001	0.005	0.05	< 0.00005	0.074	< 0.000016	< 0.0005	< 0.00006	0.0014	2.45	< 0.00005	0.033	0.256	0.003	< 0.0004	< 0.05	< 0.00005	4.19	< 0.00003	47.9	0.434	< 0.00001	< 0.0001	< 0.001	0.00137	< 0.0005	< 0.004
12/Sep/24	Landowner 30	0.006	< 0.001	0.006	0.07	< 0.00005	0.083	< 0.000016	< 0.0005	0.00028	< 0.0003	1.41	< 0.00005	0.040	0.480	0.001	< 0.0004	< 0.05	0.00010	6.29	< 0.00003	48.7	0.549	< 0.00001	< 0.0001	< 0.001	0.00227	< 0.0005	< 0.004

Date (dd-mmm-yy)	Landowner	Dissolved Aluminum mg/L	Dissolved Antimony mg/L	Dissolved Arsenic mg/L	Dissolved Barium mg/L	Dissolved Beryllium mg/L	Dissolved Boron mg/L	Dissolved Cadmium mg/L	Dissolved Chromium mg/L	Dissolved Cobalt mg/L	Dissolved Copper mg/L	Dissolved Iron mg/L	Dissolved Lead mg/L	Dissolved Lithium mg/L	Dissolved Manganese mg/L	Dissolved Molybdenum mg/L	Dissolved Nickel mg/L	Dissolved Phosphorus mg/L	Dissolved Selenium mg/L	Dissolved Silicon mg/L	Dissolved Silver mg/L	Dissolved Sodium mg/L	Dissolved Strontium mg/L	Dissolved Thallium mg/L	Dissolved Tin mg/L	Dissolved Titanium mg/L	Dissolved Uranium mg/L	Dissolved Vanadium mg/L	Dissolved Zinc mg/L
14/Oct/21	Landowner 21	0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.44	< 0.000016	< 0.0005	< 0.0009	< 0.0008	0.1	< 0.0002	0.042	0.020	0.003	< 0.003	< 0.08	0.0057	3.89	< 0.00005	273.0	0.152	< 0.0001	< 0.0005	0.001	< 0.001	< 0.001	< 0.005
16/Jun/22	Landowner 21	0.014	< 0.001	< 0.001	< 0.05	< 0.0005	0.38	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.036	0.007	0.003	< 0.003	0.12	< 0.0005	3.53	< 0.00005	245	0.139	< 0.0001	< 0.0005	0.004	< 0.001	< 0.001	0.005
20/Sep/22	Landowner 21	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.42	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.043	0.012	0.003	< 0.003	0.17	< 0.0005	3.73	< 0.00005	286	0.131	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.004
22/Jun/23	Landowner 21	< 0.004	< 0.001	< 0.001	< 0.05	< 0.00005	0.371	< 0.000016	< 0.0005	< 0.00006	< 0.0003	0.064	< 0.00005	0.038	0.0132	0.003	< 0.0004	< 0.05	< 0.00005	3.3	< 0.00003	238	0.134	< 0.00001	< 0.0001	< 0.001	0.00008	< 0.0005	< 0.004
14/Sep/23	Landowner 21	0.013	< 0.001	< 0.001	< 0.05	< 0.00005	0.302	< 0.000016	< 0.0005	< 0.00006	0.0009	0.059	< 0.00005	0.029	0.0109	0.004	< 0.0004	< 0.05	< 0.00005	3.3	< 0.00003	282	0.110	< 0.00001	0.0002	< 0.001	0.00007	< 0.0005	< 0.004
17/Jun/24	Landowner 21	0.007	< 0.001	< 0.001	< 0.05	< 0.00005	0.418	< 0.000016	< 0.0005	0.00006	0.0010	0.033	< 0.00005	0.040	0.00891	0.003	0.0013	< 0.05	0.00007	3.45	< 0.00003	250	0.098	< 0.00001	0.0001	< 0.001	0.00005	< 0.0005	< 0.004
17/Jun/24	Landowner 21	0.008	< 0.001	< 0.001	< 0.05	< 0.00005	0.400	< 0.000016	< 0.0005	0.00040	< 0.0003	0.031	< 0.00005	0.039	0.00917	0.003	0.0013	< 0.05	< 0.00005	3.50	< 0.00003	254	0.099	< 0.00001	< 0.0001	< 0.001	0.00005	< 0.0005	< 0.004
17/Oct/21	Landowner 13	0.018	< 0.001	0.003	< 0.05	< 0.001	0.18	0.000029	0.002	< 0.001	< 0.001	1.3	< 0.0002	0.050	0.219	0.005	< 0.004	-	0.0012	4.34	0.00007	196.0	1.04	< 0.0005	0.0010	0.008	0.005	0.004	0.01
16/Jun/22	Landowner 13	0.005	< 0.001	< 0.001	< 0.05	< 0.0005	0.15	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.041	0.165	0.002	< 0.003	0.09	< 0.0005	4.27	< 0.00005	158	0.989	< 0.0001	< 0.0005	0.004	0.003	< 0.001	0.006
21/Sep/22	Landowner 13	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.16	< 0.000032	< 0.0005	< 0.0009	< 0.0008	0.3	< 0.0001	0.047	0.179	0.002	< 0.003	< 0.08	< 0.0010	4.45	< 0.00005	172	1.03	< 0.0001	< 0.0010	< 0.002	0.003	< 0.001	< 0.004
5/Oct/21	Enhance Monitoring Well	0.044	< 0.001	0.003	< 0.05	< 0.001	0.33	0.000025	< 0.001	< 0.0009	0.0012	< 0.1	< 0.0005	0.032	< 0.005	0.008	< 0.003	0.10	0.0079	3.60	< 0.0001	290	0.058	< 0.0001	< 0.0005	0.002	0.001	0.002	0.009
26/Jun/22	Enhance Monitoring Well	0.091	< 0.001	0.002	< 0.05	< 0.0005	0.27	0.000038	< 0.0005	< 0.0009	< 0.0008	< 0.1	0.0004	0.030	0.515	0.008	< 0.003	< 0.08	0.0013	5.03	< 0.00005	282	0.056	< 0.0001	< 0.0005	0.005	0.001	< 0.001	0.041
12/Sep/23	Enhance Monitoring Well	< 0.004	< 0.001	< 0.001	< 0.05	< 0.00005	0.070	0.000258	< 0.0005	0.00033	0.0945	0.066	0.00006	0.035	0.471	< 0.001	0.0017	0.09	0.00008	5.0	0.00136	256	0.632	0.00005	0.0004	< 0.001	0.00279	< 0.0005	0.053
18/Jun/24	Enhance Monitoring Well	0.012	< 0.001	0.001	< 0.05	< 0.00005	0.323	< 0.000016	< 0.0005	0.00097	< 0.0003	0.080	< 0.00005	0.035	0.00757	0.005	0.0005	0.16	0.0103	3.83	< 0.00003	272	0.053	0.00001	0.0001	< 0.001	0.00061	< 0.0005	< 0.004
18/Sep/24	Enhance Monitoring Well	0.029	< 0.001	< 0.01	< 0.05	< 0.00005	0.300	< 0.000039	0.0007	0.00018	0.0010	0.024	0.00018	0.033	0.00679	0.007	0.0007	< 0.20	0.0113	3.60	< 0.00005	287	0.054	< 0.00001	0.0003	< 0.002	0.00135	< 0.0009	0.010
5/Oct/21	Enhance Monitoring Well	0.005	< 0.001	< 0.001	< 0.05	< 0.001	0.09	< 0.000016	< 0.001	< 0.0009	< 0.0008	0.5	< 0.0005	0.042	0.344	0.002	< 0.003	< 0.08	0.0128	5.64	< 0.0001	46.9	0.618	< 0.0001	< 0.0005	0.001	0.003	< 0.001	0.011
26/Jun/22	Enhance Monitoring Well	0.010	< 0.001	< 0.001	0.05	< 0.0005	0.07	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0002	0.040	0.248	0.002	< 0.003	0.11	< 0.0005	5.14	< 0.00005	47.3	0.579	< 0.0001	< 0.0005	0.003	0.003	< 0.001	0.007
12/Sep/23	Enhance Monitoring Well	< 0.004	< 0.001	< 0.001	< 0.05	< 0.00005	0.077	< 0.000016	< 0.0005	0.00007	0.0809	0.1	< 0.00005	0.044	0.275	0.002	0.0007	< 0.05	< 0.00005	5.25	< 0.00003	50.3	0.611	< 0.00001	0.0003	< 0.001	0.00291	< 0.0005	0.064
18/Jun/24	Enhance Monitoring Well	0.013	< 0.001	< 0.001	< 0.05	< 0.00005	0.089	< 0.000016	< 0.0005	0.00007	0.0461	0.048	< 0.00005	0.048	0.286	0.002	0.0005	< 0.05	0.00018	6.06	< 0.00003	51.4	0.647	< 0.00001	0.0002	< 0.001	0.00232	< 0.0005	0.036
9/Sep/24	Enhance Monitoring Well	0.007	< 0.001	< 0.001	< 0.05	< 0.00005	0.080	< 0.000016	< 0.0005	0.00022	0.125	0.003	< 0.00005	0.046	0.285	0.002	< 0.0004	< 0.05	< 0.00005	6.33	< 0.00003	51.6	0.641	< 0.00001	0.0002	< 0.001	0.00228	< 0.0005	0.071
5/Oct/21	Enhance Monitoring Well	0.008	< 0.001	< 0.001	< 0.05	< 0.001	0.09	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	0.039	0.631	0.002	< 0.003	< 0.08	0.0057	5.38	0.0001	44.8	0.672	< 0.0001	< 0.0005	< 0.001	0.003	< 0.001	< 0.005
26/Jun/22	Enhance Monitoring Well	0.009	< 0.001	< 0.001	< 0.05	< 0.0005	0.07	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0002	0.037	0.005	0.002	< 0.003	0.24	< 0.0005	3.63	< 0.00005	45.6	0.617	< 0.0001	< 0.0005	0.003	0.003	< 0.001	< 0.005
21/Sep/23	Enhance Monitoring Well	0.023	< 0.001	0.002	< 0.05	< 0.00005	0.311	< 0.000016	< 0.0005	0.00007	< 0.0003	0.009	0.00005	0.035	0.00848	0.008	< 0.0004	0.17	0.00010	3.4	< 0.00003	301	0.051	< 0.00001	0.0002	< 0.001	0.00070	0.0006	< 0.004
21/Sep/23	Enhance Monitoring Well	0.025	< 0.001	0.002	< 0.05	< 0.00005	0.312	< 0.000016	< 0.0005	0.00040	< 0.0003	0.016	< 0.00005	0.035	0.00511	0.008	< 0.0004	0.14	0.00073	3.4	< 0.00003	291	0.059	< 0.00001	0.0006	< 0.001	0.00147	0.0007	< 0.004
18/Jun/24	Enhance Monitoring Well	0.015	< 0.001	< 0.001	< 0.05	< 0.00005	0.084	< 0.000016	< 0.0005	0.00033	0.0005	0.020	< 0.00005	0.045	0.533	0.001	0.0004	< 0.05	< 0.00005	5.82	< 0.00003	48.2	0.667	0.00002	< 0.0001	< 0.001	0.00269	< 0.0005	< 0.004
17/Sep/24	Monitoring Well	0.015	< 0.001	< 0.001	0.09	< 0.00005	0.084	0.000032	< 0.0005	0.00044	0.0004	0.339	< 0.00005	0.044	0.572	0.002	0.0010	< 0.05	< 0.00005	6.33	< 0.00003	49.0	0.668	0.00002	< 0.0001	< 0.001	0.00253	< 0.0005	< 0.004
6/Oct/21	Landowner 23	< 0.004	< 0.001	< 0.001	0.24	< 0.001	0.07	0.000031	< 0.001	< 0.0009	0.0156	< 0.1	< 0.0005	0.041	< 0.005	< 0.001	< 0.003	< 0.08	0.0008	6.84	< 0.0001	31.4	0.618	< 0.0001	< 0.0005	0.003	0.007	< 0.001	0.062
6/Oct/21	Landowner 23	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.40	< 0.000016	< 0.001	< 0.0009	0.0075	< 0.1	< 0.0005	0.053	0.009	0.001	< 0.003	< 0.08	0.0014	3.39	< 0.0001	323	0.075	< 0.0001	< 0.0005	0.004	< 0.001	< 0.001	0.008
16/Jun/22	Landowner 23	0.007	< 0.001	< 0.001	< 0.05	< 0.0005	0.36	0.000019	< 0.0005	< 0.0009	0.0017	< 0.1	< 0.0001	0.048	< 0.005	0.001	< 0.003	0.13	< 0.0005	3.26	< 0.00005	277	0.070	< 0.0001	< 0.0005	0.005	< 0.001	< 0.001	0.006
20/Sep/22	Landowner 23	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.38	< 0.000016	< 0.0005	< 0.0009	0.0046	< 0.1	0.0001	0.056	0.007	0.001	< 0.003	0.18	< 0.0005	3.51	< 0.00005	317	0.078	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.004
22/Jun/23	Landowner 23	< 0.004	< 0.001	< 0.001	< 0.05	< 0.00005	0.343	< 0.000016	< 0.0005	< 0.00006	0.0028	0.007	0.00024	0.054	0.00802	0.001	< 0.0004	0.05	< 0.00005	3.1	< 0.00003	271	0.074	< 0.00001	0.0002	< 0.001	0.00008	< 0.0005	0.005
13/Sep/23	Landowner 23	0.009	< 0.001	< 0.001	< 0.05	< 0.00005	0.396	< 0.000016	< 0.0005	< 0.00006	0.0017	0.007	0.00008	0.061	0.00752	0.002	< 0.0004	< 0.05	< 0.00005	2.9	< 0.00003	273	0.071	< 0.00001	0.0001	< 0.001	0.00007	< 0.0005	< 0.004
6/Oct/21	Landowner 20	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.38	0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	0.048	0.006	0.002	< 0.003	< 0.08	< 0.0005	3.48	< 0.0001	276	0.071	< 0.0001	< 0.0005	0.004	< 0.001	< 0.001	< 0.005
8/Oct/21	Landowner 10	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.21	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	0.063	0.015	0.002	< 0.003	-	< 0.0005	4.43	< 0.0001	238.0	0.173	< 0.0001	< 0.0005	0.003	< 0.001	< 0.001	0.005
8/Oct/21	Landowner 10	< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	0.21	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	0.067	0.014	0.002	< 0.003	-	0.0008	4.31	< 0.0001	244.0	0.175	< 0.0001	< 0.0005	0.003	< 0.001	< 0.001	0.007
16/Jun/22	Landowner 20	0.006	< 0.001	< 0.001	< 0.05	< 0.0005	0.35	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.043	< 0.005	0.002	< 0.003	0.11	< 0.0005	3.25	< 0.00005	229	0.072	< 0.0001	< 0.0005	0.005	< 0.001	< 0.001	0.006
18/Jun/22	Landowner 10	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.20	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.064	0.026	0.002	< 0.003	0.15	< 0.0005	3.98	< 0.00005	224	0.162	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	0.004
20/Sep/22	Landowner 10	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.21	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.069	0.026	0.002	< 0.003	0.12	< 0.0005	4.46	< 0.00005	249	0.170	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	0.005
20/Sep/22	Landowner 10	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.21	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	-	0.026	0.002	< 0.003	-	< 0.0005	-	< 0.00005	247	-	< 0.0001	-	< 0.001	< 0.001	-	0.006
23/Sep/22	Landowner 20	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.37	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.052	0.005	0.002	< 0.003	0.12	< 0.0005	3.46	< 0.00005	278	0.065	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.004
12/Jun/24	Landowner 10	0.007	< 0.001	< 0.001	< 0.05	< 0.00005	0.243	< 0.000016	< 0.0005	< 0.00006	0.0026	0.035	< 0.00005	0.077	0.0265	0.002	< 0.0004	< 0.05	< 0.00005	4.71	< 0.00003	238	0.179	< 0.00001	0.0001	< 0.001	0.00015	< 0.0005	0.005
17/Jun/24	Landowner 20	0.009	< 0.001	< 0.001	< 0.05	< 0.00005	0.393	< 0.000016	< 0.0005	< 0.00006	0.0021	0.008	< 0.00005	0.056	0.00544	0.002	< 0.0004	< 0.05	< 0.00005	3.49	< 0.00003	258	0.067	< 0.00001	0.0001	< 0.001	0.00019	< 0.0005	< 0.004
11/Sep/24	Landowner 20	0.013	< 0.001	< 0.001	< 0.05	< 0.00005	0.431	< 0.000016	< 0.0005	< 0.00006	0.0003	0.003	< 0.00005	0.064	0.00544	0.002	< 0.0004	< 0.05	0.00011	4.11	< 0.00003	240	0.067	< 0.00001	< 0.0001	< 0.001	0.00022	< 0.0005	< 0.004

Date (dd-mmm-yy)	Landowner	Dissolved Aluminum mg/L	Dissolved Antimony mg/L	Dissolved Arsenic mg/L	Dissolved Barium mg/L	Dissolved Beryllium mg/L	Dissolved Boron mg/L	Dissolved Cadmium mg/L	Dissolved Chromium mg/L	Dissolved Cobalt mg/L	Dissolved Copper mg/L	Dissolved Iron mg/L	Dissolved Lead mg/L	Dissolved Lithium mg/L	Dissolved Manganese mg/L	Dissolved Molybdenum mg/L	Dissolved Nickel mg/L	Dissolved Phosphorus mg/L	Dissolved Selenium mg/L	Dissolved Silicon mg/L	Dissolved Silver mg/L	Dissolved Sodium mg/L	Dissolved Strontium mg/L	Dissolved Thallium mg/L	Dissolved Tin mg/L	Dissolved Titanium mg/L	Dissolved Uranium mg/L	Dissolved Vanadium mg/L	Dissolved Zinc mg/L
14/Oct/21	Landowner 5	0.015	< 0.001	0.001	< 0.05	< 0.001	0.17	0.000023	0.002	< 0.001	0.002	< 0.1	< 0.0002	0.030	0.233	0.002	< 0.004	< 0.08	< 0.0005	4.51	< 0.00005	170	0.51	< 0.0005	< 0.0005	0.005	0.008	< 0.001	0.01
16/Jun/22	Landowner 5	0.018	< 0.001	< 0.001	< 0.05	< 0.0005	0.18	0.000031	< 0.0005	< 0.0009	0.0018	< 0.1	< 0.0001	0.029	0.190	0.002	< 0.003	0.19	< 0.0005	4.59	< 0.00005	149	0.491	< 0.0001	< 0.0005	0.004	0.008	< 0.001	0.008
22/Sep/22	Landowner 5	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.20	0.000043	< 0.0005	< 0.0009	0.0019	< 0.1	0.0001	0.035	0.207	0.002	< 0.003	0.14	< 0.0005	5.21	< 0.00005	166	0.518	< 0.0001	< 0.0005	< 0.001	0.008	< 0.001	0.011
23/Jun/23	Landowner 5	< 0.004	< 0.001	< 0.001	< 0.05	< 0.00005	0.207	0.000021	< 0.0005	0.00014	0.0021	0.012	0.00010	0.037	0.207	0.002	< 0.0004	< 0.05	< 0.00005	4.44	< 0.00003	148	0.468	< 0.00001	< 0.0001	< 0.001	0.00748	< 0.0005	< 0.004
18/Sep/24	Landowner 5	0.020	< 0.001	< 0.001	< 0.05	< 0.00005	0.180	0.000022	< 0.0005	0.00018	0.0017	0.022	0.00009	0.031	0.211	0.002	< 0.0004	< 0.05	< 0.00005	4.99	< 0.00003	135	0.472	< 0.00001	< 0.0001	< 0.001	0.00642	< 0.0005	0.007
18/Sep/24	Landowner 5	0.008	< 0.001	< 0.001	< 0.05	< 0.00005	0.186	0.000022	< 0.0005	0.00019	0.0020	0.024	0.00011	0.032	0.214	0.002	< 0.0004	< 0.05	< 0.00005	5.16	< 0.00003	140	0.472	< 0.00001	< 0.0001	< 0.001	0.00650	< 0.0005	0.007
8/Oct/21	Landowner 17	0.016	< 0.001	< 0.001	0.11	< 0.001	0.06	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	0.039	0.411	0.002	< 0.003	-	0.0155	6.09	< 0.0001	35.1	0.916	< 0.0001	< 0.0005	0.003	0.002	< 0.001	0.006
18/Jun/22	Landowner 17	< 0.004	< 0.001	< 0.001	0.11	< 0.0005	0.06	< 0.000016	< 0.0005	< 0.0009	< 0.0008	< 0.1	< 0.0001	0.040	0.334	0.002	< 0.003	0.15	< 0.0005	5.47	< 0.00005	27.2	0.970	< 0.0001	< 0.0005	< 0.001	0.003	< 0.001	0.008
21/Sep/22	Landowner 17	< 0.004	< 0.001	< 0.001	0.11	< 0.0005	0.07	< 0.000032	< 0.0005	< 0.0009	< 0.0008	0.3	< 0.0001	0.042	0.316	0.002	< 0.003	< 0.08	< 0.0010	5.60	< 0.00005	30.9	1.03	< 0.0001	< 0.0010	< 0.002	0.002	< 0.001	0.005
19/Sep/23	Landowner 17	0.011	< 0.001	< 0.001	0.12	< 0.00005	0.061	< 0.000016	< 0.0005	0.00043	0.0012	0.386	< 0.00005	0.044	0.345	0.002	0.0006	< 0.05	< 0.00005	5.48	< 0.00003	30.8	0.912	0.00001	0.0001	< 0.001	0.00262	< 0.0005	0.012
12/Sep/24	Landowner 17	0.006	< 0.001	< 0.001	0.12	< 0.00005	0.068	< 0.000016	< 0.0005	0.00044	< 0.0003	0.358	< 0.00005	0.049	0.336	0.002	0.0004	< 0.05	< 0.00005	6.44	< 0.00003	32.6	1.15	< 0.00001	< 0.0001	< 0.001	0.00208	< 0.0005	< 0.004
7/Oct/21	Landowner 32	0.006	< 0.001	< 0.001	0.08	< 0.001	0.05	< 0.000016	< 0.001	< 0.0009	0.0098	< 0.1	< 0.0005	0.088	< 0.005	0.003	< 0.003	< 0.08	0.0067	7.10	< 0.0001	40.2	1.00	< 0.0001	< 0.0005	0.002	0.028	< 0.001	0.014
18/Jun/22	Landowner 32	< 0.004	< 0.001	< 0.001	0.07	< 0.0005	0.05	< 0.000016	0.0007	< 0.0009	0.0177	< 0.1	0.0003	0.083	< 0.005	0.003	< 0.003	0.16	0.0072	6.07	< 0.00005	32.8	0.999	< 0.0001	< 0.0005	< 0.001	0.023	< 0.001	0.015
14/Oct/21	Landowner	< 0.004	< 0.001	< 0.001	0.07	< 0.0005	0.06	0.000016	< 0.0005	< 0.0009	0.0012	< 0.1	< 0.0002	0.045	< 0.005	0.002	< 0.003	< 0.08	< 0.0005	4.97	< 0.00005	36.2	0.819	< 0.0001	< 0.0005	< 0.001	0.008	< 0.001	0.027
14/Oct/21	Landowner	0.005	< 0.001	< 0.001	0.07	< 0.0005	0.06	< 0.000016	< 0.0005	< 0.0009	0.0013	< 0.1	< 0.0002	0.046	< 0.005	0.002	< 0.003	< 0.08	< 0.0005	4.82	< 0.00005	34.2	0.818	< 0.0001	< 0.0005	< 0.001	0.008	< 0.001	0.023
17/Jun/22	Landowner	< 0.004	< 0.001	< 0.001	0.06	< 0.0005	0.05	0.000016	< 0.0005	< 0.0009	0.0029	< 0.1	< 0.0001	0.038	< 0.005	0.002	< 0.003	0.09	0.0016	4.65	< 0.00005	29.3	0.835	< 0.0001	< 0.0005	< 0.001	0.008	< 0.001	0.035
17/Jun/22	Landowner	< 0.004	< 0.001	< 0.001	0.06	< 0.0005	0.05	0.000017	< 0.0005	< 0.0009	0.0029	< 0.1	0.0001	0.040	< 0.005	0.002	< 0.003	< 0.08	0.0016	4.66	< 0.00005	29.7	0.831	< 0.0001	< 0.0005	< 0.001	0.008	< 0.001	0.034
20/Sep/22	Landowner	< 0.004	< 0.001	< 0.001	0.06	< 0.0005	0.06	< 0.000032	< 0.0005	< 0.0009	0.0029	< 0.1	< 0.0001	0.047	< 0.005	0.002	< 0.003	0.12	0.0018	5.37	< 0.00005	33.5	0.889	< 0.0001	< 0.0010	< 0.002	0.008	< 0.001	0.056
16/Oct/21	Landowner 18	0.004	< 0.001	< 0.001	0.08	< 0.0005	0.07	0.000023	< 0.0005	< 0.0009	0.0031	< 0.1	< 0.0002	0.034	0.157	0.004	< 0.003	< 0.08	< 0.0005	5.24	< 0.00005	48.9	1.41	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	0.012
15/Jun/22	Landowner 18	< 0.004	< 0.001	< 0.001	0.08	< 0.0005	0.07	< 0.000016	< 0.0005	< 0.0009	0.0016	0.1	< 0.0001	0.030	0.142	0.004	< 0.003	0.15	< 0.0005	4.38	< 0.00005	40.2	1.36	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	0.009
19/Sep/22	Landowner 18	0.008	< 0.001	< 0.001	0.08	< 0.0005	0.07	< 0.000080	< 0.0005	< 0.0009	< 0.0008	0.3	< 0.0002	0.027	0.130	0.004	< 0.003	0.13	< 0.0025	5.14	< 0.00005	44.9	1.21	< 0.0001	< 0.0025	< 0.005	< 0.001	< 0.001	< 0.005
16/Jun/24	Landowner 18	0.008	< 0.001	< 0.001	0.08	< 0.00005	0.085	< 0.000016	< 0.0005	0.00007	0.0022	0.294	< 0.00005	0.039	0.125	0.003	< 0.0004	< 0.05	< 0.00005	4.60	< 0.00003	44.0	1.07	< 0.00001	< 0.0001	< 0.001	0.00017	< 0.0005	< 0.004
17/Jun/21	Landowner 6	< 0.004	< 0.001	< 0.001	0.12	< 0.001	0.04	0.000027	< 0.001	< 0.0009	0.0036	< 0.1	< 0.0005	0.05	< 0.005	0.001	< 0.003	< 0.08	< 0.005	6.97	< 0.0001	19.6	0.537	< 0.0001	< 0.0005	0.003	0.008	< 0.001	0.018
4/Oct/21	Landowner 6	0.006	< 0.001	< 0.001	0.11	< 0.001	0.03	0.000023	< 0.001	< 0.0009	0.0035	< 0.1	< 0.0005	0.043	< 0.005	0.001	< 0.003	< 0.08	0.0136	6.00	0.0001	19.3	0.553	< 0.0001	< 0.0005	0.001	0.008	< 0.001	0.015
14/Jun/22	Landowner 6	< 0.004	< 0.001	< 0.001	0.14	< 0.0005	0.04	0.000023	< 0.0005	< 0.0009	0.0052	< 0.1	< 0.0002	0.046	< 0.005	0.001	< 0.003	< 0.08	0.0010	5.78	0.00010	18.5	0.598	< 0.0001	< 0.0005	0.006	0.009	< 0.001	0.026
19/Sep/22	Landowner 6	< 0.004	< 0.001	< 0.001	0.13	< 0.0005	0.04	< 0.000032	< 0.0005	< 0.0009	0.0028	< 0.1	< 0.0001	0.042	< 0.005	0.001	< 0.003	0.15	0.0016	7.12	< 0.00005	20.3	0.573	< 0.0001	< 0.0010	< 0.002	0.010	< 0.001	0.007
15/Sep/23	Landowner 6	0.039	< 0.001	< 0.001	0.13	< 0.00005	0.031	0.000047	0.0005	0.00037	0.0097	0.103	0.00043	0.034	0.00388	0.001	0.0008	< 0.05	0.00137	5.40	< 0.00003	19.0	0.555	< 0.00001	0.0002	< 0.001	0.00792	< 0.0005	0.035
12/Jun/24	Landowner 6	0.012	< 0.001	< 0.001	0.13	< 0.00005	0.046	0.000046	< 0.0005	0.00010	0.0317	0.078	0.00032	0.061	0.00795	< 0.001	0.0021	< 0.05	0.00133	6.30	< 0.00003	19.1	0.549	< 0.00001	< 0.0001	< 0.001	0.00765	< 0.0005	0.078
10/Sep/24	Landowner 6	0.015	< 0.001	< 0.001	0.12	< 0.00005	0.039	0.000040	< 0.0005	0.00040	0.0169	0.038	0.00062	0.052	0.00218	0.001	0.0010	< 0.05	0.00139	7.00	< 0.00003	20.2	0.589	< 0.00001	0.0007	< 0.001	0.00589	< 0.0005	0.058
7/Oct/21	Landowner 22	0.007	< 0.001	< 0.001	< 0.05	< 0.001	0.34	< 0.000016	< 0.001	< 0.0009	0.0040	< 0.1	0.0007	0.053	< 0.005	0.002	< 0.003	< 0.08	< 0.0005	3.46	< 0.0001	279	0.044	< 0.0001	< 0.0005	0.003	< 0.001	< 0.001	< 0.005
15/Jun/22	Landowner 22	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.34	< 0.000016	< 0.0005	< 0.0009	0.0114	< 0.1	0.0007	0.043	< 0.005	0.004	< 0.003	0.18	< 0.0005	2.94	< 0.00005	244	0.043	< 0.0001	< 0.0005	0.001	< 0.001	< 0.001	< 0.004
20/Sep/22	Landowner 22	< 0.004	< 0.001	< 0.001	< 0.05	< 0.0005	0.36	< 0.000016	< 0.0005	< 0.0009	0.0117	< 0.1	0.0007	0.050	< 0.005	0.004	< 0.003	0.17	< 0.0005	3.23	< 0.00005	271	0.046	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.004
22/Jun/23	Landowner 22	< 0.004	< 0.001	< 0.001	< 0.05	< 0.00005	0.300	< 0.000016	< 0.0005	< 0.00006	0.0056	0.008	0.00051	0.051	0.00830	0.002	< 0.0004	< 0.05	0.00010	2.8	< 0.00003	250	0.046	< 0.00001	< 0.0001	0.001	0.00022	< 0.0005	< 0.004
14/Sep/23	Landowner 22	0.022	< 0.001	< 0.001	< 0.05	< 0.00005	0.345	< 0.000016	< 0.0005	< 0.00006	0.0080	0.006	0.00074	0.058	0.00517	0.003	< 0.0004	< 0.05	< 0.00005	2.5	< 0.00003	239	0.045	< 0.00001	0.0002	< 0.001	0.00018	< 0.0005	0.005
12/Jun/24	Landowner 22	0.015	< 0.001	< 0.001	< 0.05	< 0.00005	0.337	< 0.000016	< 0.0005	< 0.00006	0.0059	0.006	0.00015	0.058	0.00364	0.002	< 0.0004	< 0.05	< 0.00005	3.29	< 0.00003	247	0.042	< 0.00001	< 0.0001	< 0.001	0.00014	< 0.0005	< 0.004
12/Sep/24	Landowner 22	0.023	< 0.001	< 0.001	< 0.05	< 0.00005	0.341	< 0.000016	< 0.0005	< 0.00006	0.0039	< 0.001	0.00068	0.065	0.00348	0.001	< 0.0004	< 0.05	< 0.00005	3.35	< 0.00003	235	0.044	< 0.00001	< 0.0001	< 0.001	0.00017	< 0.0005	< 0.004

Date (dd-mmm-yy)	Landowner	Dissolved Aluminum mg/L	Dissolved Antimony mg/L	Dissolved Arsenic mg/L	Dissolved Barium mg/L	Dissolved Beryllium mg/L	Dissolved Boron mg/L	Dissolved Cadmium mg/L	Dissolved Chromium mg/L	Dissolved Cobalt mg/L	Dissolved Copper mg/L	Dissolved Iron mg/L	Dissolved Lead mg/L	Dissolved Lithium mg/L	Dissolved Manganese mg/L	Dissolved Molybdenum mg/L	Dissolved Nickel mg/L	Dissolved Phosphorus mg/L	Dissolved Selenium mg/L	Dissolved Silicon mg/L	Dissolved Silver mg/L	Dissolved Sodium mg/L	Dissolved Strontium mg/L	Dissolved Thallium mg/L	Dissolved Tin mg/L	Dissolved Titanium mg/L	Dissolved Uranium mg/L	Dissolved Vanadium mg/L	Dissolved Zinc mg/L
17/Oct/21	Enhance Monitoring Well	0.012	< 0.001	0.002	0.07	< 0.001	0.13	0.000059	0.002	< 0.001	0.001	< 0.1	< 0.0002	0.134	0.019	< 0.001	0.004	0.08	0.0017	10.66	0.00005	77.2	1.78	< 0.0005	0.0008	0.011	0.029	0.003	0.06
18/Jun/22	Enhance Monitoring Well	< 0.004	< 0.001	< 0.001	0.07	< 0.0005	0.08	0.000033	< 0.0005	< 0.0009	0.0017	< 0.1	< 0.0001	0.112	< 0.005	0.001	< 0.003	0.16	< 0.0005	8.51	< 0.00005	57.8	1.38	< 0.0001	< 0.0005	< 0.001	0.024	< 0.001	0.007
18/Jun/22	Enhance Monitoring Well	0.004	< 0.001	< 0.001	0.07	< 0.0005	0.09	0.000051	< 0.0005	< 0.0009	0.0018	< 0.1	< 0.0001	0.114	< 0.005	0.001	< 0.003	0.17	< 0.0005	8.52	< 0.00005	57.3	1.40	< 0.0001	< 0.0005	< 0.001	0.023	< 0.001	0.008
20/Sep/22	Enhance Monitoring Well	< 0.004	< 0.001	< 0.001	0.09	< 0.0005	0.12	< 0.000080	< 0.0005	< 0.0009	0.0018	< 0.1	< 0.0002	0.126	< 0.005	0.002	< 0.003	0.15	< 0.0025	10.6	< 0.00005	67.3	1.30	< 0.0001	< 0.0025	< 0.005	0.020	< 0.001	< 0.005
13/Sep/23	Enhance Monitoring Well	0.115	< 0.001	< 0.001	0.10	< 0.00005	0.084	0.000034	< 0.0005	0.00034	0.0037	0.387	0.00056	0.089	0.0286	0.001	0.0020	0.05	0.00049	9.16	< 0.00003	61.8	1.04	0.00002	0.0002	0.003	0.0159	0.0005	0.007
16/Jun/24	Enhance Monitoring Well	0.046	< 0.001	< 0.001	0.07	< 0.00005	0.090	< 0.000016	< 0.0005	0.00009	0.0032	0.033	0.00007	0.143	0.00160	< 0.001	0.0013	< 0.05	0.00042	8.62	< 0.00003	55.1	0.901	< 0.00001	0.0001	0.002	0.0171	< 0.0005	< 0.004
10/Sep/24	Enhance Monitoring Well	0.019	< 0.001	< 0.001	0.08	< 0.00005	0.109	0.000021	< 0.0005	0.00009	0.0045	0.016	< 0.00005	0.124	0.00175	0.002	0.0016	< 0.05	0.00063	9.10	< 0.00003	57.6	0.889	< 0.00001	0.0007	< 0.001	0.0125	< 0.0005	0.006
9/Oct/19		< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	< 0.01	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	< 0.001	< 0.005	< 0.001	< 0.003	< 0.08	< 0.0005	< 0.032	< 0.00005	< 0.6	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.005
9/Oct/19		< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	< 0.01	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	< 0.001	< 0.005	< 0.001	< 0.003	< 0.08	< 0.0005	< 0.032	< 0.00005	< 0.6	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.005
22/Jul/20		< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	< 0.01	0.000027	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	< 0.001	< 0.005	< 0.001	< 0.003	-	< 0.0005	-	< 0.0001	< 0.6	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	-	< 0.005
28/Oct/20		< 0.004	< 0.001	< 0.001	< 0.05	< 0.001	< 0.01	< 0.000016	< 0.001	< 0.0009	< 0.0008	< 0.1	< 0.0005	< 0.001	< 0.005	< 0.001	< 0.003	-	< 0.0005	< 0.032	< 0.0001	< 0.6	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.005

INTEGRATED SUSTAINABILITY

Table 3 : Groundwater Analytical Results: Groundwater Isotopes

Enhance Energy **Project Number:** CP24-EEI-01-00 **Date:** Feb. 4, 2025

Date (dd-mmm-yy)	Landowner none	d 13C-CH4 ‰	d 13C-CO2 ‰	d 13C-C1 ‰	d 18O-BaSO4 None	d34S None	d 13C DIC None
7/Oct/21	Landowner 2	-	-	-	-	-	-12.5
7/Oct/21	Landowner 2	-	-	-	-	-	-12.2
15/Jun/22	Landowner 2	-	-	-	-	-	-11.9
20/Sep/22	Landowner 2	-	-	-	-	-	-12.7
21/Jun/23	Landowner 2	-	-	-	-	-	-12.8
13/Sep/23	Landowner 2	-	-	-	-	-	-12.7
12/Jun/24	Landowner 2	-	-	-	-	-	-12.8
12/Jun/24	Landowner 2	-	-	-	-	-	-12.5
11/Sep/24	Landowner 2	-	-	-	-	-	-13.0
7/Oct/21	Landowner 1	-	-	-	-	-	-12.6
17/Jun/22	Landowner 1	-	-19.61	-32.67	-	-	-
29/Jun/22	Landowner 1	-	-21.7	-	-	-	-
19/Sep/22	Landowner 1	-	-	-	-	-0.3	-12.6
10/Oct/22	Landowner 1	-67.8	-20.6	-	-	-	-
22/Jun/23	Landowner 1	-	-	-	-	0	-12.7
13/Sep/23	Landowner 1	-	-	-	-	-	-12.7
11/Jun/24	Landowner 1	-	-	-	-	0.8	-12.7
18/Sep/24	Landowner 1	-	-	-	-	-	-13.3
6/Oct/21	Landowner 25	-	-	-	-	-	-12.2
7/Oct/21	Landowner 33	-	-	-	-	-	-13.1
15/Jun/22	Landowner 33	-	-	-	-	-	-13.3
21/Sep/22	Landowner 33	-	-25.1	-	-	-	-12.9
10/Oct/22	Landowner 33	-	-21.6	-	-	-	-
21/Jun/23	Landowner 33	-	-21.5	-	-	-	-13.3
19/Sep/23	Landowner 33	-	-23.0	-	-	-2.5	-13.5
19/Sep/23	Landowner 33	-	-23.0	-	-	2.1	-13.4
11/Jun/24	Landowner 33	-	-23.2	-	-	2.6	-13.4
10/Sep/24	Landowner 33	-	-	-	-	-	-13.3
15/Jun/22	Landowner 33	-	-	-	-	-	-12.4
8/Oct/21	Landowner 4	-	-	-	-9.2	-5.2	-12.6
18/Jun/22	Landowner 4	-	-	-	-	-	-12.7
29/Jun/22	Landowner 4	-	-22.2	-	-	-	-
19/Sep/22	Landowner 4	-	-	-	-	-5.3	-13.3
21/Jun/23	Landowner 4	-	-	-	-	-	-12.9
13/Sep/23	Landowner 4	-	-	-	-	-	-12.9
12/Sep/24	Landowner 4	-	-	-	-	-5.4	-11.4
8/Oct/21	Landowner 31	-	-	-	-1.6	0.7	-13
17/Jun/22	Landowner 31	-	-	-	-	-	-12.5
29/Jun/22	Landowner 31	-	-22.2	-	-	-	-
19/Sep/22	Landowner 31	-	-	-	-	0.6	-13.0
19/Sep/22	Landowner 31	-	-	-	-	0.5	-13.1
27/Jun/23	Landowner 31	-	-	-	-	-2.8	-12.8
14/Sep/23	Landowner 31	-	-	-	-	-4.8	-12.9
7/Oct/21	Landowner 24	-	-	-	-	-	-12.8
8/Oct/21	Landowner 24	-	-	-	0.3	1	-
17/Jun/22	Landowner 24	-	0	0	-	-	-
17/Jun/22	Landowner 24	-	-	-	-	-	-14.1
29/Jun/22	Landowner 24	-88.8	-	-	-	-	-
10/Oct/22	Landowner 24	-40.7	-13.3	-	-	-	-
15/Jun/21	UL2 - Development	-	-	-	-	-	0.410

Date (dd-mmm-yy)	Landowner none	d13C-CH4 ‰	d13C-CO2 ‰	d13C-C1 ‰	d18O-BaSO4 None	d34S None	d13C DIC None
22/Sep/23	Landowner 35	-	-	-	-	-	-13.0
20/Jun/24	Landowner 35	-	-22.8	-	-	-	-13.0
17/Sep/24	Landowner 35	-	-23.5	-	-	-5.4	-13.4
8/Oct/21	Landowner 19	-	-	-	-	-	-13.4
24/Jun/23	Landowner 19	-	-	-	-	-0.2	-13.3
24/Jun/23	Landowner 19	-	-	-	-	-0.6	-13.5
19/Sep/23	Landowner 19	-	-	-	-	-	-13.4
11/Jun/24	Landowner 19	-	-	-	-	0.5	-13.4
11/Sep/24	Landowner 19	-	-	-	-	-	-14.0
17/Jun/21	Landowner 29	-	-	-	-	-	0.595
23/Jun/22	Landowner 29	-	-	-	-	-	-12.2
23/Jun/22	Landowner 29	-	-	-	-	-	-12.2
24/Jun/22	Landowner 29	-	-20.49	-61.72	-	-	-13.3
24/Sep/22	Landowner 29	-	-	-	-	-	-11.9
29/Jun/23	Landowner 29	-	-	-	-	2.0	-12.6
14/Sep/23	Landowner 29	-	-	-	-	-	-12.5
17/Jun/24	Landowner 29	-	-	-	-	-	-12.4
12/Sep/24	Landowner 29	-	-	-	-	2.1	-12.4
15/Jun/21	Enhance Facility Well	-	-	-	-	-	0.503
5/Oct/21	Enhance Facility Well	-	-	-	-	-	-12.2
14/Jun/22	Enhance Facility Well	-	-	-	-	-	-12.1
19/Sep/22	Enhance Facility Well	-	-	-	-	-	-12.6
21/Jun/23	Enhance Facility Well	-	-	-	-	-	-12.4
13/Sep/23	Enhance Facility Well	-	-	-	-	-	-12.5
13/Sep/23	Enhance Facility Well	-	-	-	-	-	-12.4
18/Jun/24	Enhance Facility Well	-	-	-	-	-	-12.5
12/Sep/24	Enhance Facility Well	-	-	-	-	-1.4	-12.5
12/Sep/24	Enhance Facility Well	-	-	-	-	-	-12.7
6/Oct/21	Landowner 14	-	-	-	-	-	-12.7
18/Jun/22	Landowner 14	-	-	-	-	-	-12.9
21/Sep/22	Landowner 14	-	-	-	-	-	-13.0
27/Jun/23	Landowner 14	-	-	-	-	1.1	-13.3
14/Sep/23	Landowner 14	-	-	-	-	-	-13.2
17/Jun/24	Landowner 14	-	-	-	-	-	-13.2
10/Sep/24	Landowner 14	-	-	-	-	-	-13.7
8/Oct/21	Landowner 26	-	-	-	-4	-1.6	-12.6
21/Sep/22	Landowner 26	-	-	-	-	-	-13.1
16/Oct/21	Landowner 7	-	-	-	-	-	-11.9
16/Jun/22	Landowner 7	-	-	-	-	-	-12.3
20/Sep/22	Landowner 7	-	-	-	-	-	-13.0
15/Sep/23	Landowner 7	-	-22.6	-	-	2.2	-12.8
12/Sep/24	Landowner 7	-	-	-	-	-3.6	-12.8
6/Oct/21	Landowner 11	-	-	-	-	-	-12.4
15/Jun/22	Landowner 11	-	-12.1	-	-	-	-
15/Jun/22	Landowner 11	-	-	-	-	-	-12.1
20/Sep/22	Landowner 11	-	-	-	-	-	-12.4
12/Jun/24	Landowner 11	-	-	-	-	-	-12.5
17/Sep/24	Landowner 11	-	-	-	-	-1.0	-13.1
6/Oct/21	Landowner 16	-	-	-	-	-	-13
16/Jun/22	Landowner 16	-	-	-	-	-	-12.8
20/Sep/22	Landowner 16	-	-	-	-	-	-13.8
23/Jun/23	Landowner 16	-	-	-	-	1.5	-12.8
14/Sep/23	Landowner 16	-	-	-	-	-	-13.2
11/Jun/24	Landowner 16	-	-	-	-	1.9	-13.2
11/Sep/24	Landowner 16	-	-	-	-	-	-13.5
11/Sep/24	Landowner 16	-	-	-	-	-	-13.6

Date (dd-mmm-yy)	Landowner none	d13C-CH4 ‰	d13C-CO2 ‰	d13C-C1 ‰	d18O-BaSO4 None	d34S None	d13C DIC None
16/Jun/21	Landowner 9	-	-	-	-	-	0.580
16/Jun/21	Landowner 9	-	-	-	-	-	0.588
6/Oct/21	Landowner 9	-	-	-	-	-	-12.6
15/Jun/22	Landowner 9	-	-	-	-	-	-12.5
19/Sep/22	Landowner 9	-	-	-	-	-	-12.7
21/Jun/23	Landowner 9	-	-	-	-	-	-12.8
21/Jun/23	Landowner 9	-	-	-	-	-	-12.8
14/Sep/23	Landowner 9	-	-	-	-	-	-12.8
12/Jun/24	Landowner 9	-	-22.5	-	-	1	-13.2
10/Sep/24	Landowner 9	-	-	-	-	-	-13.5
6/Oct/21	Landowner 3	-	-	-	-	-	-11.8
6/Oct/21	Landowner 3	-	-	-	-	-	-11.8
17/Jun/22	Landowner 3	-	-12.4	-	-	-	-
21/Sep/22	Landowner 3	-	-	-	-	-4.1	-12.5
19/Sep/23	Landowner 3	-	-	-	-	-	-12.6
11/Sep/24	Landowner 3	-	-	-	-	-	-13.0
6/Oct/21	Landowner 3	-	-	-	-	-	-11.9
14/Oct/21	Landowner 15	-	-	-	-	-	-13.7
23/Jun/22	Landowner 15	-	-	-	-	-	-13.4
21/Sep/22	Landowner 15	-	-	-	-	-	-13.9
27/Jun/23	Landowner 15	-	-	-	-	-2.4	-13.8
13/Sep/23	Landowner 15	-	-	-	-	-	-13.9
17/Jun/24	Landowner 15	-	-	-	-	-	-13.7
10/Sep/24	Landowner 15	-	-24.5	-	-	-	-14.4
8/Oct/21	Landowner 28	-	-	-	-	-	-12.3
15/Jun/22	Landowner 28	-	-	-	-	-	-11.8
19/Sep/22	Landowner 28	-	-	-	-	0.8	-12.5
8/Oct/21	Landowner 8	-	-	-	-	-	-12.6
15/Jun/22	Landowner 8	-	-	-	-	-	-12.6
15/Jun/22	Landowner 8	-	-	-	-	-	-12.6
21/Sep/22	Landowner 8	-	-	-	-	-8.3	-12.9
23/Jun/23	Landowner 8	-	-	-	-	-3.5	-12.5
15/Sep/23	Landowner 8	-	-22.2	-	-	-8.1	-12.8
11/Jun/24	Landowner 8	-	-	-	-	-7	-12.9
11/Sep/24	Landowner 8	-	-	-	-	-	-13.2
7/Oct/21	Landowner 30	-	-	-	-	-	-11.9
18/Jun/22	Landowner 30	-	-19.22	-	-	-	-
18/Jun/22	Landowner 30	-	-	-	-	-	-12.3
29/Jun/22	Landowner 30	-	-21.7	-	-	-	-
19/Sep/22	Landowner 30	-	-	-	-	-	-12.5
29/Jun/23	Landowner 30	-	-	-	-	-4.2	-12.6
19/Sep/23	Landowner 30	-	-	-	-	-	-12.2
17/Jun/24	Landowner 30	-	-22.1	-	-	-18.8	-13.0
12/Sep/24	Landowner 30	-	-22.9	-	-	-1.1	-12.7
14/Oct/21	Landowner 21	-	-	-	-	-	-13.7
16/Jun/22	Landowner 21	-	-	-	-	-	-13.2
20/Sep/22	Landowner 21	-	-	-	-	-	-13.6
22/Jun/23	Landowner 21	-	-	-	-	13.5	-13.5
14/Sep/23	Landowner 21	-	-	-	-	-	-13.8
17/Jun/24	Landowner 21	-	-	-	-	-	-13.6
17/Jun/24	Landowner 21	-	-	-	-	-	-13.9
17/Oct/21	Landowner 13	-	-	-	-	-	-12.6
16/Jun/22	Landowner 13	-	-	-	-	-	-12.3
21/Sep/22	Landowner 13	-	-	-	-	-	-12.6

Date (dd-mmm-yy)	Landowner none	d13C-CH4 ‰	d13C-CO2 ‰	d13C-C1 ‰	d18O-BaSO4 None	d34S None	d13C DIC None
5/Oct/21	Enhance Monitoring Well	-	-	-	-	-	-15.8
26/Jun/22	Enhance Monitoring Well	-	-	-	-	-	-15.0
12/Sep/23	Enhance Monitoring Well	-	-	-	-	-	-12.9
18/Jun/24	Enhance Monitoring Well	-	-	-	-	33.8	-16.1
18/Sep/24	Enhance Monitoring Well	-	-	-	-	-	-16.1
5/Oct/21	Enhance Monitoring Well	-	-	-	-	-	-12.4
26/Jun/22	Enhance Monitoring Well	-	-	-	-	-	-12.7
12/Sep/23	Enhance Monitoring Well	-	-	-	-	-	-12.5
18/Jun/24	Enhance Monitoring Well	-	-	-	-	-	-12.3
9/Sep/24	Enhance Monitoring Well	-	-	-	-	-	-12.8
5/Oct/21	Enhance Monitoring Well	-	-	-	-	-	-12.8
26/Jun/22	Enhance Monitoring Well	-	-	-	-	-	-12.8
21/Sep/23	Enhance Monitoring Well	-	-	-	-	-	-15.9
21/Sep/23	Enhance Monitoring Well	-	-	-	-	-	-15.5
18/Jun/24	Enhance Monitoring Well	-	-22.3	-	-	0.5	-13.0
17/Sep/24	Enhance Monitoring Well	-	-	-	-	-1.3	-13.6
6/Oct/21	Landowner 23	-	-	-	-	-	-12.9
16/Jun/22	Landowner 23	-	-	-	-	-	-12.1
20/Sep/22	Landowner 23	-	-	-	-	-	-12.5
22/Jun/23	Landowner 23	-	-	-	-	1.4	-12.3
13/Sep/23	Landowner 23	-	-	-	-	-	-12.5
6/Oct/21	Landowner 20	-	-	-	-	-	-12.6
8/Oct/21	Landowner 10	-	-	-	-	-	-12.2
8/Oct/21	Landowner 10	-	-	-	-	-	-12.3
16/Jun/22	Landowner 20	-	-	-	-	-	-12.2
18/Jun/22	Landowner 10	-	-	-	-	-	-11.9
29/Jun/22	Landowner 10	-	-20.9	-	-	-	-
20/Sep/22	Landowner 10	-	-	-	-	-4.4	-12.4
20/Sep/22	Landowner 10	-	-	-	-	-4.8	-12.4
23/Sep/22	Landowner 20	-	-	-	-	1.5	-12.6
12/Jun/24	Landowner 10	-	-	-	-	-	-12.4
17/Jun/24	Landowner 20	-	-	-	-	-	-12.7
11/Sep/24	Landowner 20	-	-	-	-	-	-13.0
14/Oct/21	Landowner 5	-	-	-	-	-	-12.5
16/Jun/22	Landowner 5	-	-22.9	-	-	-	-12.6
22/Sep/22	Landowner 5	-	-	-	-	-9.6	-12.8
10/Oct/22	Landowner 5	-87.1	-20.9	-	-	-	-
23/Jun/23	Landowner 5	-	-	-	-	-9.6	-13.0
18/Sep/24	Landowner 5	-	-	-	-	-	-13.0
18/Sep/24	Landowner 5	-	-	-	-	-	-13.4
8/Oct/21	Landowner 17	-	-	-	-	-	-12.2
18/Jun/22	Landowner 17	-	-	-	-	-	-12.0
21/Sep/22	Landowner 17	-	-	-	-	-	-12.2
19/Sep/23	Landowner 17	-	-	-	-	-	-11.8
12/Sep/24	Landowner 17	-	-	-	-	-4.4	-13.1
7/Oct/21	Landowner 32	-	-	-	-	-	-12.1
18/Jun/22	Landowner 32	-	-	-	-	-	-11.6

Date (dd-mmm-yy)	Landowner none	d13C-CH4 ‰	d13C-CO2 ‰	d13C-Cl ‰	d18O-BaSO4 None	d34S None	d13C DIC None
14/Oct/21	Landowner 25	-	-	-	-	-	-12
14/Oct/21	Landowner 25	-	-	-	-	-	-12
17/Jun/22	Landowner 25	-	-	-	-	-	-12.4
17/Jun/22	Landowner 25	-	-	-	-	-	-12.2
20/Sep/22	Landowner 25	-	-	-	-	0.1	-12.6
16/Oct/21	Landowner 18	-	-	-	-	-	-12.4
15/Jun/22	Landowner 18	-	-	-	-	-	-12.4
19/Sep/22	Landowner 18	-	-	-	-	-	-12.5
16/Jun/24	Landowner 18	-	-	-	-	-	-12.7
17/Jun/21	Landowner 6	-	-	-	-	-	0.571
4/Oct/21	Landowner 6	-	-	-	-	-	-12.3
14/Jun/22	Landowner 6	-	-21.5	-	-	-	-12.5
19/Sep/22	Landowner 6	-	-	-	-	2.2	-13.6
15/Sep/23	Landowner 6	-	-23.0	-	-	1.8	-12.7
12/Jun/24	Landowner 6	-	-	-	-	-	-31.2
10/Sep/24	Landowner 6	-	-	-	-	-	-13.7
7/Oct/21	Landowner 22	-	-	-	-	-	-12
15/Jun/22	Landowner 22	-	-	-	-	-	-11.1
20/Sep/22	Landowner 22	-	-	-	-	-	-11.8
22/Jun/23	Landowner 22	-	-	-	-	1.5	-11.9
14/Sep/23	Landowner 22	-	-	-	-	-	-12.1
12/Jun/24	Landowner 22	-	-	-	-	-	-12.1
12/Sep/24	Landowner 22	-	-	-	-	4.5	-12.1
17/Oct/21	Enhance Monitoring Well	-	-	-	-	-	-6.7
4/Nov/21	Enhance Monitoring Well	-	-	-	1.6	-5.7	-
18/Jun/22	Enhance Monitoring Well	-	-	-	-	-	-11.7
18/Jun/22	Enhance Monitoring Well	-	-	-	-	-	-11.5
20/Sep/22	Enhance Monitoring Well	-	-	-	-	-6.7	-12.3
13/Sep/23	Enhance Monitoring Well	-	-	-	-	-	-11.9
16/Jun/24	Enhance Monitoring Well	-	-	-	-	-	-12.6
10/Sep/24	Enhance Monitoring Well	-	-	-	-	-	-12.6

INTEGRATED SUSTAINABILITY

Table 4 : Groundwater Analytical Results: Microbiology Parameters

Client Enhance Energy **Date:** Jan. 24, 25

Date (dd-mmm-yy)	Lanowner None	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
8/Aug/19	Landowner 2	< 1	-	< 0.001	2200.00
9/Oct/19	Landowner 2	-	-	< 0.001	-
7/Oct/21	Landowner 2	< 1	2500	< 0.001	9000.00
7/Oct/21	Landowner 2	< 1	500	< 0.001	< 1
15/Jun/22	Landowner 2	-	-	< 0.001	-
20/Sep/22	Landowner 2	< 1	500	< 0.001	500.00
21/Jun/23	Landowner 2	75	< 20	< 0.0005	2200
13/Sep/23	Landowner 2	< 1	500	< 0.0005	7
12/Jun/24	Landowner 2	< 1	13000	< 0.0005	9000
12/Jun/24	Landowner 2	< 1	13000	< 0.0005	9000
11/Sep/24	Landowner 2	< 1	2500	< 0.0005	9000
8/Aug/19	Landowner	20	-	< 0.001	< 1
8/Oct/19	Landowner	-	-	< 0.001	-
7/Aug/19	Landowner 1	< 1	-	< 0.001	9000
7/Aug/19	Landowner 1	< 1	-	< 0.001	9000
9/Oct/19	Landowner 1	-	-	< 0.001	-
7/Oct/21	Landowner 1	< 1	13000	< 0.001	2200
17/Jun/22	Landowner 1	75	-	< 0.001	2200
19/Sep/22	Landowner 1	5	67000	< 0.001	2200
22/Jun/23	Landowner 1	325	2500	< 0.0005	9000
13/Sep/23	Landowner 1	< 1	2500	< 0.0005	2200
11/Jun/24	Landowner 1	1400	2500	< 0.0005	2200
18/Sep/24	Landowner 1	115000	67000	< 0.0005	2200

Date (dd-mmm-yy)	Lanowner None	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
7/Aug/19	Landowner 25	< 1	-	< 0.001	25
9/Oct/19	Landowner 25	-	-	< 0.001	-
6/Oct/21	Landowner 25	< 1	< 20	< 0.001	2200
7/Aug/19	Landowner 33	< 1	-	< 0.001	150
8/Oct/19	Landowner 33	-	-	< 0.001	-
8/Oct/19	Landowner 33	-	-	< 0.001	-
16/Jun/21	Landowner 33	-	2500	-	-
7/Oct/21	Landowner 33	< 1	13000	< 0.001	2200
15/Jun/22	Landowner 33	< 1	< 1	< 0.001	2200
21/Sep/22	Landowner 33	-	67000	< 0.001	-
21/Jun/23	Landowner 33	5	2500	< 0.0005	500
19/Sep/23	Landowner 33	< 1	67000	< 0.0005	2200
19/Sep/23	Landowner 33	< 1	67000	< 0.0005	2200
11/Jun/24	Landowner 33	< 1	13000	< 0.0005	500
10/Sep/24	Landowner 33	< 1	500	< 0.0005	500
15/Jun/22	Landowner 33	< 1	< 1	< 0.001	2200
9/Aug/19	Landowner	20	-	< 0.001	2200
9/Aug/19	Landowner	< 1	-	< 0.001	< 1
9/Aug/19	Landowner	< 1	-	< 0.001	< 1
8/Oct/19	Landowner	-	-	< 0.001	-
8/Aug/19	Landowner 4	5	-	< 0.001	2200
8/Oct/19	Landowner 4	-	-	< 0.001	-
8/Oct/21	Landowner 4	325	440000	< 0.001	2200
18/Jun/22	Landowner 4	< 1	0	< 0.001	2200
19/Sep/22	Landowner 4	< 1	67000	< 0.001	9000
21/Jun/23	Landowner 4	20	2500	< 0.0005	8
13/Sep/23	Landowner 4	< 1	500	< 0.0005	< 1
12/Sep/24	Landowner 4	< 1	13000	< 0.0005	9000

Date (dd-mmm-yy)	Lanowner None	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
8/Aug/19	Landowner 31	20	-	< 0.001	500
8/Oct/21	Landowner 31	< 1	440000	< 0.001	500
17/Jun/22	Landowner 31	5	100	< 0.001	< 1
19/Sep/22	Landowner 31	< 1	2500	< 0.001	< 1
19/Sep/22	Landowner 31	< 1	2500	< 0.001	500
27/Jun/23	Landowner 31	1400	2500	< 0.0005	2200
14/Sep/23	Landowner 31	< 1	13000	< 0.0005	< 1
8/Aug/19	Landowner 24	5	-	< 0.001	150
7/Oct/21	Landowner 24	5	2500	< 0.001	< 1
17/Jun/22	Landowner 24	20	100	-	2200
17/Jun/22	Landowner 24	-	-	< 0.001	-
11/Jul/19	UL1 - Development	< 1	-	< 0.001	9000
15/Jul/19	UL1 - Development	5	-	< 0.001	9000
15/Jul/19	UL1 - Development	5	-	< 0.001	9000
6/Aug/19	UL1 - Development	115000	-	0.004	35000
6/Aug/19	UL1 - Development	115000	-	0.003	35000
7/Oct/19	UL1 - Development	-	-	0.002	-
7/Oct/19	UL1 - Development	-	-	0.003	-
21/Jul/20	UL1 - Development	115000	-	-	9000
21/Jul/20	UL1 - Development	-	-	-	-
28/Oct/20	UL1 - Development	27000	-	0.003	9000
28/Oct/20	UL1 - Development	27000	-	0.003	9000
15/Jun/21	UL1 - Development	-	-	0.002	-

Date (dd-mmm-yy)	Lanowner None	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
7/Aug/19	UL2 - Development	1400	-	< 0.001	9000
7/Oct/19	UL2 - Development	-	-	< 0.001	-
22/Jul/20	UL2 - Development	27000	-	-	9000
22/Jul/20	UL2 - Development	-	-	-	2200
27/Oct/20	UL2 - Development	< 1	-	< 0.001	2200
15/Jun/21	UL2 - Development	-	-	0.002	-
7/Aug/19	UL3 - Development	1400	-	< 0.001	9000
7/Oct/19	UL3 - Development	-	-	< 0.001	-
22/Jul/20	UL3 - Development	115000	-	-	9000
22/Jul/20	UL3 - Development	115000	-	-	9000
28/Oct/20	UL3 - Development	5	-	0.001	2200
28/Oct/20	UL3 - Development	< 1	-	0.002	150
15/Jun/21	UL3 - Development	-	-	0.001	-
22/Sep/23	Landowner 35	< 1	13000	< 0.0005	2200
20/Jun/24	Landowner 35	5	2500	0.0005	9000
17/Sep/24	Landowner 35	< 1	2500	< 0.0005	500
16/Jun/21	Landowner 19	-	2500	-	-
8/Oct/21	Landowner 19	< 1	440000	< 0.001	2200
24/Jun/23	Landowner 19	1400	500	0.0008	2200
24/Jun/23	Landowner 19	1400	500	0.0007	2200
19/Sep/23	Landowner 19	< 1	67000	0.0008	2200
11/Jun/24	Landowner 19	< 1	67000	0.0008	2200
11/Sep/24	Landowner 19	< 1	67000	0.0008	9000

Date (dd-mmm-yy)	Lanowner None	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
17/Jun/21	Landowner 29	-	13000	< 0.001	-
23/Jun/22	Landowner 29	< 1	-	< 0.001	2200
23/Jun/22	Landowner 29	325	-	< 0.001	2200
24/Jun/22	Landowner 29	325	-	< 0.001	2200
24/Sep/22	Landowner 29	< 1	100	< 0.001	2200
29/Jun/23	Landowner 29	75	< 20	< 0.0005	2200
14/Sep/23	Landowner 29	< 1	2500	< 0.0005	2200
17/Jun/24	Landowner 29	< 1	2500	< 0.0005	2200
12/Sep/24	Landowner 29	< 1	13000	< 0.0005	2200
15/Jun/21	Enhance Facility Well	-	-	0.001	-
5/Oct/21	Enhance Facility Well	< 1	100	< 0.001	< 1
14/Jun/22	Enhance Facility Well	-	-	< 0.001	-
19/Sep/22	Enhance Facility Well	-	2500	< 0.001	500
21/Jun/23	Enhance Facility Well	75	2500	< 0.0005	500
13/Sep/23	Enhance Facility Well	< 1	100	< 0.0005	25
13/Sep/23	Enhance Facility Well	< 1	500	< 0.0005	2200
18/Jun/24	Enhance Facility Well	< 1	2500	< 0.0005	9000
12/Sep/24	Enhance Facility Well	< 1	13000	< 0.0005	2200
12/Sep/24	Enhance Facility Well	< 1	2500	< 0.0005	9000
6/Oct/21	Landowner 14	< 1	2500	< 0.001	25
18/Jun/22	Landowner 14	-	0	-	-
18/Jun/22	Landowner 14	-	-	< 0.001	-
21/Sep/22	Landowner 14	< 1	500	< 0.001	2200
27/Jun/23	Landowner 14	1400	2500	< 0.0005	2200
14/Sep/23	Landowner 14	< 1	2500	< 0.0005	2200
17/Jun/24	Landowner 14	75	500	< 0.0005	2200
10/Sep/24	Landowner 14	< 1	67000	< 0.0005	2200

Date (dd-mmm-yy)	Lanowner None	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
8/Oct/21	Landowner 26	< 1	440000	< 0.001	2200
24/Jun/22	Landowner 26	-	0	-	-
21/Sep/22	Landowner 26	< 1	13000	< 0.001	2200
16/Oct/21	Landowner 7	< 1	67000	< 0.001	500
16/Jun/22	Landowner 7	< 1	0	-	500
16/Jun/22	Landowner 7	-	-	< 0.001	-
20/Sep/22	Landowner 7	< 1	2500	< 0.001	2200
15/Sep/23	Landowner 7	< 1	2500	< 0.0005	500
12/Sep/24	Landowner 7	< 1	13000	< 0.0005	2200
6/Oct/21	Landowner 11	< 1	2500	< 0.001	2200
15/Jun/22	Landowner 11	< 1	0	-	2200
15/Jun/22	Landowner 11	-	-	< 0.001	-
20/Sep/22	Landowner 11	< 1	67000	< 0.001	2200
12/Jun/24	Landowner 11	< 1	13000	< 0.0005	9000
17/Sep/24	Landowner 11	< 1	2500	< 0.0005	35000
6/Oct/21	Landowner 16	< 1	2500	< 0.001	9000
16/Jun/22	Landowner 16	-	< 1	< 0.001	9000
20/Sep/22	Landowner 16	-	500	< 0.001	2200
23/Jun/23	Landowner 16	< 1	500	< 0.0005	9000
14/Sep/23	Landowner 16	< 1	500	< 0.0005	2200
11/Jun/24	Landowner 16	< 1	2500	< 0.0005	2200
11/Sep/24	Landowner 16	< 1	13000	< 0.0005	9000
11/Sep/24	Landowner 16	< 1	500	< 0.0005	9000
16/Jun/21	Landowner 9	-	0	-	-
16/Jun/21	Landowner 9	-	0	-	-
6/Oct/21	Landowner 9	< 1	2500	< 0.001	500
15/Jun/22	Landowner 9	< 1	0	< 0.001	2200
19/Sep/22	Landowner 9	< 1	13000	< 0.001	2200
21/Jun/23	Landowner 9	75	500	< 0.0005	2200
21/Jun/23	Landowner 9	75	500	< 0.0005	2200
14/Sep/23	Landowner 9	< 1	100	< 0.0005	2200
12/Jun/24	Landowner 9	< 1	2500	< 0.0005	9000
10/Sep/24	Landowner 9	< 1	67000	< 0.0005	2200

Date (dd-mmm-yy)	Lanowner None	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
6/Oct/21	Landowner 3	< 1	2500	< 0.001	500
6/Oct/21	Landowner 3	< 1	13000	< 0.001	2200
17/Jun/22	Landowner 3	5	100	-	2200
17/Jun/22	Landowner 3	-	-	< 0.001	-
21/Sep/22	Landowner 3	< 1	2200	< 0.001	2200
19/Sep/23	Landowner 3	< 1	500	< 0.0005	500
11/Sep/24	Landowner 3	< 1	13000	< 0.0005	2200
6/Oct/21	Landowner 3	< 1	67000	< 0.001	-
14/Oct/21	Landowner 15	< 1	67000	-	2200
23/Jun/22	Landowner 15	< 1	0	-	2200
23/Jun/22	Landowner 15	-	-	< 0.001	-
21/Sep/22	Landowner 15	< 1	500	< 0.001	2200
27/Jun/23	Landowner 15	1400	2500	< 0.0005	2200
13/Sep/23	Landowner 15	5	< 20	< 0.0005	2200
17/Jun/24	Landowner 15	1400	500	< 0.0005	2200
10/Sep/24	Landowner 15	1400	13000	< 0.0005	9000
8/Oct/21	Landowner 28	< 1	440000	< 0.001	2200
15/Jun/22	Landowner 28	< 1	0	-	2200
15/Jun/22	Landowner 28	-	-	< 0.001	-
19/Sep/22	Landowner 28	< 1	2500	< 0.001	2200
8/Oct/21	Landowner 8	5	440000	< 0.001	2200
15/Jun/22	Landowner 8	-	-	< 0.001	-
15/Jun/22	Landowner 8	-	-	< 0.001	-
24/Jun/22	Landowner 8	-	0	-	-
21/Sep/22	Landowner 8	< 1	67000	< 0.001	9000
23/Jun/23	Landowner 8	325	67000	< 0.0005	9000
15/Sep/23	Landowner 8	< 1	67000	< 0.0005	9000
11/Jun/24	Landowner 8	< 1	2500	< 0.0005	9000
11/Sep/24	Landowner 8	5	13000	< 0.0005	9000

Date (dd-mmm-yy)	Lanowner None	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
7/Oct/21	Landowner 30	< 1	2500	< 0.001	< 1
18/Jun/22	Landowner 30	< 1	-	< 0.001	25
19/Sep/22	Landowner 30	< 1	20	< 0.001	< 1
29/Jun/23	Landowner 30	< 1	< 20	< 0.0005	< 1
19/Sep/23	Landowner 30	< 1	2500	< 0.0005	< 1
17/Jun/24	Landowner 30	325	13000	< 0.0005	9000
12/Sep/24	Landowner 30	< 1	< 20	< 0.0005	150
14/Oct/21	Landowner 21	< 1	67000	< 0.001	500
16/Jun/22	Landowner 21	-	-	< 0.001	-
20/Sep/22	Landowner 21	< 1	67000	< 0.001	2200
22/Jun/23	Landowner 21	325	2500	< 0.0005	2200
14/Sep/23	Landowner 21	< 1	2500	< 0.0005	9000
17/Jun/24	Landowner 21	20	500	< 0.0005	9000
17/Jun/24	Landowner 21	20	500	< 0.0005	9000
17/Oct/21	Landowner 13	115000	67000	0.004	500
16/Jun/22	Landowner 13	-	-	< 0.001	-
21/Sep/22	Landowner 13	< 1	< 1	< 0.001	500

Date (dd-mmm-yy)	Lanowner None	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
5/Oct/21	Enhance Monitoring Well	< 1	67000	0.002	< 1
26/Jun/22	Enhance Monitoring Well	11500	-	< 0.001	9000
12/Sep/23	Enhance Monitoring Well	20	< 20	< 0.0005	2200
18/Jun/24	Enhance Monitoring Well	6000	2500	< 0.0005	9000
18/Sep/24	Enhance Monitoring Well	6000	2500	-	9000
18/Sep/24	Enhance Monitoring Well	-	-	< 0.0009	-
5/Oct/21	Enhance Monitoring Well	115000	440000	< 0.001	2200
26/Jun/22	Enhance Monitoring Well	6000	-	< 0.001	2200
12/Sep/23	Enhance Monitoring Well	325	< 20	< 0.0005	2200
18/Jun/24	Enhance Monitoring Well	6000	2500	< 0.0005	9000
9/Sep/24	Enhance Monitoring Well	< 1	100	< 0.0005	2200
5/Oct/21	Enhance Monitoring Well	325	440000	< 0.001	2200
26/Jun/22	Enhance Monitoring Well	6000	-	< 0.001	2200
21/Sep/23	Enhance Monitoring Well	6000	13000	0.0006	9000
21/Sep/23	Enhance Monitoring Well	6000	13000	0.0007	9000
18/Jun/24	Enhance Monitoring Well	< 1	2500	< 0.0005	9000
17/Sep/24	Enhance Monitoring Well	6000	13000	< 0.0005	2200
6/Oct/21	Landowner 23	< 1	13000	< 0.001	9000
6/Oct/21	Landowner 23	< 1	< 20	< 0.001	9000
16/Jun/22	Landowner 23	-	-	< 0.001	-
20/Sep/22	Landowner 23	< 1	2500	< 0.001	2200
22/Jun/23	Landowner 23	20	100	< 0.0005	9000
13/Sep/23	Landowner 23	< 1	100	< 0.0005	< 1

Date (dd-mmm-yy)	Lanowner None	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
6/Oct/21	Landowner 20	< 1	2500	< 0.001	9000
8/Oct/21	Landowner 10	< 1	440000	< 0.001	9000
8/Oct/21	Landowner 10	< 1	440000	< 0.001	500
16/Jun/22	Landowner 20	< 1.0	-	< 0.001	500
18/Jun/22	Landowner 10	< 1	0	-	2200
18/Jun/22	Landowner 10	-	-	< 0.001	-
20/Sep/22	Landowner 10	< 1	13000	< 0.001	2200
20/Sep/22	Landowner 10	< 1	67000	-	2200
23/Sep/22	Landowner 20	< 1	100	< 0.001	2200
12/Jun/24	Landowner 10	< 1	13000	< 0.0005	9000
17/Jun/24	Landowner 20	< 1	500	< 0.0005	2200
11/Sep/24	Landowner 20	< 1	100	< 0.0005	2200
14/Oct/21	Landowner 5	75	440000	< 0.001	2200
16/Jun/22	Landowner 5	75	< 1	< 0.001	500
22/Sep/22	Landowner 5	115000	67000	< 0.001	2200
23/Jun/23	Landowner 5	115000	67000	< 0.0005	9000
18/Sep/24	Landowner 5	20	67000	-	2200
18/Sep/24	Landowner 5	< 1	13000	< 0.0005	2200
18/Sep/24	Landowner 5	-	-	< 0.0005	-
8/Oct/21	Landowner 17	< 1	67000	< 0.001	2200
18/Jun/22	Landowner 17	< 1	0	-	2200
18/Jun/22	Landowner 17	-	-	< 0.001	-
21/Sep/22	Landowner 17	< 1	2500	< 0.001	9000
19/Sep/23	Landowner 17	< 1	13000	< 0.0005	500
12/Sep/24	Landowner 17	< 1	13000	< 0.0005	2200
7/Oct/21	Landowner 32	< 1	13000	< 0.001	9000
18/Jun/22	Landowner 32	< 1	0	-	2200
18/Jun/22	Landowner 32	-	-	< 0.001	-

Date (dd-mmm-yy)	Lanowner None	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
14/Oct/21	Landowner 25	< 1	67000	< 0.001	500
14/Oct/21	Landowner 25	< 1	67000	< 0.001	2200
17/Jun/22	Landowner 25	< 1	-	-	-
17/Jun/22	Landowner 25	-	< 1	< 0.001	500
17/Jun/22	Landowner 25	-	100	< 0.001	500
17/Jun/22	Landowner 25	< 1	-	-	-
20/Sep/22	Landowner 25	< 1	500	< 0.001	< 1
16/Oct/21	Landowner 18	< 1	67000	< 0.001	2200
15/Jun/22	Landowner 18	-	-	< 0.001	-
19/Sep/22	Landowner 18	< 1	2500	< 0.001	500
16/Jun/24	Landowner 18	5	13000	< 0.0005	2200
17/Jun/21	Landowner 6	-	13000	< 0.001	-
4/Oct/21	Landowner 6	20	440000	< 0.001	2200
14/Jun/22	Landowner 6	1400	< 1 0	< 0.001	2200
19/Sep/22	Landowner 6	115000	67000	< 0.001	2200
15/Sep/23	Landowner 6	1400	67000	< 0.0005	2200
12/Jun/24	Landowner 6	325	13000	< 0.0005	9000
10/Sep/24	Landowner 6	1400	13000	< 0.0005	2200
7/Oct/21	Landowner 22	< 1	500	< 0.001	2200
15/Jun/22	Landowner 22	< 1	0	-	500
15/Jun/22	Landowner 22	-	-	< 0.001	-
20/Sep/22	Landowner 22	< 1	500	< 0.001	2200
22/Jun/23	Landowner 22	75	13000	< 0.0005	2200
14/Sep/23	Landowner 22	< 1	100	< 0.0005	9000
12/Jun/24	Landowner 22	< 1	500	< 0.0005	9000
12/Sep/24	Landowner 22	< 1	500	< 0.0005	9000

Date (dd-mmm-yy)	Lanowner None	Sulfate Reducing Bacteria cfu/ml	Slime Forming Bacteria cfu/ml	Dissolved Vanadium mg/L	Iron Related Bacteria cfu/ml
17/Oct/21	Enhance Monitoring Well	115000	4400000	0.003	500
18/Jun/22	Enhance Monitoring Well	6000	0	-	2200
18/Jun/22	Enhance Monitoring Well	6000	0	-	2200
18/Jun/22	Enhance Monitoring Well	-	-	< 0.001	-
18/Jun/22	Enhance Monitoring Well	-	-	< 0.001	-
20/Sep/22	Enhance Monitoring Well	1400	4400000	< 0.001	9000
13/Sep/23	Enhance Monitoring Well	27000	2500	0.0005	2200
16/Jun/24	Enhance Monitoring Well	27000	-	< 0.0005	-
10/Sep/24	Enhance Monitoring Well	14000	4400000	< 0.0005	350000

INTEGRATED SUSTAINABILITY

Table 5A: Soil Gas Analytical Results

Client Name: Enhance Energy | **Project Manager:** A.Petrowitsch | **Project Number:** CP24-EEI-01-00 | **Date:** 21-Feb-25

		Breathing Air Analysis					Extended Gas Analysis																												Isotope Analysis				
Sampling ID	Date (dd-mmm-yy)	Oxygen (O2) - BA	Nitrogen (N2) - BA	Methane - BA	Carbon Monoxide (CO) - BA	Carbon Dioxide (CO2) -BA	Volatile Non-Methane Hydrocarbons (vNMH) - BA	Volatile Halogenated Hydrocarbons (vHH) - BA	Helium (He)	Hydrogen (H2)	Oxygen (O2)	Nitrogen (N2)	Carbon Dioxide (CO2)	Hydrogen Sulphide (H2S)	Methane (C1)	Ethane (C2)	Propane (C3)	Butane (IC4)	N-Butane (NC4)	I-Pentane (IC5)	n-Pentane (C5)	Hexane (C6)	Heptanes (C7)	Octanes (C8)	Nonanes (C9)	Decanes+ (C10+)	Cyclopentane	Benzene	Cyclohexane	2,2,4-Trimethylpentane	Methylcyclohexane	Toluene	Ethylbenzene	Xylenes	[a] d13C-CH4	[a] d13C-CO2	[a] Normalized 14C in CO2	[a] de14C in CO2	F14C in CO2	[a] 14C in CO2
		ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	[a]	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	[a]	[a]	[a]	[a]	None	[a] SP
North Data																																							
01-02-040-24W4	7/Aug/19	-	-	1	-	67200	1	< 1	-	-	14	770000	65800	-	11	-	-	-	-	-	-	-	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-9.2	-	-45.10	0.96	303.74
01-02-040-24W4	9/Oct/19	150000	770000	< 1	< 2	55900	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01-02-040-24W4	27/Jun/21	220000	780000	2	< 2	427	3	< 1	< 10	216	20.9806	789099	609	108	< 10	< 10	< 10	10	< 10	< 10	< 10	13	39	79	< 10	< 10	< 10	< 10	< 10	< 10	12.3	26.4	< 10	< 10	-	-18.7	-	-	0.94	-
01-02-040-24W4	13/Oct/21	200000	780000	2	< 2	17200	< 1	< 1	< 10	100	19.8448	780323	21128	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
01-02-040-24W4	18/Jun/22	200000	780000	2.00	< 2	18200	< 1	< 1	< 100	100	19.22	789000	18400	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.70	-	-	-	-
01-02-040-24W4	23/Sep/22	210000	770000	2.00	< 2	24700	< 1	< 1	< 100	100	18.94	782000	28300	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-21.85	-64.03	-72.15	0.94	531.60
01-02-040-24W4	24/Jun/23	19	79	1	< 2	19300	< 1	< 1	< 0.01	< 0.01	16.41	80.7	2.94	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-	-	-	-	-
01-02-040-24W4	24/Jun/23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-22.20	-54.79	-63.10	0.95	452.61
01-02-040-24W4	16/Sep/23	17	80	1	< 2	35500	< 1	< 1	< 0.01	< 0.01	13.1464	81.9577	4.8953	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.14	-	-	-	-
01-02-040-24W4	18/Jun/24	180000	780000	< 1	< 2	36100	< 1	< 1	< 100	480	17.063	787750	41140	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-20.09	-	-	-	-
02-10-040-24W4	1/Oct/20	210000	780000	< 1	< 2	19300	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-20.36	-	-220.80	0.78	2004.00
02-10-040-24W4	29/Jun/21	200000	770000	< 1	< 2	26500	1	< 1	< 10	192	18.2376	795692	21740	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.85	-	-	0.77	-
02-10-040-24W4	15/Oct/21	200000	790000	2	< 2	13050	< 1	< 1	< 10	177	18.4402	796626	18795	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.66	-219.87	-226.54	0.78	1994.58
02-10-040-24W4	24/Jun/22	210000	780000	1.00	< 2	13200	< 1	< 1	< 100	< 100	19.56	784000	20300	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-21.47	-225.35	-232.07	0.77	2051.19
02-10-040-24W4	25/Jun/23	21	78	1	< 2	13900	< 1	< 1	< 0.01	0.02	19.22	78.7	2.06	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-23.15	-219.84	-226.70	0.78	1994.26
02-10-040-24W4	14/Sep/23	20.00	79.00	1.00	< 2	13900.00	< 1	< 1	< 0.01	0.2584	18.6089	78.9466	2.1861	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.28	-	-	-	-
02-10-040-24W4	12/Jun/24	210000	780000	1	3	14500	< 1	< 1	< 100	< 100	20.073	781210	18000	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-19.62	-	-	-	-
02-10-040-24W4	16/Sep/24	200000	780000	0	4	14400	< 1	< 1	1505.35	< 100	18.64214	786245.2	25757.01	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-19.73	-212.43	-219.45	0.79	1920.00
03-15-040-24W4	28/Sep/20	190000	780000	< 1	< 2	28400	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-20.02	-	-276.80	0.72	2603.00
03-15-040-24W4	29/Jun/21	190000	780000	< 1	< 2	29200	2	< 1	< 10	240	17.9048	803423	< 10	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
03-15-040-24W4	15/Oct/21	200000	780000	1	< 2	18000	< 1	< 1	< 10	178	18.1069	793891	24862	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.08	-270.66	-276.89	0.73	2535.32
03-15-040-24W4	25/Jun/22	200000	780000	1.00	< 2	16600	< 1	< 1	< 100	< 100	19.14	786000	22700	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-19.85	-280.53	-286.77	0.72	2644.73
03-15-040-24W4	24/Sep/22	190000	790000	1.00	< 2	24300	1.00	< 1	< 100	100	18.92	785000	26000	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-18.52	-	-	-	-
03-15-040-24W4	12/Jun/24	200000	780000	1	7	15200	< 1	< 1	< 100	263	20.0642	781805	17285	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-293.89	-300.19	0.71	2800.00
03-15-040-24W4	15/Sep/24	210000	780000	1	2	8490	< 1	< 1	2619.86	< 100	19.71709	773361.0	11485.81	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	15346.65	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-
03-15-040-24W4	16/Sep/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-19.1	-	-	-	-
04-01-040-24W4	3/Jun/19	-	-	< 1	-	50700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-22.04	-	-251.52	0.75	2327.00
04-01-040-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	14	810000	50700	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-01-040-24W4	1/Aug/19	-	-	< 1	-	60000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-01-040-24W4	7/Aug/19	-	-	-	-	-	1	< 1	-	-	13	780000	58500	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-01-040-24W4	11/Aug/19	-	-	1	-	63700	1	< 1	-	-	14	760000	61600	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-15.66	-	-272.54	0.73	2489.13
04-01-040-24W4	9/Oct/19	16000	790000	< 1	< 2	45400	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-19.39	-	-254.56	0.75	2293.00
04-01-040-24W4	9/Oct/19	180000	780000	< 1	< 2	43200	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-	-
04-01-040-24W4	12/Oct/19	210000	770000	1	< 2	14500	< 1	< 1	-	-	-	-	-	-	1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-8.08	-	-434.16	0.57	4507.00
04-01-040-24W4	23/Sep/20	180000	780000	< 1	< 2	43500	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-01-040-24W4	23/Sep/20	130000	760000	< 1	< 2	115000	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-21.25	-	-68.99	0.93	574.00
04-01-040-24W4	1/Oct/20	190000	770000	2	< 2	44700	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-20.9	-	-750.36	0.25	11148.00
04-01-040-24W4	27/Jun/21	170000	780000	1	< 2	50100	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-22.36	-	-	0.76	-
04-01-040-24W4	11/Oct/21	220000	780000	2	< 2	676	< 1	< 1	< 10	112	20.5882	793001	1001	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
04-01-040-24W4	17/Oct/21	210000	780000	3	< 2	8820	< 1	< 1	< 10	281	19.527	792416	12032	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
04-01-040-24W4	19/Jun/22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-370.64	-376.10	0.63	3719.70
04-01-040-24W4	19/Jun/22	170000	820000	1.00	< 2	12000	< 1	< 1	< 100	< 100	13.28	848000	18900	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.05	-	-	-	-
04-01-040-24W4	16/Sep/23	18	79	1	< 2	29400	< 1	< 1	< 0.01	0.0356	14.1416	81.2275	4.5944	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.12	-234.18	-240.91	0.77	2150.00
04-02-040-24W4	7/Aug/19	-	-	1	-	75200	1	< 1	-	-	14	770000	73500	-	1	-	-	-	-	-	-	-	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-11.72	-	-227.91	0.78	2010.82
04-02-040-24W4	2/Oct/19	190000	760000	< 1	< 2	42300	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-	-
04-02-040-24W4	27/Jun/21	160000	780000	1	< 2	59400	2	< 1	< 10	59	16.0315	803305	36303	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	19	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	15.4	< 10	< 10	-	-21.59	-	-	0.79	-
04-02-040-24W4	13/Oct/21	200000	770000	2	< 2	29000	< 1	< 1	< 10	158	19.1992	773846	34003	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
04-02-040-24W4	24/Jun/22	160000	800000	1.00	< 2	39100	< 1	< 1	< 100	100	21.51	784000	800	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-20.76	-	-	-	-
04-02-040-24W4	23/Sep/22	190000	770000	1.00	< 2	43800	< 1	< 1	< 100	100	16.52	776000	59200	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-22.81	-187.88	-194.92	0.81	1671.73
04-02-040-24W4	24/Jun/23	18	79	1	< 2	28000	< 1	< 1	< 0.01	0.02	15.19	79.48	5.32	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-22.21	-201.89	-208.91	0.80	1811.50
04-02-040-24W4	15/Sep/23	17	78	1	< 2	46100	< 1	< 1	< 0.01	< 0.01	15.3996	78.9139	5.6841	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.38	-	-	-	-
04-02-040-24W4	19/Jun/24	190000	780000	< 1	3	30200	< 1	< 1	< 100	< 100	16.732	792950	39690	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	20	20	< 10	< 10	-	-	-	-	-	-	-	-	-	-20.61	-	-	-	-
04-12-040-24W4	3/Jun/19	-	-	< 1	-	14100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-19.3	-	-164.54	0.84	1444.00
04-12-040-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	21	780000	14100	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-12-040-24W4	1/Aug/19	-	-	1	-	28200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-12-040-24W4	8/Aug/19	-	-	-	-	-	1	< 1	-	-	19	760000	27600	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-12-040-24W4	2/Oct/19	200000	780000	13	< 2	24300	< 1	< 1	-	-	-	-	-	-	13	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-	-
04-12-040-24W4	23/Sep/20	210000	770000	1	< 2	20200	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-12-040-24W4	27/Jun/21	200000	770000	1	< 2	24100	2	< 1	< 10	93	19.5303	791962	12405	91	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11	32	70	14	< 10	< 10	< 10	< 10	< 10	< 10	11	22.1	< 10	< 10	-	-23.15	-	-	0.87	-
04-12-040-24W4	13/Oct/21	210000	780000	2	< 2	11600	< 1	< 1	< 10	108	20.7148	778909	13835	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
04-12-040-24W4	18/Jun/22	210000	780000	1.00	< 2	10500	< 1	< 1	< 100	< 100	19.72	787000	15800	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.37	-	-	-	-
04-12-040-24W4	17/Sep/22	210000	780000	2.00	< 2	13800	< 1	< 1	< 10	38	20.5552	774682	19720	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.94	-92.17	-100.04	0.91	776.76

		Breathing Air Analysis					Extended Gas Analysis																														Isotope Analysis				
Sampling ID	Date (dd-mmm-yy)	Oxygen (O2) - BA	Nitrogen (N2) - BA	Methane - BA	Carbon Monoxide (CO) - BA	Carbon Dioxide (CO2) -BA	Volatile Non-Methane Hydrocarbons (VNMH) - BA	Volatile Halogenated Hydrocarbons (VHH) - BA	Helium (He)	Hydrogen (H2)	Oxygen (O2)	Nitrogen (N2)	Carbon Dioxide (CO2)	Hydrogen Sulphide (H2S)	Methane (C1)	Ethane (C2)	Propane (C3)	i-Butane(IC4)	N-Butane (NC4)	i-Pentane (IC5)	n-Pentane (C5)	Hexane (C6)	Heptanes (C7)	Octanes (C8)	Nonanes (C9)	Decanes+ (C10+)	Cyclopentane	Benzene	Cyclohexane	2,2,4-trimethylpentane	Methylcyclohexane	Toluene	Ethylbenzene	Xylenes	δ13C-CH4	δ13C-CO2	Normalised 14C in CO2	Del14C in CO2	f14C in CO2	14C in CO2
		ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	%	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	‰	‰	‰	‰	None	yr BP
07-02-040-24W4	3/Jun/19	-	-	< 1	-	46600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-02-040-24W4	3/Jun/19	-	-	< 1	-	34800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-02-040-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	18	780000	46600	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-02-040-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	19	780000	34800	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-02-040-24W4	1/Aug/19	-	-	1	-	48200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-02-040-24W4	1/Aug/19	-	-	1	-	36900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-02-040-24W4	8/Aug/19	-	-	-	-	-	1	< 1	-	-	16	770000	47300	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-02-040-24W4	8/Aug/19	-	-	-	-	-	1	< 1	-	-	18	770000	36100	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-02-040-24W4	12/Oct/19	180000	780000	< 1	< 2	28200	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-	-
07-02-040-24W4	12/Oct/19	190000	770000	< 1	< 2	22800	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-	-
07-02-040-24W4	24/Sep/20	190000	770000	< 1	< 2	39400	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-21.57	-	-290.18	0.71	2753.00
07-02-040-24W4	24/Sep/20	190000	770000	< 1	< 2	44000	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-02-040-24W4	13/Oct/21	220000	780000	4	< 2	1890	< 1	< 1	< 10	149	20.8957	788080	2814	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-26.31	-238.20	-244.71	0.76	2185.52
07-02-040-24W4	24/Jun/23	21	79	1	< 2	4140	< 1	< 1	< 0.01	< 0.01	18.85	80.5	0.61	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-24.15	-	-	-	-
07-02-040-24W4	21/Sep/23	20	79	1	< 2	9430	< 1	< 1	0.2142	< 0.01	19.2276	79.4598	1.0895	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-23.66	-315.20	-321.22	0.68	3050.00
07-02-040-24W4	14/Sep/24	210000	780000	2	3	4350	< 1	< 1	< 100	< 100	19.44951	795143.8	10334.4	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Duplicate	14/Sep/24	210000	790000	1	3	5550	< 1	< 1	< 100	< 100	19.74609	793427.0	9112.17	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-10-040-24W4	28/Sep/20	210000	780000	< 1	< 2	15700	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-20.68	-	-337.20	0.66	3304.00
07-10-040-24W4	28/Sep/20	210000	780000	< 1	< 2	8470	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-22.81	-	-268.18	0.73	2508.00
07-10-040-24W4	29/Jun/21	210000	770000	1	< 2	13700	< 1	< 1	< 10	204	19.0206	792688	16903	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.04	-	-	0.72	-
07-10-040-24W4	15/Oct/21	210000	790000	1	< 2	6540	< 1	< 1	< 10	492	20.1027	790362	8119	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-23.17	-273.03	-279.24	0.73	2561.52
07-10-040-24W4	16/Sep/22	220000	780000	3.00	< 2	4900	< 1	< 1	< 100	< 100	21.064	782680	6660	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.83	-	-	-	-
07-10-040-24W4	25/Jun/23	21	78	1	< 2	8980	< 1	< 1	< 0.01	< 0.01	20.82	77.8	1.35	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-23.11	-281.02	-287.35	0.72	2650.29
07-10-040-24W4	14/Sep/23	21.00	78.00	2.00	< 2	5510.00	< 1	< 1	< 0.01	0.1240	20.8434	78.4682	0.5644	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.42	-	-	-	-
07-10-040-24W4	14/Jun/24	210000	780000	1	5	4650	< 1	< 1	< 100	351	20.8643	781645	9361	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-23.57	-	-	-	-
07-10-040-24W4	14/Sep/24	210000	780000	1	2	8930	< 1	< 1	< 100	< 100	20.21955	784263.4	13491.83	< 1	< 100	< 100	< 10	< 10	< 10	14.91	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-20.72	-355.06	-360.81	0.64	3530.00
08-09-040-24W4	24/Sep/22	200000	790000	1.00	< 2	9660	< 1	< 1	< 100	100	18.74	798000	14600	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-20.71	-	-	-	-
Field Duplicate	24/Sep/22	210000	790000	2.00	< 2	6070	< 1	< 1	< 100	100	19.89	792000	9100	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-23.01	-	-	-	-
08-09-040-24W4	28/Jun/23	21	78	2	< 2	8360	< 1	< 1	< 0.001	0.0019	21.0501	78.8650	0.0822	< 0.0001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-18.31	-49.44	-57.80	0.95	407.29
Field Duplicate	28/Jun/23	21	78	2	< 2	9350	< 1	< 1	< 0.001	0.0013	18.7016	79.8937	1.4025	< 0.0001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-18.99	-50.27	-58.62	0.95	414.31
08-09-040-24W4	16/Sep/23	18	80	1	< 2	20500	< 1	< 1	0.3950	0.2331	15.2635	81.5057	2.6028	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
08-09-040-24W4	22/Sep/23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-20.95	-58.87	-67.14	0.94	490.00
08-09-040-24W4	18/Jun/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-21.54	-	-	-	-
08-09-040-24W4	19/Jun/24	200000	780000	< 1	< 2	19000	< 1	< 1	< 100	< 100	18.699	789620	22780	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08-09-040-24W4	19/Sep/24	190000	800000	1	2	15900	< 1	< 1	760	< 100	16.595	804360	28880	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-19.99	-70.75	-79.03	0.93	590.00
09-10-040-24W4	1/Oct/20	140000	780000	< 1	< 2	83600	< 1	< 1	-	-	-	-	-	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	Untraceable	-	-	-	Untraceable	Untraceable	Untraceable	N/A	-20.55	-	-581.27	0.42	6993.00
09-10-040-24W4	21/Jun/21	220000	780000	2	< 2	7020	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.05	-	-	0.42	-
09-10-040-24W4	29/Jun/21	220000	780000	2	< 2	7020	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.05	-	-	0.42	-
09-10-040-24W4	16/Oct/21	140000	790000	2	< 2	67900	< 1	< 1	< 10	478	10.5145	799715	94663	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.37	-595.64	-599.09	0.40	7273.47
09-10-040-24W4	16/Oct/21	140000	800000	2	< 2	53000	< 1	< 1	25	221	10.1737	801683	96334	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
09-10-040-24W4	16/Sep/22	180000	780000	3.00	< 2	46900	< 1	< 1	< 100	< 100	14.854	781620	69780	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.54	-	-	-	-
09-10-040-24W4	25/Jun/23	22	78	2	< 2	1270	< 1	< 1	< 0.01	0.01	22.15	77.6	0.19	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-18.10	-459.14	-463.90	0.54	4937.01
09-10-040-24W4	14/Sep/23	21.00	78.00	2.00	< 2	16300.00	< 1	< 1	< 0.01	0.1540	20.9686	78.1783	0.6991	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.49	-	-	-	-
09-10-040-24W4	14/Jun/24	200000	780000	1	4	14200	< 1	< 1	< 100	591	18.8657	785738	24991	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	10	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.34	-	-	-	-
09-10-040-24W4	16/Sep/24	200000	780000	2	< 2	14200	< 1	< 1	2043.11	< 100	19.85490	780645.3	18761.06	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-19.66	-520.31	-524.58	0.48	5910.00
10-02-040-24W4	3/Jun/19	-	-	< 1	-	13700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-19.48	-	-160.47	0.84	1405.00
10-02-040-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	20	790000	13700	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-02-040-24W4	1/Aug/19	-	-	1	-	16700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-02-040-24W4	8/Aug/19	-	-	-	-	-	1	< 1	-	-	20	760000	16300	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-02-040-24W4	2/Oct/19	200000	760000	< 1	< 2	18400	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-8.71	-	-158.74	0.85	1322.00
10-02-040-24W4	23/Sep/20	210000	770000	< 1	< 2	19600	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-19.64	-	-144.85	0.86	1257.00
10-02-040-24W4	27/Jun/21	200000	780000	< 1	< 2	23500	< 1	< 1	< 10	< 10	18.953	795019	15433	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	18	< 10	< 10	< 10	< 10	< 10	< 10	14.8	< 10	< 10	< 10	-	-	-	-	-	-
10-02-040-24W4	27/Jun/21	-	-	-	-	-	-	-	< 10	< 10	18.9771	795825	14387	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	17	< 10	< 10	< 10	< 10	< 10	< 10	13.9	< 10	< 10	< 10	-	-	-	-	-	-
10-02-040-24W4	13/Oct/21	210000	780000	2	< 2	14400	< 1	< 1	< 10	148	20.0358	782381	17112	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.28	-143.65	-150.97	0.86	1245.73
10-02-040-24W4	17/Sep/22	210000	780000	2.00	< 2	16200	< 1	< 1	< 10	28	20.3096	773781	23095	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.55	-	-	-	-
10-02-040-24W4	25/Jun/23	21	78	1	< 2	10700	< 1	< 1	< 0.01	0.01	18.72	79.8	1.49	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-	-	-	-	-
Field Duplicate	25/Jun/23	21	78	1	< 2	10900	< 1	< 1	< 0.01	0.01	19.5	78.8	1.68	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-	-	-	-	-
10-02-040-24W4	26/Jun/23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-20.57	-	-	-	-
Field Duplicate	26/Jun/23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-20.93	-	-	-	-
10-02-040-24W4	16/Sep/23	20	78	1	< 2	15900	< 1	< 1	< 0.01	0.2076	18.5813	78.8286	2.3825	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.04	-139.13	-146.70	0.86	1210.00
10-02-040-24W4	14/Sep/24	210000	780000	1	< 2	9620	< 1	< 1	< 100	574.39	18.68808	753622.2	20626.22	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11052.76	27242.06	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-01-040-24W4	3/Jun/19	-	-	< 1	-	53000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-20.64	-	-147.63	0.85	1283.00
12-01-040-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	17	780000	53000	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-01-040-24W4	1/Aug/19	-	-	1	-	70200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-01-040-24W4	8/Aug/19	-	-	-	-	-	1	< 1	-	-	12	790000	68500	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-01-040-24W4	9/Oct/19	170000	760000	< 1	< 2	50800	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-	-
12-01-040-24W4	13/Oct/21	190000	780000	2	< 2	24500	< 1	< 1	< 10	478	17.2393	789084	38044	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.81	-294.29	-300.32	0.71	2799.87
12-01-040-24W4	18/Jun/22	170000	790000	1.00	< 2	44100	< 1	< 1	< 100	< 100	12.39	807000	69200	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.39	-292.30	-298.44	0.71	2777.34
12-01-040-24W4	28/Jun/23	17	78	2	< 2	44400	< 1	< 1	0.0010	0.0040	21.0453	78.9053	0.0443	< 0.0001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.56	-	-	-	-
12-01-040-24W4	16/Sep/23	13	81	1	< 2	64400	< 1	< 1	< 0.01	0.1774	8.6423	82.7904	8.3900	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.65	-273.74	-280.13	0.73	2570.00
Field Duplicate	16/Sep/23	13	80	1	< 2	66300	< 1	< 1	< 0.01	0.2056	8.7195	82.7148	8.3601	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.70	-272.54	-278.93	0.73	2560.00
12-01-040-24W4	19/Jun/24	160000	790000	< 1	2	52100	< 1	< 1	< 100	540	14.865	796770	54020	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-22.03	-	-	-	-

		Breathing Air Analysis					Extended Gas Analysis																											Isotope Analysis				
Sampling ID	Date (dd-mmm-yy)	Oxygen (O2) - BA	Nitrogen (N2) - BA	Methane - BA	Carbon Monoxide (CO) - BA	Carbon Dioxide (CO2) -BA	Volatile Non-Methane Hydrocarbons (VNMH) - BA	Volatile Halogenated Hydrocarbons (VHH) - BA	Helium (He)	Hydrogen (H2)	Oxygen (O2)	Nitrogen (N2)	Carbon Dioxide (CO2)	Hydrogen Sulphide (H2S)	Methane (C1)	Ethane (C2)	Propane (C3)	iButane (iC4)	nButane (nC4)	1-Pentane (iC5)	n-Pentane (nC5)	Hexane (C6)	Heptanes (C7)	Octanes (C8)	Nonanes (C9)	Decanes+ (C10+)	Cyclopentane	Benzene	Cyclohexane	2,2,4-trimethylpentane	Methylcyclohexane	Toluene	Ethylbenzene	Xylenes	δ^{13}C-CH4	δ^{13}C-CO2	Δ^{14} Normalised 14C in CO2	Δ^{14} delt14C in CO2	T1 4C in CO2	14C in CO2
		ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	%	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	‰	‰	‰	‰	None	yr BP
12-02-040-24W4	9/Aug/19	-	-	1	-	41200	1	< 1	-	-	16	780000	40500	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-02-040-24W4	2/Oct/19	170000	780000	< 1	< 2	30800	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-
12-02-040-24W4	23/Sep/20	180000	780000	< 1	< 2	37800	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-02-040-24W4	27/Jun/21	170000	780000	1	< 2	43700	3	< 1	< 10	91	17.492	799150	25701	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10	28	69	12	< 10	< 10	< 10	< 10	< 10	< 10	26.1	< 10	< 10	-	-7.53	-	-	0.52	-
12-02-040-24W4	15/Oct/21	190000	790000	2	< 2	27200	< 1	< 1	< 10	459	17.5013	792783	31745	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.53	-464.84	-469.42	0.54	5022.20
12-02-040-24W4	24/Jun/22	180000	790000	1.00	< 2	29600	< 1	< 1	< 100	< 100	21.14	785000	3300	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-21.57	-466.45	-471.08	0.53	5046.37
12-02-040-24W4	25/Jun/23	19	79	1	< 2	22400	< 1	< 1	< 0.01	0.02	16.19	80.2	3.63	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-22.85	-	-	-	-
12-02-040-24W4	16/Sep/23	19	79	1	< 2	21100	< 1	< 1	0.4508	0.2651	16.7377	79.2435	3.3029	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
12-02-040-24W4	22/Sep/23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-21.7	-473.68	-478.30	0.53	5160.00
12-02-040-24W4	12/Jun/24	190000	780000	1	6	21900	< 1	< 1	< 100	382	18.2022	791041	26548	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.13	-494.53	-499.04	0.51	5490.00
16-03-040-24W4	9/Aug/19	-	-	1	-	36000	1	< 1	-	-	18	770000	35500	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-16.4	-	-167.15	0.84	1402.30
16-03-040-24W4	2/Oct/19	190000	770000	< 1	3	20500	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-
16-03-040-24W4	15/Oct/21	210000	780000	2	< 2	9140	< 1	< 1	< 10	247	19.6868	788693	14189	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.74	-150.25	-157.51	0.85	1307.90
16-03-040-24W4	24/Sep/22	200000	780000	< 1	< 2	20800	2.00	< 1	< 100	< 100	20.06	777000	22300	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-19.91	-	-	-	-
16-03-040-24W4	28/Jun/23	20	79	1	< 2	13700	< 1	< 1	< 0.001	0.0039	21.0761	78.7255	0.1945	< 0.0001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.00	-145.74	-153.25	0.85	1265.31
16-03-040-24W4	16/Sep/23	20	78	1	< 2	16700	< 1	< 1	< 0.01	0.0023	18.9755	78.3114	2.5109	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.65	-	-	-	-
16-03-040-24W4	15/Jun/24	200000	790000	1	6	13300	< 1	< 1	< 100	100	19.8933	786157	14824	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.32	-	-	-	-
16-03-040-24W4	14/Sep/24	210000	780000	1	2	14200	< 1	< 1	1251.88	< 100	19.32201	782825.5	22642.16	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-21.93	-146.16	-153.77	0.85	1270.00
16-09-040-24W4	28/Sep/20	210000	780000	< 1	< 2	9100	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-19.95	-	-162.34	0.84	1423.00
16-09-040-24W4	26/Jun/21	200000	780000	< 1	< 2	16200	< 1	< 1	< 10	87	19.8183	790593	10886	100	< 10	< 10	< 10	10	< 10	< 10	< 10	11	33	72	13	< 10	< 10	< 10	< 10	< 10	11.2	23	< 10	< 10	-	-	-	-	-	-
16-09-040-24W4	15/Oct/21	210000	780000	2	< 2	6190	< 1	< 1	< 10	230	19.7358	794090	8321	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.24	-144.98	-152.29	0.86	1258.25
16-09-040-24W4	25/Jun/22	160000	790000	1.00	< 2	54500	< 1	< 1	< 100	< 100	12.88	803000	68600	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-10.76	-157.34	-164.64	0.84	1375.14
16-09-040-24W4	22/Sep/22	220000	780000	2.00	< 2	3730	< 1	< 1	< 10	104	19.9317	795280	5291	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-19.98	-	-	-	-
16-09-040-24W4	24/Jun/23	21	79	< 1	< 2	5080	< 1	< 1	< 0.01	< 0.01	19.41	79.89	0.70	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-26.39	-	-	-	-
16-09-040-24W4	16/Sep/23	21	78	1	< 2	11400	< 1	< 1	< 0.01	0.1701	20.6099	78.5917	0.6284	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.44	-152.99	-160.44	0.85	1340.00
16-09-040-24W4	15/Jun/24	210000	780000	< 1	2	12000	< 1	2	1410	100	20.161	782110	14770	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1	-	-19.33	-169.48	-176.88	0.83	1500.00
16-09-040-24W4	15/Sep/24	210000	780000	1	2	6610	< 1	1	< 100	< 100	19.70406	785131.7	17736.71	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-16.13	-	-	-	-
North 2 Data																																								
09-16-040-24W4	23/Jun/21	170000	800000	< 1	< 2	32700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-13.42	-	-	0.80	-
09-16-040-24W4	17/Oct/21	210000	780000	2	< 2	18500	-	-	< 10	468	18.8519	790590	20422	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09-16-040-24W4	22/Jun/22	180000	790000	1.00	< 2	33400	< 1	< 1	< 100	< 100	16.18	798000	40700	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	10	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.10	-	-	-	-
09-16-040-24W4	18/Sep/22	210000	770000	3.00	2.00	25800	< 1	< 1	< 100	< 100	18.924	765830	44640	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	110	80	< 10	< 10	< 10	< 10	< 10	14.9	25.3	< 10	< 10	< 10	< 10	-	-25.10	-293.26	-299.39	0.71	2788.21
09-16-040-24W4	16/Sep/23	18	79	1	< 2	26800	< 1	< 1	0.3158	0.2268	15.0798	80.4209	3.9567	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
09-16-040-24W4	22/Sep/23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-22.17	-283.58	-289.88	0.72	2680.00
09-16-040-24W4	11/Jun/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-22.2	-287.57	-293.92	0.71	2730.00
09-16-040-24W4	12/Jun/24	190000	790000	< 1	4	26300	7	< 1	< 100	< 100	17.9218	790408	30333	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-	-	-	-	-
09-16-040-24W4	16/Sep/24	200000	780000	2	3	17900	< 1	< 1	< 100	< 100	17.41105	788065.5	37753.5	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-20.72	-	-	-	-
07-21-040-24W4	24/Jun/21	9000	840000	1	< 2	70920	< 1	< 1	< 10	80	9	840000	70920	< 1	1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	18	24	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.05	-	-	0.49	-
07-21-040-24W4	7/Oct/21	50000	930000	203	< 2	15600	< 1	< 1	13	101	4.0612	944995	13339	219	191	< 10	< 10	< 10	24	23	69	128	177	94	< 10	< 10	11	33.8	31	< 10	26.9	21.9	< 10	< 10	< 10	-	-	-	-	-	-
07-21-040-24W4	14/Oct/21	100000	840000	2	< 2	59400	< 1	< 1	< 10	320	5.693	862560	80190	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-	-	-	-	-
07-21-040-24W4	22/Jun/22	140000	810000	1.00	< 2	49300	< 1	< 1	< 100	< 100	9.73	831000	71100	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	30	30	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.69	-520.46	-524.62	0.48	5903.70
07-21-040-24W4	13/Jun/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-20.68	-504.48	-508.89	0.50	5650.00
07-21-040-24W4	15/Jun/24	140000	810000	2	5	55700	< 1	< 1	< 100	359	12.4259	823188	52193	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
07-21-040-24W4	15/Sep/24	130000	820000	1	< 2	57800	< 1	< 1	< 100	< 100	8.602212	837478.0	76448.97	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-18.73	-	-	-	-
Field Duplicate	15/Sep/24	130000	820000	1	< 2	54100	< 1	< 1	< 100	< 100	8.754808	834216.7	78189.2	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Duplicate	15/Sep/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-23.11	-	-	-	-
12-15-040-24W4	29/Jun/21	190000	780000	< 1	< 2	29900	1	< 1	< 10	165	18.4809	796485	18376	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	15	48	73	< 10	< 10	< 10	< 10	< 10	< 10	15.8	13.7	< 10	< 10	< 10	-	-20.65	-	-	0.55	-
12-15-040-24W4	17/Oct/21	200000	790000	2	< 2	14300	< 1	< 1	< 10	190	18.3202	795352	21256	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
12-15-040-24W4	22/Jun/22	200000	780000	1.00	< 2	12900	< 1	< 1	< 100	< 100	19.01	791100	18700	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	10	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.35	-	-	-	-
12-15-040-24W4	22/Sep/22	210000	780000	1.00	4.00	15000	< 1	< 1	27	78	19.4292	783705	21898	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.94	-412.07	-417.17	0.59	4266.75
12-15-040-24W4	24/Jun/23	21	78	< 1	< 2	10900	< 1	< 1	< 0.01	< 0.01	19.61	78.9	1.53	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-20.70	-458.52	-463.28	0.54	4927.84
12-15-040-24W4	15/Jun/24	200000	780000	< 1	4	13100	< 1	< 1	< 100	< 100	20.927	786970	3720	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-19.91	-440.62	-445.61	0.56	4670.00
12-15-040-24W4	11/Sep/24	200000	780000	1	4	11500	< 1	< 1	< 100	< 100	19.4146	786442	19413	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11	10	< 10	68	-	-19.6	-	-	-	-
12-21-040-24W4	24/Jun/21	220000	780000	2	< 2	6930	< 1	< 1	-	-	22	780000	6930	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-20.25	-	-	0.82	-
12-21-040-24W4	16/Oct/21	200000	780000	1	< 2	26600	< 1	< 1	< 10	475	18.6873	783600	29051	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
12-21-040-24W4	21/Jun/22	200000	780000	2.00	< 2	16900	< 1	< 1	< 100	< 100	18.58	791000	22800	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.43	-	-	-	-
12-21-040-24W4	14/Sep/22	210000	780000	2.00	< 2	17500	< 1	< 1	< 10	15	19.5826	773014	31146	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-16.17	-135.08	-142.58	0.86	1165.75
Field Duplicate	14/Sep/22	210000	770000	2.00	< 2	18600	< 1	< 1	< 10	307	19.5835	771792	32055	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-17.60	-138.38	-145.85	0.86	1196.44
13-16-040-24W4	24/Jun/21	210000	780000	< 1	< 2	11340	-	-	< 10	121	20.9125	789116	1067	< 1	< 10	< 10	< 10	< 10	< 10	17	78	168	257	49	< 10	< 10	20.6	< 10	25.2	< 10	54.7	12.2	< 10	< 10	-	-20.73	-	-	0.98	-
13-16-040-24W4	14/Oct/21	210000	780000	1	< 2	5560	< 1	< 1	< 10	< 10	20.821	785060	6730	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-	-	-	-	-
13-16-040-24W4	21/Jun/22	210000	780000	1.00	< 2	8630	< 1	< 1	< 100	< 100	20.21	787000	10900	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.28	-	-	-	-
13-16-040-24W4	14/Sep/22	210000	780000	2.00	< 2	6140	< 1	< 1	< 10	< 10	20.9196	781469	9331	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-19.35	-	-	-	-
13-16-040-24W4	14/Jun/24	210000	780000	1	4	6030	< 1	< 1	< 100	< 100	20.9734	783512	6715	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.7	-	-	-	-
13-16-040-24W4	15/Sep/24	210000	780000	< 1	2	6920	< 1	< 1	1377.03	< 100	20.62595	773539.7	8734.61	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10086.73	< 10	-	-	-	-	-	-	-	-	-20.34	-	-	-	-
14-21-040-24W4	24/Jun/21	220000	780000	< 1	< 2	4100	< 1	< 1	-	-	22	780000	4100	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-16.75	-	-	0.63	-
14-21-040-24W4	14/Oct/21	210000	790000	1	< 2	2650	< 1	< 1	< 10	330	20.946	787530	2680	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-	-	-	-	-
14-21-040-24W4	21/Jun/22	220000	780000	1.00	< 2	2650	< 1	< 1	< 100	< 100	21.09	785000	3600	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-16.84	-	-	-	-
14-21-040-24W4	14/Sep/22	220000	780000	2.00	< 2	2070	< 1	< 1	12	45	20.8999	787808	3136	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-17.04	-214.87	-221.68	0.79	1943.21
14-21-040-24W4	14/Jun/24	210000	780000	1	5	3020	< 1	< 1	< 100	< 100	21.0904	786649	2427	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-16.2	-319.58	-325.64	0.68	3100.00
14-21-040-24W4	11/Sep/24	210000	780000	< 1	4	3770	< 1	< 1	2730	< 100	21.2310	779608	5226	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	26	84	10	< 10	< 10	< 10	< 10	< 10	19	12	< 10	70	-	-	-	-	-	-
14-21-040-24W4	12/Sep/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-17.73	-	-	-	-

		Breathing Air Analysis					Extended Gas Analysis																										Isotope Analysis					
Sampling ID	Date (dd-mmm-yy)	Oxygen (O2) - BA	Nitrogen (N2) - BA	Methane - BA	Carbon Monoxide (CO) - BA	Carbon Dioxide (CO2) -BA	Volatile Non-Methane Hydrocarbons (VNMH) - BA	Volatile Halogenated Hydrocarbons (VHH) - BA	Helium (He)	Hydrogen (H2)	Oxygen (O2)	Nitrogen (N2)	Carbon Dioxide (CO2)	Hydrogen Sulphide (H2S)	Methane (C1)	Ethane (C2)	Propane (C3)	i-Butane (iC4)	n-Butane (nC4)	i-Pentane (iC5)	n-Pentane (nC5)	Hexane (C6)	Heptanes (C7)	Octanes (C8)	Nonanes (C9)	Decanes+ (C10+)	Cyclopentane	Benzene	Cyclohexane	2,2,4-trimethylpentane	Methylcyclohexane	Toluene	Ethylbenzene	Xylenes	‰ d13C-CH4	‰ d13C-CO2	pMC Normalised 14C in CO2	pMC del14C in CO2	14C in CO2	14C in CO2
		ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	%	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	‰	‰			None	yr BP
16-16-040-24W4	17/Oct/21	220000	780000	2	< 2	6040	< 1	< 1	32	230	19.9496	792317	7925	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
16-16-040-24W4	22/Jun/22	190000	790000	1.00	< 2	22600	< 1	< 1	< 100	< 100	17.21	797000	30700	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	10	20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.02	-	-	-	-
16-16-040-24W4	16/Sep/22	200000	780000	3.00	< 2	25300	< 1	< 1	< 100	< 100	19.242	772410	35140	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-19.23	-283.00	-289.22	0.72	2672.40
16-16-040-24W4	16/Sep/23	17	79	1	< 2	38600	< 1	< 1	0.2802	0.1326	14.2639	80.1530	5.1704	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
16-16-040-24W4	22/Sep/23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-21.61	-287.50	-293.77	0.71	2730.00
16-16-040-24W4	15/Jun/24	200000	780000	1	4	23500	< 1	< 1	< 100	182	19.1111	783676	25030	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-19.74	-276.20	-282.65	0.72	2600.00
16-16-040-24W4	11/Sep/24	180000	780000	2	3	31800	< 1	< 1	684	1247	17.2114	787692	38263	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
16-16-040-24W4	13/Sep/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-20.43	-	-	-	-
16-20-040-24W4	24/Jun/21	190000	790000	1	< 2	27100	1	< 1	< 10	491	18.2129	799694	17498	< 1	< 10	< 10	11	< 10	< 10	< 10	< 10	18	47	81	14	< 10	< 10	< 10	< 10	< 10	15.9	12.6	< 10	< 10	-	-20.85	-	-	-	-
16-20-040-24W4	14/Oct/21	210000	770000	1	< 2	14500	< 1	< 1	70	< 10	20.375	779110	17070	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-	-	-	-	-
16-20-040-24W4	21/Jun/22	210000	780000	1.00	< 2	11000	< 1	< 1	< 100	< 100	19.41	790000	15600	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.05	-	-	-	-
16-20-040-24W4	22/Sep/22	210000	780000	1.00	< 2	17200	< 1	< 1	< 10	63	19.6676	778336	24829	< 1	< 10	26	70	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.98	-63.41	-71.53	0.94	526.21
100/07-15-040-24W4/02	20/Jun/24	200000	780000	< 1	< 2	19800	< 1	< 1	< 100	110	19.092	783940	25040	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-19.51	-133.51	-141.23	0.87	1160.00
100/07-15-040-24W4/02	19/Sep/24	190000	780000	< 1	3	29300	< 1	< 1	< 100	< 100	17.686	788070	35030	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-19.67	-114.28	-122.18	0.89	975.00
Field Duplicate	19/Sep/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-115.58	-123.46	0.88	990.00
North 3 Data																																							
01-32-040-24W4	28/Jun/21	200000	780000	< 1	< 2	26600	< 1	< 1	< 10	140	19.1035	792279	16382	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	21	54	74	< 10	< 10	< 10	< 10	< 10	< 10	14.4	10.7	< 10	< 10	-	-	-	-	-	-
01-32-040-24W4	12/Oct/21	200000	780000	1	< 2	17500	129	< 1	< 10	449	19.1358	786047	21875	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	14	100	122	15	< 10	< 10	< 10	< 10	< 10	14	26	< 10	< 10	-	-19.82	-313.11	-318.98	0.69	3017.01
01-32-040-24W4	18/Jun/22	210000	780000	1.00	< 2	13200	< 1	< 1	< 100	< 100	18.63	794000	20100	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.07	-330.29	-336.10	0.67	3220.47
01-32-040-24W4	14/Sep/22	200000	780000	2.00	< 2	20300	< 1	< 1	18	38	18.9791	783453	26700	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-19.25	-305.37	-311.39	0.69	2926.99
Field Duplicate	14/Sep/22	200000	780000	2.00	< 2	21600	< 1	< 1	< 10	95	19.1866	783106	24887	< 1	47	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-19.80	-305.92	-311.94	0.69	2933.43
01-32-040-24W4	13/Jun/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-18.24	-	-	-	-
01-32-040-24W4	19/Sep/24	200000	790000	2	3	12400	< 1	< 1	650	< 100	18.709	790580	21680	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-20.64	-311.22	-317.36	0.69	3000.00
02-05-041-24W4	28/Jun/21	170000	790000	1	< 2	45700	1	< 1	< 10	160	16.8263	803027	28323	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	29	76	94	12	< 10	< 10	< 10	< 10	< 10	19.1	13.1	< 10	< 10	-	-	-	-	-	-
02-05-041-24W4	12/Oct/21	210000	770000	1	< 2	19500	< 1	< 1	< 10	520	19.3493	778657	27250	< 1	< 10	< 10	< 10	< 10	11	< 10	< 10	< 10	39	25	< 10	< 10	< 10	< 10	< 10	< 10	10.3	21.8	< 10	< 10	-	-19.37	-44.47	-52.64	0.96	365.44
02-05-041-24W4	18/Jun/22	190000	790000	1.00	< 2	20400	< 1	< 1	< 100	< 100	15.44	813000	32600	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.34	-	-	-	-
02-05-041-24W4	14/Sep/22	210000	770000	2.00	< 2	24100	1.00	< 1	17	18	19.6841	767574	35425	< 1	51	< 10	< 10	< 10	< 10	< 10	< 10	16	22	37	< 10	< 10	< 10	< 10	< 10	< 10	13.9	11.8	< 10	< 10	-	-18.71	-42.69	-50.99	0.96	350.46
05-33-040-24W4	28/Jun/21	190000	780000	< 1	< 2	27800	< 1	< 1	< 10	605	18.6744	795704	16785	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	18	45	74	12	< 10	< 10	< 10	< 10	< 10	13.2	10.6	< 10	< 10	-	-	-	-	-	-
05-33-040-24W4	12/Oct/21	200000	790000	1	< 2	16200	< 1	< 1	< 10	220	18.3252	793463	23065	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.72	-298.86	-304.85	0.70	2852.07
05-33-040-24W4	18/Jun/22	200000	790000	1.00	< 2	11600	< 1	< 1	< 100	< 100	17.56	805000	19000	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.72	-	-	-	-
Field Duplicate	18/Jun/22	200000	790000	1.00	< 2	13600	< 1	< 1	< 100	100	18.01	800000	19300	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.59	-	-	-	-
05-33-040-24W4	16/Sep/22	210000	780000	2.00	< 2	17000	< 1	< 1	< 100	< 100	19.292	780600	26410	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.61	-295.38	-301.49	0.70	2812.31
05-33-040-24W4	14/Jun/24	210000	780000	< 1	2	10500	< 1	< 1	< 100	190	19.940	785820	14580	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-20.13	-	-	-	-
05-33-040-24W4	20/Sep/24	200000	790000	< 1	< 2	17100	< 1	< 1	< 100	100	18.812	789300	22530	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-292.04	-298.35	0.71	2780.00
06-05-041-24W4	28/Jun/21	210000	770000	2	< 2	15800	2	< 1	< 10	256	20.8646	781314	9784	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
06-05-041-24W4	12/Oct/21	200000	770000	1	< 2	27500	< 1	< 1	< 10	114	17.6794	787714	35364	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.05	-185.343	-192.302	0.814657	1646.67
06-05-041-24W4	18/Jun/22	210000	780000	2.00	< 2	15800	< 1	< 1	< 100	100	17.18	789000	38800	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-18.35	-	-	-	-
06-05-041-24W4	16/Sep/22	190000	780000	1.00	< 2	31100	< 1	< 1	< 100	< 100	18.141	773680	44880	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-18.18	-184.38799	-191.46209	0.8156105	1637.258
Field Duplicate	16/Sep/22	200000	770000	2.00	< 2	35900	< 1	< 1	< 100	< 100	18.330	773890	42760	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-19.17	-183.81444	-190.89351	0.816184	1631.6111
06-05-041-24W4	13/Jun/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-19.15	-	-	-	-
06-05-041-24W4	14/Jun/24	190000	780000	< 1	< 2	27000	< 1	< 1	< 100	180	18.599	784480	29360	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-	-	-	-	-
06-05-041-24W4	20/Sep/24	200000	780000	1	< 2	21800	< 1	< 1	970	100	16.90	787270	42710	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-178.58	-185.90	0.82	1590.00
06-08-041-24W4	28/Jun/21	130000	800000	< 1	< 2	76100	1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06-08-041-24W4	10/Oct/21	140000	800000	1	< 2	65600	< 1	< 1	< 10	117	11.1162	800934	87698	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	34	30	< 10	< 10	< 10	< 10	< 10	< 10	10.2	< 10	< 10	< 10	-	-22.57	-360.45	-365.91	0.64	3590.66
06-08-041-24W4	25/Jun/22	200000	790000	1.00	< 2	6640	< 1	< 1	< 100	200	20.03	794000	5400	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-21.14	-364.30	-369.82	0.64	3639.19
06-08-041-24W4	14/Sep/22	190000	780000	5.00	2.00	35600	5.00	< 1	< 10	29	15.5414	776478	67963	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	28	57	30	< 10	< 10	< 10	< 10	< 10	< 10	10.1	< 10	< 10	< 10	-	-21.10	-337.62	-343.36	0.66	3308.90
06-08-041-24W4	11/Sep/24	150000	790000	3	2	59200	< 1	< 1	1872	418	11.5032	811596	71082	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
06-08-041-24W4	13/Sep/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-19.74	-331.96	-337.91	0.67	3250.00
06-28-040-24W4	28/Jun/21	210000	780000	1	< 2	10020	< 1	< 1	< 10	178	20.632	786415	7008	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	27	38	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.06	-	-	0.81	-
06-28-040-24W4	18/Jun/22	210000	780000	1.00	< 2	10200	< 1	< 1	< 100	100	19.67	790000	13600	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-19.21	-	-	-	-
06-28-040-24W4	14/Sep/22	210000	780000	1.00	< 2	16600	< 1	< 1	< 10	33	20.0040	780793	19134	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-19.67	-175.55	-182.70	0.82	1550.72
06-28-040-24W4	13/Jun/24	210000	780000	1	4	10300	< 1	< 1	< 100	< 100	20.2199	785931	11847	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-19.85	-	-	-	-
06-28-040-24W4	11/Sep/24	200000	780000	< 1	2	15200	< 1	< 1	< 100	< 100	20.0014	781965	17829	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	10	38	131	< 10	< 10	< 10	< 10	10	< 10	29	18	< 10	41	-	-	-	-	-	-
06-28-040-24W4	13/Sep/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-19.04	-	-	-	-
10-32-040-24W4	28/Jun/21	190000	780000	< 1	< 2	31500	1	< 1	< 10	194	18.7435	793808	18368	< 1	< 10	< 10	< 10	11	< 10	< 10	< 10	20	56	84	< 10	< 10	< 10	< 10	< 10	< 10	17.5	14.6	< 10	< 10	-	-	-	-	-	-
10-32-040-24W4	12/Oct/21	200000	780000	2	< 2	20200	< 1	< 1	< 10	26	19.6227	775862	27867	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.07	-154.08	-161.31	0.85	1344.16
10-32-040-24W4	18/Jun/22	210000	780000	1.00	< 2	15200	< 1	< 1	< 100	< 100	18.06	796000	23400	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-19.62	-	-	-	-
10-32-040-24W4	14/Sep/22	200000	780000	2.00	< 2	24000	< 1	< 1	< 10	21	18.9579	778399	32001	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-18.86	-151.25	-158.61	0.85	1317.30
12-28-040-24W4	21/Jun/21	200000	780000	< 1	< 2	12050	< 1	< 1	10	10	19.602	792410	11510	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	20	10	< 10	< 10	< 10	< 10	< 10	< 10	11	< 10	< 10	< 10	-	-	-	-	-	-
12-28-040-24W4	23/Jun/21	200000	780000	1	< 2	14200	< 1	< 1	10	10	19.602	792410	11510	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	20	10	< 10	< 10	< 10	< 10	< 10	< 10	11	< 10	< 10	< 10	-	-	-	-	-	-
12-28-040-24W4	13/Oct/21	220000	780000	3	< 2	4010	< 1	< 1	< 10	< 10	21.4393	779269	6214	< 1	< 10	121	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.36	-113.54	-121.12	0.89	968.16
12-28-040-24W4	18/Jun/22	210000	780000	1.00	< 2	6990	< 1	< 1	< 100	< 100	19.30	797000	10200	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.77	-110.01	-117.73	0.89	936.18
Field Duplicate	18/Jun/22	210000	780000	1.00	< 2	5710	< 1	< 1	< 100	< 100	19.00	802000	8400	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.9	-109.81	-117.53	0.89	934.42
12-28-040-24W4	14/Sep/22	220000	780000	3.00	< 2	5050	< 1	< 1	< 10	11	20.8527	784608	6854	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-18.64	-	-	-	-
12-28-040-24W4	13/Jun/24	210000	780000	1	5	6540	< 1	< 1	< 100	140	20.7162	785513	7184	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.38	-	-	-	-
12-28-040-24W4	14/Jun/24	220000	780000	2	2	1070	25	< 1	< 100	1450	20.739	780870	10290	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Duplicate	14/Jun/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-20.5	-	-	-	-
12-28-040-24W4	19/Sep/24	220000	780000	2	3	4450	< 1	< 1	1750	150	20.726	781860	8990	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-103.80	-111.79	0.90	885.00
13-05-041-24W4	28/Jun/21	210000	780000	< 1	< 2	8170	1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-05-041-24W4	16/Oct/21	220000	780000	3	< 2	2850	< 1	< 1	< 10	55	20.347	792311	4164	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-19.26	-109.95	-117.56	0.89	935.69
13-05-041-24W4	18/Jun/22	170000	790000	1.00	< 2	44900	< 1	< 1	< 100	100	12.13	802000	76300	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.02	-	-	-	-
13-05-041-24W4	24/Sep/22	210000	780000	< 1	< 2	5460	< 1	< 1	< 100	< 100	21.31	781000	5900	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-19.83	-	-	-	-
Field Duplicate	24/Sep/22	210000	780000	1.00	< 2	4970	< 1	< 1	< 100	100	21.31	781000	5800	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-19.85	-	-	-	-
13-05-041-24W4	17/Jun/24	220000	780000	< 1	3	3400	< 1	< 1	< 100	570	20.981	783670	5950	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13-05-041-24W4	20/Jun/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-19.62	-	-	-	-
13-05-041-24W4	11/Sep/24	210000	780000	< 1	3	4860	< 1	< 1	429	< 100	20.8546	785179	5846	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
13-05-041-24W4	13/Sep/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-18.02	-130.79	-138.54	0.87	1130.00

Sampling ID	Date (dd-mmm-yy)	Breathing Air Analysis					Extended Gas Analysis																											Isotope Analysis					
		Oxygen (O2) - BA	Nitrogen (N2) - BA	Methane - BA	Carbon Monoxide (CO) - BA	Carbon Dioxide (CO2) -BA	Volatile Non-Methane Hydrocarbons (VNMH) - BA	Volatile Halogenated Hydrocarbons (VHH) - BA	Helium (He)	Hydrogen (H2)	Oxygen (O2)	Nitrogen (N2)	Carbon Dioxide (CO2)	Hydrogen Sulphide (H2S)	Methane (C1)	Ethane (C2)	Propane (C3)	i-Butane (iC4)	n-Butane (nC4)	i-Pentane (iC5)	n-Pentane (nC5)	Hexane (C6)	Heptanes (C7)	Octanes (C8)	Nonanes (C9)	Decanes+ (C10+)	Cyclopentane	Benzene	Cyclohexane	2,2,4-Trimethylpentane	Methylcyclohexane	Toluene	Ethylbenzene	Xylenes	$\delta^{13}C\text{-}CH4$	$\delta^{13}C\text{-}CO2$	Normalised 14C in CO2	$\Delta^{14}C$ in CO2	F1 4C in CO2	14C in CO2
		ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	%	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	‰	‰	‰	‰	None	yr BP
14-28-040-24W4	28/Jun/21	210000	780000	2	< 2	5880	< 1	< 1	< 0.01	< 0.01	17.1225	79.7006	3.1745	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
14-28-040-24W4	13/Oct/21	210000	780000	2	< 2	16800	< 1	< 1	< 10	475	20.1107	776085	22329	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.31	-129.15	-136.59	0.87	1110.85
14-28-040-24W4	18/Jun/22	200000	790000	1.00	< 2	12500	< 1	< 1	< 100	< 100	17.51	806000	19000	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.35	-137.47	-144.95	0.86	1187.97
14-28-040-24W4	18/Sep/22	210000	770000	3.00	2.00	13700	< 1	< 1	< 100	< 100	20.830	770940	20750	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.59	-	-	-	-
100/05-21-040-24W4/02	14/Jun/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-24.41	-546.38	-550.42	0.45	6360.00
100/05-21-040-24W4/02	20/Jun/24	210000	780000	2	3	6520	< 1	< 1	< 100	< 100	20.464	783130	12210	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100/05-21-040-24W4/02	20/Jun/24	200000	790000	2	2	14100	< 1	< 1	< 100	280	19.154	789520	18650	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Duplicate	20/Jun/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-26.25	-550.44	-554.45	0.45	6430.00
100/05-21-040-24W4/02	20/Sep/24	90000	810000	1	< 2	94100	< 1	< 1	< 100	110	3.232	825240	142320	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Data																																									
01-35-039-24W4	10/Oct/19	210000	770000	< 1	< 2	8610	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-44.67	-19.33	-	-199.68	0.81	1722.00
01-35-039-24W4	27/Sep/20	210000	780000	1	< 2	9200	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-20.73	-	-175.13	0.82	1547.00
01-35-039-24W4	26/Jun/21	210000	780000	< 1	< 2	13600	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-19.26	-	-	-	-
01-35-039-24W4	11/Oct/21	210000	780000	1	< 2	7700	< 1	< 1	< 10	534	20.4205	785761	9462	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11	17	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
01-35-039-24W4	21/Jun/22	210000	780000	1.00	< 2	7250	< 1	< 1	< 100	< 100	19.59	794000	10100	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.44	-114.08	-121.77	0.89	973.05
01-35-039-24W4	24/Jun/23	21	78	< 1	< 2	9890	< 1	< 1	< 0.01	0.01	19.77	78.8	1.40	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-21.32	-52.41	-60.74	0.95	432.40
01-35-039-24W4	17/Sep/23	21	78	1	< 2	5440	< 1	< 1	< 0.01	0.1130	20.8524	78.1920	0.8413	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-17.4	-	-	-	-
02-23-039-24W4	27/Sep/20	190000	770000	2	< 2	33200	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-9.6	-	-306.85	0.69	2944.00
02-23-039-24W4	26/Jun/21	190000	780000	< 1	< 2	29100	< 1	< 1	< 10	50	19.545	791285	10952	< 1	< 10	< 10	< 10	< 10	< 10	< 10	11	21	20	21	< 10	< 10	< 10	15.3	10.1	-	-	-	-	-	-	-	-	-	-	-	-
02-23-039-24W4	11/Oct/21	200000	780000	< 1	< 2	25700	< 1	< 1	< 10	464	18.8919	784296	26322	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-23.38	-323.30	-329.08	0.68	3137.09
02-23-039-24W4	28/Jun/23	20	78	1	< 2	17900	< 1	< 1	< 0.001	0.0031	21.0411	78.9003	0.0554	< 0.0001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.07	-	-	-	-
02-23-039-24W4	17/Sep/23	20	78	1	< 2	23400	< 1	< 1	< 0.01	0.2592	18.4581	78.2906	2.9920	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.04	-326.37	-332.30	0.67	3180.00
04-26-039-24W4	1/Jun/19	-	-	< 1	-	37800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-19.38	-	-287.17	0.71	2719.00
04-26-039-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	18	780000	37800	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-26-039-24W4	1/Aug/19	-	-	1	-	36800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-26-039-24W4	9/Aug/19	-	-	-	-	-	1	< 1	-	-	18	770000	36300	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-26-039-24W4	12/Oct/19	200000	780000	< 1	< 2	23600	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-	-
04-26-039-24W4	24/Sep/20	200000	770000	1	< 2	30900	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-26-039-24W4	28/Oct/20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-19.38	-	-287.17	0.71	2719.00
04-26-039-24W4	27/Jun/21	170000	790000	< 1	< 2	34100	2	< 1	< 10	< 10	16.9877	808000	22040	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10	29	43	< 10	< 10	< 10	< 10	< 10	< 10	17.4	< 10	< 10	-	-20.55	-	-	0.74	-
04-26-039-24W4	24/Jun/22	190000	800000	1.00	< 2	18700	< 1	< 1	< 100	< 100	19.15	797000	11700	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-21.26	-	-	-	-
04-26-039-24W4	18/Sep/23	19	78	1	< 2	27600	< 1	< 1	< 0.01	< 0.01	17.1225	79.7006	3.1745	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-23.28	-	-	-	-
Field Duplicate	18/Sep/23	19	78	1	< 2	27600	< 1	< 1	< 0.01	0.2521	17.0358	79.3729	3.3391	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.85	-	-	-	-
04-35-039-24W4	11/Aug/19	-	-	1	-	61800	1	< 1	-	-	13	780000	60400	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-19.74	-	-271.66	0.73	2479.35
04-35-039-24W4	10/Oct/19	170000	780000	< 1	< 2	56400	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-	-
04-35-039-24W4	27/Sep/20	170000	770000	< 1	< 2	64400	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-35-039-24W4	12/Oct/21	210000	780000	2	< 2	15700	< 1	< 1	< 10	104	19.0339	790758	18790	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.43	-305.68	-311.61	0.69	2930.61
04-35-039-24W4	21/Jun/22	180000	790000	1.00	< 2	25200	< 1	< 1	< 100	< 100	16.47	806000	29100	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.23	-294.64	-300.76	0.71	2803.87
04-35-039-24W4	28/Jun/23	16	81	1	< 2	31200	< 1	< 1	< 0.001	0.0081	21.0407	78.9052	0.0461	< 0.0001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.28	-174.27	-181.53	0.83	1538.18
04-35-039-24W4	18/Sep/23	20	78	2	< 2	22100	< 1	< 1	< 0.01	0.1624	18.9150	77.7528	3.1698	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.17	-	-	-	-
05-36-039-24W4	11/Oct/19	90000	800000	1	< 2	96900	< 1	< 1	-	-	-	-	-	-	1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-10.4	-	-740.02	0.26	10755.00
05-36-039-24W4	2/Oct/20	130000	780000	2	< 2	93000	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-21.77	-	-706.76	0.29	9855.00
05-36-039-24W4	26/Jun/21	100000	780000	1	< 2	120000	1	< 1	< 10	100	14.5137	850245	4177	123	< 10	< 10	< 10	12	< 10	< 10	< 10	15	45	115	17	< 10	< 10	10.1	< 10	< 10	15.4	30.5	< 10	< 10	-	-21.06	-	-	0.29	-
05-36-039-24W4	11/Oct/21	170000	780000	1	< 2	49200	< 1	< 1	< 10	446	15.5924	782240	61383	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
05-36-039-24W4	18/Sep/22	160000	770000	3.00	< 2	75200	< 1	< 1	< 100	120	11.505	777260	107560	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.22	-697.77	-700.40	0.30	9612.10
05-36-039-24W4	21/Sep/23	14	77	2	< 2	87300	< 1	< 1	0.1932	0.2736	8.2896	79.6467	11.5969	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.91	-685.58	-688.35	0.31	9300.00
05-36-039-24W4	17/Jun/24	170000	790000	1	2	43400	< 1	< 1	< 100	880	15.018	795830	53110	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-20.35	-671.77	-674.69	0.33	8950.00
05-36-039-24W4	16/Sep/24	180000	790000	1	2	28400	< 1	< 1	< 100	< 100	16.78796	791849.5	40187.13	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-20.17	-661.85	-664.86	0.34	8710.00
08-34-039-24W4	3/Jun/19	-	-	< 1	-	31000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-21.74	-	-107.92	0.89	917.00
08-34-039-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	19	780000	31000	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08-34-039-24W4	1/Aug/19	-	-	1	-	32600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08-34-039-24W4	10/Aug/19	-	-	-	-	-	1	< 1	-	-	18	780000	32300	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08-34-039-24W4	12/Oct/19	200000	780000	< 1	< 2	22700	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-	-
08-34-039-24W4	24/Sep/20	190000	770000	< 1	< 2	35000	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08-34-039-24W4	21/Jun/21	190000	770000	< 1	< 2	35100	1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08-34-039-24W4	29/Jun/21	-	-	-	-	-	-	-	< 10	123	18.8278	787713	23758	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	12	39	61	< 10	< 10	< 10	< 10	< 10	< 10	13	12.1	< 10	< 10	-	-	-	-	-	-
08-34-039-24W4	12/Oct/21	210000	780000	1	< 2	14700	< 1	< 1	< 10	216	18.7173	789912	22698	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.82	-87.47	-95.26	0.91	735.29
08-34-039-24W4	18/Sep/22	220000	770000	4.00	2.00	6720	< 1	< 1	< 100	< 100	20.950	779830	10660	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-18.15	-	-	-	-
08-34-039-24W4	25/Jun/23	21	79	2	< 2	2660	< 1	< 1	< 0.01	0.03	18.14	81.1	0.69	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-20.85	-126.14	-133.82	0.87	1083.12
08-34-039-24W4	15/Sep/23	19	78	1	< 2	24000	< 1	< 1	< 0.01	0.3518	18.3936	78.3290	2.9256	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.7	-	-	-	-
08-26-039-24W4	3/Jun/19	-	-	< 1	-	88900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-21.63	-	-424.05	0.58	4432.00
08-26-039-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	10	810000	88900	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08-26-039-24W4	1/Aug/19	-	-	1	-	92600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08-26-039-24W4	9/Aug/19	-	-	-	-	-	1	< 1	-	-	9	800000	90900	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08-26-039-24W4	11/Oct/19	130000	790000	< 1	< 2	80200	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-8.33	-	-426.18	0.58	4395.00
08-26-039-24W4	24/Sep/20	140000	780000	2	< 2	75500	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08-26-039-24W4	26/Jun/21	120000	800000	< 1	< 2	79800	< 1	< 1	< 10	73	12.4272	823841	51800	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	12	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
08-26-039-24W4	11/Oct/21	140000	790000	1	< 2	72700	< 1	< 1	< 10	48	11.8021	788020	93871	< 1	< 10	< 10	< 10	< 10	12	< 10	< 10	< 10	< 10	13	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.53	-437.39	-442.19	0.56	4620.30
08-26-039-24W4	24/Sep/22	130000	790000	1.00	< 2	85400	1.00	< 1	< 100	< 100	12.39	788000	87700	< 1	< 100	< 100	< 10	< 10	40	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-20.91	-	-	-	-
08-26-039-24W4	25/Jun/23	15	79	1	< 2	61600	< 1	< 1	< 0.01	0.01	11.98	80.0	8.03	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-15.19	-463.84	-468.56	0.54	5007.17
08-26-039-24W4	15/Sep/23	17	79	2	< 2	39100	< 1	< 1	< 0.01	0.2253	14.0627	80.0249	5.6871	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.64	-	-	-	-
08-26-039-24W4	20/Jun/24	180000	780000	< 1	2	47100	< 1	< 1	< 100	250	16.227	777390	60080	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-22.19	-	-	-	-

		Breathing Air Analysis					Extended Gas Analysis																												Isotope Analysis					
Sampling ID	Date (dd-mmm-yy)	Oxygen (O2) - BA	Nitrogen (N2) - BA	Methane - BA	Carbon Monoxide (CO) - BA	Carbon Dioxide (CO2) -BA	Volatile Non-Methane Hydrocarbons (VNMH) - BA	Volatile Halogenated Hydrocarbons (VHH) - BA	Helium (He)	Hydrogen (H2)	Oxygen (O2)	Nitrogen (N2)	Carbon Dioxide (CO2)	Hydrogen Sulphide (H2S)	Methane (C1)	Ethane (C2)	Propane (C3)	i-Butane (iC4)	n-Butane (nC4)	i-Pentane (iC5)	n-Pentane (nC5)	Hexane (C6)	Heptanes (C7)	Octanes (C8)	Nonanes (C9)	Decanes+ (C10+)	Cyclopentane	Benzene	Cyclohexane	2,2,4-Trimethylpentane	Methylcyclohexane	Toluene	Ethylbenzene	Xylenes	^{14} d13C-CH4	^{14} d13C-CO2	^{14} Normalised 14C in CO2	^{14} delt 4C in CO2	f14C in CO2	14C in CO2
		ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	%	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppm	ppm	ppm	ppm	ppm	ppm	ppm					None	yr BP
08-35-039-24W4	3/Jun/19	-	-	< 1	-	63600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-22.04	-	-675.17	0.32	9033.00
08-35-039-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	10	840000	63600	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08-35-039-24W4	26/Jun/21	110000	830000	1	< 2	58400	1	< 1	< 10	105	11.4291	855031	29634	554	< 10	< 10	< 10	37	11	11	15	37	87	151	29	< 10	12.6	17.3	12.9	< 10	26.8	28	< 10	< 10	-	-	-	-	-	-	-
08-35-039-24W4	11/Oct/21	170000	790000	1	< 2	38900	< 1	< 1	< 10	15	15.8617	784744	56593	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	15	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.85	-567.09	-570.79	0.43	6725.39
08-35-039-24W4	27/Jun/23	18	80	2	< 2	22200	< 1	< 1	< 0.001	< 0.001	21.0466	78.8812	0.0717	< 0.0001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.87	-502.04	-506.42	0.50	5600.84
08-35-039-24W4	16/Sep/23	20	77	1	< 2	25000	< 1	< 1	< 0.01	0.0115	19.6291	77.3297	3.0298	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-22.52	-	-	-	-
10-22-039-24W4	27/Sep/20	140000	800000	< 1	< 2	55500	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-23.33	-	-510.68	0.49	5741.00
10-22-039-24W4	29/Jun/21	180000	770000	3	< 2	44000	< 1	< 1	< 10	592052	5.8112	325669	24167	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
10-22-039-24W4	10/Oct/21	180000	780000	2	< 2	43300	< 1	< 1	< 10	153	16.6167	777241	56439	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-23.41	-454.73	-459.39	0.55	4871.78
10-22-039-24W4	23/Sep/22	180000	770000	1.00	< 2	50800	< 1	< 1	< 100	100	15.75	778000	64900	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-23.45	-	-	-	-
10-22-039-24W4	24/Jun/23	18	79	1	< 2	29200	< 1	< 1	< 0.01	0.07	18.26	78.3	3.38	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-22.53	-	-	-	-
10-22-039-24W4	15/Sep/23	19	78	2	2	33000	< 1	< 1	< 0.01	0.1372	16.4261	78.6346	4.8020	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-25	-	-	-	-
11-26-039-24W4	3/Jun/19	-	-	13	-	85200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-15.97	-	-494.24	0.51	5476.00
11-26-039-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	2	900000	85200	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-26-039-24W4	5/Oct/19	140000	790000	7	< 2	70600	< 1	< 1	-	-	-	-	-	-	7	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-8.93	-	-836.30	0.17	14470.00
11-26-039-24W4	5/Oct/19	190000	770000	< 1	< 2	20400	2	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-9.25	-	-483.90	0.52	5246.00
11-26-039-24W4	5/Oct/19	70000	930000	< 1	< 2	2850	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-	-
11-26-039-24W4	5/Oct/19	140000	780000	< 1	< 2	64100	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-	-
11-26-039-24W4	5/Oct/19	140000	790000	< 1	< 2	57800	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-	-
11-26-039-24W4	10/Oct/19	210000	770000	< 1	< 2	6460	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-48.49	-10.85	-	-289.60	0.72	2680.00
11-26-039-24W4	5/Aug/20	170000	770000	65	< 2	70000	< 1	< 1	-	-	-	-	-	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	< 10	-	-	-	< 10	< 10	< 10	-	-11.13	-	-789.57	0.21	12452.00
11-26-039-24W4	5/Aug/20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-8.38	-	-	-	-
11-26-039-24W4	5/Aug/20	160000	790000	3	< 2	50000	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-26-039-24W4	5/Aug/20	200000	780000	2	< 2	20000	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-26-039-24W4	5/Aug/20	80000	810000	1	< 2	110000	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-26-039-24W4	5/Aug/20	60000	830000	< 1	< 2	110000	6	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-26-039-24W4	26/Sep/20	160000	780000	10	< 2	59900	< 1	< 1	-	-	-	-	-	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	Jntraceable	-	-	-	Jntraceable	Jntraceable	Jntraceable	-39.02	-21.43	-	-816.49	0.18	13620.00
11-26-039-24W4	26/Sep/20	210000	770000	1	< 2	22500	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-26-039-24W4	26/Sep/20	210000	770000	2	< 2	19200	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-26-039-24W4	26/Sep/20	210000	780000	2	< 2	12900	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-26-039-24W4	25/Jun/21	200000	770000	3	< 2	25900	8	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-20.77	-	-	0.15	-
11-26-039-24W4	11/Oct/21	200000	790000	2	< 2	12100	< 1	< 1	< 10	54	18.9183	796051	14702	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-22.62	-866.20	-867.34	0.13	16157.40
11-26-039-24W4	24/Jun/23	21	78	1	< 2	11400	< 1	< 1	< 0.01	< 0.01	20.25	78.3	1.48	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-22.28	-	-	-	-
11-26-039-24W4	17/Sep/23	21	78	2	< 2	10100	< 1	< 1	< 0.01	< 0.01	20.0134	78.4273	1.5553	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.58	-803.51	-805.23	0.20	13100.00
11-35-039-24W4	3/Jun/19	-	-	< 1	-	39300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-22.12	-	-205.18	0.79	1845.00
11-35-039-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	16	800000	39300	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-35-039-24W4	1/Aug/19	-	-	1	-	42500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-35-039-24W4	10/Aug/19	-	-	-	-	-	1	< 1	-	-	15	790000	41500	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-35-039-24W4	29/Jun/21	190000	790000	1	< 2	21500	< 1	< 1	< 10	149	16.7237	806526	26088	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-19.47	-187.98	-194.92	0.81	1672.75
11-35-039-24W4	23/Sep/22	210000	780000	1.00	< 2	14200	< 1	< 1	< 100	100	20.46	773000	21900	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-21.44	-	-	-	-
11-35-039-24W4	17/Sep/23	20	78	1	< 2	21700	< 1	< 1	< 0.01	0.1170	17.5040	79.0642	3.3148	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.33	-	-	-	-
11-35-039-24W4	14/Jun/24	200000	790000	1	4	10100	< 1	< 1	< 100	< 100	18.8867	795484	15630	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
11-35-039-24W4	14/Jun/24	200000	780000	< 1	3	15000	< 1	< 1	< 100	910	19.085	787790	20460	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Duplicate	14/Jun/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-23.77	-159.84	-167.33	0.84	1400.00
11-35-039-24W4	20/Jun/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-21.65	-160.62	-168.10	0.84	1410.00
11-35-039-24W4	14/Sep/24	200000	790000	1	2	14700	< 1	< 1	< 100	< 100	18.10588	787243.7	31547.42	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-23-039-24W4	26/Jun/21	100000	790000	< 1	< 2	111000	< 1	< 1	< 10	77	10.1818	827737	69767	363	< 10	< 10	< 10	22	< 10	< 10	< 10	19	52	106	16	< 10	< 10	12.2	< 10	< 10	16.7	24.8	< 10	< 10	-	-	-	-	-	-	-
12-23-039-24W4	10/Oct/21	130000	800000	1	< 2	70000	< 1	< 1	23	231	10.4722	815362	79661	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-23.5	-469.32	-473.86	0.53	5089.72
12-23-039-24W4	24/Jun/22	170000	790000	1.00	< 2	39400	2.00	< 1	< 100	100	13.43	809000	56600	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-22.27	-466.49	-471.12	0.53	5046.89
12-23-039-24W4	24/Sep/22	140000	780000	2.00	< 2	78000	< 1	< 1	< 100	< 100	13.77	780000	81900	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-21.22	-	-	-	-
12-23-039-24W4	24/Jun/23	19	79	1	< 2	23600	< 1	< 1	< 0.01	0.08	18.16	78.5	3.30	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-22.91	-	-	-	-
12-23-039-24W4	15/Sep/23	13	80	1	< 2	70200	< 1	< 1	< 0.01	0.3548	10.6494	81.1073	7.8886	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-21.38	-455.58	-460.36	0.54	4890.00
12-23-039-24W4	13/Jun/24	160000	790000	< 1	3	43000	< 1	< 1	< 100	< 100	14.746	796820	55650	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1	-	-23.98	-474.79	-479.47	0.53	5180.00
12-23-039-24W4	16/Sep/24	150000	790000	< 1	< 2	60500	< 1	< 1	< 100	< 100	12.12367	800172.1	78541.26	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-20.88	-	-	-	-
12-25-039-24W4	12/Aug/19	-	-	364	-	117000	1	< 1	-	-	7	790000	114000	-	353	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-75.36	-24.27	-	-447.98	0.56	4705.94
12-25-039-24W4	4/Oct/19	50000	910000	< 1	< 2	36700	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-9.76	-	-442.94	0.56	4633.00
12-25-039-24W4	4/Oct/19	50000	820000	49500	< 2	71800	4550	1	-	-	-	-	-	-	49500	242	672	-	79	-	9	61	-	-	-	-	-	6.41	-	-	-	0.06	4.31	9.84	-60.05	-11.36	-	-640.96	0.36	8161.00
12-25-039-24W4	4/Oct/19	60000	850000	17300	< 2	75200	1080	< 1	-	-	-	-	-	-	17300	88	199	-	16	-	2	6	-	-	-	-	-	0.67	-	-	-	< 0.05	0.56	0.77	-49.7	-10.66	-	-446.84	0.56	4689.00
12-25-039-24W4	4/Oct/19	40000	820000	25900	< 2	104000	15	< 1	-	-	-	-	-	-	25900	< 1	3	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	0.05	< 0.15	-46.2	-9.81	-	-180.94	0.83	1536.00
12-25-039-24W4	4/Oct/19	30000	950000	< 1	< 2	23000	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-	-
12-25-039-24W4	11/Oct/19	110000	820000	1920	< 2	66500	< 1	< 1	-	-	-	-	-	-	1920	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-17.6	-8.51	-	-552.24	0.45	6387.00
12-25-039-24W4	6/Aug/20	20000	790000	3200	< 2	190000	7	< 1	-	-	-	-	-	-	5633	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	< 10	-	-	-	< 10	< 10	< 10	-	-	-	-	-	-
12-25-039-24W4	6/Aug/20	40000	750000	108000	< 2	100000	6880	1	-	-	-	-	-	-	104649	303	735	135	202	15	14	187	-	-	-	-	-	< 10	-	-	-	< 10	19	28	-	-	-	-	-	-
12-25-039-24W4	6/Aug/20	30000	810000	44600	< 2	120000	1280	< 1	-	-	-	-	-	-	45679	47	177	44	26	16	< 10	15	-	-	-	-	-	< 10	-	-	-	18	< 10	< 10	-	-	-	-	-	-
12-25-039-24W4	6/Aug/20	10000	730000	50300	< 2	210000	81	< 1	-	-	-	-	-	-	47639	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	< 10	-	-	-	< 10	< 10	< 10	-59.07	-18.52	-	-162.07	0.85	1352.00
12-25-039-24W4	26/Sep/20	70000	770000	34800	< 2	127000	29	< 1	-	-	-	-	-	-	375360000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	< 10000	-	-	-	-	-	Jntraceable	-	-	-	Jntraceable	Jntraceable	Jntraceable	-48.54	-19.09	-	-165.42	0.83	1453.00
12-25-039-24W4	29/Sep/20	90000	800000	< 1	< 2	120000	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-25-039-24W4	25/Jun/21	60000	810000	38440	< 2	81000	3188	2	< 10	176	6.7158	848266	43598	< 1	38456	107	387	81	116	20	38	142	292	162	< 10	< 10	27.5	24.9	28.1	< 10	< 10	17.2	< 10	< 10	-59.87	-17.86	-	-	-	-
12-25-039-24W4	11/Oct/21	60000	850000	17900	< 2	77800	3990	3	< 10	< 10	0.6069	873761	96626	< 1	21274	210	506	96	161	< 10	18	124	595	509	41	< 10	11	< 10	53	79	125	< 10	< 10	< 10	-	-21.29	-608.65	-612.00	0.39	7536.25
12-25-039-24W4	22/Jun/22	80000	840000	11000.00	< 2	64700	3810.00	18.00	< 100	< 100	0.35	892000	86900	< 1	15300	300	520	110	200	20	10	110	530	50	70	10	11.0	< 10	52.0	79.7	121.00	< 10	< 10	< 10	-	-20.73	-558.51	-562.34	0.44	6567.77
Field Duplicate	22/Jun/22	90000	840000	9780.00	< 2	58500	3650.00	18.00	< 100	< 100	0.15	893000	88100	< 1	15200	300	520	120	210	20	10	120	610	660	120	20	11.6	< 10	59.2	91.9	147.00	< 10	< 10	< 10	-	-21.35	-552.47	-556.35	0.45	6458.54
12-25-039-24W4	18/Sep/22	90000	810000	23100.00	< 2	73300	3320.00	10.00	< 100	< 100	1.642	824910	116700	< 1	39750	240	490	120	210	20	20	120	580	390	10	< 10	10.3	< 10	< 10	39.9	94.5	35.5	< 10	< 10	< 10	-	-20.20	-597.41	-600.91	0.40	7308.73
12-25-039-24W4	20/Sep/24	50000	840000	6930	8	99600	755	2	< 100	100	4.296	828690	119250	< 1	8740	< 100	130	10	10	< 10	< 10	10	20	60	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-

		Breathing Air Analysis					Extended Gas Analysis																												Isotope Analysis				
Sampling ID	Date (dd-mmm-yy)	Oxygen (O2) - BA	Nitrogen (N2) - BA	Methane - BA	Carbon Monoxide (CO) - BA	Carbon Dioxide (CO2) -BA	Volatile Non-Methane Hydrocarbons (VNMH) - BA	Volatile Halogenated Hydrocarbons (VHH) - BA	Helium (He)	Hydrogen (H2)	Oxygen (O2)	Nitrogen (N2)	Carbon Dioxide (CO2)	Hydrogen Sulphide (H2S)	Methane (C1)	Ethane (C2)	Propane (C3)	i-Butane (iC4)	N-Butane (NC4)	i-Pentane (iC5)	n-Pentane (C5)	Hexane (C6)	Heptanes (C7)	Octanes (C8)	Nonanes (C9)	Decanes+ (C10+)	Cyclopentane	Benzene	Cyclohexane	2,2,4-Trimethylpentane	Methylcyclohexane	Toluene	Ethylbenzene	Xylenes	δ^{13}C-CH4	δ^{13}C-CO2	Normalised 14C in CO2	Δ^{14}C in CO2	F14C in CO2	14C in CO2
		ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	%	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	‰	‰	‰	‰	None	yr BP
12-36-039-24W4	3/Jun/19	-	-	< 1	-	37800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-36-039-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	19	770000	37800	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-36-039-24W4	1/Aug/19	-	-	1	-	43700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-36-039-24W4	9/Aug/19	-	-	-	-	-	1	< 1	-	-	16	780000	42500	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-36-039-24W4	9/Oct/19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-53.64	-15.09	-	-276.05	0.73	2528.00
12-36-039-24W4	9/Oct/19	180000	760000	< 1	< 2	33700	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-	-	-	-	-
12-36-039-24W4	24/Sep/20	180000	770000	< 1	< 2	45200	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-36-039-24W4	26/Jun/21	190000	790000	1	< 2	21000	2	< 1	< 10	103	19.2898	804258	18820	537	< 10	< 10	32	< 10	< 10	12	30	72	132	22	< 10	< 10	11.4	15.2	10.5	< 10	22	29	< 10	< 10	-	-	-	-	-	-
12-36-039-24W4	16/Oct/21	190000	780000	1	< 2	29800	< 1	< 1	< 10	569	17.1219	793832	34380	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-20.45	-259.27	-265.60	0.74	2410.90
12-36-039-24W4	22/Jun/22	190000	780000	1.00	< 2	24400	< 1	< 1	< 100	< 100	17.13	793000	35400	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-24.60	-268.05	-274.39	0.73	2506.59
14-23-039-24W4	27/Sep/20	120000	820000	2400	< 2	62500	< 1	< 1	-	-	-	-	-	-	33290000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	Intraceable	-	-	-	Intraceable	Intraceable	Intraceable	-42.7	-22.92	-	-739.78	0.26	10814.00
14-23-039-24W4	25/Jun/21	140000	780000	473	< 2	74500	-	-	< 10	23	15.7014	825320	17107	< 1	501	< 10	< 10	< 10	< 10	< 10	< 10	24	< 10	< 10	< 10	< 10	30	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
14-23-039-24W4	26/Jun/21	140000	780000	473	< 2	74500	13	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14-23-039-24W4	10/Oct/21	180000	790000	167	< 2	31000	< 1	< 1	< 10	264	16.5936	799349	34363	< 1	82	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-24.04	-787.39	-789.20	0.21	12437.40
14-23-039-24W4	22/Jun/22	210000	780000	11.00	< 2	9680	< 1	< 1	< 100	< 100	19.54	790000	14200	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	10	80	100	10	< 10	< 10	< 10	< 10	12.0	22.3	< 10	< 10	< 10	-	-22.2	-692.06	-694.74	0.31	9461.74
Field Duplicate	22/Jun/22	210000	780000	21.00	< 2	8470	< 1	< 1	< 100	< 100	19.49	793000	11400	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	10	620	70	< 10	< 10	< 10	< 10	< 10	10.0	17.4	< 10	< 10	< 10	-	-21.82	-692.05	-694.72	0.31	9461.30
14-23-039-24W4	18/Sep/22	200000	780000	13.00	2.00	17400	1.00	< 1	< 100	100	18.936	782160	28400	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	14.9	25.3	< 10	< 10	< 10	-	-22.54	-764.45	-766.50	0.24	11614.35
Field Duplicate	18/Sep/22	210000	780000	16.00	2.00	15800	< 1	< 1	< 100	< 100	19.243	785180	22360	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	14.9	25.3	< 10	< 10	< 10	-	-25.57	-765.37	-767.41	0.23	11645.77
14-23-039-24W4	24/Jun/23	22	77	2	< 2	897	< 1	< 1	< 0.01	< 0.01	20.98	78.9	0.12	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-25.2	-	-	-	-
14-23-039-24W4	17/Sep/23	20	78	22	< 2	20700	< 1	< 1	< 0.01	0.3786	18.2661	78.3714	2.9808	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-23	-761.68	-763.77	0.24	11550.00
14-23-039-24W4	13/Jun/24	200000	780000	3	3	15000	1	< 1	< 100	< 100	19.183	788570	19600	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-23.2	-	-	-	-
14-23-039-24W4	15/Sep/24	200000	780000	2	< 2	16100	< 1	< 1	< 100	< 100	19.27174	783915.0	23300.9	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-22.97	-	-	-	-
14-26-039-24W4	10/Oct/19	160000	790000	< 1	6	47900	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-53.99	-10.25	-	-714.17	0.29	9993.00
14-26-039-24W4	26/Sep/20	180000	760000	2	< 2	66800	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-25	-	-570.81	0.43	6795.00
14-26-039-24W4	11/Oct/21	210000	770000	1	< 2	17900	< 1	< 1	< 10	167	19.0363	787109	22362	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-
14-26-039-24W4	23/Sep/22	190000	770000	1.00	< 2	45200	< 1	< 1	< 100	100	16.92	776000	54900	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-22.52	-370.32	-375.78	0.63	3715.55
14-26-039-24W4	24/Jun/23	19	78	1	< 2	26300	< 1	< 1	< 0.01	0.02	15.72	80.1	4.13	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-22.20	-356.68	-362.34	0.64	3543.52
Field Duplicate	24/Jun/23	19	78	< 1	< 2	28200	< 1	< 1	< 0.01	0.02	16.15	79.2	4.59	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-22.27	-	-	-	-
14-26-039-24W4	17/Sep/23	18	78	1	< 2	38000	< 1	< 1	< 0.01	0.1581	15.2344	79.2114	5.3960	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-21.97	-	-	-	-
14-26-039-24W4	17/Jun/24	190000	770000	< 1	4	37700	2	< 1	< 100	810	18.464	773810	40740	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-21.53	-	-	-	-
14-26-039-24W4	15/Sep/24	190000	780000	< 1	< 2	33900	< 1	< 1	319.41	< 100	17.58193	779292.5	44535.72	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-17.43	-	-	-	-
08-27-039-24W4	1/Aug/19	-	-	7	-	85700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-15.75	-	-	-	Sample loss
08-27-039-24W4	12/Aug/19	-	-	-	-	-	1	< 1	-	-	7	830000	84500	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-15.75	-	-	-	Sample loss
08-27-039-24W4	6/Oct/19	40000	880000	2	3	52100	< 1	< 1	-	-	-	-	-	-	2	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-8.34	-	-145.70	0.86	1198.00
08-27-039-24W4	6/Oct/19	50000	880000	26	< 2	55100	< 1	< 1	-	-	-	-	-	-	26	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-10.86	-	-192.25	0.81	1648.00
08-27-039-24W4	12/Oct/19	170000	800000	< 1	< 2	28500	< 1	< 1	-	-	-	-	-	-	< 1	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-12.3	-	-401.59	0.60	4058.00
08-27-039-24W4	16/Sep/24	190000	780000	2	2	31700	< 1	< 1	957.99	< 100	17.42311	788416.5	36341.1	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-21.96	-	-	-	-

INTEGRATED SUSTAINABILITY

Table 5B: Atmospheric Gas Analytical Results

Client Name: Enhance Energy **Project Manager:** A.Petrowitsch **Project Number:** CP24-EEI-01-00 **Date:** Feb.18, 25

Sampling ID	Date (dd-mmm-yy)	Breathing Air Analysis					Extended Gas Analysis																													Isotope Analysis				
		Oxygen (O2) - BA	Nitrogen (N2) - BA	Methane - BA	Carbon Monoxide (CO) - BA	Carbon Dioxide (CO2) -BA	Volatile Non-Methane Hydrocarbons (vNMH) - BA	Volatile Halogenated Hydrocarbons (vHH) - BA	Helium (He)	Hydrogen (H2)	Oxygen (O2)	Nitrogen (N2)	Carbon Dioxide (CO2)	Hydrogen Sulphide (H2S)	Methane (C1)	Ethane (C2)	Propane (C3)	Butane (IC4)	Butane (NC4)	I-Pentane (IC5)	n-Pentane (C5)	Hexane (C6)	Heptanes (C7)	Octanes (C8)	Nonanes (C9)	Decanes+ (C10+)	Cyclopentane	Benzene	Cyclohexane	2,2,4-Trimethylpentane	Methylcyclohexane	Toluene	Ethylbenzene	Xylenes	δ¹³ d13C-CH4	δ¹³ d13C-CO2	¹⁴ Normalised 14C in CO2	¹⁴ del 14C in CO2	F14C in CO2	14C in CO2
		ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	pt	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	‰	‰			None	yr BP
North Data																																								
04-01-040-24W4	28/Jun/21	-	-	-	-	-	< 1	< 1	-	-	22	780000	386	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7.38	-	-	1.00	-
04-01-040-24W4	15/Oct/21	220000	780000	2	< 2	414	< 1	< 1	< 10	174	20.6442	792854	530	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-7.32	5.68	-2.91	1.01	>Modern
04-02-040-24W4	25/Jun/23	22	78	2	< 2	414	< 1	< 1	< 0.01	0.01	22.30	77.6	0.04	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-16.98	-	-	-	-
07-02-040-24W4	1/Oct/20	220000	780000	2	< 1	1180	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	-8.62	-	5.73	1.01	>Modern
07-02-040-24W4	14/Sep/24	220000	780000	2	< 2	426	< 1	< 1	< 100	< 100	21.19104	787617.3	395.7	< 1	< 100	< 100	< 10	< 10	< 10	11.21	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08-09-040-24W4	16/Sep/23	22	78	2	< 2	423	< 1	< 1	< 0.01	0.1345	21.3308	78.4801	0.0546	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-7.69	1.00	-7.80	1.00	-999.00
10-02-040-24W4	27/Jun/23	22	78	2	< 2	397	< 1	< 1	< 0.001	0.0043	21.0248	78.9155	0.0548	< 0.0001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-23.43	-6.55	-15.29	0.99	52.80
16-09-040-24W4	14/Jun/24	220000	780000	2	< 2	378	< 1	< 1	< 100	190	21.257	786620	630	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-6.17	-	-	-	-
North 2 Data																																								
09-16-040-24W4	16/Sep/24	220000	780000	3	2	427	< 1	< 1	< 100	< 100	21.46056	784917.1	431.67	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-6.67	-	-	-	-
07-21-040-24W4	13/Jun/24	220000	780000	2	< 2	457	< 1	< 1	< 100	500	21.147	786590	1430	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10	< 10	< 10	< 1	< 1	< 1	< 1	4	< 1	< 1	< 1	-	-6.68	-5.43	-14.29	0.99	45.00
07-21-040-24W4	15/Sep/24	220000	780000	2	2	433	< 1	< 1	< 100	< 100	21.72481	782255.9	458.35	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07-21-040-24W4	16/Sep/24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7.91	-	-	-	-
12-15-040-24W4	24/Jun/23	22	78	2	< 2	409	< 1	< 1	< 0.01	< 0.01	21.58	78.4	0.05	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-12.47	-	-	-	-
16-16-040-24W4	18/Sep/23	22	78	2	< 2	408	< 1	< 1	< 0.01	0.1136	21.3551	78.4621	0.0693	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-5.82	-	-	-	-
100/07-15-040-24W4/02	19/Sep/24	220000	780000	< 2	< 4	470	< 2	< 2	< 100	< 100	21.526	784270	430	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	-	-	-	-	-7.85	-	-	-	-
North 3 Data																																								
01-32-040-24W4	13/Jun/24	210000	780000	< 1	3	12000	< 1	< 1	< 100	630	20.214	781740	15490	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	4	2	< 1	< 1	-	-	-	-	-	-
06-05-041-24W4	14/Sep/22	220000	780000	4.00	< 2	392	< 1	< 1	17	13	20.9447	789777	745	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-9.41	-	-	-	-
06-05-041-24W4	19/Jun/24	220000	780000	2	< 2	373	< 1	< 1	< 100	< 100	21.263	786780	510	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	10	10	< 10	< 10	-	-	-	-	-	-	-	-	-	-6.53	-	-	-	-
06-08-041-24W4	18/Jun/22	220000	780000	2.00	< 2	366	< 1	< 1	< 100	< 100	20.44	795000	400	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-8.04	-	-	-	-
06-08-041-24W4	14/Sep/22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.56	-4.15	1.00	>Modern
06-28-040-24W4	29/Jun/21	220000	780000	2	< 2	390	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7.53	-	-	1.00	-
06-28-040-24W4	13/Oct/21	210000	780000	1	< 2	12100	< 1	< 1	< 10	118	19.3846	791596	14278	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	83	59	13	< 10	< 1	< 1	< 1	< 1	< 1	17.7	< 1	13.2	-	-	-	-	-	-
06-28-040-24W4	18/Jun/22	220000	780000	2.00	< 2	366	< 1	< 1	< 100	100	21.15	788000	500	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-8.02	-	-	-	-
06-28-040-24W4	17/Sep/22	220000	780000	3.00	< 2	388	< 1	< 1	13	< 10	20.8589	790566.4	697	< 1	49	< 10	< 10	< 10	< 10	< 10	< 10	< 10	40	42	< 10	< 10	< 10	< 10	< 10	< 10	16.5	< 10	< 10	< 10	-	-7.52	3.81	-4.90	1.00	>Modern
South Data																																								
01-35-039-24W4	12/Oct/19	220000	780000	2	< 2	506	< 1	< 1	-	-	-	-	-	-	2	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-11.55	-	-12.16	0.9961	31
04-26-039-24W4	3/Jun/19	-	-	< 1	-	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7.65	-	32.13	1.03	0.00
04-26-039-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	22	780000	470	-	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-26-039-24W4	1/Aug/19	-	-	2	-	461	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-11.26	-	-	-	ifficient Cart
04-26-039-24W4	9/Aug/19	-	-	-	-	-	1	< 1	-	-	21	770000	452	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-11.26	-	-	-	ifficient Cart
04-26-039-24W4	12/Oct/19	222000	780000	2	< 2	520	< 1	< 1	-	-	-	-	-	-	2	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-8.39	-	-5.47	1.00	>Modern
04-35-039-24W4	17/Sep/23	22	78	2	< 2	432	< 1	< 1	< 0.01	0.0237	21.3369	78.5845	0.0549	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-7.28	4.52	-4.31	1.00	-999.00
05-36-039-24W4	18/Sep/23	22	78	2	< 2	435	< 1	< 1	< 0.01	0.0414	21.3308	78.5745	0.0533	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-6.4	-	-	-	-
08-34-039-24W4	3/Jun/19	-	-	2	-	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-10.04	-	5.27	1.01	0.00
08-34-039-24W4	3/Jun/19	-	-	-	-	-	< 1	< 1	-	-	22	780000	800	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08-34-039-24W4	1/Aug/19	-	-	2	-	444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-9.18	-	-	-	ifficient Cart
08-34-039-24W4	10/Aug/19	-	-	-	-	-	1	< 1	-	-	21	770000	435	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-9.18	-	-	-	ifficient Cart
08-34-039-24W4	12/Oct/19	220000	780000	2	< 2	605	< 1	< 1	-	-	-	-	-	-	2	< 1	< 1	-	< 1	-	< 1	< 1	-	-	-	-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.15	-	-12.33	-	-14.87	0.99	53.00
10-22-039-24W4	24/Jun/23	22	78	2	< 2	399	< 1	< 1	< 0.01	< 0.01	21.73	78.2	0.04	< 0.0001	< 0.01	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-12.48	-	-	-	-
11-26-039-24W4	26/Jun/21	220000	780000	2	< 2	388	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-7.61	-	-	1.00	-
11-26-039-24W4	17/Oct/21	220000	780000	2	< 2	466	< 1	< 1	10	63	20.537	793963	594	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-9.08	1.62	-6.94	1.00	>Modern
11-35-039-24W4	18/Jun/22	220000	780000	2.00	< 2	361	< 1	< 1	< 100	100	21.14	788000	400	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-7.51	3.16	-5.54	1.00	>Modern
11-35-039-24W4	22/Sep/22	220000	780000	2.00	< 2	407	< 1	< 1	< 10	65	20.4073	795254	605	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-9.44	-	-	-	-
12-23-039-24W4	15/Jun/24	220000	780000	2	< 2	381	< 1	< 1	< 100	< 100	21.259	786810	570	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	10	10	< 10	< 10	3	< 1	< 1	< 1	5	< 1	< 1	< 1	-	-6.65	-	-	-	-
12-25-039-24W4	5/Aug/20	220000	780000	6	< 2	422	< 1	< 1	-	-	-	-	-	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	< 10	-	-	-	< 10	< 10	< 10	-	-8.81	-	-39.66	0.97	257.00
12-25-039-24W4	2/Oct/20	220000	780000	2	< 2	734	< 1	< 1	-	-	-	-	-	-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-	-	-	-	Untraceable	-	-	-	Untraceable	Untraceable	Untraceable	-	-9	-	6.90	1.01	>Modern
12-25-039-24W4	13/Oct/21	220000	780000	2	< 2	440	< 1	< 1	< 10	< 10	21.8325	780532	472	< 1	669	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-6.86	-	-	-	-
12-25-039-24W4	16/Oct/21	220000	780000	3	< 2	452	< 1	< 1	35	208	20.2451	796436	870	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-8.83	2.67	-5.90	1.00	>Modern
12-25-039-24W4	18/Jun/22	220000	780000	2.00	< 2	363	< 1	< 1	< 100	< 100	21.16	788000	600	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-7.93	1.78	-6.91	1.00	>Modern
12-25-039-24W4	23/Sep/22	220000	780000	3.00	< 2	407	< 1	< 1	< 100	< 100	20.41	795000	1100	< 1	< 100	< 100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-	-7.99	-	-	-	-
14-23-039-24W4	27/Jun/21	220000	780000	2	< 2	397	< 1	< 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-6.87	-	-	1.00	-
14-23-039-24W4	16/Oct/21	220000	780000	2	< 2	426	< 1	< 1	< 10	490	21.2121	786886	504	< 1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-	-7.52	1.94	-6.62	1.00	>Modern

INTEGRATED SUSTAINABILITY

Appendices

INTEGRATED SUSTAINABILITY

Appendix 1: Program Methodology & Sampling Schedules

GEOPHERE MONITORING

Purpose

Monitoring of the Geosphere, or the deeper bedrock formations forming the CO_2 injection zone (i.e. Leduc Formation) and overlying intervals represents the first line of defense in ensuring CO_2 containment. Monitoring of the gas compositions in those intervals is critical to identifying changes in injection zone from the CO_2 introduced, and more importantly identify that it is remaining contained as evidenced by lack of change in the overlying formations.

Infrastructure

Enhance's Project extends from the southern half of Township 41, Range 24 West of the 4th Meridian, just east of Clive, AB down to the northern half of Township 39, Range 24 W4M. The location of the active MMV area is shown in Figure 1. This represents an area of roughly 18 sections of land or about 50 km^2 that is mainly used for crop production. Of course, oil and gas development also occurs in the area, as well as the current CO_2 injection scheme. Several private residences are also located throughout the area.

Enhance has been monitoring gases in the bedrock formations across the study area since 2019. This has included existing gas production wells completed in various formations including the Leduc, Nisku, Mannville Group and coalbed methane (CBM) completed in Horseshoe Canyon Formation. The data from these existing production wells forms the basis of comparison to confirm containment of CO_2 injected into the Leduc Formation.

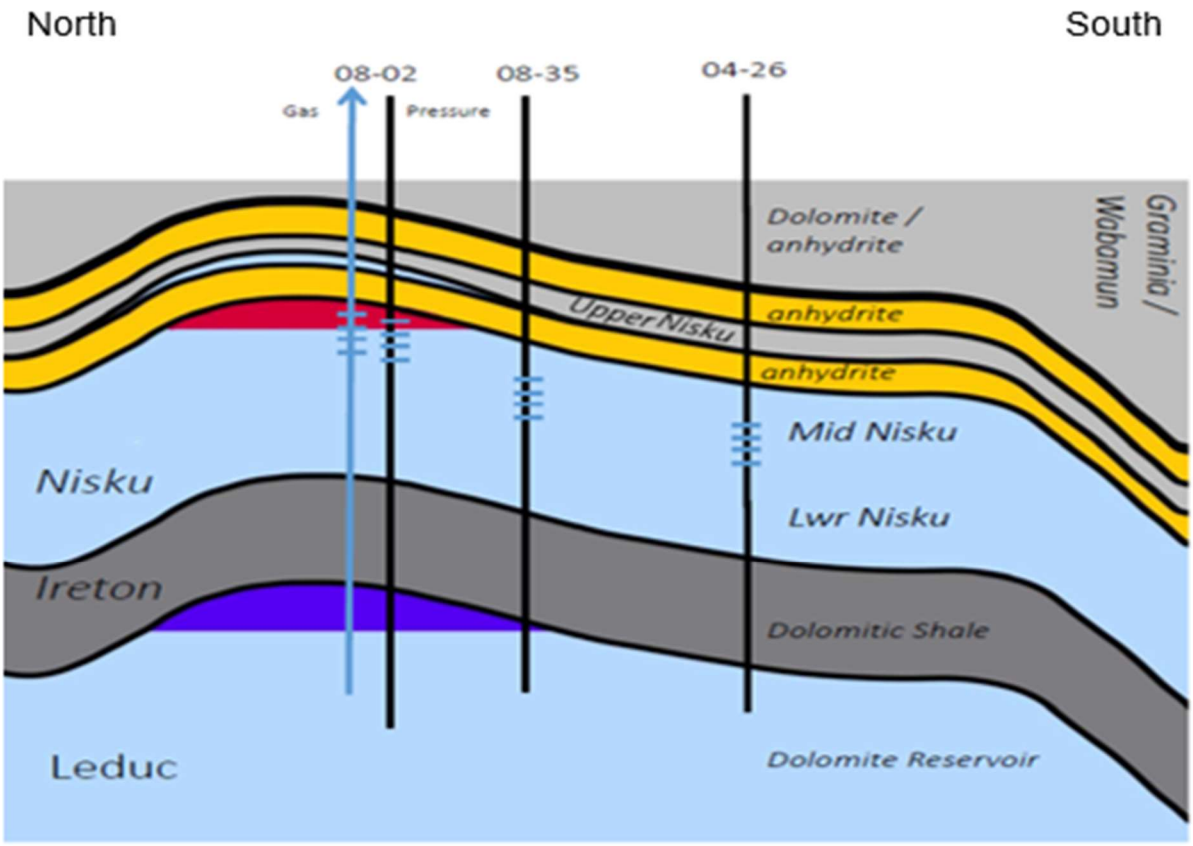


Figure A. **Configuration of monitoring in the Nisku Formation to ensure containment of CO_2 injected into the Leduc Formation.**

(Note: purple = CO_2; red = CH_4 and other related natural gases)

Figure A provides a schematic of the configuration of monitoring in the Nisku Formation above the Leduc injection interval and the presence of the Ireton Formation caprock. It is evident from this configuration of wells that any CO_2 that may migrate from the Leduc zone would first be detected in the Nisku wells.

All samples were collected into SUMMA cannisters, provided by AGAT Laboratories (AGAT) and delivered to AGAT's Red Deer laboratory. Gases were collected from established sampling ports on the various gas wells and CO_2 injection equipment to ensure isolation from atmospheric air contamination. Locations of where samples were taken are shown in Figure 2.

Activities

To facilitate evaluation of the Geosphere environment, gases from a number of operating oil and gas wells in the area as well as the injected CO_2 have been collected analyzed over the years for gas composition, stable and radiogenic isotopes of carbon, and recently stable sulphur (a good indicator of Devonian influence). The database developed to date has allowed similarities and difference to be established between each interval, which has proven extremely useful in determining sources when anomalous detections are made.

HYDROSPHERE MONITORING

Purpose

Hydrosphere monitoring is equally important to ensuring CO_2 containment in the underlying formations and represented the second line of defence in the effort. If a detection for leaked CO_2 is made in the deeper Geosphere intervals this does not necessarily mean that the shallower intervals are at risk. The considerable thickness of the lower permeability formation as well as aquifer intervals that could intercept this CO_2 is significant. Nevertheless, monitoring of this intermediate to shallower interval of the bedrock formations is critical in the assessment of CO_2 containment.

Hydrosphere monitoring in 2024 consisted of two groundwater sampling programs occurring in summer and fall. This included major and trace element chemistry as well dissolved gas composition.

Infrastructure

Enhance's current monitoring well network consists of the following:

- Five dedicated monitoring wells associated with the Project, as follows:
  - Three located near Enhance's existing 10-35-039-24 W4M well pad.
  - One water supply/monitoring well at Enhance's main facility located in 04-15-040-24 W4M.
  - One dedicated well installed at the 12-25-039-24W4 location to investigate consistently anomalous soil gas readings for CH_4.
- Twenty-one (21) private landowner water wells.

Locations of the Project and landowner water wells across the study area are shown on Figure 3.

Activities

Prior to accessing private water wells, the owners were contacted for consent. Sampling was not conducted at properties where the landowner could not be contacted during the duration of both sampling events, or where there was no power to the well as confirmed by the landowner(s). All sample collection and handling activities conducted by Integrated Sustainability followed the established methodology for the program.

The 2024 summer and fall sampling programs occurred during the months of June and September. Table A summarizes the number of samples collected, as well as duplicates to assess data integrity.

Table A. Groundwater Samples Collected During Each Campaign

	Summer 2024 Event		Fall 2024 Event	
Types	Planned	Completed	Planned	Completed
Project Monitoring Wells	5	5	5	5
Landowner Water Wells	21	21	21	21
Blind Duplicates	2	2	2	2
Total Samples	26	26	26	26

The following procedures were conducted while sampling the Project monitoring wells:

1) Measurement of water level within each monitoring well
2) Water intake for bladder pump placed at mid-point of well screen and purged at low flow. Water quality parameters and water level readings recorded
3) Upon stabilization of water quality parameters, representative water sample collected using clean sampling methods and field filtration, where necessary
4) Chemical preservatives were added, where necessary, and water samples were placed in ice-filled contained for transport to laboratory

The following procedures were conducted while sampling landowner water wells. Further details are provided in Appendix 1.

1) Suitable connection point, upstream of any water treatment systems, was located and used for sample collection.
2) Water was purged through a FT gas separator unit for approximately 20 minutes and discharged to the ground, or as directed by landowners. Water quality parameters were monitored and recorded during purging.
3) Upon stabilization of water quality parameters, a representative water sample was collected using clean sampling methods and field filtration, where necessary.
4) Using the FT unit, any observed gas released from solution was collected with a Tedlar® sampling bag and sent for analysis following the Alberta Research Council guideline (Jones et. al. 2009).
5) Chemical preservatives were added, where necessary, and water samples placed in ice-filled contained for transport to laboratory.

Groundwater samples from Enhance's three Project monitoring wells were collected using a low flow sampling method, reducing the need for large purge volumes.

Sample Processing & Laboratory Analysis

Once collected, groundwater samples were placed in coolers with ice and shipped to AGAT Laboratories in Red Deer, Alberta on the same day they were sampled. Where necessary, AGAT distributed samples to additional third-party laboratories following similar Chain of Custody procedures.

Tables B and C summarizes where various samples were shipped. Where gas was observed in sufficient volumes in the FT gas separator, free gas samples collected in Tedlar® sampling bags were submitted for analysis of gas composition from AGAT, and dissolved gas samples collected in septum vials were submitted for analysis of gas composition from the University of Calgary.

Table B. Groundwater Sample Laboratory Analysis

	Laboratory Analysis					
Laboratory	Routine	Dissolved Metals	Total Iron, Sulphur, Bromide	Biological	$\delta^{13}C_{DIC}$	$\delta^{34}S_{SO4}$
Groundwater						
AGAT Laboratories	X	X	X			
AGAT Laboratories (Nautilus Environmental Company Inc.)				X		
AGAT Laboratories (University of Alberta)					X	
AGAT Laboratories (University of Calgary)						X

Table C. Gas in Groundwater Sample Laboratory Analysis

Laboratory Location	Gas Composition	C_1 to C_6 Hydrocarbons	$\delta^{13}C_{CO2}$	$\delta^{13}C_{CH4}$ (incl. C_2 to C_4)	Dissolved $\delta^{13}C_{CO2}$	Dissolved $\delta^{13}C_{CH4}$
Gas in Groundwater						
AGAT Laboratories	X	X				
AGAT Laboratories (University of Alberta)			X	X		
AGAT Laboratories (University of Calgary)					X	X

Quality Assurance/Quality Control (QA/QC)

Following sample collection, standard Chain of Custody procedures were followed for sample preservation and transportation to an accredited third-party laboratory.

To verify the integrity of results, QA/QC measures taken include:

- Collection of blind-duplicate samples, representing 10% of overall samples
- Analysis of laboratory ion balance, with a general acceptable limit of ±10%
- Calculation of the Relative Percent Difference (RPD) between sample and blind-duplicate results, with an acceptable limit of ±20%

Data Evaluation

Groundwater sampling results are included in the following tables:

- Table 1A - Field Measured Parameters
- Table 1B - General, Major Ions, Nutrients
- Table 2 – Groundwater Analytical Results: Dissolved Metals
- Table 3 – Groundwater Analytical Results: Isotopic Abundance
- Table 4 – Microbiological Parameters

BIOSPHERE SAMPLING

Purpose

The 2024 soil gas monitoring program was conducted by Integrated Sustainability (to fulfill the objectives outlined on page 55 of the Alberta Energy-approved MMV Plan (Enhance 2019) with revisions as discussed in Section 1.3 of the report. The program consisted of two soil gas sampling campaigns during the summer (Q2) and fall (Q3) periods.

The overall purpose of the program was to continue defining the baseline conditions for soil gases in the Project area, identify any anomalies or departures from expected baseline conditions, and investigate the source and cause of detected anomalies using the comprehensive database of gas composition and carbon isotope data generated by Enhance since commencement of monitoring in 2019.

Infrastructure

The soil gas probe (SGP) network consists of one or more sampling probes installed at the surface location of hydrocarbon production wells located the MMV area. The network includes:

- Thirty-two (32) existing locations.
- Eighteen (18) new locations added at the start of the summer 2021 sampling program.
- Two (2) locations added to the fall 2024 sampling program.

The location of the SGP locations are shown in Figure 4. The SGP network now extends across the entire Project area and is providing understanding of the spatial variability in values that can be expected.

Activities

Soil Gases

Prior to installation of the temporary soil gas probe, a ground disturbance sweep was conducted through Alberta One-Call to identify and avoid underground facilities or infrastructure.

The temporary soil gas probe was installed using a drive point piezometer, fitted with a screen. The piezometers were installed at a depth of approximately 1.5 mbgs. Using Integrated Sustainability's SOP for Soil Gas Probe Installation, the following procedure was conducted.

1) Dutch auger used to excavate soil to intended depth
2) Probe with suitable sample tubing was placed at depth
3) Probe tip and screen were backfilled using filter sand
4) Alternating layers of bentonite chips and filter sand used for remaining backfill

Following installation of the piezometer and screen:

1) Installation of a compression fitting and ball valve onto sample tubing
2) Leak check of soil gas probe using helium to verify subsurface installation and surface connections are sealed

In the summer and fall sample programs, methane (CH_4) and carbon dioxide (CO_2) in soil gases were monitored in-situ pre- and post-sample using a Los Gatos Ultraportable Greenhouse Gas Analyzer (UGGA).

During the summer and fall sampling program, the UGGA experienced a major failure, necessitating the use of a Landtec GEM5000 gas analyzer as backup and in conjunction with the UGGA for the remainder of the program. The GEM5000 range for methane is 0% to 100% by volume and measures methane concentrations as low as 0.1%. Accuracy is +/-0.3% within the 0%-5% range. That means it can measure from approximately 1,000 ppm to 1,000,000 ppm and the accuracy is +/- 3,000 ppm below 50,000 ppm.

Using Integrated Sustainability's SOP for Soil Gas Sampling, the following procedure was conducted.

1) Well purged using gas analyzer. Continuous in-situ gas readings observed and recorded
2) Upon stable readings, gas sample was collected using pre-evacuated SUMMA cannisters, pre-evacuated Bottle-Vac® amber glass bottles, or Tedlar® sampling bag
3) Post-sample in-situ gas reading recorded

The temporary soil gas probe installed at 08-09-040-24 W4M was removed after sampling.

Table D summarizes the laboratories that completed soil gas analysis collected for the Project.

Table D. Soil Gas Laboratory Analysis

	Laboratory Analysis					
Laboratory Location	Trace Gas Composition	C_1 to C_6 Hydrocarbons	$\delta^{13}C_{CO2}$	$\delta^{13}C_{CH4}$ (incl. C_2 to C_4)	$^{14}C_{CO2}$	$^{14}C_{CH4}$
AGAT Laboratories	X	X				

	Laboratory Analysis					
Laboratory Location	Trace Gas Composition	C_1 to C_6 Hydrocarbons	$\delta^{13}C_{CO2}$	$\delta^{13}C_{CH4}$ (incl. C_2 to C_4)	$^{14}C_{CO2}$	$^{14}C_{CH4}$
University of Alberta			X	X		
University of Ottawa					X	X

Two soil gas sampling events occurred during the following months:

- Summer sampling was conducted in late-June
- Fall sampling was conducted in late-September

During both events, samples were collected from existing soil gas probes where possible, and atmospheric and blind-duplicate samples were collected for quality assurance/quality control purposes. Table E summarized the number of soil gas sample collected in 2024.

Some additional soil gas samples were collected at locations with elevated CH_4 concentrations, as determined through historic data or in-situ field monitoring results, to further investigate the source and cause of those detections. Sample locations are included in the analytical schedule for soil gas samples included in Appendix 2.

Table E. Soil Gas Samples Collected

	Summer 2024 Sampling Event		Fall 2024 Sampling Event	
Types	Planned	Completed	Planned	Completed
Existing Soil Gas Probes	33	31	33	32
New Soil Gas Probes	3	2*	1	0
Blind-duplicate Samples	3	3	3	3
Atmospheric Samples	4	3	4	4
Total Samples	**46**	**52**	**49**	**48**

Note: * indicates the installation of additional soil gas probe

The soil gas sampling program consisted of the following activities:

- Soil Gas Probe Sampling
- Atmospheric Gas Sampling
- Installation of an additional Soil Gas Probe and Sampling

Soil gas sampling results are included in the following table:

- Table 5A - Soil Gas Analytical Results: Menthane Isotope Abundance

Activities conducted followed Integrated Sustainability's Standard Operating Procedures (SOP) included in Appendix 1 and are summarized in the following sub-sections.

Atmospheric gases

Four atmospheric gas samples were collected during each sampling program to provide information on ambient atmospheric conditions. The atmospheric samples were collected over eight hours near a SGP on the same lease area and were subject to a similar suite of analysis. Samples were collected from the following locations:

- Summer 2024
  - 06-05-40-24 W4
  - 12-23-39-24 W4
  - 07-21-40-24 W4
- Fall 2024
  - 07-02-40-24 W4
  - 07-21-40-24 W4
  - 09-16-40-24 W4
  - 07-15-40-24 W4

Analysis

Soil gases and atmospheric gases were sampled and analyzed for trace gas composition, hydrocarbon content, stable isotope composition, and radioactive isotope composition. Samples for trace gas composition and hydrocarbon content analysis were conducted by AGAT Laboratories, where the following parameters were included:

- Oxygen
- Nitrogen
- Methane
- Carbon Monoxide
- Carbon Dioxide
- Volatile Non-Methane Hydrocarbons
- Volatile Halogenated Hydrocarbons
- C_1 to C_6 Hydrocarbons

Samples for stable carbon isotope analysis were conducted by Dr. Karlis Muehlenbachs (1999) at the University of Alberta, where analysis included the carbon-13 content of CO_2 ($\delta^{13}C_{CO2}$) and CH_4 ($\delta^{13}C_{CH4}$).

Samples for radioactive carbon isotope analysis were conducted by the Andre E. Lalonde AMS Laboratory at the University of Ottawa, where analysis included the carbon-14 content of CO_2 (and where possible CH_4) through a fraction of modern radiocarbon.

Evaluation

Under natural and normal conditions, soil CO_2 is sourced from the biological weathering and oxidation of organic carbon associated with residual plant matter or other sources of organic carbon in the soil (e.g. coal). When present, soil microbes oxidize organic matter converting it into CO_2 and water via the following reaction:

$$CH_2O + O_2 \rightarrow CO_2 + H_2O$$

As a result, soil gas CO2 concentrations can become significantly elevated compared to atmospheric values measured in the study area (median = 412 ppmv). As noted in Table F, the range of CO_2 measured during the 2024 monitoring program ranged from 2,070 to 85,400 ppmv (median = 17,100 ppmv).

Methane values, on the other hand, tend not to be very high in the soil environment unless the appropriate conditions occur. Atmospheric values measured in the study area since commissioning of the MMV monitoring program have been on the order of 1.8 ppmv. When conditions are significantly anaerobic CO_2 can be reduced to CH_4 by soil microbes. This typically occurs in highly reducing environments, like organic-rich wetland areas. The following reactions describe the transformations:

$$CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$$

$$CH_4 + 2H_2O \rightarrow CO_2 + 4H_2$$

Methane that is present in the soil can also oxidize back to CO_2 resulting in changes in its chemical composition.

Isotopes of carbon are quite useful in determining the source of soil gas CO_2 and CH_4, much like the production gases and groundwater gases. Typical $\delta^{13}C_{CO2}$ values for the study area are expected to be on the order of -23‰ given the type of vegetation in Alberta (Clark and Fritz 1997). In comparison, measured $\delta^{13}C_{CO2}$ values in the local atmosphere yielded a median value of -8.4‰, consistent with the global atmospheric average of around -8.2‰ (NOAA, Global Monitoring Laboratory 2023).

When soil moisture is present some of the CO_2 will react with the water to produce carbonate (CO_3^{2-}) and bicarbonate (HCO_3^-) ions, depending on the prevailing pH conditions. When this occurs $\delta^{13}C_{DIC}$ values can be expected to be around -14‰, and about a 9‰ enrichment from the source carbon (Clark and Fritz 1997).

Carbon-14 is another helpful isotope to decipher the source of soil gas CO_2 values. Measurements are often expressed as a fraction from 1 to 0, with atmospheric F14C values on the order of 1.000. The median atmospheric value measured to date in the study has been 1.003. Deeper sources of CO_2, on the other had, will tend to have very low to immeasurable F14C values because of the radioactive decay process. Given the half-life of Carbon-14 (5,730 years) the method is useful for age-dating samples that are less than 40,000 years. As such older sources of CO_2, like deeper hydrocarbon gases emanating from petroleum reservoirs or coal layers, will tend to have F14C values that are below laboratory detection levels. Values measured in Leduc, Nisku, Mannville, and CBM samples submitted by Enhance thus far have generally been below laboratory detection levels (<0.002), or radioactively “dead”.

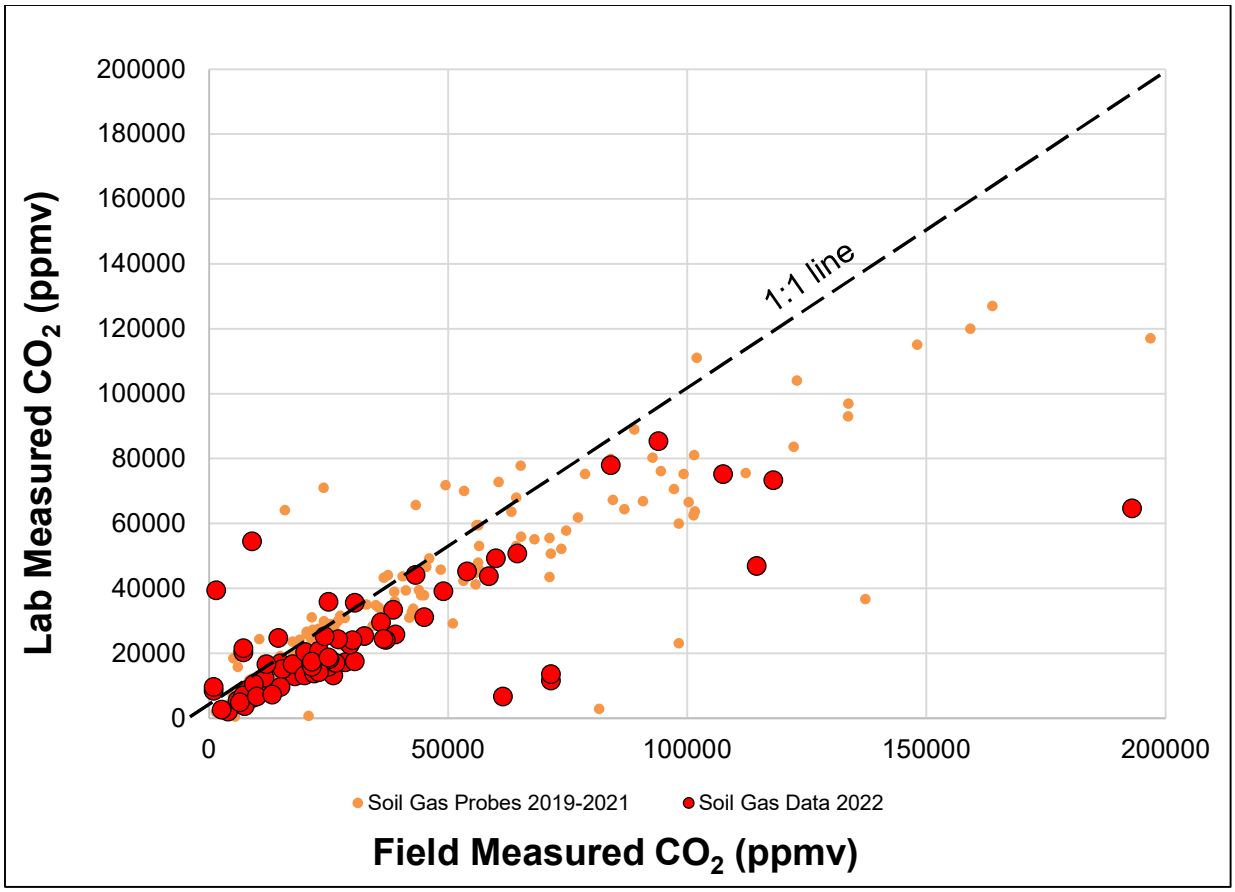


Figure B. Comparison of Field-Measured Versus Lab-Measured CO_2

As part of the MMV monitoring protocol, samples of soil gases are measured both in the field and in the laboratory. These field measurements are used to guide the program and facilitate any refinements that may help with post-sampling assessment activities. Figure B shows a comparison between the field- and laboratory-measured CO_2 values, in relation to the 1:1 line. The comparison is reasonable, for the most part, with field-measured CO_2 tending to read higher than laboratory measurements, particularly at the more elevated concentrations due to the sensitivity and accuracy of the field monitors.

Quality Assurance/Quality Control (QA/QC)

Following sample collection, standard Chain of Custody procedures were followed for sample preservation and transportation to AGAT Laboratories in Red Deer, Alberta. Where necessary, AGAT distributed soil gas samples to additional third-party laboratories following similar Chain of Custody procedures. Samples collected in the fall for radiocarbon analysis were transported directly to the third-party lab.

To verify the integrity of results, the following QA/QC measures taken include:

- Collection of five blind-duplicate samples, representing 8% to 9% of overall samples.
- Comparing in-situ soil gas concentrations to laboratory results to confirm accuracy and precision of field measurements and laboratory results.

- Conducting helium leak checks to verify well integrity prior to collection of soil gas.
- Collection of atmospheric gas samples to verify ambient gas concentrations and compare to soil gas results.

ANALYTICAL SCHEDULES

The following tables provide a listing of groundwater and soil gas probe locations investigated during the spring/summer and fall 2024 sampling campaigns, including the types of analysis to be performed.

INTEGRATED SUSTAINABILITY

Standard Operating Procedure

Purpose: To provide information on standard operating procedure.

GE-SOP-000X: SOIL GAS SAMPLING

Department/Area:	Geosciences		
Prepared By:	Joseph Cruz	**Date:**	June 08, 2021
Approved By:	Ian Grant	**Date:**	
Date Created:	October 01, 2021	**Revision:**	B

PURPOSE OF TASK

This Standard Operating Procedure (SOP) provides guidelines for the sampling of soil gas (methane, and carbon dioxide) in-situ using a Los Gatos Ultraportable Greenhouse Gas Analyzer (GGA) and collecting samples with pre-evacuated (SUMMA) cannisters and/or Wheaton bottle samples.

REQUIRED MATERIALS AND EQUIPMENT

1) Tedlar Bags
2) Summa Cannister and/or Glass bottle samples
3) Vacuum Gauge
4) Flow Regulator
5) Los Gatos Ultraportable Greenhouse Gas Analyzer (GGA)
   - VNC application on phone or tablet to view readings
   - Connect wifi signal to GGA on tablet or phone
   - VNC application configure to connect to the GGA
6) ¼" diameter Teflon tubing
7) 9/16" and ½" wrenches
8) Chameleon fitting for Glass sample bottles
9) Chain of Custody paper work (COC)
10) Field notebook

STANDARD WORK PROCEDURE FOR SOIL GAS SAMPLING

Employers must ensure that workers are trained and experienced in completing this task. Steps to complete this task are as follows:

Soil Gas Sample Collection with Summa Cannister

1) Inspect Summa Cannister to check for mechanical integrity. Verify the vacuum in the cannister is greater than 25 in Hg with the vacuum gauges, if the cannister vacuum is less than 25 in Hg, ambient air may have leaked into the cannister, and the sample may be compromised.

2) Confirm the Summa cannister valve is closed
3) Remove the brass cap and attach the gauge
4) Attach brass cap to the side of gauge tee fitting to ensure a closed train.
5) Open and close valve quickly (seconds) and read vacuum on the gauge. Record the initial vacuum reading and Summa cannister serial number in field notebook/notes
6) Verify the cannister valve is closed
7) Attach the ¼" Teflon tubing to the existing soil gas sampling fitting on the outlet side of the valve, the Teflon tubing should be attached to the fitting with a compression fitting and nut. The compression fitting should be tightened to the manufacturers specification (ex. 1-1/4 turn for Swagelock branded compression fittings)
8) The Teflon tubing will be connected to the GGA, and open the valve of the soil sampling fitting
9) Purge the sampler of stagnant air through the GGA. The methane and carbon dioxide concentrations will be monitored till the stable concentrations are read, typically within 1 to 3 minutes
10) Record all concentrations in the field notebook and/or field sheets
11) Once stable concentrations have been read and recorded, close the valve of the soil sampling fitting and disconnect the ¼" Teflon tubing from the GGA, and connect the tubing to the flow regulator and vacuum gauge of the Summa cannister with a compression fitting and nut. The compression fitting should be tightened to the manufacturers specification (ex. 1-1/4 turn for Swagelock branded compression fittings) The SUMMA Cannister shall remain closed.
12) If using a flow controller, set the flow controller to the specifications of the Summa cannister.
13) Open the valve from the soil gas sampling fitting
14) Open the valve to the Summa cannister to begin collecting the soil gas sample
15) Monitor the vacuum gauge on the Summa cannister, and close the valve when the gauge is reading between -5 in Hg and -3 in Hg (unless otherwise instructed by the laboratory)
16) Close the valve from the soil gas sampling fitting
17) Disconnect the ¼" tubing from the Summa cannister, and record all readings
18) Record the final vacuum of the cannister in the field notebook/notes
19) Fill out cannister sample tag and verify the sample tag matches what is recorded on the COC.
20) Return the cannister to the box and fill out the COC.
21) Repeat steps 1 through 21 if collecting additional Summa cannister samples

22) If collecting additional samples using the glass sample bottles, continue to step 23

Soil Gas Sample Collection with Glass Sample Bottle

23) Inspect glass sample bottle and microvalve fitting to check for mechanical integrity. Verify the vacuum in the cannister is greater than 25 in Hg with the microvalve vacuum gauge, if the cannister vacuum is less than 25 in Hg, ambient air may have leaked into the cannister, and the sample may be compromised
24) Connect the female end of the microvalve vacuum gauge to the microvalve fitting on the glass sample bottle and record the initial vacuum reading and glass sample bottle serial number in the field notebook/notes.
25) Attach the ¼" Teflon tubing from the outlet end of the soil gas sampling fitting to the inlet end of the Chameleon fitting
26) Connect the female microvalve connection end of the Chameleon to the male end of the microvalve on the glass sampling bottle
27) Open the valve from the soil gas sampling fitting to begin sampling
28) Monitor the vacuum gauge on the Chameleon fitting, and disconnect the fitting when the vacuum gauge reads 0 in Hg (unless otherwise stated by the laboratory)
29) Close the valve from the soil gas sampling fitting
30) Record the final vacuum of the glass sample bottle in the field notebook/notes
31) Fill out glass sample bottle tag and verify the sample tag matches what is recorded on the COC
32) Return the glass sample bottle to the box and fill out the COC

Recording Final Gas Readings

33) Connect the ¼ tubing to the GGA to collect additional post-purge of the in-situ sampling for methane and carbon dioxide
34) Open the soil gas sampling fitting valve and record final values for methane and carbon dioxide concentrations
35) Close the soil gas sampling fitting and disconnect the ¼" tubing from the GGA
36) Disconnect the ¼" tubing and compression fitting from the soil gas sampling fitting, verify the valve has been closed and return the fitting to the manhole
37) Close up manhole, and clean up all materials from Site

TECHNICAL REFERENCES

https://www.eurofinsus.com/media/161448/guide-to-air-sampling-analysis-2014-06-27_revised-logos.pdf

GE-SOP-0018: SOIL GAS PROBE INSTALLATION

Department/Area:	Geosciences		
Prepared By:	Joseph Cruz	**Date:**	08 June 2021
Approved By:	Ian Grant	**Date:**	16 June 2021
Date Created:	October 18, 2021	**Revision:**	B

PURPOSE OF TASK

This Standard Operating Procedure (SOP) provides guidelines for the manual installation of a soil gas probe with two methods:

- Method A - installation with an auger
- Method B - installation with a drive point hammer

Employers must ensure that workers are trained and experienced in completing this task. Soil gas probes may be installed in unconsolidated or consolidated material if the well annuls can be sealed.

Soil gas samples should not be collected if groundwater has entered the sampling equipment, as this may damage the analysis equipment and invalidate the soil gas sample collected. Therefor soil gas probes should be installed above the observed or expected static groundwater elevation. If groundwater is encountered while drilling, the probe location should be properly abandoned and an alternate location should be selected.

REQUIRED MATERIALS AND EQUIPMENT

1) Manual slide hammer for drive point piezometer
2) Drive point piezometer tip and screen
3) Riser extensions and couplings to reach the required depth of the piezometer.
   - Piezometer screens and extensions referred to as "casing"
4) ¼" Piezometer tubing (length suitable to reach the required depth and extend above ground surface). Teflon tubing suitable for soil sampling should be used. Silicon tubing should be avoided where possible.
   - Referred to as "tubing"
5) Wrench to tighten drive point piezometer, swage lock nut and bolts
6) Drive head by-pass assembly for drive point piezometer
   – Includes: drive head, drive extension and tubing by-pass
7) Piezometer drive hammer
8) ¼" Ball valve (Brass or stainless steel are suitable)
9) ¼" Swage locks (Brass or stainless steel are suitable)

10) 10-20 filter sand
11) Bentonite chips or pellets
12) Large water container (to hydrate bentonite)
13) Helium gas with discharge fitting
14) Helium detector
15) Helium shroud
16) Dutch auger, handle, and extension
17) Shovel
18) Well Casing (Road Box)

OPTION A STANDARD WORK PROCEDURE: DUTCH AUGER

Steps to complete this task are as follows:

1) Verify all ground disturbance sweeps have been completed and verify that the ground disturbance permitting is valid for the selected drilling location. Drill only in the location identified within the ground disturbance permit.
2) The location of the soil probe will be installed where all ground disturbance specifications are met and meet all requirements (e.g. minimum distance from any pipelines in the area)
3) Place the corkscrew tip of the auger on the ground surface and press firmly on the handles.
4) While pressing down, rotate the handles in a clockwise motion.
5) Continue this until the top of the auger head is at ground surface (should have descended approximately 6")
6) Pull the auger straight up to remove soil. Replace in the borehole and continue to auger to the proposed installation depth.
7) Record the depth range and describe the soil sample as completely as possible (grain size distribution, colour, odour, oxidation/mineralization, plasticity, stiffness, etc.)
8) Drop the tape measure into the hole to verify the true depth of the hole and evaluate for sloughed material.
9) If auger refusal is reached, move over approximately 50 cm and reattempt the hole. Do not log the soil until the original depth of refusal is reached. If refusal occurs again, make a note in the field notebook (refusal may be the result of bedrock). If not, continue logging the hole (as refusal was likely the result of a large piece of gravel). At least 3 attempts should be made at each location. Confirm with project requirements if a shallower borehole is acceptable. If possible, install using the drive point hammer at the point of refusal (Option B).

10) Measure and cut the piezometer tubing to the proposed installation depth, plus an additional 0.5 m (2 ft)
11) Loosen the compression fitting, insert the piezometer tubing with the ferrules into the drive point screen, and tighten 1/4 turn past finger tight to properly secure the tubing in the fitting.
12) Hold the tubing to prevent it from turning, slide the extensions over the tubing and tighten it firmly onto the piezometer drive point screen.
13) Slide a coupling over the tubing and tighten firmly onto the previous extension pipe and tighten, slide the next extension pipe over the tubing and tighten securely to the other end of the coupling and tighten. Repeat until the desired length has been achieved. The piezometer extension should end below ground surface so the road box may be placed over the well.
14) Place piezometer set up in the hole and hold straight, the top of the extension pipe shall be flush with the ground surface.
15) Backfill the screened portion of the drive point piezometer tip with the 10-20 filter sand at least 10 cm above the screened portion of the piezometer to facilitate unimpeded flow of soil gasses into the piezometer. The remainder of the pilot hole is to be backfilled with alternating layers of bentonite chips and 10-20 filter sand. This is to prevent short-circuiting of atmospheric air to the piezometer.
16) Continue to installation of ball valve and fittings section.

OPTION B STANDARD WORK PROCEDURE: DRIVE POINT PIEZOMETER

Steps to complete this task are as follows:

1) Verify all ground disturbance sweeps have been completed and verify that the ground disturbance permitting is valid for the selected drilling location. Drill only in the location identified within the ground disturbance permit.
2) The location of the soil probe will be installed where all ground disturbance specifications are met and meet all requirements (e.g. minimum distance from any pipelines in the area)
3) Measure and cut the piezometer tubing to the proposed installation depth, plus an additional 0.5 m (2 ft)
4) Loosen the compression fitting, insert the piezometer tubing with the ferrules into the drive point screen, and tighten 1/4 turn past finger tight to properly secure the tubing in the fitting.
5) Hold the tubing to prevent it from turning, slide the extensions over the tubing and tighten it firmly onto the piezometer drive point screen.
6) Thread the tubing through the drive head by-pass assembly and place on top screw on to the piezometer casing and tighten to finger tight.

7) Slide the manual slide hammer over the drive head and hammer the device until approximately 15 cm (6") of the extension pipe below the tubing bypass remains above the ground.
8) Remove the hammer and remove the drive head assembly, hold the tubing to prevent it from turning.
9) Slide a coupling over the tubing and tighten firmly onto the previous extension pipe, slide the next extension pipe over the tubing and tighten securely.
10) Repeat steps 5 to 8 till the sampling depth has been reached.
11) Continue to installation of ball valve and fittings section.

INSTALLATION OF BALL VALVE AND FITTINGS

1) Wrap all threads of the fittings with Teflon tape and connect and tighten all parts of the fitting assembly, swage lock-ball valve-swage lock.
2) Loosen and remove the nut and ferrule of one end of the fitting, and slide the nut and ferrule assembly on to the sampling tube.
3) Place the sampling tube to connect to the ball valve fitting, and tighten the nut and ferrule to the fitting assembly, tighten 1-1/4 turn past finger tight.
4) The setup will be leak checked with helium gas to verify there is no short-circuiting of atmospheric air into the gas line through the fittings at surface or through the well annulus.
5) Install the service box (flush mount) over the casing and fill void spaces with native material or bentonite.
6) The brass valve assembly will remain in the well casing for protection, when placing the fitting and sampling tube within the casing, make sure the sampling tube does not get bent or kinked.
7) The casing will be labeled with the location ID and GPS coordinates recorded for future sampling.

LEAK CHECK WITH HELIUM GAS

1) The helium shroud should have at least 3 valve connections:
2) 1 connection with ¼" tubing to connect to the fitting assembly of the soil gas well
3) 1 connection open to the bucket
4) 1 connection to inject helium gas
5) All fittings should be equipped with masterflex tubing to use with the helium detector wand.
6) Loosen the nut and ferrule assembly from the fitting assembly on the outflow end of the ball valve.
7) Slide the nut and ferrule assembly to the ¼" tubing of the helium shroud, and connect to the fitting assembly, tighten 1-1/4 turn past finger tight.

8) Open the valve and place the helium shroud over the sampling port, all fittings should be within the helium shroud. Verify all valves on the helium shroud are closed.
9) Using the helium detector measure the following parameters:
10) Measure and record the atmospheric helium values
11) Place the helium detector wand into the masterflex tubing for the connection to the soil gas well, open the valve measure and record the helium values, and close the valve.
12) Place the helium detector wand into the masterflex tubing for the connection to the bucket, open the valve measure and record the helium values, and close the valve.
13) Place the helium gas cannister discharge to the helium gas injection fitting of the helium shroud. Verify the sampling port and bucket fittings are closed, open the helium injection fitting valve and discharge helium into the fitting. A 1-2 second burst of helium is sufficient to detect a leak in the fitting. Close the valve.
14) Using the helium detector measure the following parameters:
15) Measure and record the atmospheric helium values
16) Place the helium detector wand into the masterflex tubing for the connection to the soil gas well, open the valve measure and record the helium values, and close the valve.
17) Place the helium detector wand into the masterflex tubing for the connection to the bucket, open the valve measure and record the helium values, and close the valve.
18) The helium detector should pick up values of helium in the bucket, and the readings to the soil gas well should not detect any helium.
19) If helium is detected in the soil gas well, check and re-tighten all fittings and repeat steps 1 through 7
20) If helium is detected in the soil gas well, after checking and re-tightening all fittings, the fitting assembly may be compromised, and a new fitting assembly may be required to be installed. Assemble a new fitting and re-test
21) If the helium detector does not pick up helium values from the soil gas well, but helium is detected in the bucket, the fitting assembly is deemed leak proof.
22) Remove the ¼" tubing from the fitting assembly, re-connect the nut and install a new ferrule for future sampling, and place the assembly in the well casing.
23) Place the cover on the well casing, and tighten bolts to verify the casing is sealed.

Purpose: To provide information on standard work practices.

GE-SOP-0006: MONITORING WELL INSTALLATION

Department/Area:	Geosciences		
Prepared By:	M. Myden	**Date:**	01 Sept 2016
Approved By:	M. Myden	**Date:**	01 Sept 2016
Date Created:	01 Sept 2016	**Revision:**	0

PURPOSE OF TASK

The purpose of this procedure is to describe the methods for a groundwater monitoring well installation. It describes designs, procedures, and materials that are used to construct a monitoring well that will produce accurate groundwater level measurements and representative groundwater samples.

REQUIRED MATERIALS AND EQUIPMENT

- Monitoring well construction materials: casing, screen, sand (filter) pack and seal materials
- Measuring tape
- Water level tape
- Soil sampling equipment (see GE-SOP-0004 for further requirements)
- Sample trays or vials
- Field log book (including borehole logging forms)

STANDARD WORK PROCEDURE

Requirements for monitoring well installations are site-specific, and will depend on the soil, bedrock and groundwater conditions encountered in the field, the goals of the investigation program, and the availability and limitations of drilling equipment and installation materials.

Clients may also have monitoring well specifications that differ from the design specifications presented in this procedure. It is up to the field hydrogeologist to ensure design specifications meet both client and regulatory requirements.

Monitoring Well Design

The following are general guidelines for installation of monitoring wells that have been drilled in overburden (soils) or shallow bedrock. Before drilling begins, the conceptual well design and drilling method should be identified and reviewed by a qualified hydrogeologist to determine whether deviations from these general guidelines are appropriate.

Monitoring well design (including well depth and screen length) should be determined based on geological and hydrogeological site observation, objectives of the groundwater sampling

program and presence of DNAPL/LNAPL. Nested monitoring wells may be installed to monitor several depth intervals within an aquifer.

Typical monitoring well designs include (but are not limited to):

- Water table wells (screened across the water table) including anticipated seasonal fluctuations.
- Well screens (up to 1.5 m in length) installed below the water table, but across, within or at the base of a water-bearing zone.

The steps involved in a monitoring well installation include:

Plan and prepare for drilling and monitoring well installation (see also GE-SOP-0006)

- Review the drilling and sampling plan, as well as any relevant information pertaining to subsurface conditions at the planned drilling locations, such as soil and groundwater conditions, type, degree and extent of contamination.
- Determine the appropriate type of drilling rig, soil sample collection and well installations.
- Plan the design of each monitoring well installation, based on the conceptual site model and objectives of the sampling/monitoring program.
- Perform ground disturbance procedures (i.e. utility locates).
- Prepare HSE Management Plan (as required) and Waste Management Plan (as required).
- Schedule and book drilling contractor. Confirm expected subsurface conditions, depths of monitoring well installations and estimated quantities/types of materials that should be brought to site, including:
  - Type and length of casing & type and length of screen
  - End-caps or j-plugs
  - Sand and sealing material
  - Cement (if required)
  - Flush-mount or stick-up protective surface completions
  - Supply of potable water (whether provided by client or by drilling contractor)

Perform ground disturbance (utility locates)

- Mark all borehole locations so that ground disturbance can be undertaken.
- Clear sub-surface and above-ground utilities (e.g. power lines) prior to starting drilling program.
- Ensure sufficient clearance between drilling mast and overhead power lines. Minimum safe work distances for each province shall be used.
- Manual (hand) or vac truck excavation may be required prior to commencing drilling.

- If the planned borehole location(s) interferes with utilities, an alternative location should be selected and cleared.

Drill the borehole and collect/log the soil samples

- Commence drilling of the borehole. As drilling advances, samples brought to the surface should be examined, logged and representative samples collected for screening and/or laboratory analysis (as required).
- A borehole log should be filled in as completely as possible. All depths should be measured to metres below ground surface (mbgs). Information should include, but not be limited to:
  - Site identification and borehole numbers
  - Type of rig used, casing or auger diameter, bit type (if applicable) and rate of advance
  - Depth (intervals) from which samples were collected and a description of each sample (see borehole log form)
  - Moisture content of the sample immediately upon recovery
  - Any significant groundwater observation
- See also GE-SOP-0017 for additional work procedures with respect to soil drilling and sample collection.

Design the monitoring well

- Consult with a qualified hydrogeologist to determine the final design for the monitoring well, including:
  - Length of the screen interval
  - Interval of the screened section (based on borehole lithology)
  - Sand pack interval (minimum depth of sand pack)

Install the monitoring well (screen and unscreened intervals)

- The monitoring well (casing, screen and bottom cap) should be lowered into the borehole until it reaches the bottom of the borehole (at its design depth).
- Measure the height of the well casing above the ground to the nearest cm and record it in the field log book.

Note: Determine the zone with the most moisture for screen placement. Rule of thumb is to place the middle of the screen within the wettest zone. Never have a screen or sand pack cross multiple lithology units.

Note: If the borehole has sloughed in substantially, have the drill operator go back into the borehole and attempt a clean-out. If the borehole is open to the bottom, determine if the borehole needs to be backfilled to capture the screened interval. If backfilling is required, backfill with bentonite or sand. Backfill with sand if the bottom of the borehole is in the same unit as the screened interval. If the borehole needs to be backfilled

through multiple lithologies, use bentonite. When backfilling with bentonite, stop about 0.3 m from the bottom of the desired screen depth. Use sand to backfill the final 0.3m to the bottom of the screen. This prevents damage to the screen.

Install the sand (filter) pack and annular seal materials

- Calculate the volume of sand material needed to fill the annulus to the required height.
- Ensure the monitoring well is centered in the borehole.
- Measure the depth to the bottom of the hole and record the measurement. Keep the measuring tape in the hole while adding the filter sand.
- Pour filter sand in slowly to avoid bridging the annulus until the required amount of sand has been added (approximately 0.3 to 0.5 m above the top of the screen).
- Measure and record final depth to the top of the sand pack when finished.
- The seal material should be placed in the same manner as the filter sand.
- Calculate the volume of seal material required to provide a seal length of approximately 0.6 to 1 m above the sand pack.
- Measure and record final depth to the top of the seal material when finished.

Place fill above seal (if appropriate)

- If the top of the seal does not correspond to the ground surface, the remainder of the annular space should be sealed to within 0.5 m of ground surface using either cement, a bentonite grout slurry or uncontaminated material from the site (as appropriate).

Install the surface seal and protective casing

- The upper 0.5 m of the borehole should be sealed to prevent surface water from entering the borehole.
- An appropriate surface casing (e.g. a lockable stick-up completion or flush mounted surface casing) should be installed based on site conditions.

Survey the monitoring well location.

- All monitoring wells at the site should be surveyed in to measure elevation of the ground surface and top of well casing at each well location. Well surveys should be accurate to within 0.1 cm (i.e. GPS coordinates are not accurate enough).

Troubleshooting

- Contact project manager or senior hydrogeologist if there are issues with the borehole sloughing in or the annulus bridges during well construction.

REFERENCES

USEPA, 1996. Standard Operating Procedures 2048 – Monitor Well Installation.

INTEGRATED SUSTAINABILITY

2024 Summer Groundwater Sampling Analytical Schedule

Client: Enhance Energy Ltd. **Project Number:** CP24-EEI-01-00 **Date:** May 7, 2024 **Rev:** A

Sample ID	LSD	Summer 2024 Routine	Summer 2024 Dissolved Metals	Summer 2024 Total Iron, Sulphur, Bromide	Summer 2024 Microbiology (IRB, SRB, SFB)	Summer 2024 13C in DIC	Summer 2024 Dissolved Gas[1]	Summer 2024 d34S[1]	Summer 2024 QA/QC (Dup)[1]
159670	NE 27-039-24 W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
273119	SW 2-010-24 W4M (02-040)	Yes	Yes	Yes	Yes	Yes	No	No	No
273147	SW 11-040-24 W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
290202	NW 36-039-24 W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
1201187	10-35-039-24W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
1201186	10-35-039-24W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
1201185	10-35-039-24W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
SE-15 GW (1194655)	SE 15-40-24-W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
292474	SW 10-40-24-W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
160563	NE 11-40-24-W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
273127	SW 3-40-24-W4M	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
273157	04-15-040-24 W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
21-MW-12-25 (97477)	12-25-039-24W4	Yes	Yes	Yes	Yes	Yes	No	No	No
SE-08 GW	SE 08-041-24 W4M	Yes	Yes	Yes	Yes	Yes	Yes	No	No
1130648	NW 32-040-24 W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
273641	NW 33-040-24 W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
2063062	SW 28-040-24 W4M	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
299494	SE 28-040-24 W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
NE-20 GW (2002608)	NE 20-040-24 W4M	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
SW-16 GW	SW 16-40-24-W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
273159	NW 15-40-24-W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
285413	NE 15-40-24-W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
97505	SW 35-39-24 W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
NE-24 GW (97475)	NE 24-39-24 W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
97466	SE 22-039-24 W4M	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
97479	NE-25-039-24 W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
	Total	**26**	**26**	**26**	**26**	**26**	**5**	**10**	**3**

Note: 1. Samples collected may change based on field observations

INTEGRATED SUSTAINABILITY

2024 Summer Soil Gas Sampling Analytical Schedule

Project Number: Enhance Energy Ltd. **Date:** May 2, 2024

Project Number: CP24-EEI-01-00 **Rev:** A

Soil Probe Surface Location	Sample ID	2024 Summer Breathing Air and Extended Gas	2024 Summer d13C (UofA)	2024 Summer Duplicate	2024 Summer Atmosphere
05-36-039-24W4	05-36-PP-SU-24	Yes	Yes	No	No
14-26-039-24W4	14-26-PP-SU-24	Yes	Yes	Yes	No
11-35-039-24W4	11-35-PP-SU-24	Yes	Yes	No	No
12-02-040-24W4	12-02-PP-SU-24	Yes	Yes	No	No
16-03-040-24W4	16-03-PP-SU-24	Yes	Yes	No	No
07-10-040-24W4	07-10-PP-SU-24	Yes	Yes	No	No
09-10-040-24W4	09-10-PP-SU-24	Yes	Yes	No	No
03-15-040-24W4	03-15-PP-SU-24	Yes	Yes	Yes	No
02-10-040-24W4	02-10-PP-SU-24	Yes	Yes	No	No
16-09-040-24W4	16-09-PP-SU-24	Yes	Yes	No	No
12-23-039-24W4	12-24-PP-SU-24	Yes	Yes	No	No
14-23-039-24W4	14-24-PP-SU-24	Yes	Yes	No	No
12-15-040-24W4	12-15-PP-SU-24	Yes	Yes	No	No
09-16-040-24W4 (01-16)	09-16-PP-SU-24	Yes	Yes	No	No
13-16-040-24W4	13-16-PP-SU-24	Yes	Yes	No	No
16-16-040-24W4	16-16-PP-SU-24	Yes	Yes	No	No
07-21-040-24W4	07-21-PP-SU-24	Yes	Yes	No	No
14-21-040-24W4	14-21-PP-SU-24	Yes	Yes	No	No
06-28-040-24W4	06-28-PP-SU-24	Yes	Yes	No	No
12-28-040-24W4	12-28-PP-SU-24	Yes	Yes	No	No
01-32-040-24W4	01-32-PP-SU-24	Yes	Yes	No	No
05-33-040-24W4	05-33-PP-SU-24	Yes	Yes	No	No
06-05-041-24W4	06-05-PP-SU-24	Yes	Yes	No	No
13-05-041-24W4	13-05-PP-SU-24	Yes	Yes	No	No
08-09-040-24W4	08-09-PP-SU-24	Yes	Yes	No	No
08-20-040-24W4	08-20-PP-SU-24	Yes	Yes	Yes	No
XX-15-040-24W4	XX-15-PP-SU-24	Yes	Yes	No	No
10-09-040-24W4	10-09-PP-SU-24	Yes	Yes	Yes	No
07-21-040-24W4	07-21-AA-SU-24	Yes	Yes	No	Yes
03-15-040-24W4	03-15-AA-SU-24	Yes	Yes	Yes	Yes
12-23-039-24W4	12-24-AA-SU-24	Yes	Yes	Yes	Yes
08-20-040-24W4	08-20-AA-SU-24	Yes	Yes	Yes	Yes
Total		36	36	6	4

INTEGRATED SUSTAINABILITY

2024 Fall Groundwater Sampling Analytical Schedule

Client: Enhance Energy Ltd. **Project Number:** CP24-EEI-01-00 **Date:** August 20 2024 **Rev:** A

Sample ID	LSD	Fall 2024 Routine	Fall 2024 Dissolved Metals	Fall 2024 Total Iron, Sulphur, Bromide	Fall 2024 Microbiology (IRB, SRB, SFB)	Fall 2024 13C in DIC	Fall 2024 Dissolved Gas1	Fall 2024 d34S1	Fall 2024 QA/QC (Dup)
159670	NE 27-039-24 W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
SE-03 GW (273122)	SE 3-040-24 W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
273147	SW 11-040-24 W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
290202	NW 36-039-24 W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
1201187	10-35-039-24W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
1201186	10-35-039-24W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
1201185	10-35-039-24W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
SE-15 GW (1194655)	SE 15-40-24-W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
292474	SW 10-40-24-W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
160563	NE 11-40-24-W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
273127	SW 3-40-24-W4M	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
273157	04-15-040-24 W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
21-MW-12-25 (97477)	12-25-039-24W4	Yes	Yes	Yes	Yes	Yes	No	No	No
NW-08 GW	NW 08-041-24 W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
273641	NW 33-040-24 W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
298649	SE 29-040-24 W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
2063062	SW 28-040-24 W4M	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
299494	SE 28-040-24 W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
SW-16 GW	SW 16-40-24-W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
273159	NW 15-40-24-W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
285413	NE 15-40-24-W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
97505	SW 35-39-24 W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
NE-24 GW (97475)	NE 24-39-24 W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
97466	SE 22-039-24 W4M	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
273618	NW 32-040-24 W4M	Yes	Yes	Yes	Yes	Yes	No	No	No
97479	NE-25-039-24 W4M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
	Total	**26**	**26**	**26**	**26**	**26**	**5**	**10**	**3**

Note: 1. Samples collected may change based on field observations

INTEGRATED SUSTAINABILITY

2024 Fall Soil Gas Summary

Project Number: CP24-EEI-01-00 **Date:** February 20, 2025

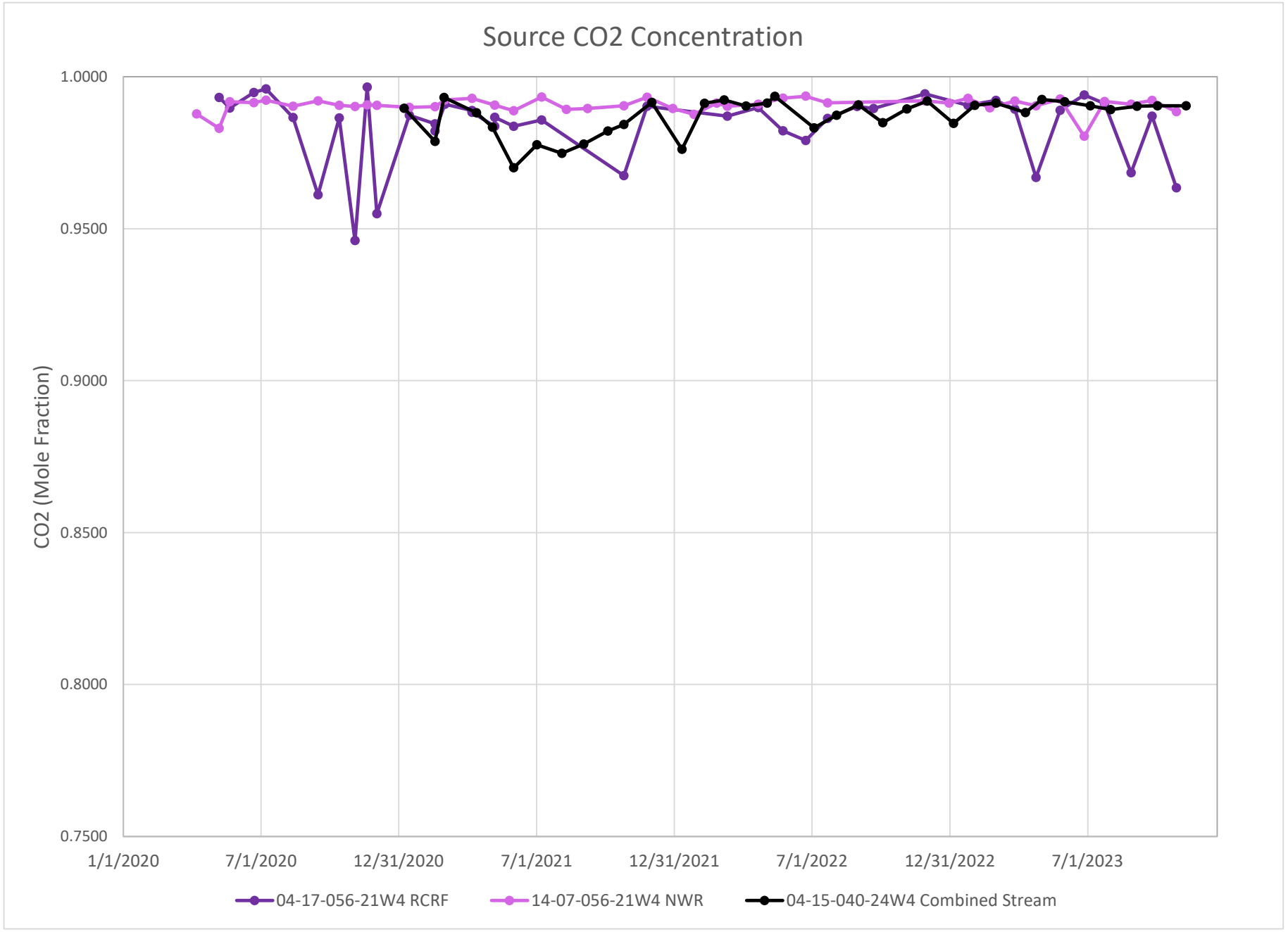
Sample ID	2024 Fall Breathing Air and Extended Gas	2024 Fall d13C (UofA)	2024 Fall d14C (UofO)	2024 Fall Duplicate	2024 Fall Atmosphere	Date Sample Collected
01-32-PP-FA-24	Yes	Yes	Yes	No	No	9/19/2024
02-10-PP-FA-24	Yes	Yes	Yes	No	No	9/16/2024
03-15-PP-FA-24	Yes	Yes	No	No	No	9/15/2024
05-21-PP-FA-24	Yes	Yes	Yes	No	No	9/20/2024
05-33-PP-FA-24	Yes	Yes	Yes	No	No	9/20/2024
05-36-PP-FA-24	Yes	Yes	No	No	No	9/16/2024
06-05-PP-FA-24	Yes	Yes	Yes	No	No	9/20/2024
06-08-PP-FA-24	Yes	Yes	Yes	No	No	9/13/2024
06-28-PP-FA-24	Yes	Yes	No	No	No	9/13/2024
07-02-PP-FA-24	Yes	Yes	No	Yes	No	9/14/2024
07-10-PP-FA-24	Yes	Yes	Yes	No	No	9/14/2024
07-15-PP-FA-24	Yes	Yes	Yes	Yes	No	9/19/2024
07-21-PP-FA-24	Yes	Yes	Yes	Yes	No	9/15/2024
08-09-PP-FA-24	Yes	Yes	Yes	No	No	9/19/2024
08-27-PP-FA-24	Yes	Yes	No	No	No	9/16/2024
09-10-PP-FA-24	Yes	Yes	Yes	No	No	9/16/2024
09-16-PP-FA-24	Yes	Yes	No	No	No	9/16/2024
10-02-PP-FA-24	Yes	Yes	No	No	No	9/14/2024
11-35-PP-FA-24	Yes	Yes	No	No	No	9/14/2024
12-02-PP-FA-24	Yes	Yes	Yes	No	No	9/14/2024
12-15-PP-FA-24	Yes	Yes	No	No	No	9/11/2024
12-23-PP-FA-24	Yes	Yes	No	No	No	9/16/2024
12-25-PP-FA-24	Yes	Yes	Yes	No	No	9/20/2024
12-28-PP-FA-24	Yes	Yes	Yes	No	No	9/19/2024
13-05-PP-FA-24	Yes	Yes	Yes	No	No	9/13/2024
13-16-PP-FA-24	Yes	Yes	Yes	No	No	9/15/2024
14-21-PP-FA-24	Yes	Yes	No	No	No	9/12/2024
14-23-PP-FA-24	Yes	Yes	No	No	No	9/15/2024
14-26-PP-FA-24	Yes	Yes	No	No	No	9/15/2024
16-03-PP-FA-24	Yes	Yes	Yes	No	No	9/14/2024
16-09-PP-FA-24	Yes	Yes	No	No	No	9/15/2024
16-16-PP-FA-24	Yes	Yes	No	No	No	9/13/2024
07-02-AA-FA-24	Yes	Yes	No	No	Yes	9/14/2024
07-21-AA-FA-24	Yes	Yes	No	No	Yes	9/15/2024
09-16-AA-FA-24	Yes	Yes	No	No	Yes	9/16/2024
07-15-AA-FA-24	Yes	Yes	No	No	Yes	9/19/2024

INTEGRATED SUSTAINABILITY

Appendix 2: Production Gas Analysis

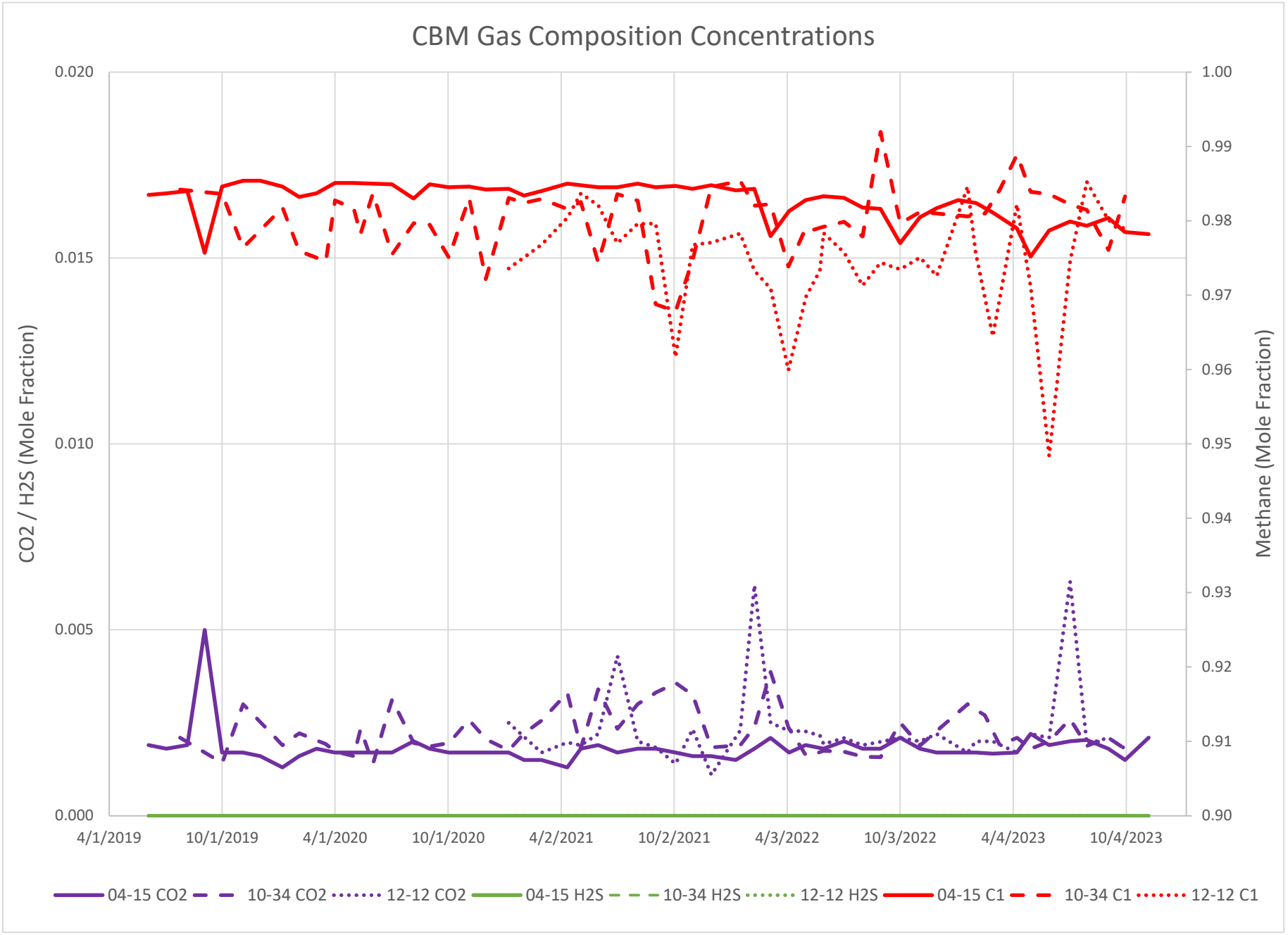
					Gas Analysis (Mole Fraction)													
SOURCE LOCATION	OPERATOR NAME	FIELD	SAMPLER NAME	DATE SAMPLED	H2	He	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7+
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/7/2021	0.0091	0.0000	0.0009	0.9896	0.0000	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/17/2021	0.0174	0.0000	0.0037	0.9788	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/1/2021	0.0058	0.0000	0.0004	0.9932	0.0000	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/13/2021	0.0103	0.0000	0.0006	0.9881	0.0000	0.0009	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/4/2021	0.0150	0.0000	0.0006	0.9834	0.0000	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2021	0.0271	0.0000	0.0015	0.9701	0.0000	0.0013	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/2/2021	0.0204	0.0000	0.0007	0.9776	0.0000	0.0013	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/4/2021	0.0226	0.0000	0.0013	0.9748	0.0000	0.0013	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/2/2021	0.0204	0.0000	0.0004	0.9779	0.0000	0.0012	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/4/2021	0.0074	0.0000	0.0099	0.9822	0.0000	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/25/2021	0.0062	0.0000	0.0068	0.9843	0.0000	0.0005	0.0005	0.0002	0.0001	0.0002	0.0002	0.0001	0.0002	0.0008
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2021	0.0075	0.0000	0.0006	0.9915	0.0000	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/10/2022	0.0123	0.0000	0.0071	0.9762	0.0000	0.0022	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0020
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/9/2022	0.0062	0.0000	0.0013	0.9912	0.0000	0.0007	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.0002	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/7/2022	0.0064	0.0000	0.0003	0.9924	0.0000	0.0008	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/5/2022	0.0080	0.0000	0.0010	0.9904	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/3/2022	0.0052	0.0000	0.0023	0.9913	0.0000	0.0006	0.0000	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/13/2022	0.0041	0.0000	0.0010	0.9936	0.0000	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/4/2022	0.0084	0.0000	0.0074	0.9832	0.0000	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/3/2022	0.0059	0.0000	0.0047	0.9873	0.0000	0.0010	0.0001	0.0002	TRACE	0.0001	0.0001	0.0001	0.0001	0.0004
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/1/2022	0.0061	0.0000	0.0022	0.9907	0.0000	0.0009	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	0.0001
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/3/2022	0.0071	0.0000	0.0058	0.9849	0.0000	0.0004	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0003	0.0006
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2022	0.0069	0.0000	0.0017	0.9894	0.0000	0.0002	0.0001	0.0001	0.0004	0.0008	0.0001	0.0001	0.0001	0.0001
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2022	0.0064	0.0000	0.0002	0.9920	0.0000	0.0010	0.0002	0.0001	TRACE	0.0001	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/5/2023	0.00807	0	0.00291	0.98463	0	0.00087	0.00023	0.00068	0.00016	0.00057	0.00023	0.00041	0.00033	0.00026
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/2/2023	0.00574	0	0.00254	0.99058	0	0.00058	0	0.00001	0.0002	0.00033	0.00001	0.00001	0	0
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/2/2023	0.0058	0	0.0019	0.9913	0	0.0007	TRACE	TRACE	0.0001	TRACE	TRACE	TRACE	TRACE	0.0002
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/10/2023	0.0074	0	0.0035	0.9882	0	0.0007	0	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	0.0002
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/2/2023	0.0058	0	0.0007	0.9925	0	0.001	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2023	0.0061	0	0.0011	0.9918	0	0.0007	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	0.0003
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/5/2023	0.0059	0	0.0007	0.9904	0	0.001	0.0001	0.0003	0.0001	0.0001	0.0001	0.0001	0.0002	0.001
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/1/2023	0.0056	0	0.002	0.9892	0	0.0006	0	0.0001	TRACE	0.0002	0.0002	0.0003	0.0005	0.0013
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/5/2023	0.0058	0	0.0022	0.9903	0	0.001	0.0001	TRACE	0.0001	TRACE	TRACE	TRACE	TRACE	0.0005
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/2/2023	0.0058	0	0.001	0.9904	0	0.0006	0.0001	0.0001	TRACE	0.0001	TRACE	0.0001	0.0002	0.0016
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/9/2023	0.0058	0	0.0012	0.9904	0	0.0008	0.0002	0.0006	0.0001	0.0001	0.0001	0.0002	0.0002	0.0003
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/2/2023	0.0058	0	0.001	0.9904	0	0.0006	0.0001	0.0001	TRACE	0.0001	TRACE	0.0001	0.0002	0.0016
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/9/2023	0.0058	0	0.0012	0.9904	0	0.0008	0.0002	0.0006	0.0001	0.0001	0.0001	0.0002	0.0002	0.0003
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/6/2023	0.0062	0	0.0001	0.9929	0	0.0008	TRACE	TRACE	0	0	0	0	0	0
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/2/2024	0.0071	0	0.0003	0.9921	0	0.0005	0	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	0
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/13/2024	0.0062	0	0.0011	0.9916	0	0.001	0.0001	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	0
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/11/2024	0.0083	0	0.0003	0.9903	0	0.0008	0.0001	0.0002	TRACE	0	0	0	0	0
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/11/2024	0.0082	0	0.0001	0.9908	0	0.0008	0.0001	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/3/2024	0.0072	0	0.0003	0.9917	0	0.0007	0.0001	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/1/2024	0.0066	0	0.0008	0.9918	0	0.0007	0.0001	TRACE	TRACE	0	0	0	0	0
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/3/2024	0.00849	0	0.00045	0.99037	0	0.00069	0	0	0	0	0	0	0	0
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/2/2024	0.0173	0	0.0007	0.9808	0	0.0012	0	0	0	0	0	0	0	0
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/1/2024	0.0059	0	0.0007	0.9925	0	0.0005	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	0.0004
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/1/2024	0.0065	0	0.0003	0.9926	0	0.0006	TRACE	0	0	0	0	0	0	0
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/3/2024	0.0075	0	0.0012	0.9906	0	0.0006	0.0001	TRACE	TRACE	TRACE	TRACE	TRACE	0	0
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/1/2024	0.0014	TRACE	0.0006	0.9977	0	0.0002	0.0001	TRACE	TRACE	TRACE	TRACE	TRACE	0	0
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/7/2024	0.0056	0	0.0003	0.9931	0	0.0006	0.0001	TRACE	0.0001	TRACE	TRACE	TRACE	TRACE	0.0002
04-15-040-24W4 Combined Stream	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/3/2024	0.0067	0	0.0003	0.9927	0	0.0003	0	0	0	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	5/7/2020	0.0020	0.0000	0.0010	0.9932	0.0000	0.0001	TRACE	0.0010	0.0005	0.0013	0.0004	0.0003	0.0001	0.0001
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	5/21/2020	0.0078	0.0000	0.0024	0.9897	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	6/22/2020	0.0040	0.0000	0.0011	0.9948	0.0000	0.0001	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	7/8/2020	0.0022	0.0000	0.0017	0.9960	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	8/13/2020	0.0104	0.0000	0.0029	0.9866	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	9/15/2020	0.0350	0.0000	0.0033	0.9612	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0002
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	10/13/2020	0.0112	0.0000	0.0022	0.9864	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	11/3/2020	0.0478	0.0000	0.0058	0.9461	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	11/19/2020	0.0015	0.0000	0.0011	0.9966	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0007
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	12/2/2020	0.0392	0.0000	0.0044	0.9550	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0012
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	1/14/2021	0.0092	0.0000	0.0034	0.9873	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	2/17/2021	0.0106	0.0000	0.0042	0.9845	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	2/17/2021	0.0139	0.0000	0.0037	0.9821	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	3/2/2021	0.0071	0.0000	0.0018	0.9910	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	4/7/2021	0.0075	0.0000	0.0015	0.9889	0.0000	0.0003	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	0.0018
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	4/7/2021	0.0099	0.0000	0.0017	0.9883	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	5/7/2021	0.0130	0.0000	0.0026	0.9837	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0005
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	5/7/2021	0.0104	0.0000	0.0027	0.9866	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	6/1/2021	0.0134	0.0000	0.0028	0.9837	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	7/8/2021	0.0116	0.0000	0.0026	0.9858	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	10/25/2021	0.0266	0.0000	0.0056	0.9674	0.0000	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	11/25/2021	0.0075	0.0000	0.0019	0.9903	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	3/11/2022	0.0087	0.0000	0.0019	0.9871	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0023
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	4/21/2022	0.0083	0.0000	0.0018	0.9898	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	5/24/2022	0.0148	0.0000	0.0028	0.9822	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	6/23/2022	0.0169	0.0000	0.0029	0.9790	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0010
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	7/22/2022	0.0092	0.0000	0.0021	0.9863	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0024
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	8/30/2022	0.0080	0.0000	0.0017	0.9902	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	9/21/2022	0.0087	0.0000	0.0017	0.9895	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	11/28/2022	0.0042	0.0000	0.0012	0.9944	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	1/24/2023	0.00773	0	0.00159	0.99056	0	0.00012	0	0	0	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT/EDMONTON	3/2/2023	0.00584	0	0.00182	0.99222	0	0.00012	0	0	0	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	3/27/2023	0.00826	0	0.00223	0.98933	0	0.00016	0	0	0.00002	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	4/24/2023	0.02916	0	0.0037	0.96684	0	0.0003	0	0	0	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	5/26/2023	0.00837	0	0.00252	0.98895	0	0.00013	0	0.00001	0.00001	0.00001	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	6/27/2023	0.0035	0	0.0018	0.994	0	0.0004	0	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	0.0003
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	7/24/2023	0.00711	0	0.00155	0.9912	0	0.00014	0	0	0	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	8/28/2023	0.02431	0	0.00635	0.96839	0	0.00042	0	0.00002	0.00001	0.00001	0.00001	0.00001	0.00004	0.00006
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	9/25/2023	0.0102	0	0.0026	0.987	0	0.0002	0	0	0	0	0	0	TRACE	TRACE
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	10/27/2023	0.0302	0	0.00607	0.96346	0	0.00027	0	0	0	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	12/1/2023	0.0061	0	0.0008	0.993	0	0.0001	0	0	0	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	12/27/2023	0.0142	0	0.00188	0.98375	0	0.00016	0	0	0.00001	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	1/31/2024	0.04756	0.00001	0.00408	0.94813	0	0.00022	0	0	0	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	2/26/2024	0.00943	0	0.00119	0.98903	0	0.0001	0.00003	0.00001	0.00002	0.00002	0.00001	0.00002	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	3/26/2024	0.0345	0	0.0034	0.9617	0	0.0004	0	0	0	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	4/24/2024	0.0073	0	0.0021	0.9903	0	0.0003	0	TRACE	TRACE	TRACE	TRACE	TRACE	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	5/27/2024	0.0038	0	0.0013	0.9944	0	0.0005	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	6/25/2024	0.01183	0	0.00169	0.98625	0	0.00023	0	0	0	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	7/25/2024	0.0158	0	0.0023	0.9813	0	0.0002	0	TRACE	TRACE	0.0004	TRACE	TRACE	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	8/29/2024	0.0065	0	0.0009	0.9925	0	0.0001	0	0	0	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	9/24/2024	0.0098	0	0.0014	0.9872	0	0	0	0	TRACE	TRACE	TRACE	0.0001	0.0015	
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	10/25/2024	0.0188	TRACE	0.0024	0.9787	0	0.0001	0	0	0	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	11/25/2024	0.0294	0	0.0035	0.9669	0	0.0002	0	0	0	0	0	0	0	0
04-17-056-21W4 RCRF	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	12/27/2024	0	0.0001	0.0032	0.9753	0	0.0003	0.0143	0.0033	0.0013	0.0011	0.0001	0.0009	TRACE	0.0001
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	4/7/2020	0.0102	0.0000	0.0003	0.9878	0.0000	0.0014	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	5/7/2020	0.0070	0.0000	0.0006	0.9830	0.0000	0.0012	TRACE	0.0009	0.0008	0.0023	0.0010	0.0013	0.0008	0.0011
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	5/21/2020	0.0073	0.0000	0.0004	0.9918	0.0000	0.0005	TRACE	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	6/22/2020	0.0068	0.0000	0.0006	0.9915	0.0000	0.0011	TRACE	TRACE	TRACE	TRACE	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	7/8/2020	0.0064	0.0000	0.0003	0.9923	0.0000	0.0009	0.0001	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	8/13/2020	0.0087	0.0000	0.0001	0.9903	0.0000	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	9/15/2020	0.0064	0.0000	0.0004	0.9921	0.0000	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	10/13/2020	0.0078	0.0000	0.0005	0.9906	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0004	0.0002
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	11/3/2020	0.0083	0.0000	0.0008	0.9902	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	11/19/2020	0.0084	0.0000	0.0003	0.9908	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	12/2/2020	0.0062	0.0000	0.0010	0.9906	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0014
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	1/14/2021	0.0084	0.0000	0.0010	0.9899	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	2/17/2021	0.0088	0.0000	0.0003	0.9901	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	3/2/2021	0.0065	0.0000	0.0003	0.9924	0.0000	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	4/7/2021	0.0061	0.0000	0.0002	0.9929	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	5/7/2021	0.0072	0.0000	0.0003	0.9906	0.0000	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0009
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	6/1/2021	0.0076	0.0000	0.0010	0.9888	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0019
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	7/8/2021	0.0059	0.0000	0.0002	0.9933	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	8/10/2021	0.0094	0.0000	0.0006	0.9892	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	9/7/2021	0.0082	0.0000	0.0012	0.9895	0.0000	0.0006	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0004
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	10/25/2021	0.0076	0.0000	0.0003	0.9905	0.0000	0.0005	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0010
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	11/25/2021	0.0061	0.0000	0.0002	0.9933	0.0000	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	12/29/2021	0.0071	0.0000	0.0024	0.9896	0.0000	0.0007	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0001
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	1/26/2022	0.0065	0.0000	0.0008	0.9876	0.0000	0.0006	0.0001	0.0000	0.0001	0.0003	0.0007	0.0010	0.0008	0.0016
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	2/25/2022	0.0077	0.0000	0.0002	0.9913	0.0000	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	3/11/2022	0.0075	0.0000	0.0001	0.9903	0.0000	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0009
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	4/21/2022	0.0070	0.0000	0.0013	0.9910	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	5/24/2022	0.0061	0.0000	0.0004	0.9930	0.0000	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	6/23/2022	0.0051	0.0000	0.0004	0.9936	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	7/22/2022	0.0074	0.0000	0.0005	0.9914	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	11/28/2022	0.0067	0.0000	0.0005	0.9921	0.0000	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
14-07-056-21W4 NWR	ENHANCE ENERGY INC	REDWATER	AGAT RED DEER	12/30/2022	0.0073	0.0000	0.0005	0.9914	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000


Source CO2 Concentration
1.0000
0.9500
0.9000
0.8500
0.8000
0.7500
CO2 (Mole Fraction)
1/1/2020
7/1/2020
12/31/2020
7/1/2021
12/31/2021
7/1/2022
12/31/2022
7/1/2023
04-17-056-21W4 RCRF
14-07-056-21W4 NWR
04-15-040-24W4 Combined Stream

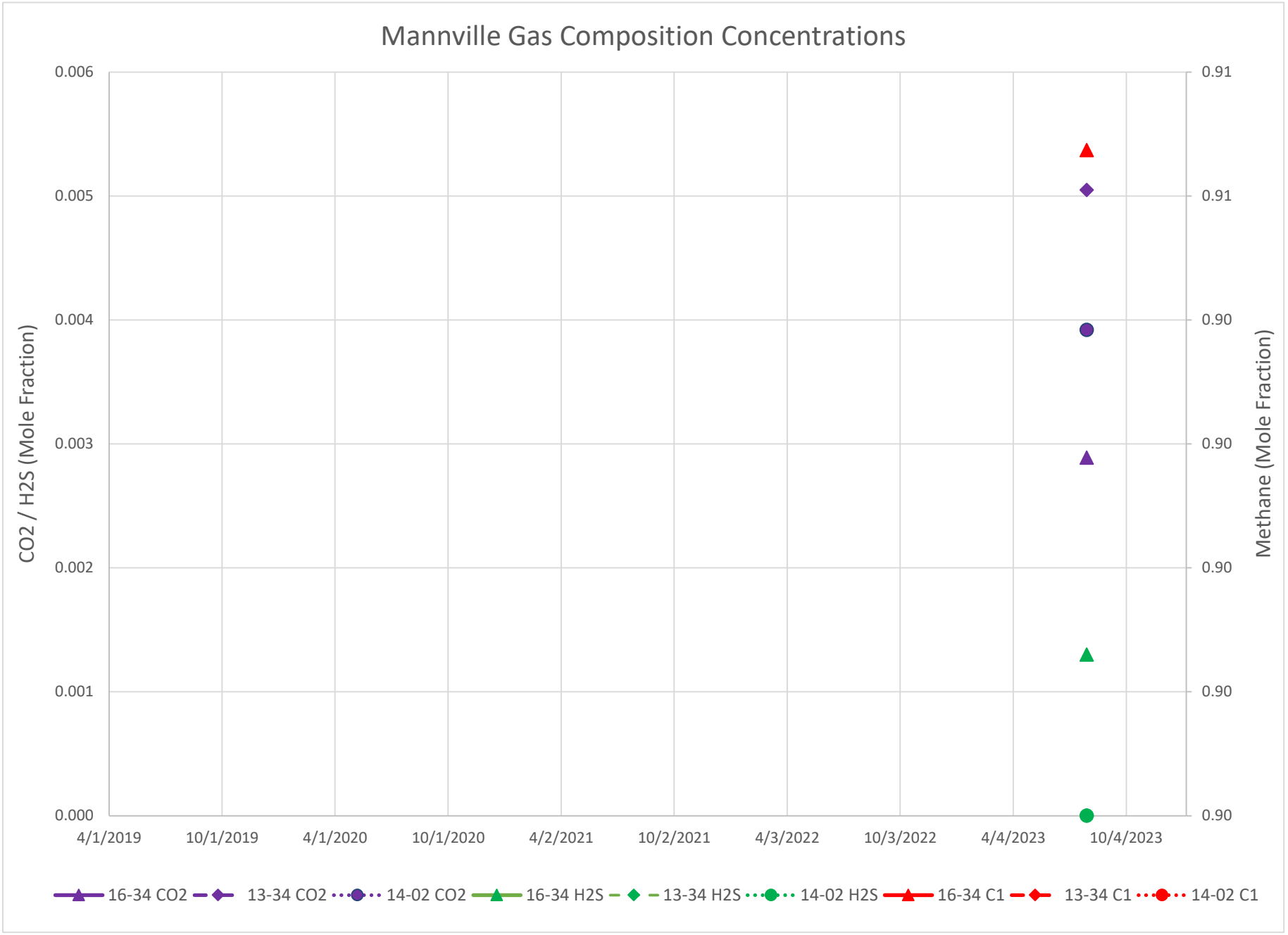
					Gas Analysis (Mole Fraction)													
SOURCE LOCATION	OPERATOR NAME	FIELD	SAMPLER NAME	DATE SAMPLED	H2	He	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7+
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/4/2019	0.0003	0.0002	0.0079	0.0019	0.0000	0.9835	0.0053	0.0005	0.0001	0.0001	0.0001	0.0001	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/3/2019	TRACE	0.0001	0.0075	0.0018	0.0000	0.9837	0.0050	0.0006	0.0001	0.0001	TRACE	TRACE	TRACE	0.0011
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/6/2019	TRACE	0.0001	0.0078	0.0019	0.0000	0.9840	0.0053	0.0007	0.0001	0.0001	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/3/2019	0.0004	0.0001	0.0060	0.0050	0.0000	0.9757	0.0118	0.0006	0.0003	0.0001	TRACE	TRACE	0.0000	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/1/2019	TRACE	0.0001	0.0075	0.0017	0.0000	0.9846	0.0052	0.0005	0.0002	TRACE	0.0001	TRACE	TRACE	0.0001
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2019	TRACE	0.0001	0.0068	0.0017	0.0000	0.9854	0.0053	0.0006	0.0001	TRACE	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/2/2019	TRACE	0.0001	0.0069	0.0016	0.0000	0.9854	0.0054	0.0005	0.0001	TRACE	TRACE	TRACE	0.0000	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/7/2020	TRACE	0.0001	0.0077	0.0013	0.0000	0.9846	0.0055	0.0004	0.0002	0.0001	TRACE	0.0001	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/3/2020	0.0001	0.0001	0.0089	0.0016	0.0000	0.9832	0.0052	0.0007	0.0001	0.0001	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/2/2020	0.0007	TRACE	0.0077	0.0018	0.0000	0.9837	0.0054	TRACE	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/1/2020	0.0001	0.0001	0.0071	0.0017	0.0000	0.9851	0.0053	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/1/2020	0.0001	0.0001	0.0071	0.0017	0.0000	0.9851	0.0052	0.0006	0.0001	TRACE	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2020	TRACE	0.0001	0.0075	0.0017	0.0000	0.9850	0.0051	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/2/2020	TRACE	0.0001	0.0074	0.0017	0.0000	0.9849	0.0053	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/6/2020	0.0008	0.0001	0.0074	0.0020	0.0000	0.9830	0.0056	0.0007	0.0002	0.0002	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/1/2020	0.0001	0.0001	0.0071	0.0018	0.0000	0.9849	0.0054	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/2/2020	0.0001	0.0001	0.0078	0.0017	0.0000	0.9845	0.0052	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2020	0.0002	0.0001	0.0076	0.0017	0.0000	0.9846	0.0052	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2020	0.0000	0.0001	0.0080	0.0017	0.0000	0.9842	0.0053	0.0005	0.0001	0.0001	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/7/2021	TRACE	0.0001	0.0077	0.0017	0.0000	0.9843	0.0054	0.0005	0.0002	0.0001	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/1/2021	TRACE	0.0002	0.0089	0.0015	0.0000	0.9834	0.0054	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/1/2021	0.0001	0.0002	0.0081	0.0015	0.0000	0.9840	0.0052	0.0005	0.0001	0.0001	TRACE	TRACE	0.0001	0.0001
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/12/2021	0.0001	0.0001	0.0072	0.0013	0.0000	0.9850	0.0057	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/4/2021	0.0002	0.0001	0.0070	0.0018	0.0000	0.9848	0.0054	0.0006	0.0001	TRACE	TRACE	TRACE	0.0000	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2021	0.0000	0.0001	0.0074	0.0019	0.0000	0.9845	0.0053	0.0007	0.0001	TRACE	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/2/2021	0.0002	0.0001	0.0072	0.0017	0.0000	0.9845	0.0055	0.0006	0.0001	0.0001	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/4/2021	TRACE	0.0001	0.0072	0.0018	0.0000	0.9850	0.0053	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/2/2021	0.0000	0.0001	0.0073	0.0018	0.0000	0.9845	0.0054	0.0006	0.0001	TRACE	TRACE	TRACE	TRACE	0.0002
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/4/2021	0.0002	0.0001	0.0071	0.0017	0.0000	0.9847	0.0054	0.0006	0.0001	0.0001	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/1/2021	TRACE	0.0002	0.0078	0.0016	0.0000	0.9843	0.0052	0.0005	0.0001	0.0001	0.0001	TRACE	0.0001	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2021	TRACE	0.0001	0.0074	0.0016	0.0000	0.9848	0.0054	0.0005	0.0001	0.0001	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/10/2022	0.0000	0.0001	0.0084	0.0015	0.0000	0.9841	0.0053	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/9/2022	TRACE	0.0002	0.0079	0.0018	0.0000	0.9843	0.0052	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/7/2022	0.0007	0.0001	0.0097	0.0021	0.0000	0.9780	0.0073	0.0016	0.0002	0.0003	0.0001	0.0000	0.0000	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/6/2022	TRACE	0.0001	0.0111	0.0017	0.0000	0.9813	0.0052	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/3/2022	TRACE	0.0001	0.0090	0.0019	0.0000	0.9828	0.0054	0.0006	0.0001	0.0001	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2022	TRACE	0.0001	0.0084	0.0018	0.0000	0.9833	0.0055	0.0007	0.0001	0.0001	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/4/2022	0.0001	0.0001	0.0084	0.0020	0.0000	0.9831	0.0056	0.0005	0.0001	0.0001	TRACE	TRACE	TRACE	0.0000
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/3/2022	0.0000	0.0001	0.0094	0.0018	0.0000	0.9818	0.0055	0.0007	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/1/2022	TRACE	0.0001	0.0095	0.0018	0.0000	0.9816	0.0056	0.0007	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/3/2022	TRACE	0.0002	0.0097	0.0021	0.0000	0.9770	0.0073	0.0019	0.0004	0.0005	0.0002	0.0002	0.0002	0.0003
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2022	0.0001	0.0002	0.0101	0.0018	0.0000	0.9805	0.0059	0.0007	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2022	TRACE	0.0002	0.0092	0.0017	0.0000	0.9817	0.0058	0.0008	0.0002	0.0001	0.0001	0.0001	0.0001	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/5/2023	TRACE	0.0001	0.0084	0.0017	0.0000	0.9828	0.0055	0.0007	0.0002	0.0001	0.0001	0.0001	0.0001	0.0002
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/3/2023	TRACE	0.0002	0.0082	0.0017	0	0.9824	0.006	0.0009	0.0002	0.0002	0.0001	TRACE	0.0001	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/2/2023	0.00002	0.00015	0.00926	0.00167	0	0.98111	0.0058	0.001	0.00021	0.00019	0.00009	0.00008	0.00008	0.00013
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/10/2023	0.0001	0.0001	0.0125	0.0017	0	0.979	0.0056	0.0007	0.0002	0.0001	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/2/2023	0.0001	0.0001	0.0118	0.0022	0	0.9752	0.0072	0.0018	0.0003	0.0005	0.0002	0.0002	0.0001	0.0003
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2023	TRACE	0.0001	0.0105	0.0019	0	0.9787	0.0064	0.0013	0.0003	0.0003	0.0001	0.0001	0.0001	0.0002
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/5/2023	TRACE	0.0001	0.0095	0.002	0	0.9799	0.0064	0.0012	0.0002	0.0002	0.0001	0.0001	0.0001	0.0002
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/1/2023	0.00008	0.00014	0.00996	0.00204	0	0.97934	0.00648	0.00116	0.00021	0.00024	0.0001	0.00009	0.00006	0.00003
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/5/2023	TRACE	0.0002	0.0103	0.0018	0	0.9804	0.006	0.0008	0.0002	0.0001	0.0001	0.0001	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/2/2023	0.0001	0.0001	0.0121	0.0015	0	0.9785	0.0063	0.0008	0.0002	0.0001	0.0001	0.0001	0.0001	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/9/2023	0.0001	0.0001	0.0112	0.0021	0	0.9782	0.0064	0.0011	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/6/2023	TRACE	0.0002	0.0121	0.002	0	0.9767	0.0066	0.0014	0.0003	0.0003	0.0001	0.0001	0.0001	0.0001
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/2/2024	TRACE	0.0001	0.01	0.0019	0	0.9797	0.0062	0.0012	0.0002	0.0002	0.0001	0.0001	0.0001	0.0002
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/12/2024	TRACE	0.0001	0.0087	0.0026	0	0.9823	0.0055	0.0006	0.0001	TRACE	TRACE	TRACE	0.0001	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/11/2024	TRACE	0.0002	0.0102	0.0019	0	0.9793	0.0064	0.0012	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/3/2024	0.0001	0.0001	0.0091	0.002	0	0.9817	0.0062	0.0006	0.0001	0.0001	TRACE	TRACE	TRACE	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/1/2024	TRACE	0.0002	0.0093	0.0022	0	0.9803	0.0062	0.001	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/3/2024	0.00009	0.00011	0.00803	0.00205	0	0.98346	0.00529	0.0006	0.00013	0.00006	0.00006	0.00003	0.00003	0.00003
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/2/2024	TRACE	0.0001	0.0086	0.0022	0	0.9805	0.0065	0.0012	0.0002	0.0003	0.0001	0.0001	0.0001	0.0001
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/1/2024	0.0004	0.0001	0.008	0.0021	0	0.9815	0.0062	0.0011	0.0002	0.0002	0.0001	TRACE	0.0001	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/3/2024	TRACE	0.0001	0.0084	0.0021	0	0.9812	0.0064	0.0011	0.0002	0.0002	0.0001	0.0001	0.0001	TRACE
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/1/2024	0.0001	0.0001	0.008	0.0021	0	0.9827	0.0061	0.0006	0.0001	0.0001	0.0001	TRACE	TRACE	0
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/7/2024	TRACE	0.0001	0.0039	0.0031	0	0.9821	0.0089	0.0008	0.0003	0.0003	0.0001	0.0001	0.0001	0.0002
04-15-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/3/2024	0.0001	0.0002	0.0098	0.002	0	0.979	0.0067	0.0012	0.0003	0.0003	0.0001	0.0001	0.0001	0.0001
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/25/2019	TRACE	0.0002	0.0082	0.0021	0.0000	0.9842	0.0048	0.0004	0.0001	TRACE	TRACE	TRACE	0.0000	0.0000
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/1/2019	0.0000	0.0001	0.0086	0.0014	0.0000	0.9836	0.0049	0.0009	0.0002	0.0000	0.0000	0.0000	0.0000	0.0001
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2019	0.0026	0.0002	0.0119	0.0030	0.0000	0.9764	0.0051	0.0006	0.0001	0.0001	TRACE	TRACE	TRACE	0.0000
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/7/2020	0.0001	0.0002	0.0101	0.0019	0.0000	0.9818	0.0050	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/3/2020	0.0000	0.0003	0.0147	0.0022	0.0000	0.9759	0.0046	0.0006	0.0002	0.0001	0.0001	0.0001	0.0002	0.0010
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/17/2020	0.0002	0.0001	0.0178	0.0019	0.0000	0.9746	0.0048	0.0004	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/1/2020	0.0008	0.0001	0.0086	0.0017	0.0000	0.9828	0.0051	0.0005	0.0001	0.0001	0.0001	0.0000	0.0001	0.0001
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/1/2020	0.0003	0.0001	0.0097	0.0016	0.0000	0.9817	0.0050	0.0006	0.0001	0.0001	0.0000	0.0001	0.0001	0.0008
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/12/2020	0.0000	0.0001	0.0135	0.0023	0.0000	0.9782	0.0047	0.0005	0.0003	0.0003	0.0001	0.0000	0.0000	0.0000
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2020	0.0005	0.0001	0.0087	0.0014	0.0000	0.9837	0.0050	0.0005	0.0001	TRACE	TRACE	TRACE	0.0000	0.0000
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/2/2020	0.0004	0.0001	0.0117	0.0031	0.0000	0.9755	0.0053	0.0008	0.0002	0.0003	0.0002	0.0002	0.0004	0.0019
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/6/2020	0.0002	0.0001	0.0122	0.0020	0.0000	0.9797	0.0049	0.0005	0.0002	0.0000	0.0000	0.0000	0.0000	0.0002
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/1/2020	0.0000	0.0001	0.0111	0.0019	0.0000	0.9795	0.0051	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0015
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/2/2020	0.0009	0.0002	0.0150	0.0020	0.0000	0.9751	0.0048	0.0006	0.0002	0.0002	0.0002	0.0002	0.0003	0.0005
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2020	0.0001	0.0001	0.0083	0.0026	0.0000	0.9831	0.0049	0.0005	0.0001	0.0000	0.0000	0.0000	0.0001	0.0002
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2020	0.0002	0.0002	0.0192	0.0021	0.0000	0.9722	0.0049	0.0005	0.0001	0.0001	0.0000	0.0001	0.0001	0.0003
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/7/2021	0.0001	0.0001	0.0092	0.0018	0.0000	0.9831	0.0051	0.0004	0.0001	0.0000	0.0000	0.0000	0.0000	0.0001
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/1/2021	0.0000	0.0002	0.0095	0.0022	0.0000	0.9824	0.0050	0.0005	0.0001	0.0000	0.0000	0.0000	0.0000	0.0001
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/1/2021	0.0001	0.0001	0.0079	0.0026	0.0000	0.9829	0.0051	0.0004	0.0001	0.0001	0.0001	0.0000	0.0001	0.0005
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/12/2021	0.0003	0.0001	0.0077	0.0033	0.0000	0.9816	0.0050	0.0005	0.0001	0.0001	0.0000	0.0000	0.0001	0.0012
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/4/2021	0.0001	0.0001	0.0093	0.0018	0.0000	0.9825	0.0052	0.0005	0.0001	0.0001	0.0000	0.0000	0.0001	0.0002
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2021	0.0000	0.0001	0.0134	0.0034	0.0000	0.9744	0.0051	0.0007	0.0002	0.0002	0.0002	0.0002	0.0003	0.0020
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/2/2021	0.0004	0.0001	0.0079	0.0023	0.0000	0.9836	0.0051	0.0005	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/4/2021	0.0000	0.0001	0.0080	0.0030	0.0000	0.9827	0.0051	0.0005	0.0001	0.0001	0.0000	0.0000	0.0001	0.0002
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/2/2021	0.0005	0.0001	0.0209	0.0033	0.0000	0.9688	0.0050	0.0006	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/4/2021	0.0002	0.0001	0.0208	0.0036	0.0000	0.9679	0.0051	0.0008	0.0002	0.0004	0.0002	0.0002	0.0003	0.0004
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/1/2021	0.0011	0.0001	0.0121	0.0033	0.0000	0.9748	0.0048	0.0004	0.0001	0.0001	0.0001	0.0001	0.0002	0.0029
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2021	0.0000	0.0001	0.0077	0.0018	0.0000	0.9846	0.0052	0.0005	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/17/2022	0.0001	0.0001	0.0066	0.0019	0.0000	0.9854	0.0052	0.0006	0.0001	TRACE	TRACE	TRACE	0.0000	0.0000
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/9/2022	0.0008	0.0001	0.0076	0.0024	0.0000	0.9821	0.0052	0.0006	0.0002	0.0002	0.0001	0.0001	0.0002	0.0006
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/7/2022	0.0018	0.0001	0.0062	0.0039	0.0000	0.9822	0.0052	0.0005	0.0001	0.0000	0.0000	0.0000	0.0000	0.0001
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/5/2022	0.0001	0.0001	0.0168	0.0024	0.0000	0.9739	0.0051	0.0006	0.0001	0.0001	0.0001	0.0001	0.0001	0.0007

10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/3/2022	0.0000	0.0001	0.0130	0.0016	0.0000	0.9790	0.0051	0.0005	0.0001	0.0000	0.0000	0.0000	0.0000	0.0004
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/13/2022	0.0000	0.0001	0.0138	0.0016	0.0000	0.9788	0.0050	0.0005	0.0001	0.0000	0.0000	0.0000	0.0000	0.0001
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2022	0.0000	0.0001	0.0123	0.0018	0.0000	0.9792	0.0053	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0003
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/4/2022	0.0000	0.0001	0.0122	0.0017	0.0000	0.9799	0.0052	0.0005	0.0001	0.0000	0.0000	0.0000	0.0000	0.0003
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/3/2022	0.0001	0.0001	0.0142	0.0016	0.0000	0.9779	0.0052	0.0005	0.0001	0.0000	0.0000	0.0000	0.0000	0.0003
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/1/2022	0.0001	0.0001	0.0006	0.0016	0.0000	0.9920	0.0051	0.0005	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/3/2022	0.0002	0.0001	0.0114	0.0025	0.0000	0.9797	0.0051	0.0005	0.0001	0.0000	0.0000	0.0000	0.0000	0.0004
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2022	0.0000	0.0001	0.0106	0.0019	0.0000	0.9812	0.0051	0.0005	0.0001	0.0001	0.0000	0.0001	0.0001	0.0003
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/20/2023	0.0023	0.0001	0.0074	0.003	0	0.9806	0.0051	0.0005	0.0001	0.0001	0.0001	0.0001	0.0002	0.0004
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/17/2023	0.0003	0.0001	0.0095	0.0027	0	0.981	0.0052	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/13/2023	0.0001	0.0001	0.0071	0.0019	0	0.9842	0.0051	0.0008	0.0002	0.0001	0.0001	TRACE	TRACE	0.0003
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/10/2023	0.0001	0.0001	0.0012	0.0021	0	0.9889	0.0052	0.0005	0.0001	TRACE	TRACE	0.0001	0.0003	0.0014
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/2/2023	0.0001	0.0001	0.0085	0.0018	0	0.9839	0.005	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	0
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2023	0.0001	0.0001	0.0077	0.002	0	0.9836	0.0052	0.0004	0.0001	0.0001	0.0001	0.0001	0.0001	0.0004
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/5/2023	TRACE	0.0001	0.0084	0.0026	0	0.9822	0.0053	0.0008	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/1/2023	0.00013	0.00007	0.00242	0.00188	0	0.98148	0.00626	0.00354	0.00052	0.00158	0.00047	0.0007	0.00034	0.00019
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/5/2023	0.0001	0.0001	0.0145	0.0021	0	0.9761	0.0054	0.0006	0.0001	0.0001	0.0001	0.0001	0.0002	0.0005
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/2/2023	TRACE	0.0001	0.0087	0.0018	0	0.9833	0.0052	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	0.0003
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/9/2023	0	0.0001	0.0035	0.0025	0	0.9877	0.0053	0	0	0	0	0.0002	0.0002	0.0005
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/6/2023	0.0001	0.0002	0.0356	0.0017	0	0.9565	0.0049	0.0005	0.0001	0.0001	TRACE	TRACE	0.0001	0.0002
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/2/2024	0.0002	0.0001	0.0226	0.0023	0	0.9688	0.0051	0.0005	0.0001	0.0001	TRACE	0.0001	0.0001	TRACE
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/13/2024	0.0001	0.0001	0.0097	0.0043	0	0.9799	0.005	0.0006	0.0001	0.0001	TRACE	0.0001	0	0
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/19/2024	TRACE	TRACE	0.0011	0.008	0	0.9793	0.0056	0.001	0.0005	0.001	0.0003	0.0004	0.0006	0.0022
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/3/2024	0.00098	0.00009	0.02015	0.00741	0	0.96069	0.0055	0.00113	0.00029	0.00048	0.00046	0.00031	0.00072	0.00035
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/3/2024	0.00019	0.00013	0.01814	0.00178	0	0.97336	0.00509	0.00051	0.00011	0.00006	0.00004	0.00006	0.00011	0.00007
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/7/2024	0.00007	0.00018	0.0541	0.00368	0	0.94017	0.0018	0	0	0	0	0	0	0
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/2/2024	0.00004	0.0001	0.00992	0.0024	0	0.98118	0.00539	0.00052	0.00011	0.00007	0.00004	0.00004	0.00004	0.00004
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/1/2024	0.00019	0.0001	0.00856	0.0026	0	0.98224	0.00548	0.00039	0.00009	0.00003	0.00003	0.00002	0.00006	0.00005
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/7/2024	0.00086	0.0001	0.01517	0.00342	0	0.97394	0.00537	0.00039	0.00012	0.00013	0.00007	0.00008	0.0001	0.00005
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/3/2024	0.00002	0.00011	0.00815	0.00199	0	0.98232	0.00545	0.00082	0.00017	0.00023	0.00009	0.0001	0.00017	0.00012
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/1/2024	0.00338	0.00014	0.01971	0.00862	0	0.96152	0.00522	0.00058	0.00014	0.00006	0.00006	0.00003	0.00008	0.00007
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/7/2024	0.00005	0.00013	0.00322	0.00125	0	0.98991	0.00501	0.00025	0.00009	0.00003	0.00003	0.00002	0.00001	0
10-34-039-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/3/2024	0.00002	0.0001	0.00354	0.00149	0	0.98579	0.00518	0.00052	0.00012	0.00014	0.00009	0.00019	0.00069	0.00102
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/7/2021	0.0003	0.0002	0.0136	0.0025	0.0000	0.9736	0.0048	0.0005	0.0001	0.0001	TRACE	0.0001	0.0003	0.0039
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/1/2021	0.0001	0.0002	0.0105	0.0017	0.0000	0.9768	0.0047	0.0006	0.0002	0.0002	0.0001	0.0001	0.0003	0.0045
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/12/2021	0.0002	0.0002	0.0106	0.0020	0.0000	0.9804	0.0050	0.0009	0.0002	0.0001	0.0001	0.0001	0.0001	0.0002
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/4/2021	0.0001	0.0002	0.0082	0.0019	0.0000	0.9837	0.0050	0.0005	0.0001	TRACE	TRACE	TRACE	0.0001	0.0002
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2021	0.0001	0.0002	0.0099	0.0022	0.0000	0.9821	0.0048	0.0005	0.0001	TRACE	TRACE	TRACE	TRACE	0.0001
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/2/2021	TRACE	0.0002	0.0126	0.0043	0.0000	0.9770	0.0048	0.0002	0.0001	0.0001	TRACE	TRACE	0.0001	0.0006
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/4/2021	0.0000	0.0002	0.0122	0.0020	0.0000	0.9796	0.0048	0.0005	0.0002	0.0004	0.0001	TRACE	TRACE	TRACE
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/2/2021	0.0000	0.0002	0.0102	0.0018	0.0000	0.9797	0.0048	0.0004	0.0001	0.0000	0.0000	0.0001	0.0001	0.0025
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/4/2021	0.0007	0.0002	0.0284	0.0014	0.0000	0.9617	0.0049	0.0005	0.0001	0.0001	0.0001	0.0001	0.0003	0.0015
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/1/2021	0.0001	0.0002	0.0148	0.0023	0.0000	0.9768	0.0050	0.0006	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2021	TRACE	0.0002	0.0162	0.0011	0.0000	0.9771	0.0048	0.0004	0.0001	0.0001	TRACE	TRACE	TRACE	TRACE
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/17/2022	0.0001	0.0002	0.0118	0.0023	0.0000	0.9783	0.0052	0.0006	0.0002	0.0001	0.0001	0.0001	0.0002	0.0008
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/9/2022	0.0000	0.0002	0.0128	0.0062	0.0000	0.9733	0.0047	0.0004	0.0001	TRACE	TRACE	TRACE	0.0001	0.0022
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/7/2022	0.0004	0.0002	0.0200	0.0025	0.0000	0.9709	0.0050	0.0005	0.0002	0.0001	0.0001	TRACE	TRACE	0.0001
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/5/2022	0.0003	0.0002	0.0314	0.0023	0.0000	0.9599	0.0047	0.0005	0.0001	0.0001	0.0000	0.0000	0.0001	0.0005
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/3/2022	0.0000	0.0002	0.0210	0.0023	0.0000	0.9698	0.0047	0.0005	0.0002	0.0002	0.0001	0.0001	0.0002	0.0007
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/26/2022	0.0003	0.0002	0.0187	0.0022	0.0000	0.9734	0.0045	0.0005	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2022	0.0000	0.0002	0.0140	0.0019	0.0000	0.9784	0.0047	0.0004	0.0002	0.0000	0.0000	0.0000	0.0000	0.0003
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/4/2022	0.0000	0.0002	0.0165	0.0021	0.0000	0.9758	0.0047	0.0004	0.0001	0.0000	0.0000	0.0000	0.0000	0.0002
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/3/2022	TRACE	0.0002	0.0207	0.0019	0.0000	0.9713	0.0048	0.0005	0.0001	TRACE	TRACE	TRACE	0.0001	0.0004
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/1/2022	0.0001	0.0002	0.0172	0.0020	0.0000	0.9744	0.0051	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/3/2022	0.0001	0.0002	0.0180	0.0021	0.0000	0.9735	0.0051	0.0004	0.0001	TRACE	0.0001	0.0001	0.0001	0.0002
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2022	0.0004	0.0002	0.0155	0.0020	0.0000	0.9751	0.0057	0.0007	0.0002	0.0001	TRACE	TRACE	TRACE	0.0001
12-12-040-24W4	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2022	0.0002	0.0003	0.0176	0.0022	0.0000	0.9726	0.0057	0.0007	0.0002	0.0001	0.0001	TRACE	0.0001	0.0002


CBM Gas Composition Concentrations
CO2 / H2S (Mole Fraction)
Methane (Mole Fraction)
0.020
0.015
0.010
0.005
0.000
1.00
0.99
0.98
0.97
0.96
0.95
0.94
0.93
0.92
0.91
0.90
4/1/2019
10/1/2019
4/1/2020
10/1/2020
4/2/2021
10/2/2021
4/3/2022
10/3/2022
4/4/2023
10/4/2023
04-15 CO2
10-34 CO2
12-12 CO2
04-15 H2S
10-34 H2S
12-12 H2S
04-15 C1
10-34 C1
12-12 C1

Gas Analysis (Mole Fraction)

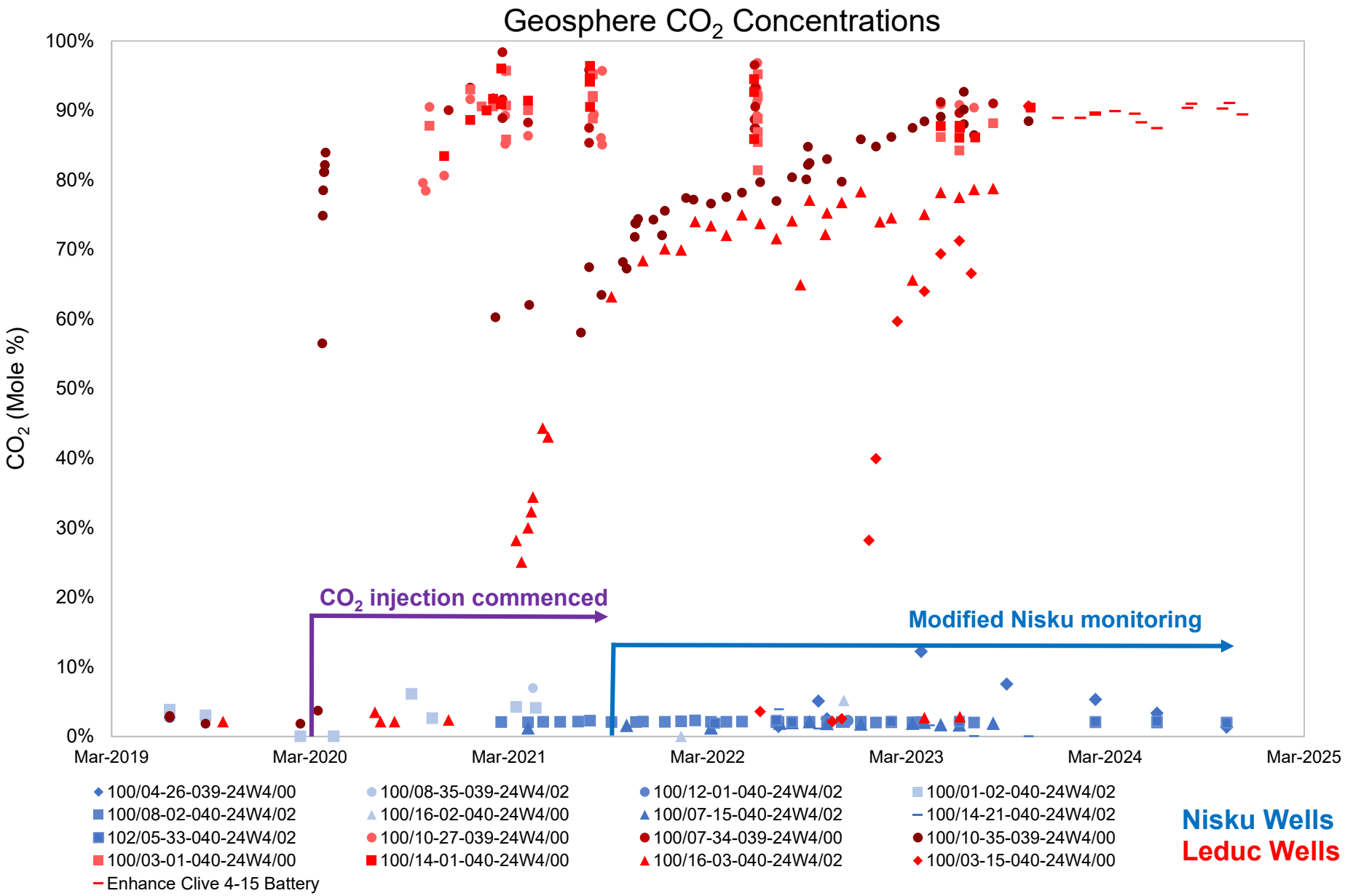
SOURCE LOCATION	OPERATOR NAME	FIELD	SAMPLER NAME	DATE SAMPLED	H2	He	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23	C24	C25	C26	C27	C28	C29	C30	BZ	TOL	EB	MPXYL	TMB	CC5	MCC5	CC6	MCC6	CHYL	KB	GRD	Interval_1_Top	Interval_1_Bottom	Interval_2_Top	Interval_2_Bottom	Interval_3_Top	Interval_3_Bottom	TEST_TYPE	TEST_RECOVERY	GASPUZZWARE	ANALYSTS
100/14-16-039-21W6/03	ENHANCE ENERGY INC	CLIVE	ASAT RESIDEER	8/1/2023	0.00769	0.00056	0.00412	0.00249	0.0015	0.65167	0.12776	0.0595	0.01414	0.00596	0.00213	0.0031	0.00212	0.00314	0.00316	0.00107	0.0021	0.00312	0	0	0


Mannville Gas Composition Concentrations
CO2 / H2S (Mole Fraction)
Methane (Mole Fraction)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0.91
0.91
0.90
0.90
0.90
0.90
0.90
4/1/2019
10/1/2019
4/1/2020
10/1/2020
4/2/2021
10/2/2021
4/3/2022
10/3/2022
4/4/2023
10/4/2023
16-34 CO2
13-34 CO2
14-02 CO2
16-34 H2S
13-34 H2S
14-02 H2S
16-34 C1
13-34 C1
14-02 C1

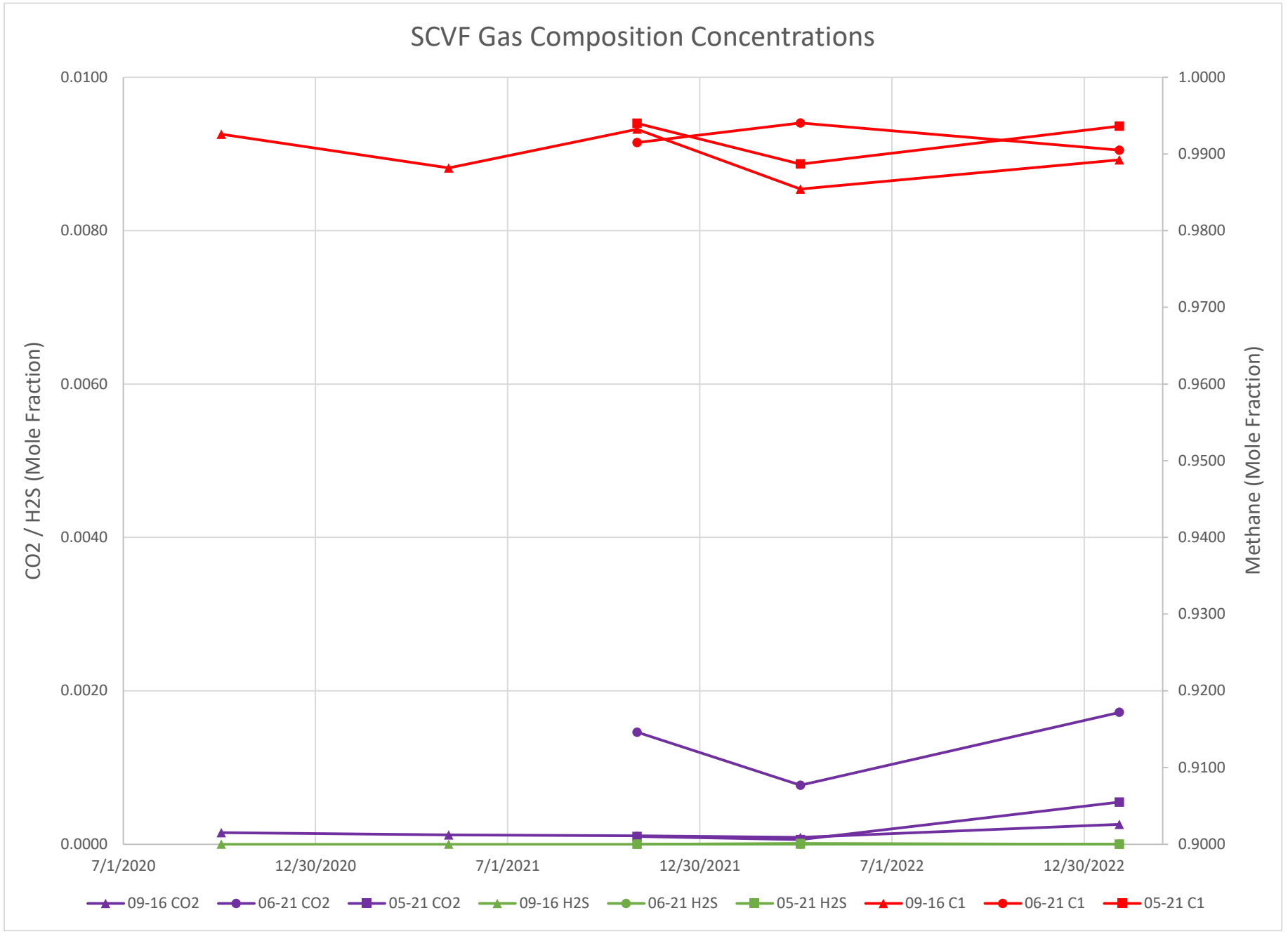
					Gas Analysis (Mole Fraction)												
SOURCE LOCATION	OPERATOR NAME	FIELD	SAMPLER NAME	DATE SAMPLED	H2	He	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7+
100/01-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/16/2019	0.0001	0.0005	0.0434	0.0375	0.1373	0.6300	0.0803	0.0407	0.0047	0.0114	0.0028	0.0035	0.0030	0.0048
100/01-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/16/2019	0.0014	0.0005	0.0491	0.0381	0.1373	0.6273	0.0783	0.0391	0.0041	0.0097	0.0021	0.0026	0.0038	0.0067
100/01-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/20/2019	0.0005	0.0004	0.0560	0.0301	0.1023	0.6930	0.0714	0.0321	0.0032	0.0071	0.0013	0.0013	0.0007	0.0007
100/01-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/12/2020	0.0004	0.0000	0.0648	0.0001	0.0000	0.7284	0.1288	0.0603	0.0056	0.0099	0.0004	0.0003	0.0003	0.0007
100/01-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/12/2020	0.0023	0.0005	0.0761	0.0001	0.0000	0.7677	0.0775	0.0423	0.0053	0.0121	0.0026	0.0029	0.0042	0.0065
100/01-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/2/2020	0.0331	0.0000	0.0077	0.0609	TRACE	0.3859	0.2104	0.1789	0.0250	0.0592	0.0119	0.0125	0.0064	0.0081
100/01-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/9/2020	0.0297	0.0000	0.4459	0.0263	0.0004	0.2752	0.1177	0.0721	0.0084	0.0179	0.0027	0.0023	0.0007	0.0008
100/01-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/12/2021	0.0605	0.0000	0.0072	0.0423	0.0787	0.3153	0.2028	0.1825	0.0255	0.0586	0.0104	0.0100	0.0039	0.0023
100/01-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/18/2021	0.0311	TRACE	0.0123	0.0408	0.1064	0.3829	0.1842	0.1591	0.0207	0.0449	0.0069	0.0068	0.0026	0.0013
100/04-26-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/7/2020	0.0007	0.0005	0.0191	0.0017	0.0000	0.9703	0.0058	0.0013	0.0003	0.0002	0.0001	0.0001	0.0001	0.0001
100/04-26-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/12/2020	0.0003	0.0000	0.9268	0.0025	0.0000	0.0346	0.0010	0.0039	0.0022	0.0069	0.0032	0.0041	0.0044	0.0102
100/04-26-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT/CALGARY	5/10/2021	0.0020	0.0000	0.9901	0.0010	0.0000	0.0005	0.0002	0.0005	0.0002	0.0008	0.0006	0.0008	0.0010	0.0023
100/04-26-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2021	0.0409	0.0001	0.7202	0.0006	0.0000	0.1753	0.0206	0.0200	0.0035	0.0089	0.0018	0.0020	0.0025	0.0036
100/04-26-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/27/2021	0.0001	0.0000	0.0082	0.0558	0.0001	0.0080	0.0190	0.0334	0.0170	0.0618	0.0436	0.0625	0.0931	0.5975
100/04-26-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/7/2022	0.0025	0.0000	0.0695	0.0140	0.0001	0.1925	0.0264	0.0361	0.0105	0.0363	0.0290	0.0448	0.0769	0.4531
100/04-26-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/19/2022	0.0006	0.0002	0.0471	0.0508	0.3851	0.3642	0.0415	0.0447	0.0098	0.0269	0.0082	0.0088	0.0040	0.0075
100/04-26-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2022	0.0042	0.0000	0.5327	0.0253	0.0000	0.0885	0.0153	0.0374	0.0129	0.0485	0.0304	0.0421	0.0485	0.1142
100/04-26-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/26/2023	0.00214	0	0.0838	0.122	0.00247	0.27476	0.03847	0.06274	0.0252	0.10769	0.06342	0.09167	0.05261	0.02315
100/04-26-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/30/2023	0.007	0.0002	0.0207	0.0751	0.4116	0.399	0.04	0.0237	0.0037	0.0093	0.0027	0.0032	0.0018	0.002
100/04-26-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/11/2024	0.46362	0.00029	0.12501	0.05314	0	0.25502	0.02614	0.02579	0.00722	0.02349	0.00749	0.00764	0.00259	0.00068
100/04-26-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/2/2024	0.2979	0.0002	0.1616	0.0333	0	0.3857	0.0338	0.0279	0.0076	0.0253	0.0098	0.0101	0.0046	0.0022
100/04-26-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/2/2024	0.2979	0.0002	0.1616	0.0333	0	0.3857	0.0338	0.0279	0.0076	0.0253	0.0098	0.0101	0.0046	0.0022
100/04-26-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/7/2024	0.3026	0.0003	0.1129	0.0132	0	0.4452	0.0374	0.0283	0.0072	0.0238	0.0101	0.0118	0.0052	0.002
100/04-26-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/11/2024	0.46362	0.00029	0.12501	0.05314	0	0.25502	0.02614	0.02579	0.00722	0.02349	0.00749	0.00764	0.00259	0.00068
100/07-15-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/4/2021	0.0005	0.0011	0.1113	0.0120	0.0412	0.7068	0.0734	0.0322	0.0036	0.0082	0.0020	0.0026	0.0022	0.0029
100/07-15-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/1/2021	0.0004	0.0008	0.0691	0.0157	0.0631	0.6685	0.1036	0.0545	0.0056	0.0126	0.0020	0.0021	0.0009	0.0011
100/07-15-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/5/2022	0.0001	0.0011	0.0986	0.0123	0.0300	0.7192	0.0775	0.0375	0.0045	0.0107	0.0025	0.0029	0.0016	0.0015
100/07-15-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/5/2022	0.0017	0.0011	0.1002	0.0125	0.0334	0.7167	0.0768	0.0365	0.0042	0.0099	0.0021	0.0024	0.0011	0.0012
100/07-15-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/9/2022	0.0001	0.0007	0.0632	0.0187	0.0820	0.6338	0.1039	0.0625	0.0074	0.0173	0.0033	0.0035	0.0016	0.0017
100/07-15-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/1/2022	0.0002	0.0008	0.0608	0.0197	0.0836	0.6469	0.0874	0.0621	0.0088	0.0190	0.0034	0.0037	0.0018	0.0018
100/07-15-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/3/2022	TRACE	0.0007	0.0579	0.0211	0.1042	0.6307	0.0938	0.0552	0.0072	0.0177	0.0037	0.0041	0.0021	0.0016
100/07-15-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2022	0.0043	0.0007	0.0596	0.0186	0.0843	0.6529	0.0907	0.0536	0.0070	0.0169	0.0034	0.0038	0.0019	0.0023
100/07-15-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/5/2023	TRACE	0.0006	0.1509	0.0179	0.082	0.5645	0.095	0.0577	0.007	0.0158	0.0028	0.0031	0.0014	0.0013
100/07-15-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/10/2023	0.00004	0.00065	0.10174	0.01895	0.09324	0.59697	0.09358	0.05739	0.00752	0.01776	0.00365	0.00416	0.00145	0.0008
100/07-15-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/2/2023	0.0002	0.0006	0.0549	0.0203	0.0929	0.6277	0.1011	0.0618	0.0079	0.0192	0.0039	0.0044	0.0025	0.0026
100/07-15-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2023	0.0001	0.0005	0.0486	0.0168	0.0584	0.6834	0.111	0.0559	0.0058	0.0132	0.0022	0.0023	0.001	0.0008
100/07-15-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/5/2023	TRACE	0.0008	0.0665	0.0164	0.0587	0.6791	0.0984	0.0523	0.006	0.0137	0.0026	0.0028	0.0015	0.0012
100/07-15-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/5/2023	TRACE	0.0008	0.0662	0.0188	0.0791	0.6512	0.0965	0.056	0.007	0.0165	0.0031	0.0033	0.0009	0.0006
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/16/2021	0.0120	0.0014	0.1085	0.0205	0.0252	0.7651	0.0469	0.0115	0.0012	0.0040	0.0011	0.0013	0.0008	0.0005
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/4/2021	0.0002	0.0012	0.1180	0.0203	0.0651	0.6939	0.0514	0.0276	0.0038	0.0092	0.0024	0.0026	0.0022	0.0021
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2021	0.0004	0.0013	0.1005	0.0207	0.0520	0.7445	0.0488	0.0192	0.0019	0.0050	0.0015	0.0018	0.0015	0.0009
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/2/2021	0.0008	0.0013	0.1037	0.0208	0.0504	0.7446	0.0492	0.0171	0.0018	0.0051	0.0015	0.0018	0.0012	0.0007
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/4/2021	0.0002	0.0014	0.1092	0.0214	0.0437	0.7413	0.0494	0.0169	0.0017	0.0054	0.0016	0.0022	0.0024	0.0033
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/26/2021	0.0008	0.0013	0.1076	0.0226	0.0413	0.7146	0.0525	0.0278	0.0041	0.0104	0.0028	0.0035	0.0035	0.0073
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/4/2021	0.0001	0.0012	0.0998	0.0204	0.0586	0.7373	0.0500	0.0199	0.0024	0.0059	0.0012	0.0013	0.0007	0.0012
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/18/2021	0.0002	0.0013	0.1034	0.0205	0.0663	0.7160	0.0524	0.0249	0.0028	0.0068	0.0020	0.0021	0.0008	0.0006
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2021	0.0002	0.0011	0.0919	0.0211	0.0734	0.7132	0.0548	0.0281	0.0034	0.0074	0.0018	0.0020	0.0009	0.0007
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/10/2022	0.0001	0.0012	0.1070	0.0210	0.0660	0.7193	0.0525	0.0230	0.0023	0.0048	0.0009	0.0010	0.0005	0.0004
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/9/2022	0.0001	0.0012	0.0968	0.0214	0.0736	0.7172	0.0528	0.0249	0.0026	0.0055	0.0011	0.0013	0.0007	0.0008
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/7/2022	0.0006	0.0012	0.0937	0.0230	0.0612	0.7316	0.0524	0.0241	0.0029	0.0060	0.0012	0.0014	0.0005	0.0002
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/5/2022	0.0001	0.0012	0.0944	0.0209	0.0701	0.7227	0.0518	0.0249	0.0030	0.0064	0.0015	0.0017	0.0007	0.0006
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/3/2022	0.0002	0.0012	0.0972	0.0210	0.0693	0.7214	0.0516	0.0239	0.0029	0.0062	0.0016	0.0017	0.0008	0.0010
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2022	0.0001	0.0014	0.1071	0.0212	0.0352	0.7418	0.0537	0.0249	0.0029	0.0065	0.0017	0.0020	0.0008	0.0007
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/3/2022	0.0001	0.0012	0.1081	0.0203	0.0632	0.7185	0.0510	0.0235	0.0027	0.0061	0.0016	0.0020	0.0010	0.0007
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/7/2022	0.0001	0.0013	0.1117	0.0205	0.0679	0.6945	0.0504	0.0256	0.0036	0.0094	0.0030	0.0038	0.0026	0.0053
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/1/2022	0.0001	0.0012	0.0945	0.0208	0.0655	0.7262	0.0515	0.0243	0.0031	0.0076	0.0016	0.0017	0.0010	0.0009
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/3/2022	TRACE	0.0012	0.0981	0.0209	0.0679	0.7163	0.0527	0.0246	0.0032	0.0083	0.0019	0.0021	0.0013	0.0015
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2022	0.0001	0.0012	0.0965	0.0212	0.0520	0.7407	0.0513	0.0226	0.0029	0.0074	0.0014	0.0015	0.0006	0.0006
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2022	0.0001	0.0012	0.0991	0.0210	0.0706	0.7277	0.0496	0.0206	0.0021	0.0053	0.0008	0.0008	0.0004	0.0007
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/5/2022	0.0003	0.0013	0.1032	0.0207	0.0619	0.7164	0.0522	0.0256	0.0035	0.0085	0.0021	0.0023	0.0012	0.0008
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/5/2023	0.0012	0.0012	0.0983	0.0207	0.0519	0.7387	0.0518	0.0221	0.0065	0.0050	0.0009	0.0011	0.0003	0.0003
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/2/2023	0.0009	0.0013	0.1187	0.0198	0.054	0.7222	0.0493	0.0225	0.0021	0.005	0.001	0.0011	0.0008	0.0013
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/2/2023	0.00022	0.00129	0.10519	0.02015	0.06082	0.72332	0.0508	0.02299	0.00262	0.00619	0.00136	0.00156	0.00128	0.00058
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/10/2023	0.00014	0.00129	0.10549	0.02019	0.06128	0.72561	0.05084	0.02271	0.00266	0.00598	0.00119	0.00119	0.00067	0.00022
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/25/2023	0.00003	0.00126	0.10499	0.02064	0.06088	0.70926	0.05226	0.02673	0.00374	0.00955	0.00268	0.00328	0.00167	0.00102
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/1/2023	0.0001	0.0012	0.1	0.0199	0.0647	0.727	0.0506	0.0231	0.0028	0.0066	0.0014	0.0014	0.0007	0.0005
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/11/2024	0.0001	0.0013	0.105	0.0201	0.0624	0.7312	0.0475	0.0208	0.0026	0.0051	0.0011	0.0012	0.0007	0.0009
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/7/2024	0.0001	0.0012	0.0995	0.02	0.0644	0.7249	0.0514	0.0233	0.0026	0.0059	0.0016	0.002	0.0019	0.0012
100/08-02-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/2/2024	0.00033	0.00135	0.10726	0.01999	0.0652	0.72636	0.04921	0.0207	0.00159	0.00479	0.00108	0.00121	0.00045	0.00013
100/08-35-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/13/2021	0.0311	0.0004	0.0363	0.0693	0.2843	0.4069	0.0710	0.0727	0.0073	0.0151	0.0023	0.0021	0.0005	0.0007
100/12-01-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/16/2019	0.0005	0.0004	0.0545	0.0276	0.0858	0.7117	0.0746	0.0272	0.0030	0.0069	0.0018	0.0024	0.0016	0.0021
100/12-01-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/20/2019	0.0007	0.0002	0.0485	0.0261	0.0891	0.7165	0.0762	0.0276	0.0031	0.0073	0.0017	0.0018	0.0009	0.0004
100/12-01-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/12/2022	0.0078	0.0003	0.0644	0.0225	0.0032	0.7745	0.0787	0.0334	0.0036	0.0081	0.0014	0.0013	0.0004	0.0004
100/16-02-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/16/2019	0.0052	0.0002	0.0369	0.0309	0.0462	0.7487	0.0998	0.0046	0.0004	0.0068	0.0059	0.0078	0.0016	0.0050
100/16-02-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/9/2022	0.0149	0.0009	0.1314	0.0001	0.0000	0.7240	0.0745	0.0371	0.0046	0.0106	0.0012	0.0006	0.0001	0.0002
100/16-02-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/5/2022	0.0039	0.0002	0.0189	0.0517	0.0000	0.6090	0.1756	0.0996	0.0098	0.0163	0.0033	0.0042	0.0039	0.0033
102/05-33-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/12/2022	0.0007	0.0003	0.0514	0.0188	0.0405	0.7358	0.0972	0.0415	0.0040	0.0080	0.0011	0.0007	0.0000	0.0001
102/05-33-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/3/2022	0.0003	0.0003	0.0351	0.0229	0.0551	0.6521	0.1385	0.0672	0.0064	0.0140	0.0029	0.0033	0.0015	0.0004
102/05-33-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/1/2022	0.0006	0.0002	0.0397	0.0206	0.0392	0.7486	0.1050	0.0376	0.0028	0.0048	0.0004	0.0004	0.0001	TRACE
102/05-33-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/2/2023	0.00008	0.00015	0.03464	0.02162	0.05136	0.68754	0.12461	0.05824	0.00566	0.01197	0.00155	0.00163	0.00034	0.00001
102/05-33-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/5/2023	0.0002	0.0001	0.0317	0.0215	0.0519	0.6867	0.123	0.0587	0.006	0.0138	0.0025	0.0027	0.0004	0.0008
102/05-33-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/11/2024	0.0002	0.0002	0.0368	0.0213	0.0519	0.6924	0.1252	0.0556	0.005	0.0096	0.0008	0.0005	TRACE	0.0005
102/05-33-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/7/2024	0.0001	0.0002	0.0401	0.0193	0.0426	0.7265	0.1074	0.0481	0.0049	0.0089	0.001	0.0008	0.0001	0
102/05-33-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/2/2024	0.00018	0.00014	0.0334	0.02184	0.04004	0.68517	0.12555	0.06656	0.00737	0.01456	0.00164	0.00142	0.00001	0.00001
100/14-21-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/8/2022	0.0088	0.0000	0.0127	0.0388	0.1368	0.2953	0.1816	0.1981	0.0285	0.0643	0.0121	0.0139	0.0043	0.0037
100/14-21-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/19/2022	0.0002	0.0000	0.0052	0.0112	0.1031	0.4780	0.1207	0.1698	0.0286	0.0593	0.0085	0.0084	0.0025	0.0037

					Gas Analysis (Mole Fraction)													
SOURCE LOCATION	OPERATOR NAME	FIELD	SAMPLER NAME	DATE SAMPLED	H2	He	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7+
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2020	0.0028	TRACE	0.0013	0.8780	0.0693	0.0294	0.0048	0.0050	0.0010	0.0032	0.0011	0.0015	0.0012	0.0014
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/18/2021	0.0060	TRACE	0.0004	0.9304	0.0164	0.0340	0.0043	0.0034	0.0006	0.0016	0.0005	0.0007	0.0006	0.0011
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/8/2021	0.0064	TRACE	0.0086	0.9057	0.0147	0.0458	0.0063	0.0053	0.0009	0.0026	0.0008	0.0010	0.0007	0.0012
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/1/2021	0.0066	TRACE	0.0058	0.9058	0.0152	0.0459	0.0062	0.0051	0.0009	0.0027	0.0008	0.0011	0.0009	0.0030
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/25/2021	0.0081	0.0000	0.0063	0.9071	0.0153	0.0471	0.0061	0.0049	0.0007	0.0021	0.0006	0.0007	0.0004	0.0007
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/25/2021	0.0005	0.0000	0.0024	0.9575	0.0234	0.0010	0.0001	0.0003	0.0021	0.0067	0.0005	0.0007	0.0016	0.0031
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/25/2021	0.0004	0.0000	0.0012	0.8582	0.0062	0.0134	0.0072	0.0154	0.0230	0.0552	0.0060	0.0058	0.0037	0.0043
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/4/2021	0.0089	TRACE	0.0178	0.9006	0.0186	0.0375	0.0054	0.0046	0.0008	0.0023	0.0007	0.0009	0.0007	0.0012
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/31/2021	0.0069	TRACE	0.0037	0.9210	0.0159	0.0376	0.0050	0.0040	0.0007	0.0021	0.0006	0.0008	0.0006	0.0011
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/31/2021	0.0004	0.0000	0.0015	0.8885	0.0197	0.0135	0.0071	0.0153	0.0049	0.0175	0.0078	0.0103	0.0052	0.0083
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/31/2021	0.0001	0.0000	0.0032	0.9519	0.0134	0.0008	0.0000	0.0005	0.0040	0.0120	0.0011	0.0016	0.0032	0.0084
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/31/2021	0.0076	0.0000	0.0041	0.9193	0.0159	0.0374	0.0050	0.0043	0.0008	0.0022	0.0007	0.0009	0.0007	0.0012
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/30/2022	0.0078	0.0001	0.0102	0.8547	0.0225	0.0847	0.0086	0.0059	0.0008	0.0023	0.0006	0.0007	0.0005	0.0006
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/30/2022	0.0088	0.0001	0.0134	0.8139	0.0293	0.1088	0.0120	0.0071	0.0010	0.0028	0.0007	0.0009	0.0004	0.0006
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/30/2022	0.0007	0.0000	0.0063	0.9521	0.0145	0.0005	0.0003	0.0033	0.0035	0.0085	0.0037	0.0029	0.0015	0.0021
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/30/2022	0.0002	0.0000	0.0064	0.8881	0.0131	0.0269	0.0086	0.0145	0.0049	0.0130	0.0079	0.0077	0.0037	0.0050
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/30/2022	0.0008	0.0000	0.0029	0.8691	0.0228	0.0374	0.0123	0.0182	0.0056	0.0140	0.0064	0.0058	0.0021	0.0026
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/30/2022	0.0002	0.0000	0.0031	0.9207	0.0497	0.0009	0.0001	0.0004	0.0063	0.0173	0.0004	0.0003	0.0002	0.0005
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2023	0.006	0.0001	0.01	0.8619	0.0244	0.0769	0.0084	0.0061	0.0009	0.0026	0.0007	0.0008	0.0005	0.0007
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/5/2023	0.006	0.0001	0.0097	0.8424	0.0224	0.0941	0.0097	0.0069	0.001	0.0032	0.0009	0.0011	0.0009	0.0016
100/03-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/5/2023	0.0067	0.0001	0.0147	0.8818	0.0179	0.0601	0.0069	0.0054	0.0008	0.0023	0.0006	0.0008	0.0007	0.0012
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/9/2020	0.0061	TRACE	0.0004	0.9003	0.0141	0.0510	0.0080	0.0074	0.0013	0.0039	0.0013	0.0016	0.0015	0.0031
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/18/2021	0.0035	0.0000	0.0014	0.9331	0.0137	0.0272	0.0050	0.0054	0.0011	0.0034	0.0012	0.0016	0.0014	0.0020
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/1/2021	0.0062	0.0000	0.0002	0.9175	0.0125	0.0435	0.0064	0.0060	0.0008	0.0028	0.0009	0.0011	0.0009	0.0012
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/18/2021	0.0068	0.0000	0.0047	0.9158	0.0156	0.0373	0.0059	0.0051	0.0009	0.0028	0.0009	0.0013	0.0006	0.0023
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/18/2021	0.0022	0.0000	0.0029	0.8890	0.0114	0.0254	0.0099	0.0177	0.0053	0.0158	0.0059	0.0060	0.0042	0.0044
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/18/2021	0.0006	0.0000	0.0033	0.9838	0.0070	0.0006	0.0001	0.0001	0.0002	0.0004	0.0001	0.0002	0.0011	0.0027
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/4/2021	0.0123	TRACE	0.0181	0.8827	0.0173	0.0432	0.0064	0.0053	0.0011	0.0036	0.0013	0.0019	0.0020	0.0048
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/24/2021	0.0079	0.0000	0.0067	0.8751	0.0174	0.0623	0.0086	0.0074	0.0013	0.0039	0.0013	0.0018	0.0013	0.0051
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/24/2021	0.0002	0.0000	0.0035	0.9585	0.0320	0.0011	0.0001	0.0002	0.0003	0.0005	0.0002	0.0003	0.0009	0.0021
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/24/2021	0.0008	0.0000	0.0030	0.8535	0.0218	0.0296	0.0140	0.0261	0.0070	0.0211	0.0077	0.0078	0.0043	0.0034
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/24/2022	0.0080	0.0001	0.0194	0.8736	0.0145	0.0628	0.0083	0.0065	0.0010	0.0029	0.0008	0.0010	0.0004	0.0008
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/25/2022	0.0082	0.0001	0.0201	0.8750	0.0146	0.0598	0.0079	0.0060	0.0009	0.0026	0.0007	0.0009	0.0008	0.0023
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/24/2022	0.0004	0.0000	0.0005	0.8872	0.0213	0.0159	0.0086	0.0170	0.0051	0.0165	0.0069	0.0084	0.0060	0.0055
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/24/2022	0.0002	0.0000	0.0018	0.9655	0.0269	0.0007	0.0001	0.0003	0.0002	0.0006	0.0004	0.0006	0.0008	0.0020
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/25/2022	0.0006	0.0000	0.0025	0.9056	0.0173	0.0191	0.0082	0.0141	0.0042	0.0121	0.0048	0.0050	0.0033	0.0027
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/25/2022	0.0002	0.0000	0.0025	0.9337	0.0180	0.0009	0.0002	0.0007	0.0120	0.0306	0.0004	0.0002	0.0002	0.0005
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2023	0.007	TRACE	0.0055	0.9121	0.0122	0.0462	0.0061	0.0048	0.0008	0.0022	0.0006	0.0008	0.0006	0.0011
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/5/2023	0.0079	TRACE	0.0062	0.8966	0.0126	0.0609	0.0068	0.0046	0.0006	0.0017	0.0004	0.0005	0.0003	0.0009
100/07-34-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/5/2023	0.0066	0	0.0053	0.9101	0.0124	0.049	0.0062	0.0047	0.0009	0.0022	0.0008	0.0006	0.0004	0.0008
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/23/2020	0.0068	0.0001	0.0156	0.7960	0.0327	0.1109	0.0139	0.0099	0.0017	0.0050	0.0015	0.0020	0.0016	0.0023
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/28/2020	0.0080	0.0001	0.0170	0.7846	0.0366	0.1159	0.0138	0.0104	0.0017	0.0050	0.0016	0.0020	0.0015	0.0018
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2020	0.0008	0.0000	0.0011	0.9050	0.0693	0.0184	0.0020	0.0012	0.0001	0.0005	0.0002	0.0002	0.0002	0.0010
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2020	0.0072	0.0001	0.0104	0.8065	0.0291	0.1034	0.0136	0.0110	0.0019	0.0055	0.0016	0.0022	0.0023	0.0052
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/18/2021	0.0033	TRACE	0.0012	0.9161	0.0192	0.0374	0.0061	0.0076	0.0011	0.0028	0.0008	0.0014	0.0012	0.0018
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/23/2021	0.0081	0.0000	0.0055	0.8928	0.0151	0.0506	0.0079	0.0069	0.0013	0.0039	0.0012	0.0017	0.0014	0.0037
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/23/2021	0.0003	0.0000	0.0026	0.9564	0.0288	0.0010	0.0002	0.0003	0.0003	0.0008	0.0007	0.0010	0.0015	0.0063
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/23/2021	0.0009	0.0000	0.0028	0.8519	0.0242	0.0234	0.0137	0.0261	0.0078	0.0229	0.0080	0.0081	0.0049	0.0053
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/4/2021	0.0111	TRACE	0.0219	0.8636	0.0186	0.0559	0.0078	0.0070	0.0013	0.0037	0.0012	0.0016	0.0014	0.0049
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/2/2021	0.0073	0.0000	0.0080	0.8944	0.0184	0.0489	0.0070	0.0062	0.0012	0.0034	0.0010	0.0013	0.0011	0.0018
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/15/2021	0.0018	0.0000	0.0056	0.8605	0.0097	0.0339	0.0121	0.0217	0.0079	0.0223	0.0078	0.0078	0.0047	0.0043
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/17/2021	0.0008	0.0000	0.0018	0.9570	0.0327	0.0011	0.0000	0.0002	0.0008	0.0031	0.0001	0.0002	0.0006	0.0017
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/17/2021	0.0007	0.0000	0.0035	0.8509	0.0242	0.0200	0.0113	0.0232	0.0074	0.0253	0.0093	0.0110	0.0068	0.0064
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/29/2022	0.0086	0.0000	0.0059	0.8912	0.0169	0.0609	0.0068	0.0052	0.0007	0.0021	0.0004	0.0006	0.0002	0.0005
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT/CALGARY	6/28/2022	0.0098	0.0000	0.0074	0.8923	0.0141	0.0595	0.0068	0.0052	0.0007	0.0022	0.0005	0.0006	0.0002	0.0007
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT/CALGARY	6/28/2022	0.0025	0.0000	0.0019	0.9117	0.0121	0.0272	0.0071	0.0108	0.0053	0.0134	0.0030	0.0030	0.0010	0.0009
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT/CALGARY	6/28/2022	0.0001	0.0000	0.0031	0.9316	0.0148	0.0010	0.0024	0.0089	0.0057	0.0155	0.0067	0.0070	0.0018	0.0013
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/29/2022	0.0009	0.0000	0.0017	0.9221	0.0131	0.0179	0.0061	0.0097	0.0037	0.0111	0.0037	0.0042	0.0021	0.0034
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/29/2022	0.0002	0.0000	0.0019	0.9683	0.0244	0.0011	0.0003	0.0004	0.0002	0.0008	0.0004	0.0006	0.0004	0.0010
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2023	0.0072	TRACE	0.0052	0.9089	0.0136	0.0496	0.006	0.0038	0.0006	0.002	0.0005	0.0007	0.0006	0.0013
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/5/2023	0.0064	TRACE	0.0047	0.9083	0.0154	0.0482	0.0059	0.0047	0.0007	0.0023	0.0007	0.0008	0.0007	0.0012
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/1/2023	0.0066	TRACE	0.0047	0.9042	0.0113	0.0539	0.0062	0.0049	0.0008	0.0024	0.0007	0.0009	0.0008	0.0026
100/10-27-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/9/2023	0.007	TRACE	0.0051	0.9063	0.0138	0.0483	0.0083	0.005	0.0008	0.0022	0.0005	0.0007	0.0005	0.0015
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/16/2019	0.0005	0.0005	0.0483	0.0291	0.1003	0.6958	0.0771	0.0332	0.0035	0.0073	0.0013	0.0014	0.0008	0.0009
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/16/2019	0.0013	0.0005	0.0539	0.0272	0.1003	0.6914	0.0762	0.0333	0.0036	0.0074	0.0013	0.0014	0.0008	0.0014
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/20/2019	0.0009	0.0009	0.1067	0.0181	0.0439	0.7477	0.0473	0.0207	0.0025	0.0060	0.0014	0.0016	0.0012	0.0012
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/12/2020	0.0009	0.0013	0.1129	0.0183	0.0420	0.7395	0.0503	0.0232	0.0028	0.0063	0.0010	0.0009	0.0003	0.0005
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/13/2020	0.0028	0.0010	0.1009	0.0370	0.0000	0.7375	0.0678	0.0338	0.0041	0.0100	0.0019	0.0021	0.0005	0.0006
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/21/2020	0.0094	0.0002	0.0327	0.5652	0.0350	0.2947	0.0322	0.0185	0.0022	0.0049	0.0009	0.0011	0.0008	0.0024
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/22/2020	0.0074	0.0001	0.0137	0.7487	0.0274	0.1477	0.0238	0.0146	0.0018	0.0044	0.0010	0.0013	0.0009	0.0072
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/23/2020	0.0068	0.0001	0.0109	0.7854	0.0282	0.1217	0.0220	0.0158	0.0019	0.0047	0.0009	0.0009	0.0002	0.0006
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/24/2020	0.0068	0.0001	0.0105	0.8114	0.0255	0.1030	0.0187	0.0140	0.0018	0.0046	0.0010	0.0011	0.0005	0.0011
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/25/2020	0.0077	0.0001	0.0112	0.8117	0.0252	0.1051	0.0181	0.0124	0.0016	0.0042	0.0008	0.0008	0.0004	0.0008
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/26/2020	0.0080	0.0001	0.0157	0.8217	0.0212	0.0973	0.0134	0.0109	0.0016	0.0043	0.0017	0.0016	0.0009	0.0016
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/27/2020	0.0074	0.0001	0.0100	0.8394	0.0215	0.0902	0.0137	0.0100	0.0013	0.0033	0.0009	0.0010	0.0006	0.0007
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/5/2021	0.0144	0.0005	0.0483	0.6027	0.0000	0.3093	0.0182	0.0056	0.0003	0.0006	0.0000	0.0000	0.0000	0.0001
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/6/2021	0.0120	0.0005	0.0431	0.6203	0.0000	0.2981	0.0174	0.0063	0.0005	0.0012	0.0001	0.0001	0.0001	0.0003
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/9/2021	0.0047	0.0003	0.0330	0.5806	0.0296	0.2965	0.0253	0.0149	0.0020	0.0058	0.0015	0.0018	0.0013	0.0027
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/24/2021	0.0074	0.0002	0.0262	0.6746	0.0254	0.2080	0.0196	0.0124	0.0018	0.0049	0.0018	0.0027	0.0035	0.0115
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/16/2021	0.0082	0.0003	0.0422	0.6349	0.0188	0.2557	0.0208	0.0111	0.0013	0.0036	0.0008	0.0010	0.0004	0.0008
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/25/2021	0.0065	0.0002	0.0277	0.6820	0.0251	0.1983	0.0188	0.0119	0.0017	0.0051	0.0022	0.0035	0.0058	0.0112
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/1/2021	0.0076	0.0003	0.0261	0.6725	0.0204	0.2238	0.0194	0.0119	0.0015	0.0039	0.0011	0.0016	0.0018	0.0082
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/16/2021	0.0067	0.0002	0.0233	0.7182	0.0161	0.1907	0.0181	0.0111	0.0016	0.0044	0.0012	0.0017	0.0017	0.0050
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/17/2021	0.0074	0.0002	0.0200	0.7380	0.0223	0.1776	0.0166	0.0097	0.0012	0.0032	0.0009	0.0010	0.0007	0.0012
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/18/2021	0.0072	0.0002	0.0175	0.7375	0.0280	0.1696	0.0163	0.0104	0.0015	0.0041	0.0011	0.0015	0.0012	0.0039
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/22/2021	0.0069	0.0002	0.0179	0.7442	0.0275	0.1638	0.0161	0.0104	0.0015	0.0041	0.0011	0.0015	0.0013	0.0035
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/20/2021	0.0060	0.0002	0.0259	0.7429	0.0187	0.1589	0.0169	0.0117	0.0016	0.0045	0.0014	0.0020	0.0026	0.0067
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/5/2022	0.0098	0.0002	0.0224	0.7205	0.0290	0.1804	0.0159	0.0096	0.0012	0.0033	0.0009	0.0013	0.0014	0.0041
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/10/2022	0.0075	0.0002	0.0217	0.7559	0.0165	0.1582	0.0157	0.0102	0.0015	0.0041	0.0012	0.0015	0.0013	0.0046
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/18/2022	0.0078	0.0001	0.0237	0.7743	0.0287	0.1353	0.0150	0.0091	0.0012	0.0031	0.0006	0.0006	0.0002	0.0003
100/10-35-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/4/2022	0.0081	0.0001	0.0183	0.7719	0.0163	0.1514	0.0150	0.0088	0.0013	0.0034	0.0009	0.0012	0.0010	0.0023
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/5/2022	0.0081	0.0002	0.0173	0.7662	0.0214	0.1475	0.0147	0.0096	0.0014	0.0039	0.0011	0.0014	0.0013	0.0059
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/3/2022	0.0074	0.0001	0.0160	0.7755	0.0334	0.1342	0.0138	0.0090	0.0013	0.0036	0.0010	0.0013	0.0007	0.0028
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2022	0.0077	0.0001	0.0161	0.7819	0.0163	0.1387	0.0144	0.0099	0.0016	0.0047	0.0014	0.0018	0.0015	0.0036
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/4/2022	0.0075	0.0001	0.0147	0.7968	0.0185	0.1279	0.0136	0.0087	0.0013	0.0035	0.0010	0.0013	0.0009	0.0043
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/3/2022	0.0091	0.0002	0.0172	0.7700	0.0215	0.1486	0.0146	0.0083	0.0013	0.0037	0.0009	0.0013	0.0007	0.0025
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/1/2022	0.0072	0.0001	0.0123	0.8039	0.0203	0.1165	0.0134	0.0099	0.0016	0.0043	0.0012	0.0016	0.0016	0.0059

100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/27/2022	0.0089	0.0001	0.0150	0.8010	0.0182	0.1292	0.0130	0.0082	0.0010	0.0027	0.0006	0.0007	0.0004	0.0009
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/30/2022	0.0075	0.0001	0.0134	0.8218	0.0184	0.1139	0.0120	0.0073	0.0011	0.0025	0.0005	0.0007	0.0003	0.0006
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/30/2022	0.0007	0.0000	0.0009	0.8479	0.0257	0.0426	0.0134	0.0191	0.0046	0.0146	0.0059	0.0077	0.0053	0.0110
100/10-35-039-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/3/2022	0.0059	0.0001	0.0105	0.8244	0.0189	0.1051	0.0128	0.0095	0.0016	0.0045	0.0013	0.0016	0.0012	0.0026
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2022	0.0075	0.0000	0.0102	0.8302	0.0187	0.0901	0.0101	0.0071	0.0011	0.0031	0.0020	0.0037	0.0059	0.0097
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2022	0.0129	0.0001	0.0191	0.7977	0.0353	0.1124	0.0100	0.0061	0.0008	0.0022	0.0006	0.0007	0.0006	0.0016
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2022	0.0129	0.0001	0.0191	0.7977	0.0353	0.1124	0.0100	0.0061	0.0008	0.0022	0.0006	0.0007	0.0006	0.0004
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/5/2023	0.0105	0.0001	0.0103	0.8587	0.0134	0.0839	0.0086	0.0059	0.0009	0.0025	0.0007	0.0010	0.0008	0.0008
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/2/2023	0.0112	0.0001	0.0098	0.8481	0.0230	0.0810	0.0082	0.0055	0.0007	0.0021	0.0006	0.0008	0.0014	0.0075
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/2/2023	0.0067	0.0001	0.0069	0.8621	0.0338	0.0679	0.0080	0.0060	0.0008	0.0025	0.0007	0.0009	0.0009	0.0027
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/10/2023	0.0055	TRACE	0.0131	0.8751	0.0178	0.0618	0.0081	0.0066	0.0011	0.0034	0.0011	0.0014	0.0016	0.0034
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/2/2023	0.0054	TRACE	0.0055	0.8843	0.0152	0.0601	0.0080	0.0068	0.0012	0.0038	0.0015	0.0021	0.0026	0.0035
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2023	0.0061	TRACE	0.0061	0.8912	0.0149	0.0600	0.0078	0.0053	0.0010	0.0027	0.0007	0.0009	0.0009	0.0024
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/5/2023	0.0054	TRACE	0.0057	0.8770	0.0182	0.0566	0.0076	0.0068	0.0012	0.0043	0.0019	0.0030	0.0044	0.0079
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/13/2023	0.0088	0.0001	0.0081	0.8804	0.0133	0.0721	0.0080	0.0051	0.0006	0.0018	0.0004	0.0005	0.0003	0.0002
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/13/2023	0.0000	0.0000	0.0040	0.9269	0.0051	0.0297	0.0076	0.0102	0.0024	0.0068	0.0024	0.0026	0.0010	0.0004
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/13/2023	0.0000	0.0000	0.0054	0.9013	0.0119	0.0563	0.0084	0.0077	0.0015	0.0036	0.0011	0.0011	0.0005	0.0003
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/1/2023	0.0053	TRACE	0.0055	0.8647	0.0238	0.0671	0.0084	0.0073	0.0012	0.0039	0.0014	0.0021	0.0024	0.0069
100/10-35-039-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/9/2023	0.0066	0.0001	0.0063	0.8847	0.0142	0.0652	0.0075	0.0059	0.0019	0.0030	0.0007	0.0009	0.0007	0.0023
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2020	0.0011	TRACE	0.0142	0.8345	0.0556	0.0464	0.0134	0.0147	0.0030	0.0074	0.0021	0.0027	0.0019	0.0030
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/18/2021	0.0043	TRACE	0.0004	0.8864	0.0274	0.0566	0.0085	0.0070	0.0011	0.0032	0.0009	0.0012	0.0010	0.0020
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/17/2021	0.0074	TRACE	0.0050	0.9001	0.0308	0.0402	0.0053	0.0044	0.0007	0.0022	0.0006	0.0008	0.0006	0.0019
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/1/2021	0.0066	TRACE	0.0042	0.9169	0.0166	0.0388	0.0052	0.0044	0.0007	0.0023	0.0007	0.0009	0.0007	0.0020
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/16/2021	0.0095	0.0000	0.0055	0.9092	0.0180	0.0432	0.0051	0.0041	0.0006	0.0017	0.0004	0.0006	0.0004	0.0018
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/16/2021	0.0013	0.0000	0.0037	0.9121	0.0154	0.0123	0.0065	0.0156	0.0038	0.0119	0.0051	0.0055	0.0035	0.0035
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/16/2021	0.0003	0.0000	0.0009	0.9604	0.0278	0.0006	0.0001	0.0002	0.0002	0.0009	0.0006	0.0009	0.0023	0.0049
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/4/2021	0.0084	TRACE	0.0052	0.9143	0.0173	0.0399	0.0049	0.0039	0.0006	0.0019	0.0005	0.0007	0.0007	0.0017
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/26/2021	0.0100	0.0000	0.0080	0.9052	0.0147	0.0491	0.0051	0.0036	0.0005	0.0015	0.0003	0.0005	0.0003	0.0013
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/26/2021	0.0003	0.0000	0.0008	0.9415	0.0166	0.0086	0.0040	0.0075	0.0022	0.0070	0.0028	0.0034	0.0018	0.0034
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/26/2021	0.0003	0.0000	0.0031	0.9460	0.0150	0.0086	0.0041	0.0074	0.0021	0.0059	0.0022	0.0023	0.0011	0.0020
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/26/2021	0.0002	0.0000	0.0049	0.9642	0.0222	0.0027	0.0007	0.0010	0.0002	0.0008	0.0004	0.0005	0.0005	0.0018
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/23/2022	0.0095	0.0001	0.0109	0.8588	0.0131	0.0861	0.0112	0.0056	0.0006	0.0020	0.0005	0.0006	0.0003	0.0007
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/23/2022	0.0003	0.0000	0.0011	0.9449	0.0420	0.0007	0.0001	0.0012	0.0009	0.0026	0.0015	0.0017	0.0010	0.0019
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/23/2022	0.0006	0.0000	0.0030	0.9265	0.0154	0.0237	0.0063	0.0081	0.0024	0.0064	0.0021	0.0021	0.0010	0.0021
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2023	0.005	TRACE	0.0052	0.8778	0.0326	0.0567	0.0073	0.006	0.0011	0.0034	0.001	0.0012	0.0009	0.0018
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/5/2023	0.0064	0.0001	0.0082	0.8609	0.021	0.0811	0.0084	0.0066	0.001	0.0029	0.0007	0.0009	0.0007	0.0011
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/6/2023	0.00738	0.00007	0.00874	0.8757	0.01788	0.06832	0.0082	0.00747	0.00095	0.0026	0.00072	0.00083	0.00034	0.00021
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/6/2023	0.00011	0.00001	0.00413	0.87726	0.0199	0.01959	0.01047	0.02018	0.0061	0.01805	0.00754	0.00781	0.00483	0.00104
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/3/2023	0.0065	0.0001	0.007	0.8612	0.021	0.0789	0.0087	0.0068	0.0012	0.0034	0.001	0.0012	0.0011	0.0019
100/14-01-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/13/2023	0.0053	TRACE	0.0052	0.9042	0.0165	0.0488	0.0059	0.0052	0.0014	0.0026	0.0008	0.001	0.0008	0.0023
100/03-15-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/4/2022	0.0000	0.0008	0.0629	0.0357	0.1742	0.5829	0.0695	0.0465	0.0060	0.0138	0.0025	0.0027	0.0008	0.0015
100/03-15-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/14/2022	0.0001	0.0011	0.0869	0.0211	0.0901	0.6823	0.0611	0.0344	0.0045	0.0111	0.0022	0.0025	0.0012	0.0014
100/03-15-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2022	0.0003	0.0011	0.0908	0.0251	0.1010	0.6748	0.0572	0.0315	0.0038	0.0097	0.0018	0.0019	0.0007	0.0003
100/03-15-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2022	0.0003	0.0011	0.0908	0.0251	0.1010	0.6748	0.0572	0.0315	0.0038	0.0097	0.0018	0.0019	0.0007	0.0003
100/03-15-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/20/2023	0.0034	0.0007	0.0592	0.2818	0.0596	0.4881	0.0476	0.0310	0.0046	0.0125	0.0034	0.0041	0.0025	0.0015
100/03-15-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/2/2023	0.0090	0.0005	0.0424	0.3994	0.0602	0.3965	0.0404	0.0265	0.0038	0.0103	0.0027	0.0034	0.0024	0.0025
100/03-15-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/13/2023	0.0098	0.0003	0.0286	0.5966	0.0426	0.2500	0.0306	0.0226	0.0031	0.0095	0.0020	0.0024	0.0009	0.0010
100/03-15-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/2/2023	0.0160	0.0002	0.0227	0.6398	0.0416	0.2242	0.0233	0.0166	0.0025	0.0069	0.0017	0.0020	0.0012	0.0013
100/03-15-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2023	0.0053	0.0003	0.0260	0.6939	0.0407	0.1847	0.0207	0.0143	0.0022	0.0063	0.0016	0.0019	0.0011	0.0010
100/03-15-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/5/2023	0.0065	0.0002	0.0194	0.7124	0.0405	0.1715	0.0191	0.0136	0.0022	0.0062	0.0018	0.0022	0.0017	0.0027
100/03-15-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/27/2023	0.0002	0.0000	0.0050	0.6658	0.0351	0.0426	0.0326	0.0851	0.0224	0.0640	0.0188	0.0189	0.0045	0.0012
100/03-15-040-24W4/00	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/9/2023	0.0006	TRACE	0.0027	0.9066	0.0286	0.0321	0.0114	0.0108	0.0024	0.0031	0.0004	0.0004	0.0002	0.0007
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/22/2019	0.0002	0.0010	0.0866	0.0211	0.0591	0.7379	0.0552	0.0263	0.0029	0.0066	0.0008	0.0011	0.0007	0.0001
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/27/2020	0.0003	0.0004	0.0412	0.0347	0.1596	0.6309	0.0761	0.0403	0.0036	0.0083	0.0015	0.0015	0.0009	0.0007
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/6/2020	0.0007	0.0012	0.0929	0.0212	0.0762	0.7041	0.0545	0.0298	0.0037	0.0095	0.0020	0.0023	0.0011	0.0008
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/1/2020	0.0011	0.0012	0.0898	0.0213	0.0778	0.7009	0.0558	0.0312	0.0038	0.0096	0.0021	0.0025	0.0015	0.0014
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/9/2020	0.0003	0.0011	0.0917	0.0236	0.0718	0.7084	0.0556	0.0296	0.0034	0.0075	0.0015	0.0010	0.0009	0.0036
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/12/2021	0.0031	0.0006	0.0545	0.2817	0.0813	0.4854	0.0483	0.0296	0.0035	0.0078	0.0013	0.0014	0.0007	0.0008
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/22/2021	0.0026	0.0007	0.0607	0.2505	0.0838	0.5070	0.0495	0.0280	0.0032	0.0072	0.0013	0.0015	0.0007	0.0032
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/4/2021	0.0035	0.0006	0.0561	0.3000	0.0744	0.4812	0.0418	0.0250	0.0032	0.0077	0.0017	0.0021	0.0008	0.0019
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT/CALGARY	5/10/2021	0.0037	0.0006	0.0501	0.3228	0.1178	0.4119	0.0437	0.0270	0.0037	0.0092	0.0019	0.0022	0.0013	0.0038
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/13/2021	0.0039	0.0006	0.0524	0.3439	0.0850	0.4200	0.0431	0.0306	0.0040	0.0103	0.0021	0.0023	0.0010	0.0007
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/31/2021	0.0045	0.0005	0.0403	0.4431	0.0711	0.3599	0.0364	0.0244	0.0035	0.0091	0.0020	0.0024	0.0013	0.0015
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/10/2021	0.0043	0.0005	0.0456	0.4306	0.0800	0.3621	0.0363	0.0222	0.0029	0.0079	0.0021	0.0025	0.0015	0.0015
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/4/2021	0.0048	0.0002	0.0212	0.6321	0.0879	0.2018	0.0180	0.0128	0.0020	0.0057	0.0016	0.0020	0.0021	0.0078
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2021	0.0051	0.0002	0.0188	0.6840	0.0738	0.1788	0.0167	0.0112	0.0017	0.0047	0.0012	0.0015	0.0010	0.0013
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/10/2022	0.0053	0.0002	0.0536	0.7012	0.0355	0.1602	0.0153	0.0108	0.0018	0.0052	0.0017	0.0023	0.0020	0.0049
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/9/2022	0.0054	0.0002	0.0498	0.6995	0.0355	0.1581	0.0156	0.0108	0.0018	0.0053	0.0018	0.0025	0.0037	0.0100
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	3/7/2022	0.0054	0.0002	0.0210	0.7405	0.0313	0.1550	0.0153	0.0105	0.0017	0.0047	0.0015	0.0021	0.0025	0.0083
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/5/2022	0.0055	0.0002	0.0183	0.7344	0.0320	0.1638	0.0157	0.0107	0.0017	0.0047	0.0014	0.0019	0.0020	0.0077
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/3/2022	0.0061	0.0002	0.0189	0.7205	0.0361	0.1713	0.0165	0.0122	0.0021	0.0064	0.0020	0.0026	0.0020	0.0031
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	6/1/2022	0.0058	0.0002	0.0194	0.7502	0.0325	0.1553	0.0153	0.0105	0.0016	0.0045	0.0012	0.0015	0.0010	0.0012
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	7/4/2022	0.0055	0.0002	0.0179	0.7376	0.0356	0.1519	0.0151	0.0104	0.0018	0.0053	0.0023	0.0037	0.0051	0.0076
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	8/3/2022	0.0055	0.0002	0.0164	0.7158	0.0323	0.1720	0.0160	0.0126	0.0023	0.0070	0.0027	0.0038	0.0051	0.0083
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/1/2022	0.0056	0.0002	0.0159	0.7412	0.0320	0.1678	0.0157	0.0108	0.0017	0.0046	0.0012	0.0015	0.0009	0.0009
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	9/16/2022	0.0053	0.0003	0.0339	0.6495	0.0538	0.2096	0.0205	0.0142	0.0020	0.0060	0.0015	0.0019	0.0007	0.0008
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/3/2022	0.0056	0.0002	0.0225	0.7711	0.0324	0.1335	0.0141	0.0101	0.0015	0.0042	0.0011	0.0014	0.0010	0.0013
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/1/2022	0.0062	0.0003	0.0224	0.7220	0.0416	0.1746	0.0161	0.0092	0.0012	0.0031	0.0007	0.0008	0.0004	0.0014
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/4/2022	0.0056	0.0002	0.0153	0.7526	0.0348	0.1449	0.0149	0.0106	0.0017	0.0048	0.0016	0.0022	0.0031	0.0077
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/1/2022	0.0058	0.0002	0.0152	0.7678	0.0365	0.1408	0.0145	0.0101	0.0015	0.0041	0.0010	0.0012	0.0006	0.0007
100/16-03-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	1/5/2023	0.0057	0.0002	0.0181	0.7832	0.0292	0.1269	0.0138	0.0099	0.0015	0.0043	0.0012	0.0017	0.0013	0.0030


Geosphere CO_2 Concentrations
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
CO_2 (Mole %)
Mar-2019
Mar-2020
Mar-2021
Mar-2022
Mar-2023
Mar-2024
Mar-2025
CO_2 injection commenced
Modified Nisku monitoring
100/04-26-039-24W4/00
100/08-35-039-24W4/02
100/12-01-040-24W4/02
100/01-02-040-24W4/02
100/08-02-040-24W4/02
100/16-02-040-24W4/00
100/07-15-040-24W4/02
100/14-21-040-24W4/02
102/05-33-040-24W4/02
100/10-27-039-24W4/00
100/07-34-039-24W4/00
100/10-35-039-24W4/00
100/03-01-040-24W4/00
100/14-01-040-24W4/00
100/16-03-040-24W4/02
100/03-15-040-24W4/00
Enhance Clive 4-15 Battery
Nisku Wells
Leduc Wells

					Gas Analysis (Mole Fraction)													
SOURCE LOCATION	OPERATOR NAME	FIELD	SAMPLER NAME	DATE SAMPL	H2	He	N2	CO2	H2S	C1	C2	C3	IC4	NC4	IC5	NC5	C6	C7+
102/09-16-040-24W4/03	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	10/2/2020	0.0000	0.0003	0.0068	0.0002	0.0000	0.9926	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
102/09-16-040-24W4/03	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	5/6/2021	0.0003	0.0003	0.0104	0.0001	0.0000	0.9882	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0003
102/09-16-040-24W4/03	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/1/2021	0.0000	0.0003	0.0061	0.0001	0.0000	0.9932	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
102/09-16-040-24W4/03	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/5/2022	0.0000	0.0004	0.0138	0.0001	0.0000	0.9854	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
102/09-16-040-24W4/03	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/2/2023	0.00004	0.00031	0.00946	0.00026	0	0.98924	0.00033	0.00005	0.00001	0.00003	0.00002	0.00003	0.00004	0.00007
102/09-16-040-24W4/03	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/19/2024	0.00026	0.00025	0.00635	0.00018	0	0.99236	0.00022	0.00001	0.00001	0.00001	0	0	0.00004	
100/06-21-040-24W4/03	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/1/2021	0.0001	0.0001	0.0046	0.0015	0.0000	0.9915	0.0021	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
100/06-21-040-24W4/03	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/5/2022	0.0000	0.0001	0.0026	0.0008	0.0000	0.9940	0.0023	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
100/06-21-040-24W4/03	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	2/2/2023	0.0000	0.0001	0.0038	0.0017	0.0000	0.9905	0.0026	0.0003	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
100/06-21-040-24W4/03	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	12/3/2024	0.00063	0.00021	0.00238	0.0003	0	0.99272	0.00235	0.00017	0.00003	0.00006	0.00004	0.00007	0.00025	
100/05-21-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	11/1/2021	0.0001	0.0002	0.0029	0.0001	0.0000	0.9940	0.0025	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
100/05-21-040-24W4/02	ENHANCE ENERGY INC	CLIVE	AGAT RED DEER	4/5/2022	0.0000	0.0003	0.0082	0.0001	0.0000	0.9887	0.0026	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000


SCVF Gas Composition Concentrations
CO2 / H2S (Mole Fraction)
Methane (Mole Fraction)
0.0100
0.0080
0.0060
0.0040
0.0020
0.0000
1.0000
0.9900
0.9800
0.9700
0.9600
0.9500
0.9400
0.9300
0.9200
0.9100
0.9000
7/1/2020
12/30/2020
7/1/2021
12/30/2021
7/1/2022
12/30/2022
09-16 CO2
06-21 CO2
05-21 CO2
09-16 H2S
06-21 H2S
05-21 H2S
09-16 C1
06-21 C1
05-21 C1

André E. Lalonde AMS Laboratory
Radiocarbon Laboratory
www.ams.uottawa.ca
Analysis Report

uOttawa

Isotope Analysis Summary

ϕNON-FINATE

Date	Lab ID	Submitter ID	Submitter comments	Description	Material	Material Code	14C yr BP	±	F14C	±	D14C ‰	±	Δ14C ‰	±
2024														
22-Oct-24	UOC-26309	SUMMA1A	10-34-039-24W4	CBM Prod Gas	GAS	CH4	36700	750	0.0105	0.001	-989.51	0.98	-989.6	0.98
22-Oct-24	UOC-26310	SUMMA3B	12-12-040-24W4	CBM Prod Gas	GAS	CH4	>45700ϕ	--	<0.0034	--	<-996.7	--	<-996.7	--
2023														
2022														
1-Sep-22	UOC-19760ϕ	SUMMA1A (10-34 CBM GAS)	10-34-039-24W4	CBM Prod Gas	Gas	CH4	>55900	--	<0.001	--	<-999	--	<-999.1	--
1-Sep-22	UOC-19761ϕ	CANISTER1B (04-15 CBM HEADER)	12-12-040-24W4	CBM Prod Gas	Gas	CH4	>55900	--	<0.001	--	<-999	--	<-999.1	--
24-May-22	UOC-19338ϕ	SUMMA1A	14-07-056-21W4	NWR CO2 Source	Gas	CX	>49700	--	<0.002	--	<-998.0	--	<-998.0	--
24-May-22	UOC-19339	SUMMA3B	04-17-056-21W4	Nutrien CO2 Source	Gas	CX	47688	320	0.0026	0.0001	-997.36	0.11	-997.38	0.11
13-May-22	UOC-19107ϕ	CAN1C	04-15-040-24W4	Combined CO2 Source	Gas	CX	>49700	--	<0.002	--	<-998.0	--	<-998.0	--
11-Mar-22	UOC-18173	SUMMA1A	14-07-056-21W4	NWR CO2 Source	Gas	CX	>55400	--	<0.0012	--	<-998.8	--	<-998.81	--
11-Mar-22	UOC-18174	SUMMA4B	04-17-056-21W4	Nutrien CO2 Source	Gas	CX	>55400	--	<0.0012	--	<-998.8	--	<-998.81	--
7-Mar-22	UOC-18172	SUMMA1A	04-15-040-24W4	Combined CO2 Source	Gas	CX	42091	136	0.0053	0.0001	-994.7	0.1	-994.75	0.1
2021														
25-Oct-21	UOC-16776 ϕ	CAN00142	04-17-056-21W4	Nutrien CO2 Source	Gas - Summa Can	CX	>50000	---	<0.0020	---	<-998.00	---	<-998.02	---
25-Oct-21	UOC-16777 ϕ	CAN11950	04-17-056-21W4 DUPE	Nutrien CO2 Source	Gas - Summa Can	CX	>50000	---	<0.0020	---	<-998.00	---	<-998.02	---
25-Oct-21	UOC-16778 ϕ	CAN03091	14-07-056-21W4	NWR CO2 Source	Gas - Summa Can	CX	>50000	---	<0.0020	---	<-998.00	---	<-998.02	---
25-Oct-21	UOC-16779 ϕ	CAN11815	14-07-056-21W4 DUPE	NWR CO2 Source	Gas - Summa Can	CX	>50000	---	<0.0020	---	<-998.00	---	<-998.02	---
4-Oct-21	UOC-16774 ϕ	CAN00144A	04-15-040-24W4	Combined CO2 Source	Gas - Summa Can	CX	>50000	---	<0.0020	---	<-998.00	---	<-998.02	---
4-Oct-21	UOC-16775	CAN06451A	04-15-040-24W4 DUPE	Combined CO2 Source	Gas - Summa Can	CX	42234	1209	0.0052	0.0008	-994.79	0.78	-994.84	0.78
13-May-21	UOC-16104	GV1A_08-35	100/08-35-039-24W4	Nisku Prod Gas	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
13-May-21	UOC-16105	GVA2_08-35	100/08-35-039-24W4 DUPE	Nisku Prod Gas	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
13-May-21	UOC-16106	GVA3_08-35	100/08-35-039-24W4 DUPE	Nisku Prod Gas	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
13-May-21	UOC-16107	GVA4_08-35	100/08-35-039-24W4 DUPE	Nisku Prod Gas	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
13-May-21	UOC-16108	GVA5_08-35	100/08-35-039-24W4 DUPE	Nisku Prod Gas	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
13-May-21	UOC-16109	GVA6_08-35	100/08-35-039-24W4 DUPE	Nisku Prod Gas	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
6-May-21	UOC-16110	GV1A_09-16	102/09-16-040-24W4	Coal SCV Flow	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
6-May-21	UOC-16111	GV2A_09-16	102/09-16-040-24W4 DUPE	Coal SCV Flow	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
6-May-21	UOC-16112	GV3A_09-16	102/09-16-040-24W4 DUPE	Coal SCV Flow	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
4-May-21	UOC-16098	GV1A_08-02	100/08-02-040-24W4	Nisku Prod Gas	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
4-May-21	UOC-16099	GVA2_08-02	100/08-02-040-24W4 DUPE	Nisku Prod Gas	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
4-May-21	UOC-16100	GVA3_08-02	100/08-02-040-24W4 DUPE	Nisku Prod Gas	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
4-May-21	UOC-16101	GVA4_08-02	100/08-02-040-24W4 DUPE	Nisku Prod Gas	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
4-May-21	UOC-16102	GVA5_08-02	100/08-02-040-24W4 DUPE	Nisku Prod Gas	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
4-May-21	UOC-16103	GVA6_08-02	100/08-02-040-24W4 DUPE	Nisku Prod Gas	Gas/Liquid	CH4	>50000ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
12-Apr-21	UOC-15352	VIAL 1A_04-15	04-15-040-24W4;	CBM Prod Gas	Gas/Liquid	CH4	>50000 ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
12-Apr-21	UOC-15353	VIAL 2A_04-15	04-15-040-24W4; DUPLICATE	CBM Prod Gas	Gas/Liquid	CH4	>50000 ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
12-Apr-21	UOC-15354	VIAL 3A_04-15	04-15-040-24W4; DUPLICATE	CBM Prod Gas	Gas/Liquid	CH4	>50000 ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
12-Apr-21	UOC-15355	VIAL 1A_10-34	10-34-039-24W4	CBM Prod Gas	Gas/Liquid	CH4	>50000 ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
12-Apr-21	UOC-15356	VIAL 2A_10-34	10-34-039-24W4; DUPLICATE	CBM Prod Gas	Gas/Liquid	CH4	>50000 ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
12-Apr-21	UOC-15357	VIAL 3A_10-34	10-34-039-24W4; DUPLICATE	CBM Prod Gas	Gas/Liquid	CH4	>50000 ϕ	---	<0.0020	---	<-998.00	---	<-998.02	---
17-Feb-21	UOC-14862	CAN1A	04-17-056-21W4	Nutrien CO2 Source	Gas	CX	48222	670	0.0025	0.0002	-997.53	0.21	-997.55	0.20
17-Feb-21	UOC-14863ϕ	CAN3C	14-07-056-21W4	NWR CO2 Source	Gas	CX	>50000	---	<0.0019	---	<-998.00	---	<-998.00	---
1-Feb-21	UOC-14861ϕ	CAN04201C	04-15-040-24W4	Combined CO2 Source	Gas	CX	>50000	---	<0.0019	---	<-998.00	---	<-998.00	---
2020														
2-Oct-20	UOC-14028ϕ	SN8750/29-10621	102/09-16-040-24W4	Coal SCV Flow	GAS	CH4	>50000	---	<0.0020	---	<-998.00	---	<-998.02	---
15-Sep-20	UOC-14028ϕ	SN8750/29-10621	4-17-056-21W4 Nutrien	Nutrien CO2 Source	GAS	CX	>50000	---	<0.0020	---	<-998.00	---	<-998.02	---
15-Sep-20	UOC-14027ϕ	SN5565/29-10622G	14-07-056-21W4 NWR	NWR CO2 Source	Gas	CX	>50000	---	<0.0020	---	<-998.00	---	<-998.02	---
2-Jul-20	UOC-13121ϕ	VIAL 1A,2A,3A,4A	10-34-039-24w4 CBM Header	CBM Prod Gas	Nautral Gas	CH4	>60000	---	<0.0006	---	<-999.40	---	<-999.41	---
12-May-20	UOC-12831ϕ	1-2-40-24w4	100/01-02-040-24W4/02	Nisku Prod Gas	Nautral Gas	CH4	>55000	---	<0.001	---	<-999.00	---	<-999.00	---
12-Mar-20	UOC-12830ϕ	10-35-39-24w4	100/10-35-039-24W4/00	Leduc Prod Gas	Nautral Gas	CH4	>55000	---	<0.001	---	<-999.00	---	<-999.00	---
2019														
1-Oct-19	UOC-10891	10-34-039-24w4		CBM Prod Gas	CH4 gas	CH4	>67637	8696	0.0002	0.0002	-999.83	0.18	-999.83	0.18
27-Sep-19	UOC-10892	Nutrien inlet gas		**Nutrien CH4 Inlet**	CH4 gas	CH4	>67637	16665	0.0001	0.0001	-999.94	0.13	-999.94	0.13
27-Sep-19	UOC-10896	Nutrien CO2 source gas		Nutrien CO2 Source	CO2 gas	CX	23980	153	0.0505	0.001	-949.47	0.96	-949.89	0.95

AGAT® Laboratories

Sulphur Isotope Summary

Operator: Enhance Energy

Analyst: S. Taylor

Work Order	Well Location	Description	Sample Point	Date Sampled	$\delta^{34}S_{H2S}$	wt%S
2024						
24R159419	Clive 4-15 Recycle Gas	**Leduc Prod Gas**	RECYCLE GAS	9-Jul-24	14.6	18
2023						
2022						
22R930109	100/07-15-040-24W4/02	**Nisku Prod Gas**	TEST METER RUN	9-Aug-22	14.6	14.0
22R926845	04-15-040-20W4	**Leduc Prod Gas**	DRY CO2 DEXPRO OUTLET	3-Aug-22	15.6	13.0
22R926854	100/08-02-040-24W4/02	**Nisku Prod Gas**	WELLHEAD	3-Aug-22	16.0	13.0
22R926854	100/16-03-040-24W4/02	**Leduc Prod Gas**	TEST SEP. OIL	3-Aug-22	15.4	14.0
2021						
21R759924	04-15-040-24W4	**Leduc Prod Gas**	DRY CO2 DEXPRO OUTLET	13-Jul-21	17.2	9.4
21R795907	100/07-15-040-24W4/02	**Nisku Prod Gas**	WELLHEAD	2-Sep-21	15.6	13.5
21R795907	100/08-02-040-24W4/02	**Nisku Prod Gas**	WELLHEAD	2-Sep-21	15.5	14.3
21R795907	04-15-040-20W4	**Leduc Prod Gas**	DEXPRO DRY GAS OUTLET	2-Sep-21	15.1	13.3

AGAT® Laboratories

Isotope Analysis Summary

Operator: Enhance Energy

Analyst: Karlis Muehlenbachs, U of A
780-492-2827

Work Order	Well Location	Sample Point	Description	Date Sampled	$\delta^{13}C_1$	$\delta^{13}C_2$	$\delta^{13}C_3$	$\delta^{13}iC_4$	$\delta^{13}nC_4$	$\delta^{13}iC_5$	$\delta^{13}nC_5$	$\delta^{13}CO_2$	Comments
2024													
24R127754	100/04-26-039-24W4/02	Wellhead	Nisku Prod Gas	11-Mar-24	-37.94	-33.12	-28.72	-29.58	-27.27	-25.48	-26.7	-13.12	This gas has a typical mature, Devonian fingerprint.
24R226999	100/16-32-040-24W4/00	Surface Casing Vent	Coal SCV Flow	3-Dec-24	-59.12	-46.09	-38.08						This is a shallow thrmognic gas that may come from 200 to 300 m depth.
24R226999	100/06-21-040-24W4/03	Surface Casing Vent	Coal SCV Flow	3-Dec-24	-55.31	-46.33	-35.67	-27.48	-33.51				This is a shallow thrmognic gas that may come from 200 to 300 m depth.
24R226999	100/05-21-040-24W4/02	Surface Casing Vent	Coal SCV Flow	3-Dec-24	-58.35	-46.94							This is a shallow thrmognic gas that may come from 200 to 300 m depth.
24R165561	14-07-056-21W4	Meter 091-FIT-0120	NWR CO2 Source	25-Jun-24								-26.42	
24R165561	04-17-056-21W4	Meter FIT-4116	Nutrien CO2 Source	25-Jun-24								-44.02	
24R156821	04-15-040-24W4	Ember Sweet Gas to TCPL	CBM Prod Gas	3-Jun-24	-55.58	-36.18	-27.09	-25.6	-22.33				Typical CBM gas from this region
24R156821	12-12-040-24W4	EMBER CBM HEADER	CBM Prod Gas	3-Jun-24	-56.7	-36.06	-26.75	-24.89	-23.16				Typical CBM gas from this region
24R156821	4-15 Clive CO2 Analyzer	METER 090-FIT-100(ENH 0202)	Combined CO2 Source	3-Jun-24								-27.48	
24R156821	10-34-039-24W4	CBM GAS	CBM Prod Gas	3-Jun-24	-55.59	-36.52	-27.88	-28.36	-25.01				Typical CBM gas from this region
24R168639	100/14-21-040-24W4/02	CASING GAS	Nisku Prod Gas	2-Jul-24	-50.29	-28.24	-27.11	-28.33	-26.82			N/A	This gas has a deep thermogenic origin, but relatively low methane value indicates it may have a history of mixing.
24R159419	12-12-040-24W4	EMBER CBM HEADER 12-12	CBM Prod Gas	7-Jun-24	-56.57	N/A	N/A	N/A	N/A			10.73	This gas has an isotope fingerprint of a typical CBM gas.
24R159419	10-34-039-24W4	CBM GAS	CBM Prod Gas	7-Jun-24	-55.62	-39.06	N/A	N/A	N/A			4.79	This gas has an isotope fingerprint of a typical CBM gas.
24R168639	100/08-02-040-24W4/02	WELLHEAD TUBING	Nisku Prod Gas	2-Jul-24	-45.45	-32.54	-28.64	-29.4	-26.93			-6.26	This gas has a deep thermogenic origin whose isotope fingerprint is very similar to gas from 7-15 and 102/5-33 from this sample set
24R168639	100/07-15-040-24W4/00	CASING GAS	Nisku Prod Gas	2-Jul-24	-45.71	-33.73	-26.92	-26.5	-25.23				This gas has a deep thermogenic origin whose isotope fingerprint is very similar to gas from 8-2 and 102/5-33 from this sample set
24R168639	102/05-33-040-24W4/02	CASING GAS	Nisku Prod Gas	2-Jul-24	-46.48	-33.74	-28.61	-29.79	-27.22			-6.66	This gas has a deep thermogenic origin whose isotope fingerprint is very similar to gas from 7-15 and 8-2 from this sample set.
2022													
22R977108	100/12-01-040-24W4/02	WELLHEAD TUBING	Nisku Prod Gas	5-Dec-22	-37.73	-32.06	-27.18	-29.94	-26.12			-4.70	This is a mature thermogenic gas.
22R977108	100/16-02-040-24W4/00	WELLHEAD TUBING	Nisku Prod Gas	5-Dec-22	-36.62	-32.21	-27.70	-28.49	-25.92			2.80	This is a mature thermogenic gas.
22R977108	100/08-02-040-24W4/02	WELLHEAD TUBING	Nisku Prod Gas	5-Dec-22	-37.47	-32.05	-28.70	-29.91	-27.42			-7.70	This is a mature thermogenic gas.
22R958723	100/14-21-040-24W4/02	WELLHEAD TUBING	Nisku Prod Gas	19-Oct-22	-42.87	-33.28	-29.16	-29.70	-27.47	-27.21	-27.93	-5.01	This is a typical thermogenic gas from the Devonian.
22R958723	100/04-26-039-24W4/00	WELLHEAD TUBING	Nisku Prod Gas	19-Oct-22	-40.89	-33.92	-28.47	-27.26	-27.11	-25.94	-27.34	-7.78	This is a typical thermogenic gas from the Devonian.
22R929085	100/14-21-040-24W4/02	WELLHEAD TUBING	Nisku Prod Gas	7-Aug-22	-44.98	-33.12	-29.54	-20.45	-27.76			-5.63	This gas has an isotope fingerprint typical of a mature Devonian gas.
22R929085	100/08-02-040-24W4/02	WELLHEAD	Nisku Prod Gas	7-Aug-22	-40.24	-31.95	-27.69	-29.00	-26.01			-4.69	This gas has an isotope fingerprint typical of a mature Devonian gas.
22R929085	100/04-26-039-24W4/00	WELLHEAD	Nisku Prod Gas	7-Aug-22	-37.07	-30.75	-26.78	-28.65	-27.25			2.43	This gas has an isotope fingerprint typical of a mature Devonian gas.
22R922504	100/16-03-039-24W4/00	TEST METER RUN	Leduc Prod Gas	20-Jul-22	-39.68	-33.59	-29.45	-28.44	-27.31			-4.64	This is a mature thermogenic gas that may come from the Leduc.
22R915636	104/14-02-042-24W4/00	WELLHEAD TUBING	Mannville Gas	7-Jul-22	-47.18	-28.40	-25.61	-26.86	-25.55	-25.37	-25.08	-13.66	This is a mature thermogenic gas that may come from the Manville
22R915636	100/16-34-039-24W4/03	TUBING	Mannville Gas	7-Jul-22	-47.25	-27.37	-27.16	-28.70	-27.10			-8.04	This is a mature thermogenic gas that may come from the Manville
22R915637	04-15-040-20W4	EMBER CBM HEADER 12-12	CBM Prod Gas	4-Jul-22	-55.12	-37.77	-55.01	-25.88				24.46	This gas has an isotope fingerprint typical for a CBM gas in this region.
22R915634	10-34-034-24W4	CBM GAS	CBM Prod Gas	4-Jul-22	-54.25	-38.69	-28.59	-29.74	-29.54			3.04	This is a typical CBM Gas.
22R899719	04-15-040-24W4	EMBER CBM HEADER	CBM Prod Gas	26-May-22	-52.75	-37.05	-27.70	-27.80	-28.10				This is a typical isotope fingerprint of a CBM gas in that region.
22R893697	04-17-056-21W4	METER FIT-4116	Nutrien CO2 Source	24-May-22	-44.51							-39.65	This is an almost pure CO2 gas with a trace of thermogenic methane.
22R893697	14-07-056-21W4	METER 091-FIT-0210	NWR CO2 Source	24-May-22	-31.40	-29.61						-26.71	This is an almost pure CO2 gas with a traces of thermogenic methane and ethane.
22R889542	04-15-040-24W4	METER 090-FIT-100(ENH 0202)	Combined CO2 Source	13-May-22	-29.92	-31.51						-27.89	This is an almost pure CO2 gas with traces of thermogenic methane and ethane.
22R889542	04-15-040-24W4	EMBER CBM HEADER	CBM Prod Gas	13-May-22	-55.35	-38.02	-28.04	-27.91	-29.69			-1.78	This is a typical isotope fingerprint of a CBM gas in that region.
22R889542	100/13-34-038-24W4/03	WELLHEAD CASING	Mannville Gas	13-May-22	-46.04	-27.60	-25.29	-27.85	-25.09			-1.57	This is a typical isotope fingerprint of a deep thermogenic gas.
22R889542	10-34-039-24W4	CBM GAS	CBM Prod Gas	13-May-22	-54.36	-39.01	-28.31	-29.14	-29.10			-13.83	This is a typical isotope fingerprint of a CBM gas in that region.
22R883697	102/05-33-040-24W4-02	CASING GAS	Nisku Prod Gas	12-Apr-22	-42.54	-33.23	-28.91	-30.01	-27.37			-7.05	This gas has the isotope fingerprint of a mature gas such as from the Nisku A.
22R879425	100/07-15-040-24W4/02	CASING GAS	Nisku Prod Gas	5-Apr-22	-41.71	-32.56	-32.96	-28.63	-27.23			-4.26	The casing and SCV gases have the same source and may be from or near the Nisku A. Their isotope fingerprint is very similar but not exactly like that of the test meter run from this well analyzed in Nov, 2021 which would indicate that the source of the casing and SCV gases is slightly shallower than the meter run gas.
22R879425	100/07-15-040-24W4/02	SCV	Nisku Prod Gas	5-Apr-22	-40.42	-31.68	-27.93	-28.72	-28.23			-5.56	The casing and SCV gases have the same source and may be from or near the Nisku A. Their isotope fingerprint is very similar but not exactly like that of the test.
22R879425	102/09-16-040-24W4/00	SCV	Coal SCV Flow	5-Apr-22	-54.74	-47.53	-34.31						This is a shallow thermogenic gas that may come from around 200 to 300 m depth. It has not changed since previous tests.
22R879425	100/05-21-040-24W4/02	SCV	Coal SCV Flow	5-Apr-22	-56.29	-46.30	-35.91	-25.98	-22.01				This is a shallow thermogenic gas that may come from 200 to 300 m depth. It has not changed since previous tests.
22R879425	100/06-21-040-24W4/03	SCV	Coal SCV Flow	5-Apr-22	-56.46	-47.17	-34.41						This is a shallow thermogenic gas that may come from 200 to 300 m depth. It has not changed since previous tests.
22R869991	04-17-056-21W4	METER FIT 4116	Nutrien CO2 Source	11-Mar-22								-43.14	
22R869991	14-07-056-21W4	METER FIT 090 FIT 0210	NWR CO2 Source	11-Mar-22								-28.44	
22R869985	04-15-040-20W4	METER 090-FIT-100 (ENH 0202)	Combined CO2 Source	7-Mar-22	-39.92	-29.63						-28.72	Gas is CO2 with traces of deep thermogenic gas.
22R858925	100/16-02-040-24W4/00	WELLHEAD TUBING	Nisku Prod Gas	9-Feb-22	-40.18	-33.55	-28.40	-28.66	-26.08				This is a thermogenic has typical of the Nisku A.
2021													
21R831470	100/08-02-040-24W4/02	WELLHEAD TUBING	Nisku Prod Gas	18-Nov-21	-37.89	-31.48	-28.06	-28.67	-27.16			-3.59	This is an atypical thermogenic gas from the Nisku.
21R830214	100/04-26-039-24W4/00	WELLHEAD	Nisku Prod Gas	16-Nov-21	-30.86	-30.90	-28.00					-5.38	Very poor sample, which is a remnant of a thermogenic gas.
21R823222	100/07-15-040-24W4/02	TEST METER RUN	Nisku Prod Gas	1-Nov-21	-37.92	-31.34	-27.77	-28.74	-26.99			-4.66	This is a thermogenic gas with an isotopic fingerprint indicative of the Nisku A.
21R823234	100/05-21-040-24W4/02	SCV	Coal SCV Flow	1-Nov-21	-55.29	-46.36	-36.32	-27.25					This is a shallow thermogenic gas that may come from 200 to 300 m depth.
21R823234	100/06-21-040-24W4/03	SCV	Coal SCV Flow	1-Nov-21	-55.31	-46.63	-35.87	-28.83	-31.14				This is a shallow thermogenic gas that may come from 200 to 300 m depth.
21R823234	102/09-16-040-24W4/00	SCV	Coal SCV Flow	1-Nov-21	-55.28	-47.23	-33.82						This is a shallow thermogenic gas that may come from 200 to 300 m depth. Its isotope fingerprint has not changed since it was measured in Oct. 2020 and May 2021.
21R819717	04-17-056-21W4	METER FIT 4116	Nutrien CO2 Source	25-Oct-21								-42.20	
21R819717	14-07-056-21W4	METER FIT 090 FIR 0210	NWR CO2 Source	25-Oct-21								-26.47	
21R819730	04-15-040-24W4	METER 090-FIT-100	Combined CO2 Source	25-Oct-21								-29.23	

Work Order	Well Location	Sample Point	Description	Date Sampled	$\delta^{13}C_1$	$\delta^{13}C_2$	$\delta^{13}C_3$	$\delta^{13}iC_4$	$\delta^{13}nC_4$	$\delta^{13}C_5$	$\delta^{13}nC_5$	$\delta^{13}CO_2$	Comments
21E792846	100/04-26-039-24W4/00	WELLHEAD	Nisku Prod Gas	27-Aug-21	-31.03	-33.08	-28.47	-28.90	-27.32			3.67	Difficult to pick source. This sample was full of air. Methane value indicates it was altered. C2+ concentrations are unusal, but the isotope ratios indicate a typical mature source.
21E792836	100/08-02-040-24W4/02	WELLHEAD	Nisku Prod Gas	26-Aug-21	-38.24	-31.55	-28.56	-30.83	-28.16			-5.66	This gas has an isotope fingerprint typical of a mature Devonian gas.
21R782729	100/08-02-040-24W4/02	WELLHEAD TUBING	Nisku Prod Gas	4-Aug-21	-40.32	-32.84	-28.05	-28.38	-26.28			-2.61	This gas is thermogenic and has a typical isotope fingerprint of a gas from the Nisku.
21R743507	100/08-35-039-24W4/02	WELLHEAD TUBING	Nisku Prod Gas	13-May-21	-39.36	-32.65	-28.11	-29.37	-27.04			-6.62	This is a mature thermogenic gas that may come from or near the Nisku.
21R740736	102/09-16-040-24W4/00	SCV	Coal SCV Flow	6-May-21	-56.77	-46.80	-34.40	-27.62	-20.22				This is a shallow thermogenic gas that may come from around 200 to 300 m depth. It has not changed since measured in 2020.
21R741900	100/08-02-040-24W4/02	WELLHEAD TUBING	Nisku Prod Gas	4-May-21	-39.56	-32.11	-28.41	-29.38	-28.23			-5.44	This is a thermogenic gas that may come from around 1900 m depth.
21R728065	10-34-039-24W4	CMB HEADER	CBM Prod Gas	12-Apr-21	-54.92	-38.50	-28.52	-29.37	-27.98			8.26	This gas has an isotope fingerprint typical of CBM gases from that region.
21R728071	04-15-040-24W4	CBM HEADER	CBM Prod Gas	12-Apr-21	-55.80	-36.62	-28.54	-27.42	-28.52			8.63	This gas has an isotope fingerprint typical of CBM gases from that region.
21R711147	04-17-056-21W4	METER FIT 4116	Nutrien CO2 Source	17-Feb-21								-41.12	
21R711147	14-07-056-21W4	METER FIT 090 FIT 0210	NWR CO2 Source	17-Feb-21								-26.91	
21R707335	04-15-040-24W4	METER 090-FIT-100	Combined CO2 Source	17-Feb-21								-42.79	
2020													
20R650088	04-17-056-21W4	METER FIT 4116	Nutrien CO2 Source	15-Sep-20								-44.82	
20R650088	14-07-056-21W4	METER FIT 090 FIT 0210	NWR CO2 Source	15-Sep-20								-25.42	
20R667535	100/12-01-040-24W4/02	WELLHEAD TUBING	Nisku Prod Gas	23-Oct-20	-40.76	-33.72	-29.15	-29.09	-26.97	-26.81	-26.54		This gas has an isotope fingerprint typical of the Nisku in this region.
20R667535	100/04-11-040-24W4/02	WELLHEAD TUBING	Leduc Prod Gas	23-Oct-20	-40.48	-34.29	-29.04	-29.37	-27.04			-13.01	This gas has an isotope fingerprint typical of the Leduc in this region.
20R667535	100/10-35-039-24W4/02	WELLHEAD TUBING	Leduc Prod Gas	23-Oct-20	-40.17	-33.13	-28.22	-29.33	-27.59			-28.33	This gas has an isotope fingerprint typical of the Leduc in this region.
20R658420	102/09-16-040-24W4/00	SCV	Coal SCV Flow	2-Oct-20	-54.35	-47.15						-10.04	
20R619783	10-34-039-24W4	HEADER	CBM Prod Gas	2-Jul-20	-53.30	-38.00	-28.05	-30.72	-27.16			4.16	Typical CBM Gas
20R598691	10-34-039-24W4	HEADER	CBM Prod Gas	12-May-20	-55.50	-38.78	-28.11	-28.08	-29.63			-1.02	Typical CBM gas. Similar isotope fingerprint as before.
20R598691	100/01-02-040-24W5/02	WELLHEAD CASING	Nisku Prod Gas	12-May-20	-41.16	-30.67	-28.00	-27.19	-26.23			-8.40	Typical Nisku gas. Similar isotope fingerprint as before.
20R598691	100/04-26-039-24W4/00	CASING GAS	Nisku Prod Gas	12-May-20	2.18	-26.32	-26.46					-13.18	Atypical gas. Extremely low in methane concentration but contains multiple stray peaks on the gas chromatography run. Isotope data for methane is unusual but perhaps indicates some artificial alteration of the sample.
20R561525	04-26-039-24W4	HEADER	Nisku Prod Gas	13-Jan-20	-57.08	-32.44	-27.40	-26.27	-26.18			-4.46	This is a low maturity thermogenic gas, albiet a bit unusual. The C2+ values are relativey more enriched in 13C than would be indicated by the methane value. This header gas may be mixture.
2019													
19R833267	100/16-03-040-24W4/02	WELLHEAD	Leduc Prod Gas	22-Oct-19	-38.54	-32.38	-27.69	-29.80	-26.18			-1.55	This gas has a typical Leduc isotope fingerprint.
19R833267	100/04-11-040-24W4/00	WELLHEAD	Leduc Prod Gas	22-Oct-19	-32.57	-30.82	-27.36	-27.47	-26.21			-0.87	This has is a bit unusual having a 13-C enriched methane but the C2+ appears to be a typical Leduc gas.
19C523749	04-17-056-21W4	PV301	Nutrien CO2 Source	27-Sep-19								-41.89	
19C523749	04-17-056-21W4	Feed Gas	`	27-Sep-19	-44.79	-28.50	-27.07	-26.57	-25.37			-41.89	Typical Thermogenic Gas
19R520433	100/10-35-039-24W4/00	CASING GAS	Leduc Prod Gas	20-Sep-19	-39.48	-32.16	-28.69	-26.57	-27.06			0.50	This gas has the typical isotope fingerprint of a Leduc or Nisku gas.
19R520433	100/01-02-040-24W5/02	CASING GAS	Nisku Prod Gas	20-Sep-19	-40.10	-32.60	-27.79	-28.86	-26.28			-0.19	This gas has the typical isotope fingerprint of a Leduc or Nisku gas.
19R520433	100/12-01-040-24W4/02	CASING GAS	Nisku Prod Gas	20-Sep-19	-38.79	-32.47	-28.19	-29.97	-27.24			-0.72	This gas has the typical isotope fingerprint of a Leduc or Nisku gas.
19R496905	10-34-039-24W4	HEADER	CBM Prod Gas	25-Jul-19	-58.33	-38.26	-26.79	-27.27	-27.73			5.59	This is a typical CBM gas from this region.
19R492723	100/10-35-039-24W4/00	TEST METER RUN	Leduc Prod Gas	16-Jul-19	-39.73	-31.35	-27.09	-31.31	-25.74				This gas has the typical isotope fingerprint of a Leduc or Nisku gas.
19R492724	100/12-01-040-24W4/02	WELLHEAD	Nisku Prod Gas	16-Jul-19	-39.45	-31.41	-28.33	-26.17	-24.66				This gas has the typical isotope fingerprint of a Leduc or Nisku gas.
19R492725	100/16-02-040-24W4/00	WELLHEAD	Nisku Prod Gas	16-Jul-19	-38.90	-31.24	-27.63	-17.05	-27.25				This gas has the typical isotope fingerprint of a Leduc or Nisku gas.
19R492726	100/01-02-040-24W5/02	TEST METER RUN	Nisku Prod Gas	16-Jul-19	-39.48	-31.42	-27.09	-29.12	-26.76				This gas has the typical isotope fingerprint of a Leduc or Nisku gas.

INTEGRATED SUSTAINABILITY

Appendix 3: Soil Gas Trends

06-08
13-05
06-05
02-05
North 3 Data
10-32
05-33
01-32
14-28
12-28
06-28
16-20
14-21
12-21
06-21
05-21
07-21
North 2 Data
13-16
16-16
09-16
12-15
07-15
03-15
16-09
09-10
07-10
08-09
02-10
North 1 Data
04-12
16-03
12-02
10-02
12-01
07-02
04-02
01-02
04-01
04-01
11-35
12-36
08-34
08-35
05-36
04-35
01-35
14-26
11-26
12-25
South Data
08-27
08-26
04-26
14-23
10-22
12-23
02-23
Clive
41-24-W4
41-23-W4
40-24-W4
40-23-W4
39-24-W4
39-23-W4
821
12

Soil Gas Probe Locations
Enhance Facility Location
Approval Area Part 1
Approval Area Part 2
North 3 Data
North 2 Data
North 1 Data
South Data
Primary Road (Altalis 2020)
Secondary Road (Altalis 2020)
Stream (AEPA 2022)
Municipality (Altalis 2020)

0 1 2
Kilometers

N

1:52,000

Coordinate System: NAD 1983 UTM Zone 12N

PREPARED BY:
INTEGRATED SUSTAINABILITY

CLIENT:
enhance

ENHANCE ENERGY INC.
MMV SOIL & GROUNDWATER MONITORING 2024 ANNUAL REPORT
SOIL GAS PROBE NETWORK
LOCATIONS AND AREAS

DRAWN BY:	CHECKED BY:	APPROVED BY:
K.MATEUSH	J.FENNELL	I.GRANT

PROJECT NO.	FIGURE NO.	REVISION:
CP24-EEI-01-00	1	3

NOTES: 1-APR-25
Source: Roads and Urban Areas from Altalis. MMV Plan Area provided by Enhance. FWMIS Streams from Government of Alberta.

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41-25-W4

41-24-W4

40-25-W4

40-24-W4

39-24-W4

39-23-W4

Clive

821

12

16-09

09-10

07-10

08-09

02-10

North 1 Data

04-12

16-03

12-02

10-02

12-01

07-02

04-02

01-02

04-01

04-01

Soil Gas Probe Locations
Enhance Facility Location
Approval Area Part 1
Approval Area Part 2
North 1 Data
Primary Road (Altalis 2020)
Secondary Road (Altalis 2020)
Stream (AEPA 2022)

0 1 2
Kilometers

N

1:50,000

Coordinate System: NAD 1983 UTM Zone 12N

Fort McMurray
Grande Prairie
Edmonton
Calgary

PREPARED BY:
INTEGRATED SUSTAINABILITY

CLIENT:
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ENHANCE ENERGY INC.
MMV SOIL & GROUNDWATER MONITORING 2024 ANNUAL REPORT
SOIL GAS PROBE NETWORK
NORTH 1 AREA

DRAWN BY:	CHECKED BY:	APPROVED BY:
K.MATEUSH	J.FENNELL	I.GRANT

PROJECT NO.	FIGURE NO.	REVISION:
CP24-EEI-01-00	2	3

NOTES: 1-APR-25
Source: Roads from Altalis. MMV Plan Area provided by Enhance. FWMIS Streams from Government of Alberta.

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41-25-W4
41-24-W4
41-23-W4
40-25-W4
40-24-W4
40-23-W4
39-24-W4
39-23-W4
Clive
821
12
11-35
12-36
08-34
08-35
05-36
04-35
01-35
14-26
11-26
South Data
12-25
08-27
08-26
04-26
14-23
10-22
12-23
02-23

Soil Gas Probe Locations
Enhance Facility Location
Approval Area Part 1
Approval Area Part 2
South Data
Primary Road (Altalis 2020)
Secondary Road (Altalis 2020)
Stream (AEPA 2022)

0 1 2
Kilometers

N

1:50,000

Coordinate System: NAD 1983 UTM Zone 12N

Fort McMurray
Grande Prairie
Edmonton
Calgary

PREPARED BY:
INTEGRATED SUSTAINABILITY

CLIENT:
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MMV SOIL & GROUNDWATER MONITORING 2024 ANNUAL REPORT
SOIL GAS PROBE NETWORK
SOUTH AREA

DRAWN BY:	CHECKED BY:	APPROVED BY:
K.MATEUSH	J.FENNELL	I.GRANT

PROJECT NO.	FIGURE NO.	REVISION:
CP24-EEI-01-00	3	3

NOTES: 1-APR-25
Source: Roads from Altalis. MMV Plan Area provided by Enhance. FWMIS Streams from Government of Alberta.

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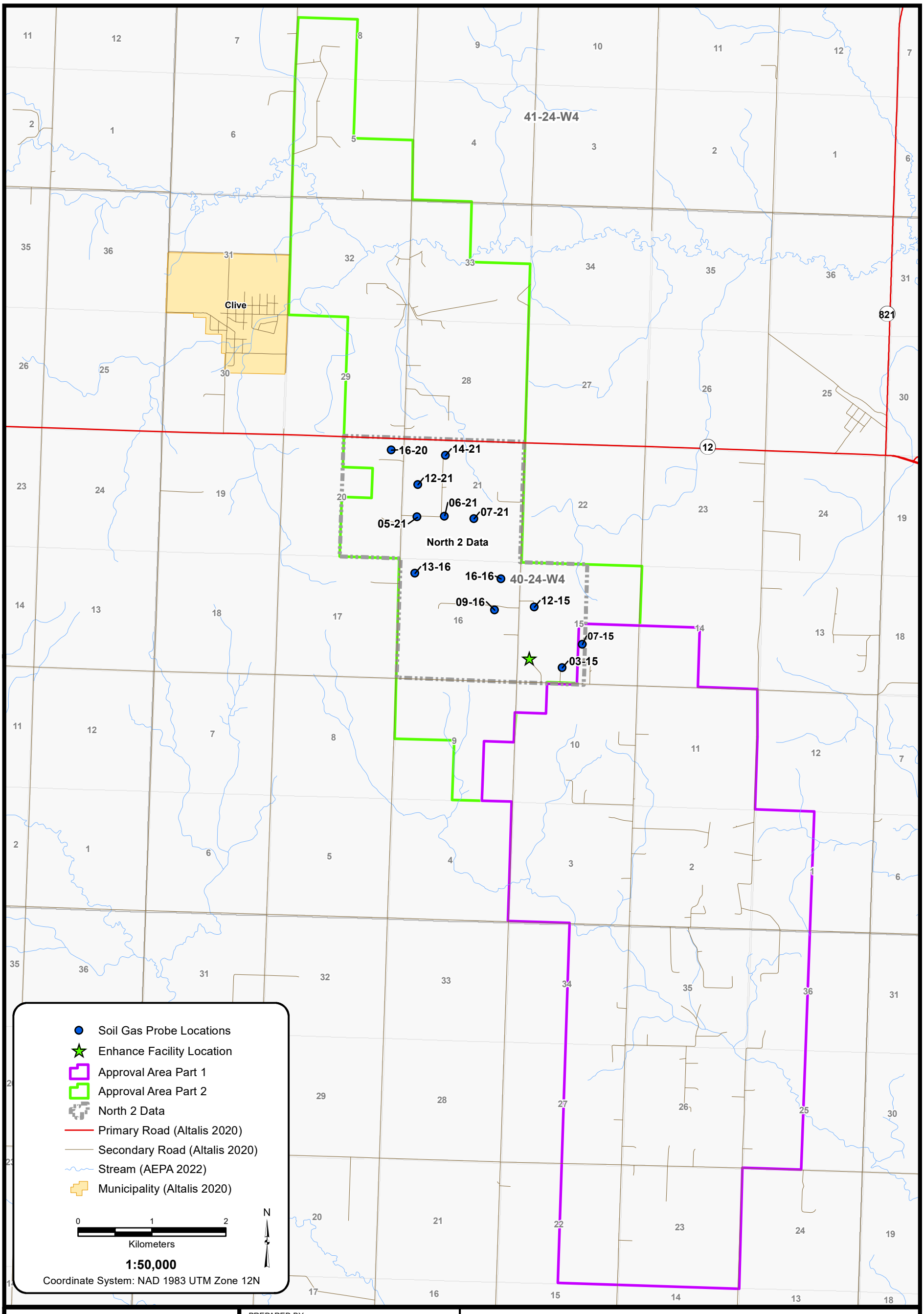

PREPARED BY:
INTEGRATED SUSTAINABILITY

CLIENT:
enhance

ENHANCE ENERGY INC.
MMV SOIL & GROUNDWATER MONITORING 2024 ANNUAL REPORT
SOIL GAS PROBE NETWORK
NORTH 2 AREA

DRAWN BY:	CHECKED BY:	APPROVED BY:
K.MATEUSH	J.FENNELL	I.GRANT

PROJECT NO.	FIGURE NO.	REVISION:
CP24-EEI-01-00	4	3

NOTES: 1-APR-25
Source: Roads and Urban Areas from Altalis. MMV Plan Area provided by Enhance. FWMIS Streams from Government of Alberta.

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06-08
13-05
06-05
02-05
North 3 Data
10-32
05-33
01-32
14-28
12-28
06-28
Clive
41-25-W4
41-24-W4
40-25-W4
40-24-W4
39-24-W4
821
12

Soil Gas Probe Locations
Enhance Facility Location
Approval Area Part 1
Approval Area Part 2
North 3 Data
Primary Road (Altalis 2020)
Secondary Road (Altalis 2020)
Stream (AEPA 2022)
Municipality (Altalis 2020)

0 1 2
Kilometers

N

1:50,000

Coordinate System: NAD 1983 UTM Zone 12N

Fort McMurray
Grande Prairie
Edmonton
Calgary

PREPARED BY:
INTEGRATED SUSTAINABILITY

CLIENT:
enhance

ENHANCE ENERGY INC.
MMV SOIL & GROUNDWATER MONITORING 2024 ANNUAL REPORT
SOIL GAS PROBE NETWORK
NORTH 3 AREA

DRAWN BY:	CHECKED BY:	APPROVED BY:
K.MATEUSH	J.FENNELL	I.GRANT

PROJECT NO.	FIGURE NO.	REVISION:
CP24-EEI-01-00	5	3

NOTES: 1-APR-25
Source: Roads and Urban Areas from Altalis. MMV Plan Area provided by Enhance. FWMIS Streams from Government of Alberta.

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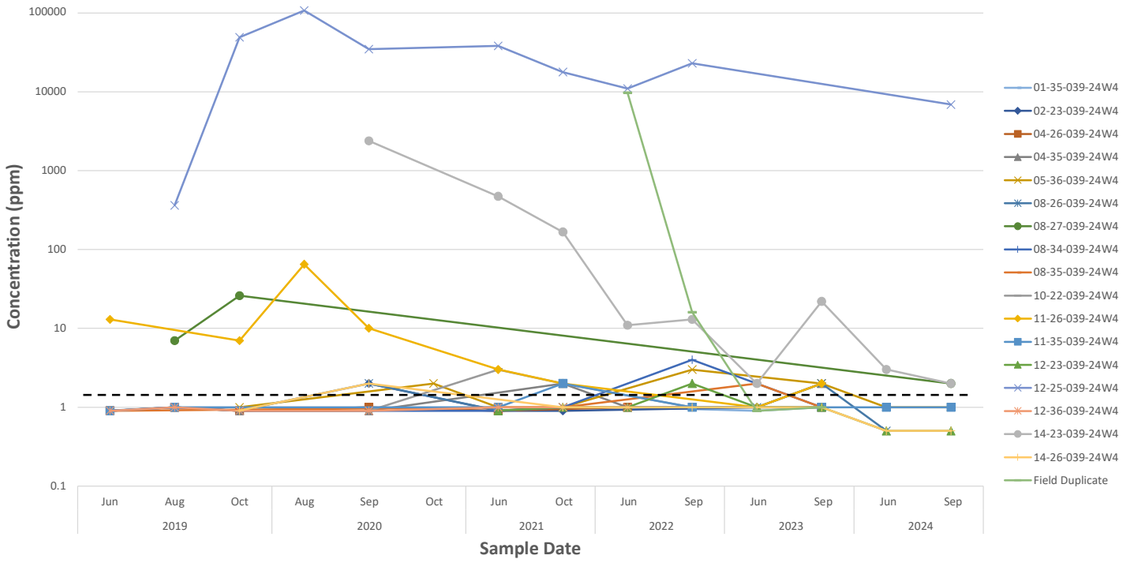
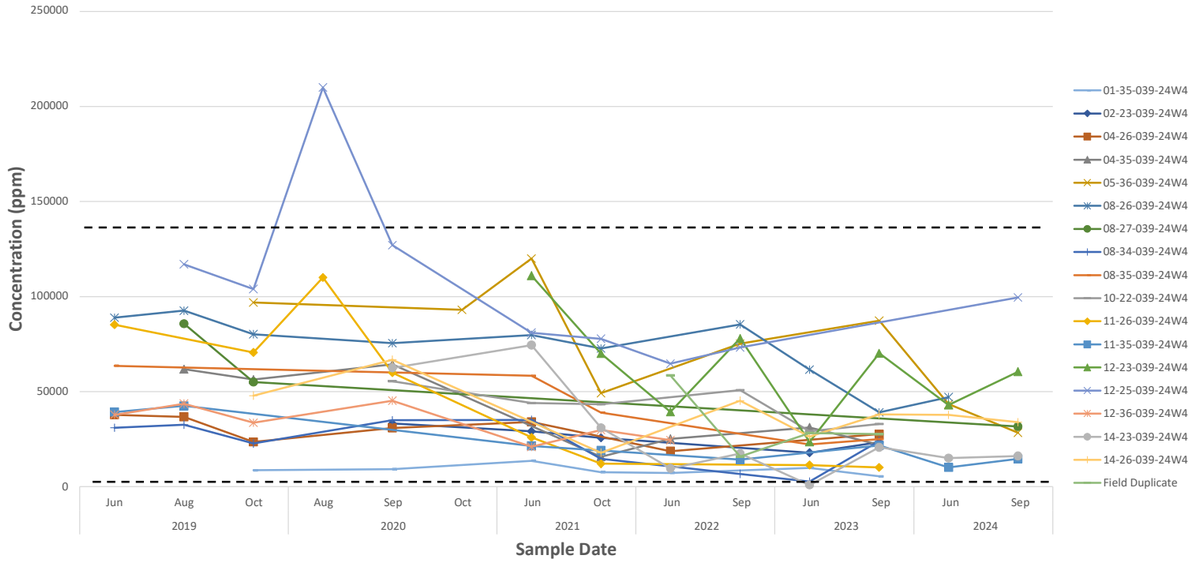
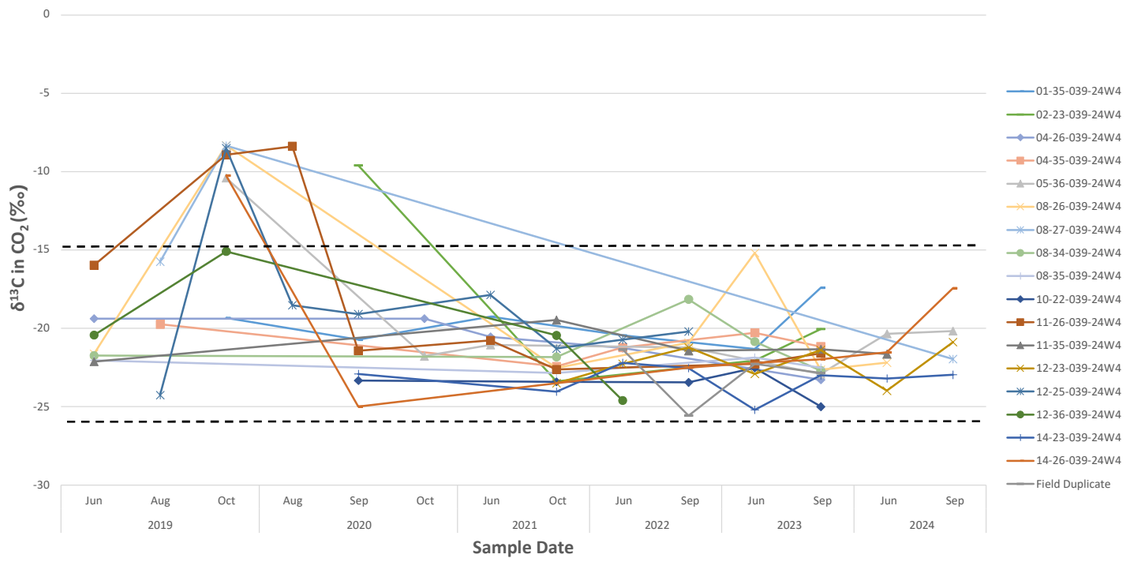
Time Series Plot - CH4



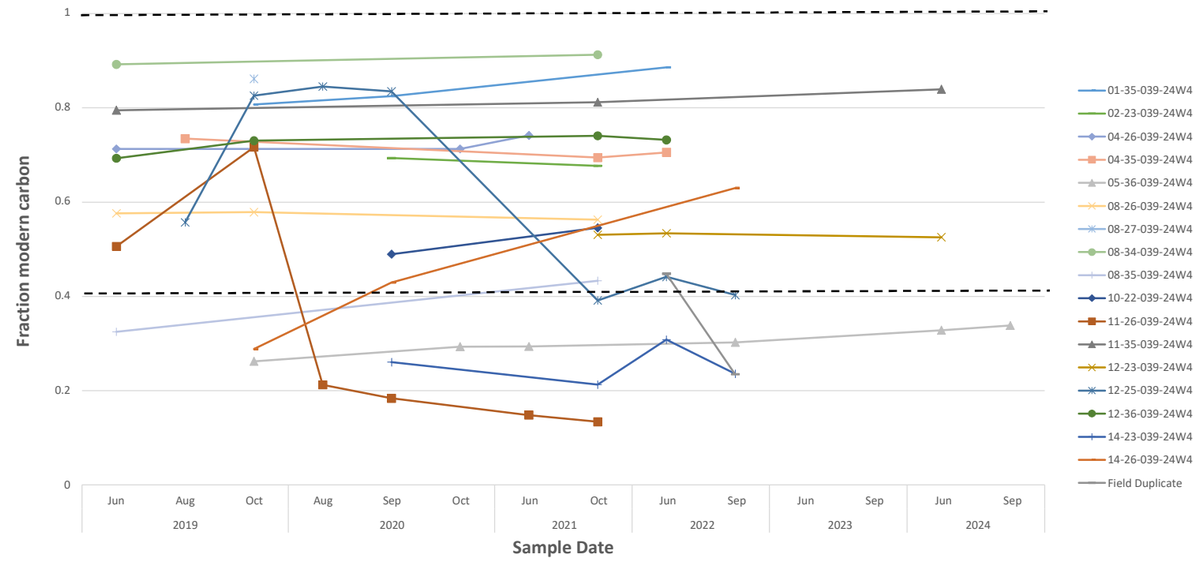
Time Series Plot - CO_2



Time Series Plot - $\delta^{13}C$ in CO_2



Time Series Plot - F14C in CO2



Notes:
1. ---- Represents represents the 99% confidence interval of the 2019-2023 baseline data 2. CH4 Concentrations measured below the laboratory detection limit of 1 ppm are reported as 0.5 ppm

PREPARED BY: INTEGRATED SUSTAINABILITY

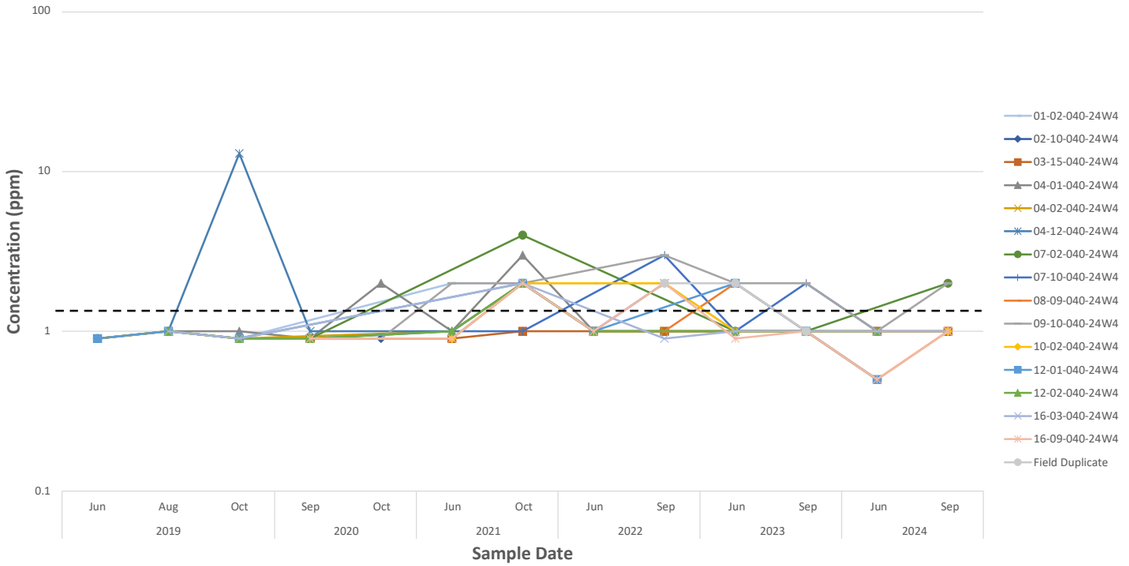
CLIENT: enhance

Clive CO_2 Injection & Enhanced Oil Recovery Project
MMV Soil & Groundwater Monitoring 2024 Annual Report
Time Series Concentration Plot - South Data

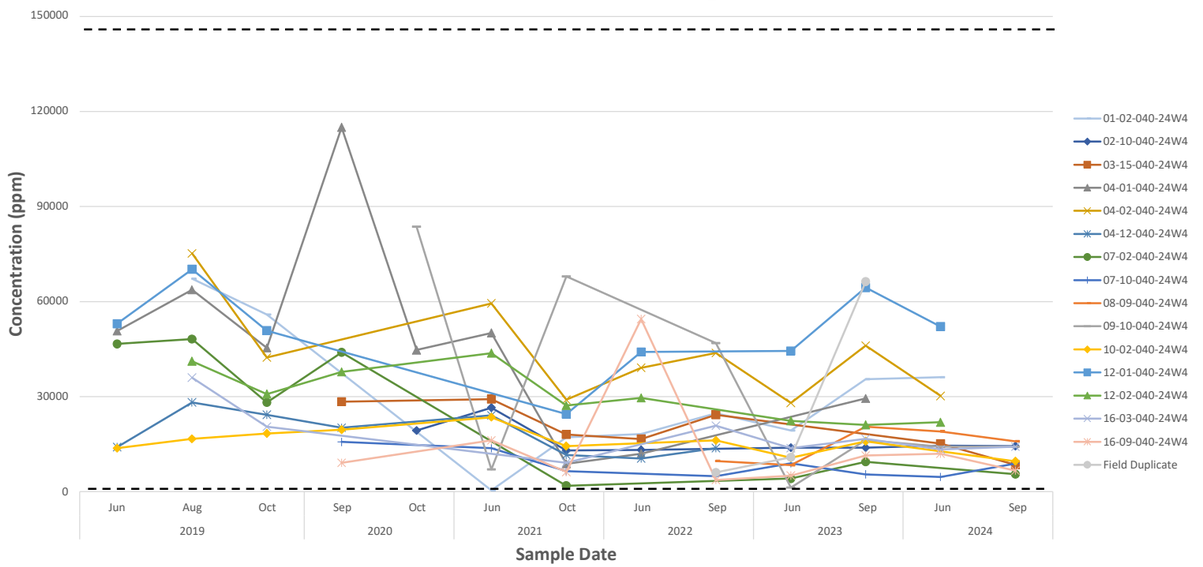
DRAWN BY	CHECKED BY	APPROVED BY	DATE
A. Petrowitsch	J. Fennell	A. Petrowitsch	April 1, 2025

SCALE	PROJECT NO.	FIGURE NO.	REVISION
-	CP24-EEI-01-00	FIGURE 6	3

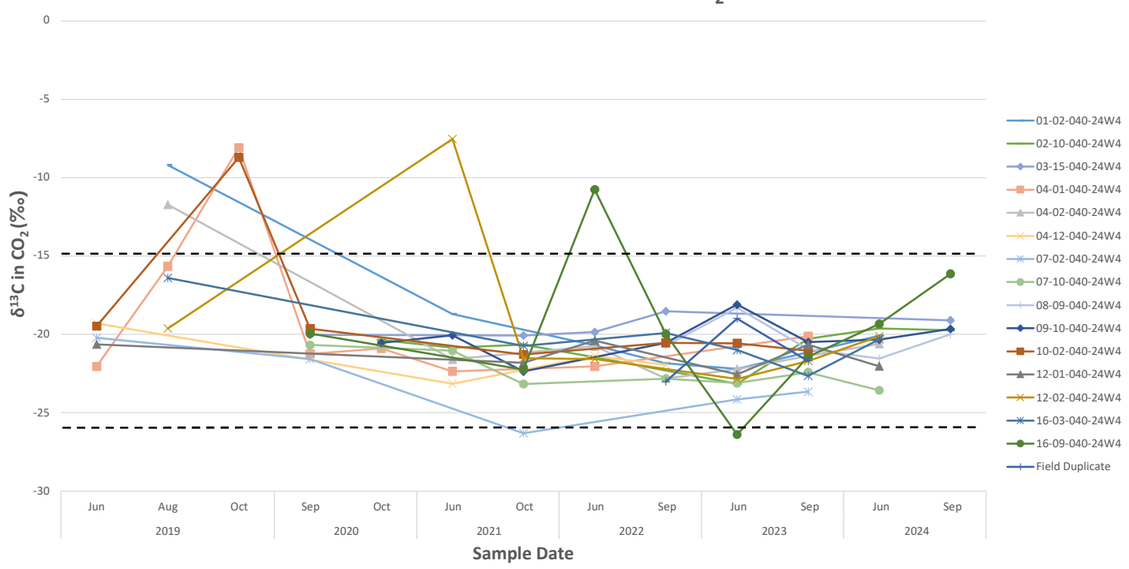
Time Series Plot - CH4



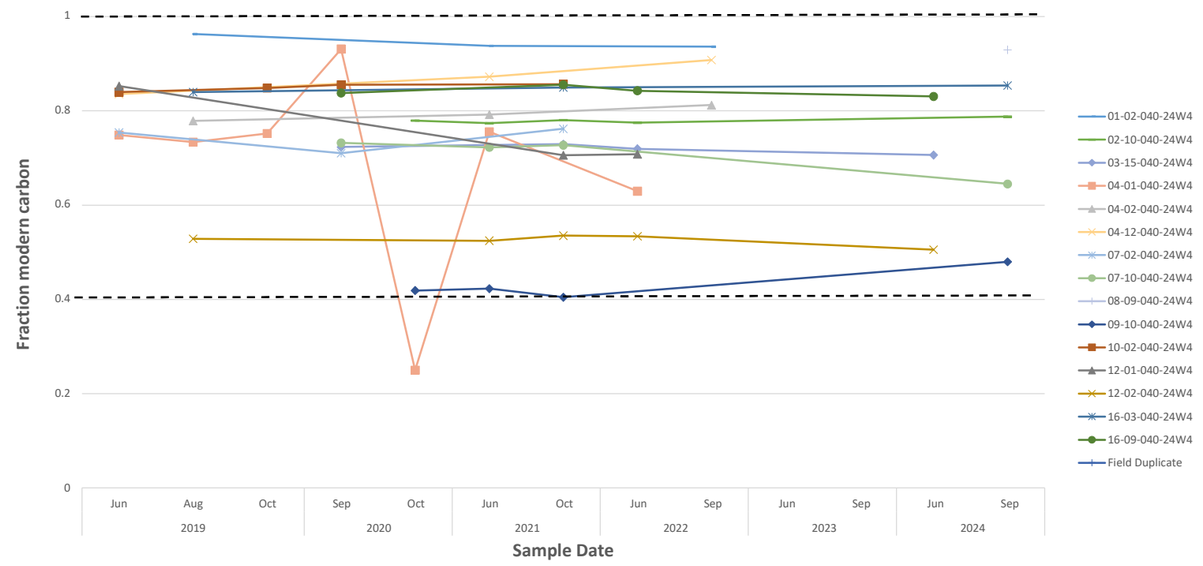
Time Series Plot - CO_2



Time Series Plot - $\delta^{13}C$ in CO_2



Time Series Plot - F14C in CO2

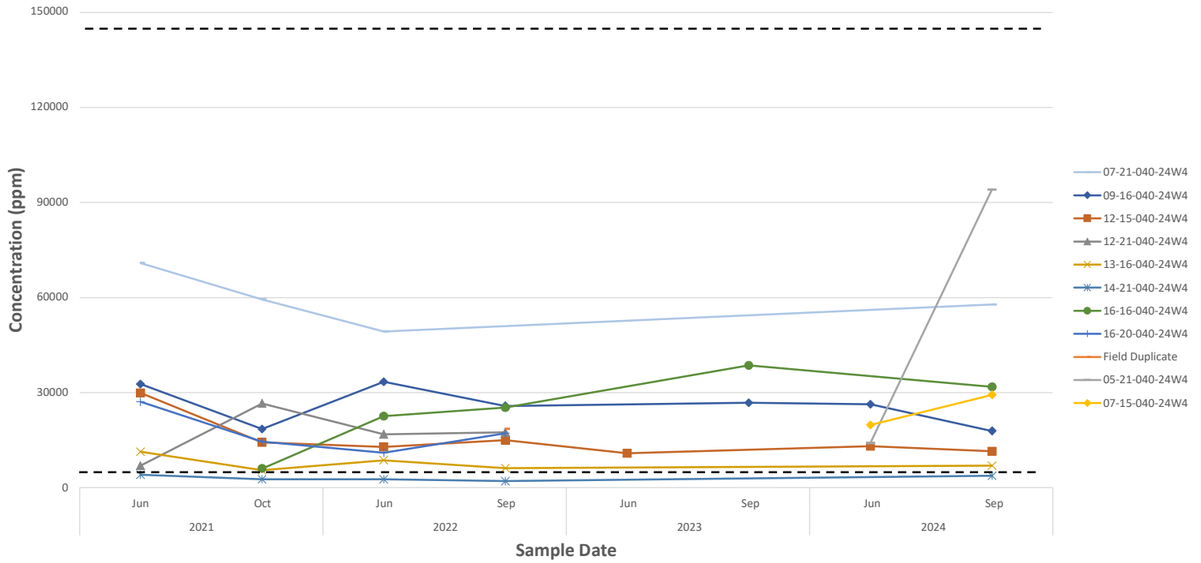


Notes:
1. ---- Represents represents the 99% confidence interval of the 2019-2023 baseline data 2. CH4 Concentrations measured below the laboratory detection limit of 1 ppm are reported as 0.5 ppm

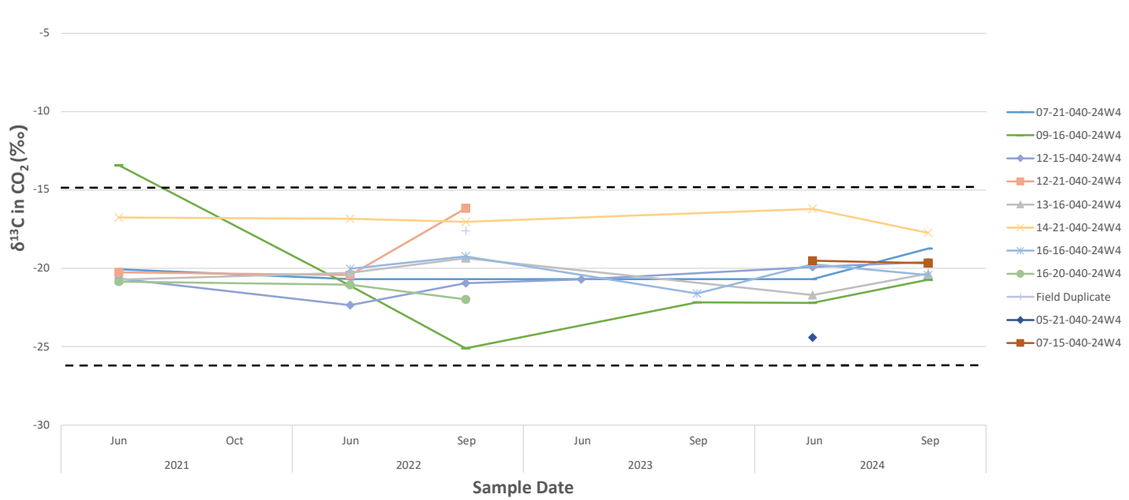
PREPARED BY: INTEGRATED SUSTAINABILITY	Clive CO_2 Injection & Enhanced Oil Recovery Project MMV Soil & Groundwater Monitoring 2024 Annual Report Time Series Concentration Plot - North 1				
CLIENT: enhance	DRAWN BY: A. Petrowitsch	CHECKED BY: J. Fennell	APPROVED BY: A. Petrowitsch	DATE: April 1, 2025	
	SCALE: -	PROJECT NO: CP24-EEI-01-00	FIGURE NO: FIGURE 7	REVISION: 3	

Time Series Plot - CH4

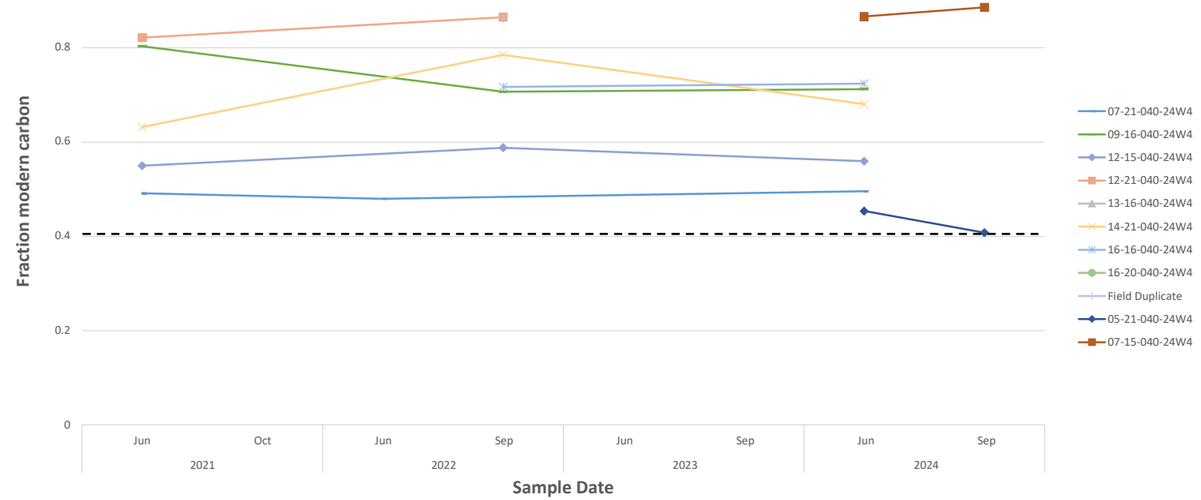
Time Series Plot - CO_2



Time Series Plot - $\delta^{13}C$ in CO_2



Time Series Plot - F14C in CO2



Notes:
1. ---- Represents the range of baseline conditions
2. CH4 Concentrations measured below the laboratory detection limit of 1 ppm are reported as 0.5 ppm

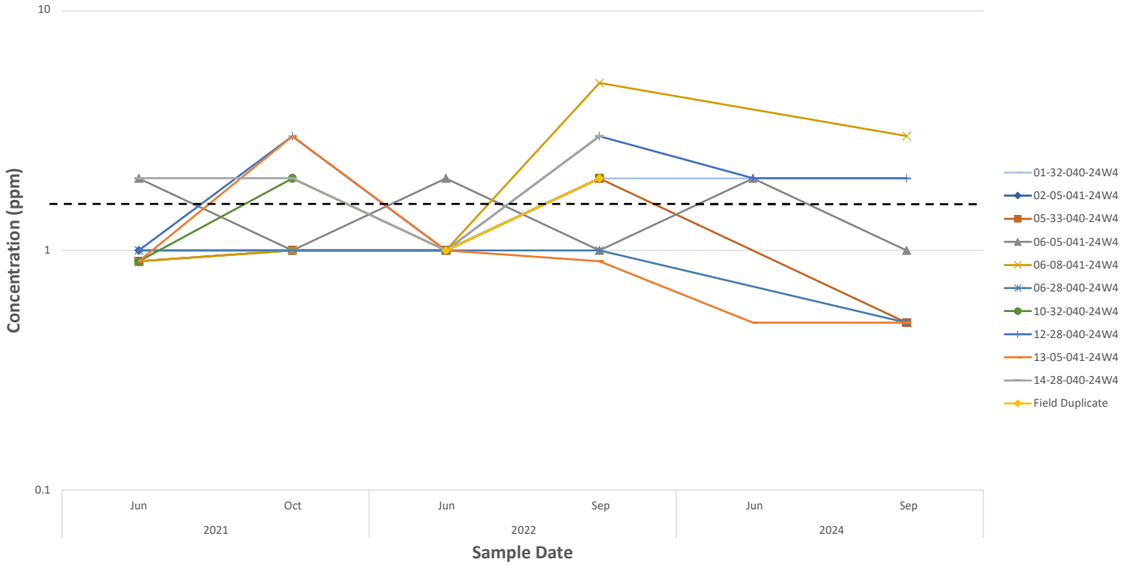
PREPARED BY: INTEGRATED SUSTAINABILITY
CLIENT: enhance

Clive CO_2 Injection & Enhanced Oil Recovery Project
MMV Soil & Groundwater Monitoring 2024 Annual Report
Time Series Concentration Plot - North 2

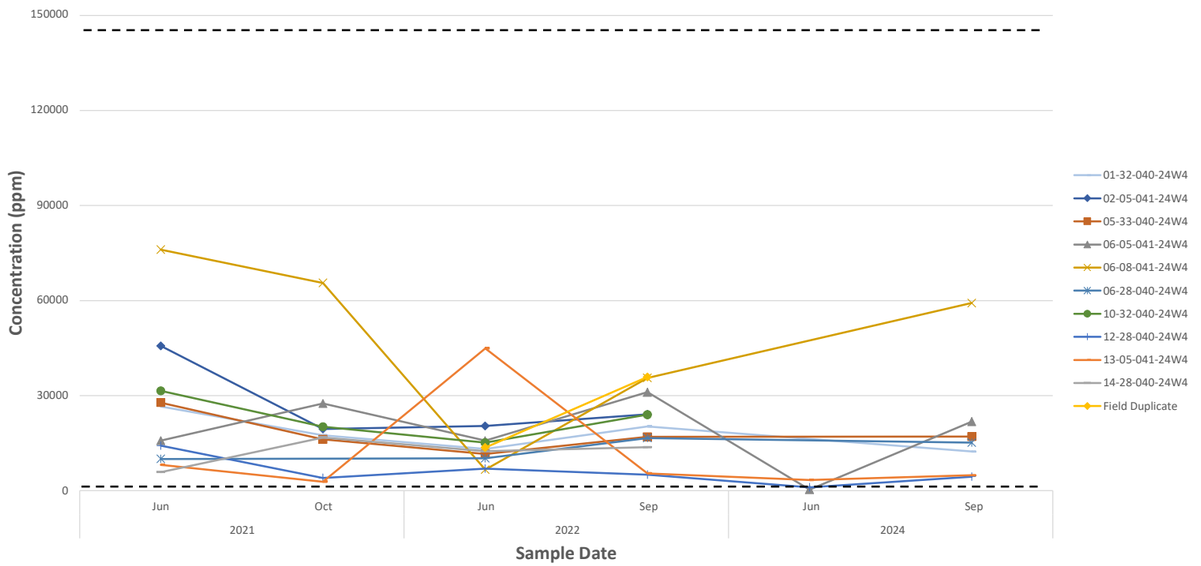
DRAWN BY	CHECKED BY	APPROVED BY	DATE
A. Petrowitsch	J. Fennell	A. Petrowitsch	April 1, 2025

SCALE	PROJECT NO.	FIGURE NO.	REVISION
-	CP24-EEI-01-00	FIGURE 8	3

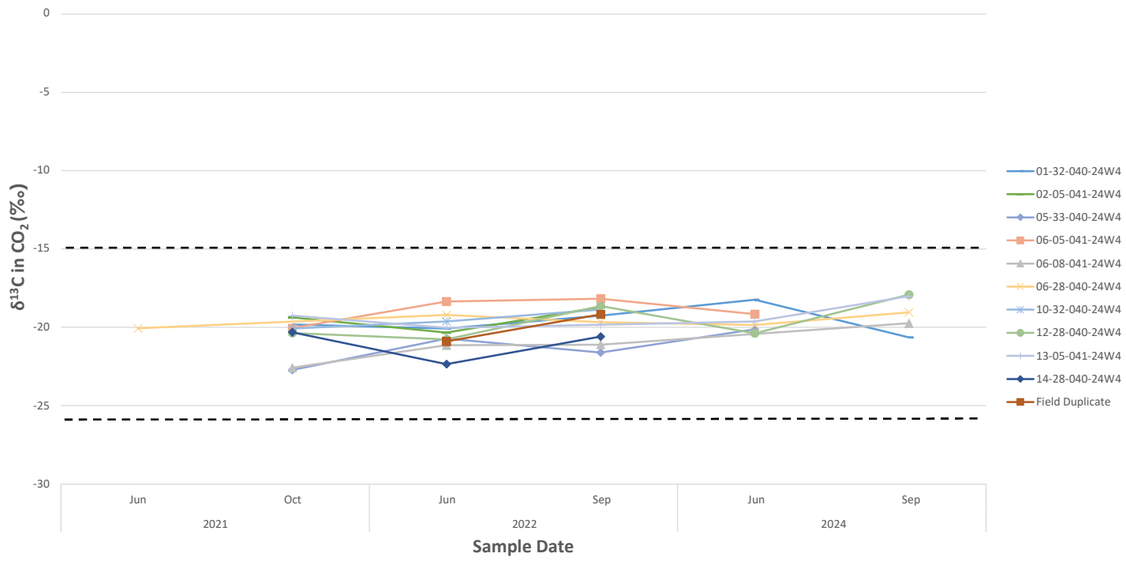
Time Series Plot - CH4



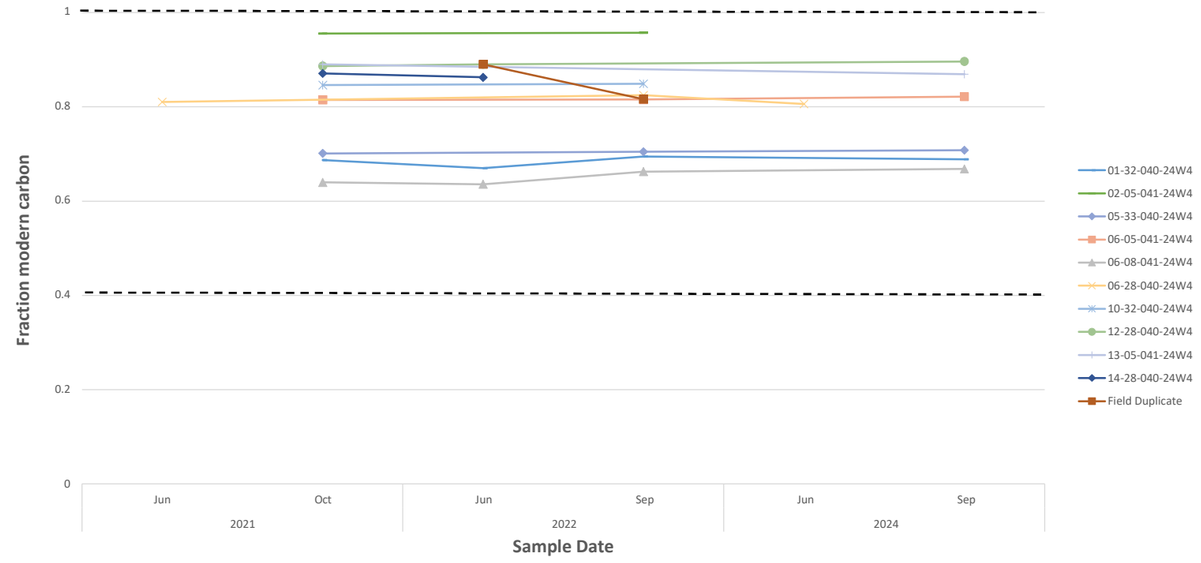
Time Series Plot - CO_2



Time Series Plot - $\delta^{13}C$ in CO_2



Time Series Plot - F14C in CO2



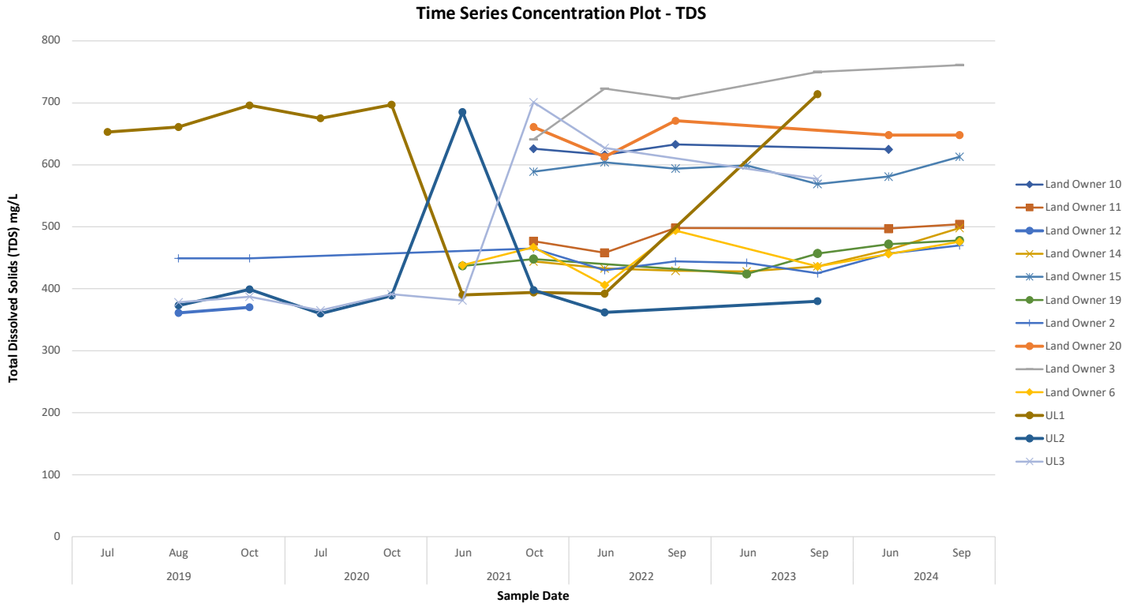
Notes:
1. ---- Represents represents the 99% confidence interval of the 2019-2023 baseline data 2. CH4 Concentrations measured below the laboratory detection limit of 1 ppm are reported as 0.5 ppm

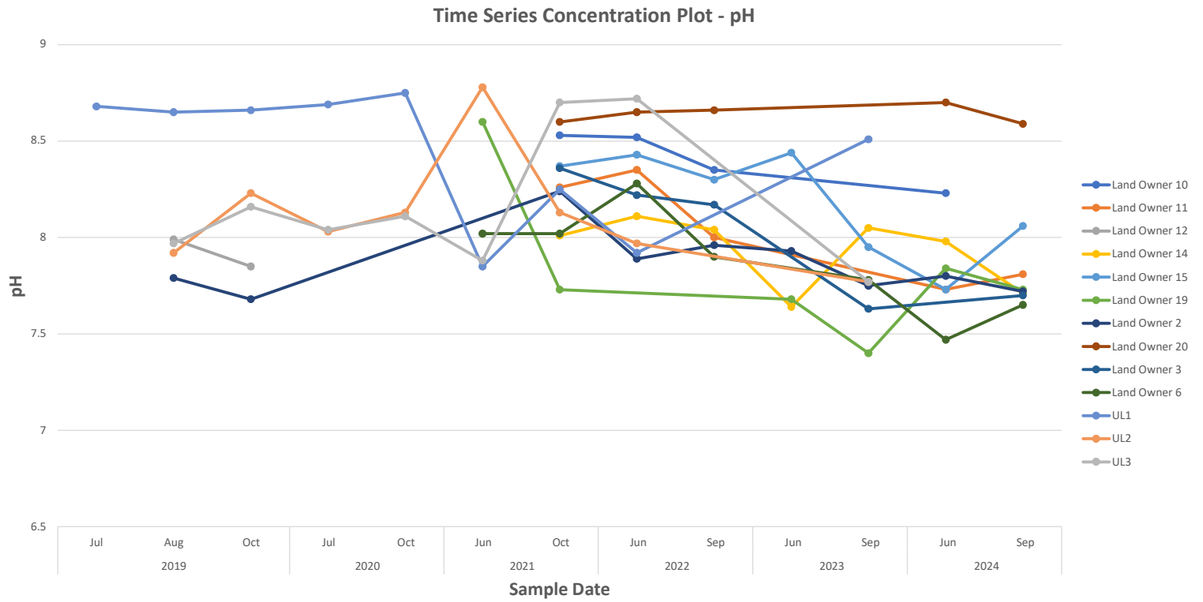
PREPARED BY: INTEGRATED SUSTAINABILITY
CLIENT: enhance

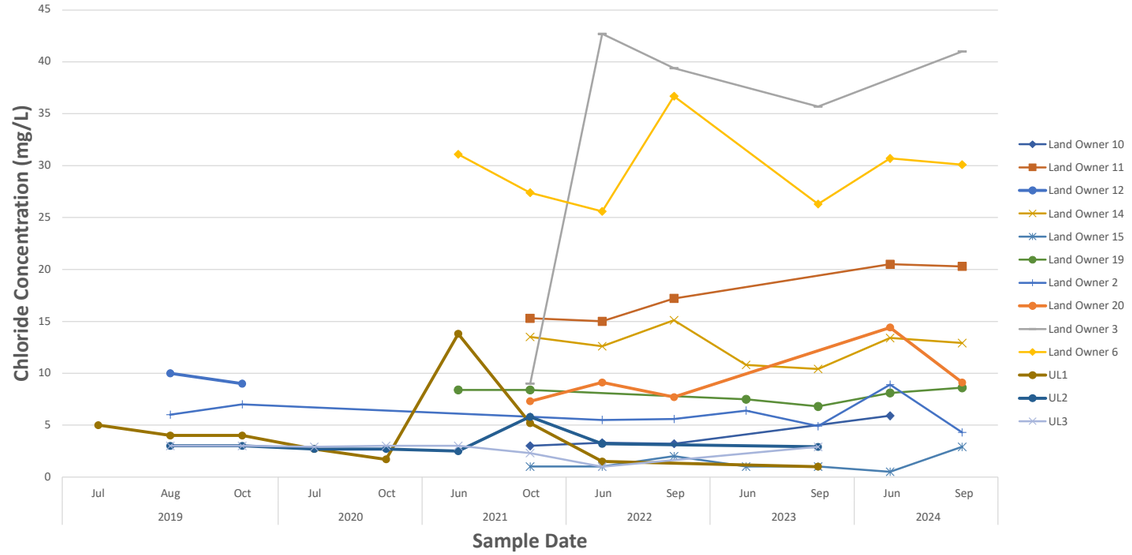
Clive CO_2 Injection & Enhanced Oil Recovery Project
MMV Soil & Groundwater Monitoring 2024 Annual Report
Time Series Concentration Plot - North 3

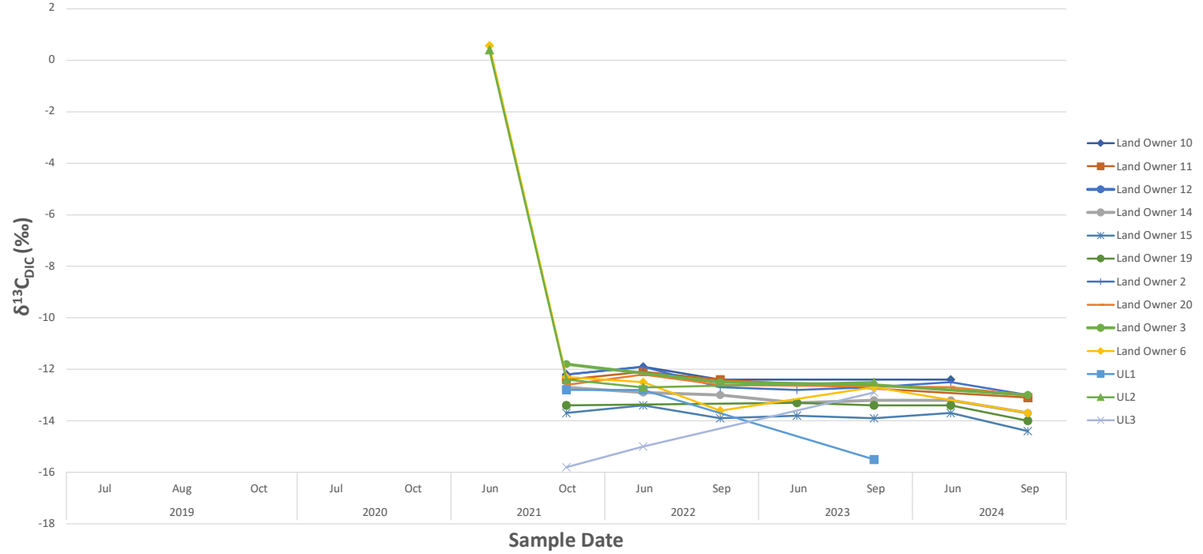
DRAWN BY	CHECKED BY	APPROVED BY	DATE
A. Petrowitsch	J. Fennell	A. Petrowitsch	April 1, 2025

SCALE	PROJECT NO.	FIGURE NO.	REVISION
-	CP24-EEI-01-00	FIGURE 9	3









Notes:
1. The Guidelines for Canadian Drinking Water Quality standard for the Maximum Allowable Concentration for pH is between 7.0 – 10.5
2. The Guidelines for Canadian Drinking Water Quality standard for the Aesthetic Objective (AO) for TDS is <500 mg/L
3. The Guidelines for Canadian Drinking Water Quality standard for the Aesthetic Objective (AO) for chloride is <250 mg/L

PREPARED BY: INTEGRATED SUSTAINABILITY

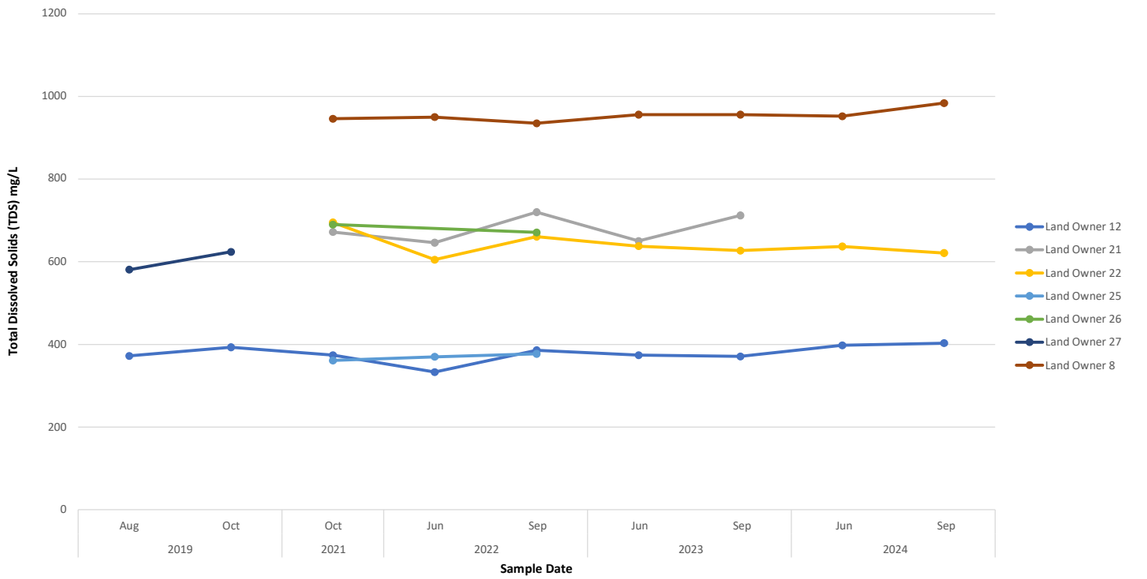
CLIENT: enhance

Clive CO_2 Injection & Enhanced Oil Recovery Project
MMV Soil & Groundwater Monitoring 2024 Annual Report
Groundwater Time Series Concentration Plot - North 1 Data

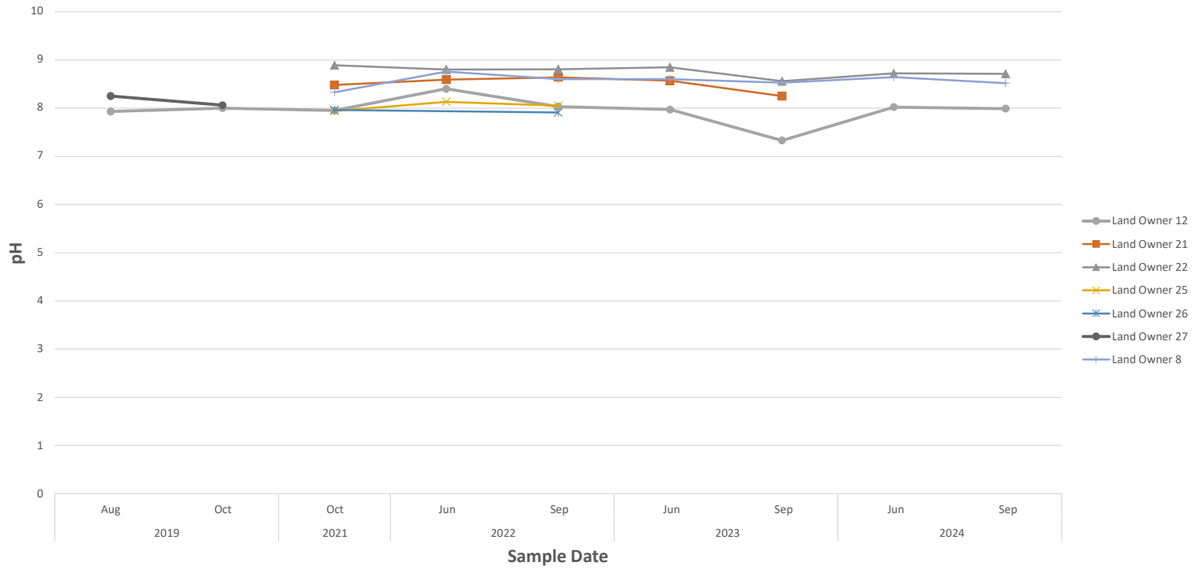
DRAWN BY	CHECKED BY	APPROVED BY	DATE
A. Petrowitsch	J. Fennell	A. Petrowitsch	January 6, 2025

SCALE	PROJECT NO.	FIGURE NO.	REVISION
-	CP24-EEI-01-00	FIGURE 10	3

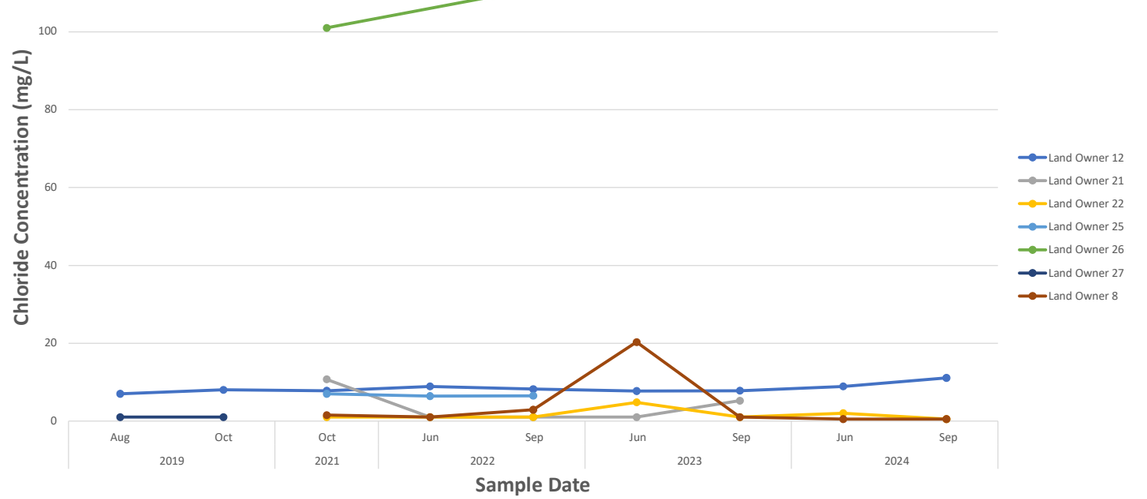
Time Series Concentration Plot - TDS



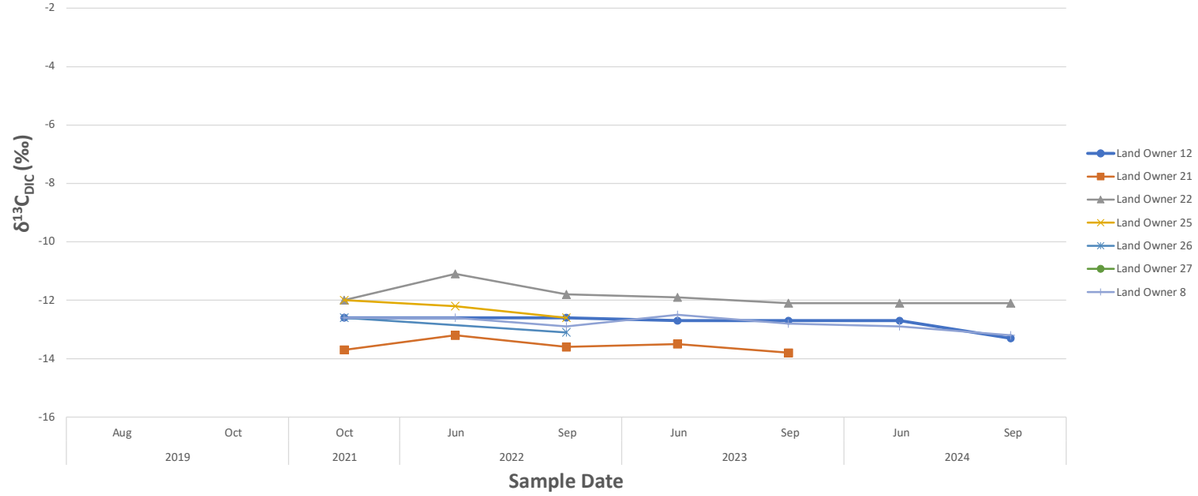
Time Series Concentration Plot - pH



Time Series Concentration Plot - Chloride



Time Series Plot - $\delta^{13}C_{DIC}$ (‰)



Notes:
1. The Guidelines for Canadian Drinking Water Quality standard for the Maximum Allowable Concentration for pH is between 7.0 – 10.5
2. The Guidelines for Canadian Drinking Water Quality standard for the Aesthetic Objective (AO) for TDS is <500 mg/L
3. The Guidelines for Canadian Drinking Water Quality standard for the Aesthetic Objective (AO) for chloride is <250 mg/L

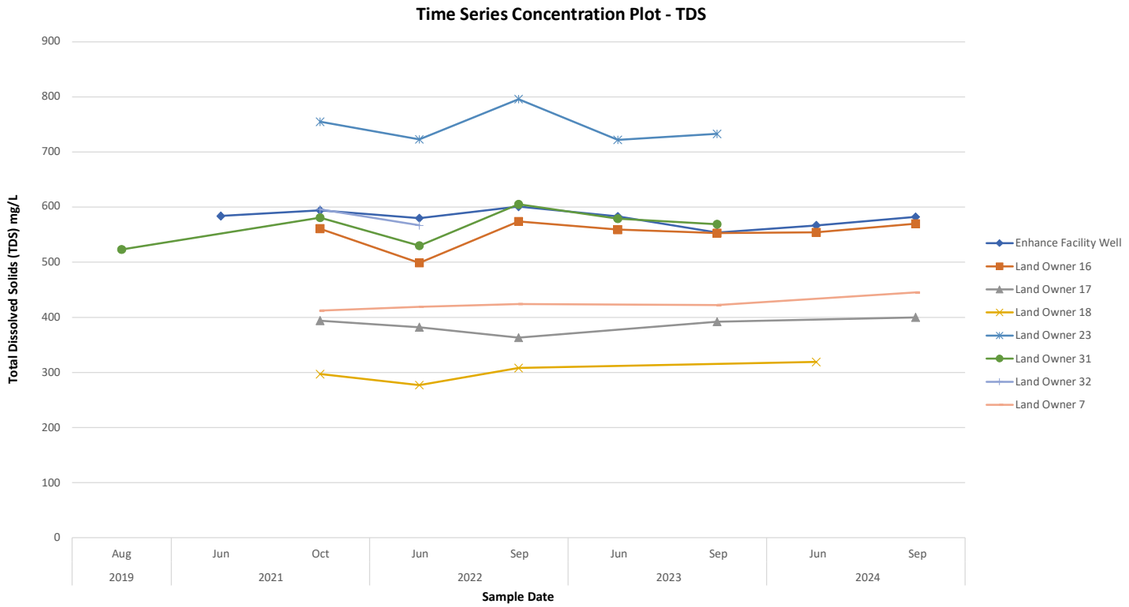
PREPARED BY: INTEGRATED SUSTAINABILITY

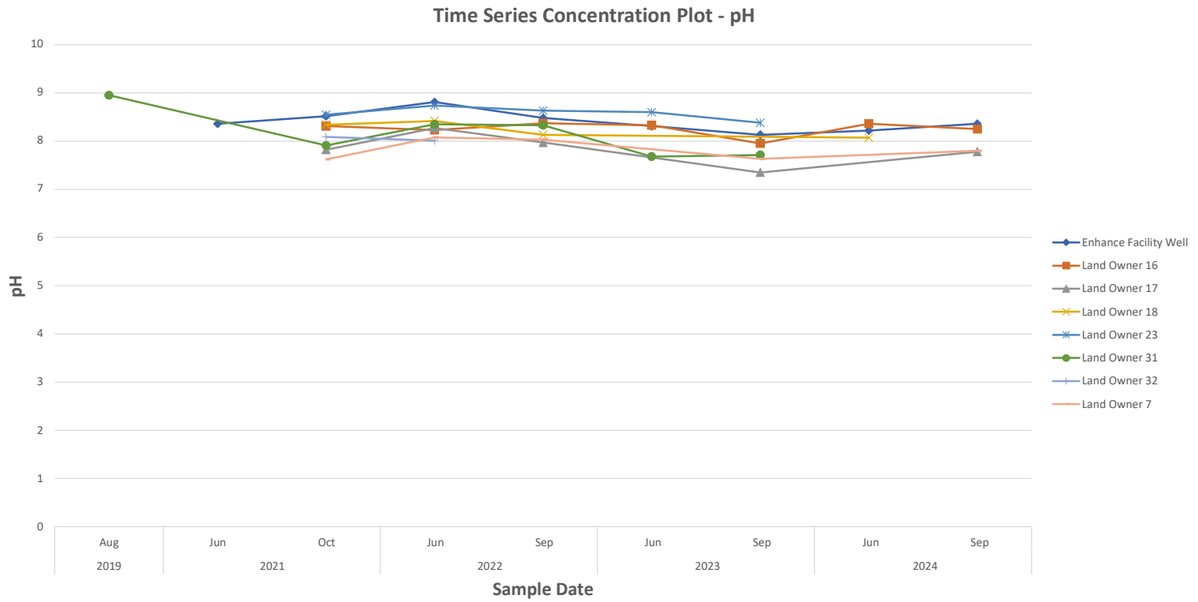
CLIENT: enhance

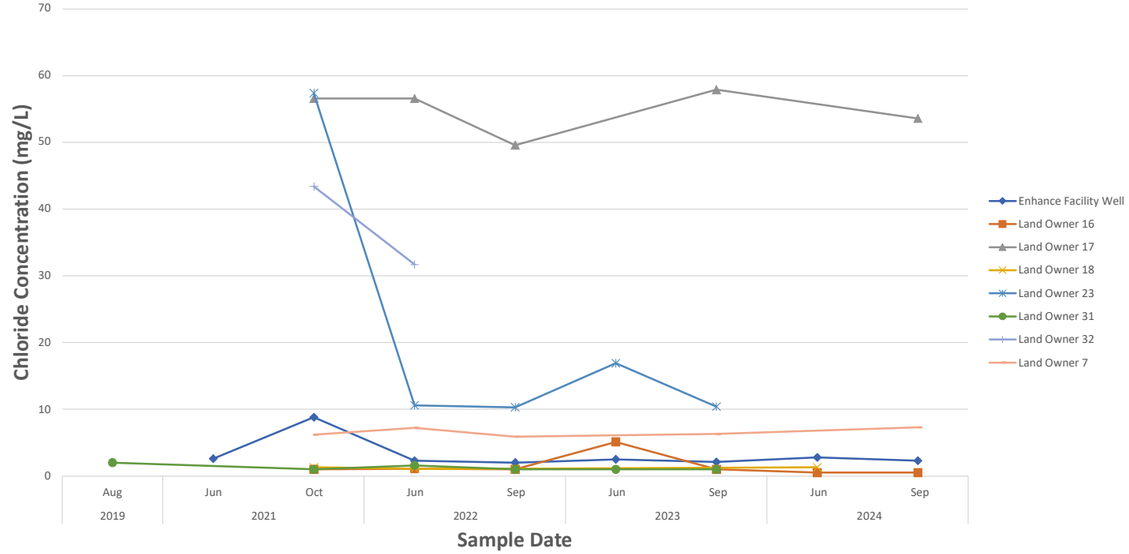
Clive CO_2 Injection & Enhanced Oil Recovery Project
MMV Soil & Groundwater Monitoring 2024 Annual Report
Groundwater Time Series Concentration Plot - North 2 Data

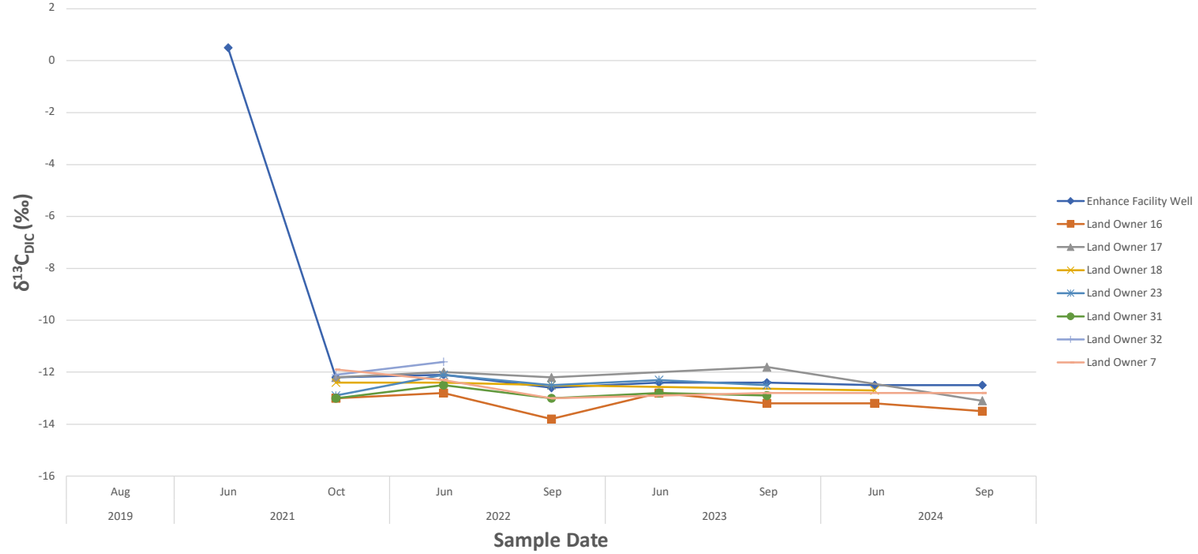
DRAWN BY	CHECKED BY	APPROVED BY:	DATE
A. Petrowitsch	J. Fennell	A. Petrowitsch	January 6, 2025

SCALE	PROJECT NO.	FIGURE NO.	REVISION
-	CP24-EEI-01-00	FIGURE 11	3









Notes:
1. The Guidelines for Canadian Drinking Water Quality standard for the Maximum Allowable Concentration for pH is between 7.0 – 10.5
2. The Guidelines for Canadian Drinking Water Quality standard for the Aesthetic Objective (AO) for TDS is <500 mg/L
3. The Guidelines for Canadian Drinking Water Quality standard for the Aesthetic Objective (AO) for chloride is <250 mg/L

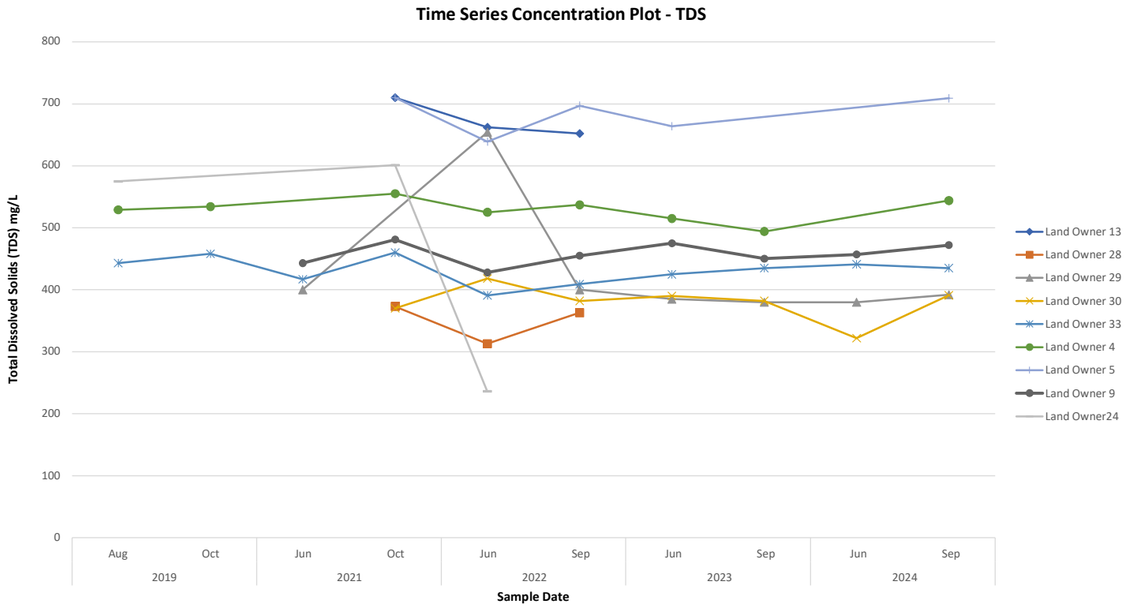
PREPARED BY: INTEGRATED SUSTAINABILITY

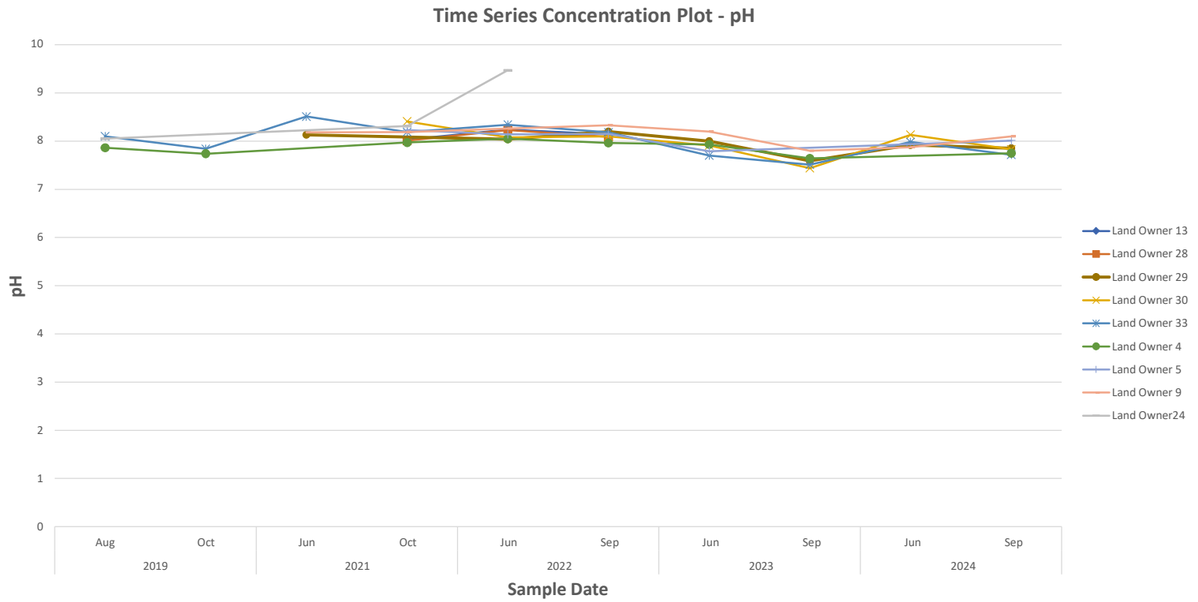
CLIENT: enhance

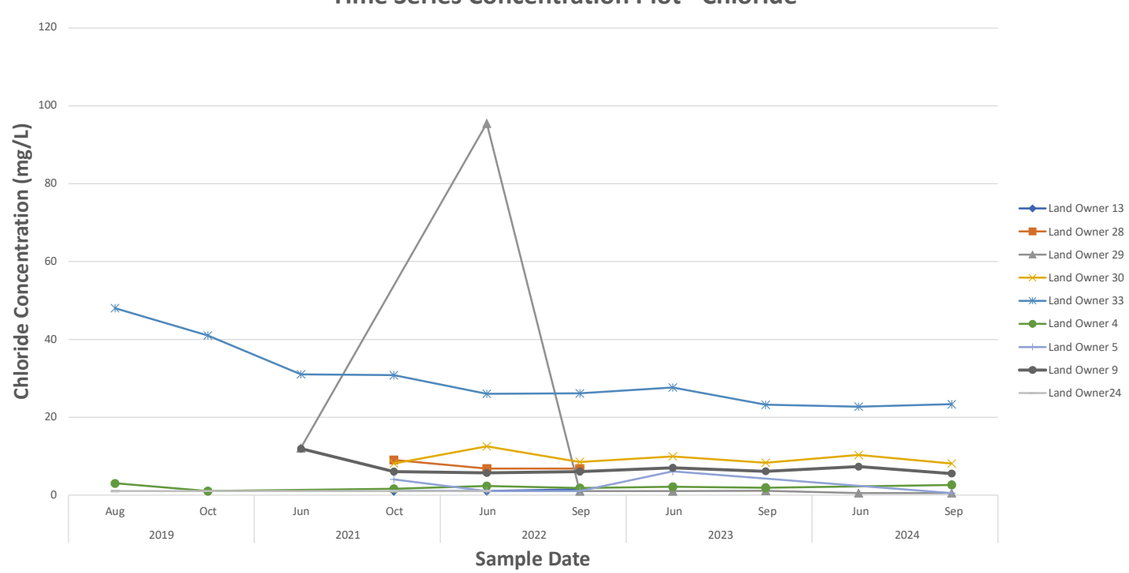
Clive CO_2 Injection & Enhanced Oil Recovery Project
MMV Soil & Groundwater Monitoring 2024 Annual Report
Groundwater Time Series Concentration Plot - North 3 Data

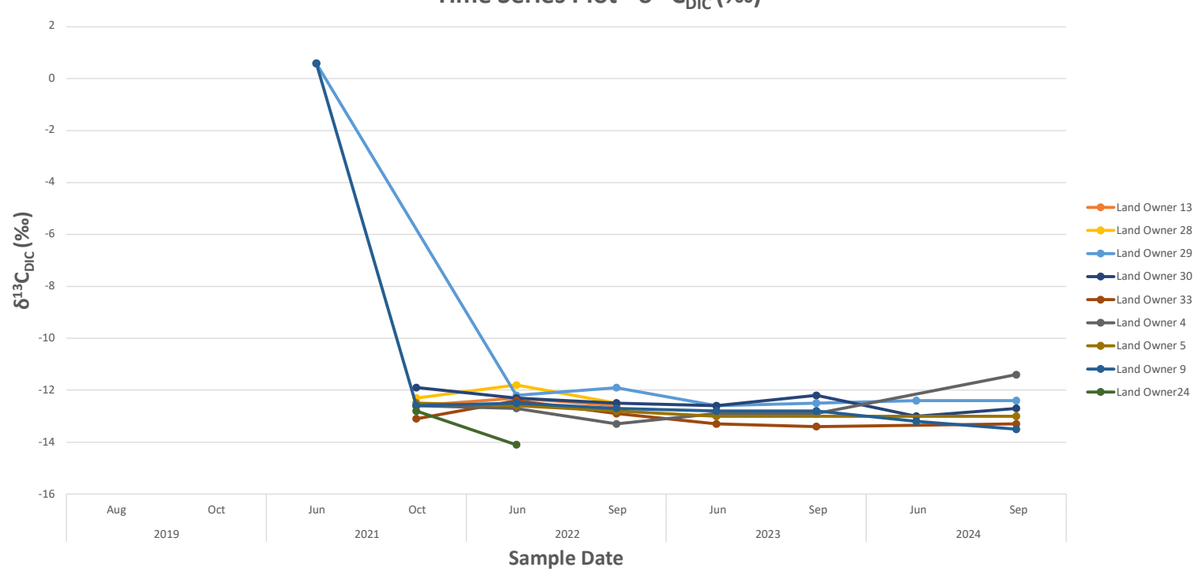
DRAWN BY	CHECKED BY	APPROVED BY	DATE
A. Petrowitsch	J. Fennell	A. Petrowitsch	January 6, 2025

SCALE	PROJECT NO.	FIGURE NO.	REVISION
-	CP24-EEI-01-00	FIGURE 12	3









Notes:
1. The Guidelines for Canadian Drinking Water Quality standard for the Maximum Allowable Concentration for pH is between 7.0 – 10.5
2. The Guidelines for Canadian Drinking Water Quality standard for the Aesthetic Objective (AO) for TDS is <500 mg/L
3. The Guidelines for Canadian Drinking Water Quality standard for the Aesthetic Objective (AO) for chloride is <250 mg/L

PREPARED BY: INTEGRATED SUSTAINABILITY

CLIENT: enhance

Clive CO_2 Injection & Enhanced Oil Recovery Project
MMV Soil & Groundwater Monitoring 2024 Annual Report
Groundwater Time Series Concentration Plot - South Data

DRAWN BY	CHECKED BY	APPROVED BY:	DATE
A. Petrowitsch	J. Fennell	A. Petrowitsch	January 6, 2025

SCALE	PROJECT NO.	FIGURE NO.	REVISION
-	CP24-EEI-01-00	FIGURE 13	3

INTEGRATED SUSTAINABILITY

Mann-Kendall Statistical Analysis (2019-2024) - Methane - BA

Filtered Trend Results, Probability > 95% And Normalized Slope > ± 10%/Year

Location	Count	Mann-Kendall S	Probability	Slope (mg/L/year)	Standard Deviation (mg/L)	Mean (mg/L)	Normalized Slope (%/year)	Min (mg/L)	Median (mg/L)	Max (mg/L)
14-23-039	10	-33	0.99	-158.3648	743	357	-905	2	17.5	2400
04-01-040	14	39	0.98	0.1734	1	1	17	< 1	1	3
01-32-040	5	8	0.96	0.4895	1	1	49	< 1	1	2.00
07-02-040	12	23	0.95	0.1232	1	1	16	< 1	0.75	4

Full Mann-Kendall Analysis, Sorted by Probability

Location	Count	Mann-Kendall S	Probability	Slope (mg/L/year)	Standard Deviation (mg/L)	Mean (mg/L)	Normalized Slope (%/year)	Min (mg/L)	Median (mg/L)	Max (mg/L)
14-23-039	10	-33	0.99	-158.3648	743	357	-905	2	17.5	2400
04-01-040	14	39	0.98	0.1734	1	1	17	< 1	1	3
01-32-040	5	8	0.96	0.4895	1	1	49	< 1	1	2.00
07-02-040	12	23	0.95	0.1232	1	1	16	< 1	1	4
08-34-039	9	15	0.94	0.1900	1	1	19	< 1	1	4.00
06-08-041	5	7	0.93	0.8413	2	2	84	< 1	1	5.00
07-10-040	9	13	0.91	0.1262	1	1	13	< 1	1	3.00
03-15-040	7	10	0.91	0.0000	0	1	0	< 1	1	1
10-02-040	10	14	0.89	0.0946	1	1	9	< 1	1	2
04-35-039	7	8	0.86	0.1818	1	1	18	< 1	1	2
08-35-039	5	5	0.86	0.1643	1	1	16	< 1	1	2
14-26-039	8	-9	0.86	-0.0853	0	1	-9	< 1	1	2
12-36-039	7	8	0.86	0.0000	0	1	0	< 1	1	1
12-28-040	7	8	0.85	0.4432	1	2	22	< 1	2	3
04-12-040	8	9	0.85	0.2031	4	3	20	< 1	1	13
08-27-039	5	-5	0.84	-4.8511	11	8	-243	< 1	2	26
13-05-041	6	-5	0.81	0.0000	1	1	0	< 1	1	3
02-05-041	4	3	0.81	0.4122	1	1	41	1	1	2.00
12-02-040	9	8	0.81	0.0000	0	1	0	< 1	1	2
06-05-041	5	-4	0.79	-0.1547	1	1	-15	1	1	2.00
04-26-039	7	6	0.78	0.0000	0	1	0	< 1	1	1
10-32-040	4	3	0.75	0.8755	1	1	58	< 1	2	2
06-28-040	4	-3	0.75	-0.0779	0	1	-8	< 1	1	1.00
08-26-039	10	8	0.75	0.0000	1	1	0	< 1	1	2
09-16-040	8	6	0.73	0.3429	1	2	23	< 1	2	3.00
08-09-040	5	-3	0.71	-0.1440	1	1	-14	< 1	1	2
12-23-039	8	-5	0.70	0.0000	0	1	0	< 1	1	2.00
01-02-040	9	-6	0.70	0.0000	1	1	0	< 1	1	2
12-25-039	18	14	0.68	1396.0286	27548	24070	8	< 1	17600	108000
01-35-039	7	4	0.68	0.0000	0	1	0	< 1	1	1
11-26-039	20	15	0.67	0.1347	14	6	7	< 1	2	65
04-02-040	9	-4	0.64	0.0000	0	1	0	< 1	1	2
09-10-040	10	4	0.63	0.0000	1	2	0	< 1	2	3.00
12-15-040	7	-3	0.62	0.0000	1	1	0	< 1	1	2
16-03-040	8	3	0.61	0.0000	0	1	0	< 1	1	2
12-01-040	8	3	0.60	0.0000	1	1	0	< 1	1	2
14-21-040	5	2	0.60	0.2522	1	1	25	< 1	1	2.00
13-16-040	5	2	0.60	0.2522	1	1	25	< 1	1	2.00
05-33-040	5	2	0.60	0.2572	1	1	26	< 1	1	2.00
11-35-039	9	2	0.55	0.0000	0	1	0	< 1	1	2
16-09-040	9	2	0.54	0.0000	1	1	0	< 1	1	2
05-36-039	8	-1	0.50	0.0000	1	2	0	1	1	3.00
02-10-040	8	-1	0.50	0.0000	1	1	0	0	1	2
10-22-039	6	1	0.50	0.0000	1	2	0	< 1	2	3
07-21-040	6	-1	0.50	0.0000	82	35	0	1	2	203
14-28-040	4	1	0.50	0.4085	1	2	20	1	2	3.00
12-21-040	4	1	0.50	0.0000	1	2	0	1	2	2.00
16-16-040	5	0	0.39	0.0000	1	2	0	1	2	3.00
02-23-039	5	0	0.39	0.0000	1	1	0	< 1	1	2
16-20-040	4	0	0.36	0.0000	0	1	0	1	1	1

INTEGRATED SUSTAINABILITY

Mann-Kendall Statistical Analysis (2019-2024) - Carbon Dioxide (CO2) -BA

Filtered Trend Results, Probability > 95% And Normalized Slope > ± 10%/Year

Location	Count	Mann-Kendall S	Probability	Slope (mg/L/year)	Standard Deviation (mg/L)	Mean (mg/L)	Normalized Slope (%/year)	Min (mg/L)	Median (mg/L)	Max (mg/L)
08-26-039-24W4	10	-31	0.99	-7951.3693	17764	72290	-10	39100	77650.0	92600
12-02-040-24W4	9	-24	0.99	-4010.0318	8526	30633	-14	21100	29600	43700
11-35-039-24W4	9	-22	0.98	-4828.9309	11363	22011	-25	10100	19100	42500
05-36-039-24W4	8	-18	0.98	-13632.1379	31191	74175	-17	28400	81250	120000
03-15-040-24W4	7	-15	0.98	-3959.5685	7580	20027	-22	8490	18000	29200
11-26-039-24W4	20	-65	0.98	-12643.0201	34366	42071	-52	2850	24200	110000
07-02-040-24W4	12	-30	0.97	-7604.6218	17654	26726	-24	1890	31500	48200
14-23-039-24W4	10	-22	0.96	-14071.3824	27672	32228	-74	897	19050	74500
04-01-040-24W4	14	-35	0.96	-11581.0975	28967	41550	-26	676	44100	115000
08-27-039-24W4	5	-8	0.95	-169343.1818	22914	50620	-325	28500	52100	85700
16-16-040-24W4	5	8	0.95	12212.5112	12211	24868	48	6040	25300	38600
08-35-039-24W4	5	-8	0.95	-9978.9237	18878	41620	-26	22200	38900	63600
02-23-039-24W4	5	-8	0.95	-5031.9633	5784	25860	-20	17900	25700	33200

Full Mann-Kendall Analysis, Sorted by Probability

Location	Count	Mann-Kendall S	Probability	Slope (mg/L/year)	Standard Deviation (mg/L)	Mean (mg/L)	Normalized Slope (%/year)	Min (mg/L)	Median (mg/L)	Max (mg/L)
08-26-039-24W4	10	-31	0.99	-7951.3693	17764	72290	-10	39100	77650.0	92600
12-02-040-24W4	9	-24	0.99	-4010.0318	8526	30633	-14	21100	29600	43700
11-35-039-24W4	9	-22	0.98	-4828.9309	11363	22011	-25	10100	19100	42500
05-36-039-24W4	8	-18	0.98	-13632.1379	31191	74175	-17	28400	81250	120000
03-15-040-24W4	7	-15	0.98	-3959.5685	7580	20027	-22	8490	18000	29200
11-26-039-24W4	20	-65	0.98	-12643.0201	34366	42071	-52	2850	24200	110000
07-02-040-24W4	12	-30	0.97	-7604.6218	17654	26726	-24	1890	31500	48200
14-23-039-24W4	10	-22	0.96	-14071.3824	27672	32228	-74	897	19050	74500
04-01-040-24W4	14	-35	0.96	-11581.0975	28967	41550	-26	676	44100	115000
08-27-039-24W4	5	-8	0.95	-169343.1818	22914	50620	-325	28500	52100	85700
16-16-040-24W4	5	8	0.95	12212.5112	12211	24868	48	6040	25300	38600
08-35-039-24W4	5	-8	0.95	-9978.9237	18878	41620	-26	22200	38900	63600
02-23-039-24W4	5	-8	0.95	-5031.9633	5784	25860	-20	17900	25700	33200
04-12-040-24W4	8	-14	0.94	-3388.2429	6707	18350	-20	10500	17150	28200
07-10-040-24W4	9	-16	0.94	-1485.2877	3869	8598	-18	4650	8470	15700
10-22-039-24W4	6	-9	0.93	-7456.1379	10078	42633	-17	29200	43650	55500
12-28-040-24W4	7	-11	0.93	-2974.2503	4682	6831	-59	1070	5050	14200
12-15-040-24W4	7	-11	0.93	-1990.4632	6565	15371	-15	10900	13100	29900
04-26-039-24W4	7	-11	0.93	-2372.9617	7060	29929	-8	18700	30900	37800
09-16-040-24W4	8	-12	0.91	-4577.2226	10628	22728	-18	427	26050	33400
01-32-040-24W4	5	-6	0.88	-4159.7958	5786	18000	-24	12400	17500	26600
04-35-039-24W4	7	-9	0.88	-9673.3989	20597	39543	-31	15700	31200	64400
12-36-039-24W4	7	-9	0.88	-6291.1710	9238	33657	-19	21000	33700	45200
08-34-039-24W4	9	-12	0.87	-5355.0188	12220	22720	-22	2660	24000	35100
04-02-040-24W4	9	-12	0.87	-6272.1243	15461	43678	-15	28000	42300	75200
07-21-040-24W4	6	-7	0.87	-9927.6808	27808	42242	-19	433	53550	70920
14-26-039-24W4	8	-10	0.86	-3475.8800	14762	39213	-9	17900	37850	66800
16-03-040-24W4	8	-10	0.86	-2164.0728	8223	18043	-14	9140	15450	36000
10-02-040-24W4	10	-13	0.85	-772.1347	4109	15872	-5	9620	16050	23500
06-28-040-24W4	4	4	0.84	1926.8801	3392	13005	15	10020	12700	16600
09-10-040-24W4	10	-11	0.81	-9972.5492	29211	31141	-65	1270	15250	83600
01-35-039-24W4	7	-7	0.81	-805.1755	2560	8813	-9	5440	8610	13600
12-23-039-24W4	8	-8	0.80	-9873.8282	27089	61963	-15	23600	65250	111000
06-08-041-24W4	5	-4	0.76	-18797.1683	27782	48628	-32	6640	59200	76100
14-21-040-24W4	5	-3	0.69	-367.4769	852	3048	-14	2070	2650	4100
06-05-041-24W4	5	3	0.69	2256.7835	6877	22400	10	15800	21800	31100
13-05-041-24W4	6	-3	0.64	-1032.4316	16417	11607	-20	2850	5160	44900
12-25-039-24W4	18	10	0.63	2314.7250	46788	97644	3	23000	90300	210000
16-20-040-24W4	4	-2	0.63	-6530.3489	6916	17450	-41	11000	15850	27100
14-28-040-24W4	4	2	0.63	5576.9813	4599	12220	43	5880	13100	16800
12-21-040-24W4	4	2	0.63	5607.5656	8038	16983	33	6930	17200	26600
10-32-040-24W4	4	-2	0.63	-6759.0140	6871	22725	-31	15200	22100	31500
01-02-040-24W4	9	4	0.62	1161.0435	20737	30503	5	427	24700	67200
08-09-040-24W4	5	2	0.59	4260.0755	5458	14684	27	8360	15900	20500
13-16-040-24W4	5	-2	0.59	-1066.8884	2331	7718	-15	5560	6920	11340
12-01-040-24W4	8	-2	0.54	-792.0519	13858	50438	-2	24500	51450	70200
16-09-040-24W4	9	-2	0.54	-642.5917	15734	13868	-7	3730	9100	54500
02-10-040-24W4	8	1	0.50	108.7053	4648	16094	1	13050	14150	26500
05-33-040-24W4	5	0	0.40	-1631.1594	5959	17940	-10	11600	17000	27800
02-05-041-24W4	4	0	0.36	-8244.4243	12345	27425	-37	19500	22250	45700

INTEGRATED SUSTAINABILITY

Mann-Kendall Statistical Analysis (2019-2024) - d13C-CO2

Filtered Trend Results, Probability > 95% And Normalized Slope > ± 10%/Year

Location	Count	Mann-Kendall S	Probability	Slope (mg/L/year)	Standard Deviation (mg/L)	Mean (mg/L)	Normalized Slope (%/year)	Min (mg/L)	Median (mg/L)	Max (mg/L)
11-26-039-24W4	11	-29	0.98	-3.1209	6	-16	20	-22.62	-15.97	-8.38

Full Mann-Kendall Analysis, Sorted by Probability

Location	Count	Mann-Kendall S	Probability	Slope (mg/L/year)	Standard Deviation (mg/L)	Mean (mg/L)	Normalized Slope (%/year)	Min (mg/L)	Median (mg/L)	Max (mg/L)
11-26-039-24W4	11	-29	0.98	-3.1209	6	-16	20	-22.62	-15.97	-8.38
04-26-039-24W4	5	-9	0.97	-1.0220	2	-21	5	-23	-21	-19.38
10-02-040-24W4	7	-13	0.96	-0.4590	4	-19	2	-21	-21	-8.71
06-08-041-24W4	4	6	0.95	0.8237	1	-21	-4	-23	-21	-19.74
07-10-040-24W4	8	-14	0.94	-0.4243	1	-22	2	-24	-23	-20.68
12-15-040-24W4	6	9	0.93	0.6797	1	-21	-3	-22	-21	-19.6
12-25-039-24W4	12	-20	0.90	-3.3381	6	-16	18	-24	-18	-8.51
03-15-040-24W4	5	6	0.88	0.3337	1	-20	-2	-20	-20	-18.52
14-26-039-24W4	7	9	0.88	0.6816	5	-20	-3	-25	-22	-10.25
12-02-040-24W4	7	-9	0.88	-0.5047	5	-19	2	-23	-22	-7.53
01-02-040-24W4	7	-9	0.88	-1.4767	5	-19	7	-22	-21	-9.2
16-03-040-24W4	6	-7	0.87	-0.9951	2	-20	5	-23	-21	-16.4
07-02-040-24W4	6	-7	0.87	-0.7782	2	-23	3	-26	-23	-20.22
09-10-040-24W4	9	11	0.85	0.1175	1	-20	-1	-22	-20	-18.10
12-36-039-24W4	4	-4	0.84	-2.0093	4	-20	10	-25	-20	-15.09
05-33-040-24W4	4	4	0.84	0.9089	1	-21	-4	-23	-21	-20.13
02-10-040-24W4	8	8	0.80	0.2290	1	-21	-1	-23	-21	-19.62
12-01-040-24W4	6	-5	0.77	-0.2087	1	-21	1	-23	-21	-20.39
10-22-039-24W4	5	-4	0.76	-0.0688	1	-24	0	-25	-23	-22.53
14-21-040-24W4	5	-4	0.76	-0.2706	1	-17	2	-18	-17	-16.2
13-05-041-24W4	5	4	0.76	0.3126	1	-19	-2	-20	-20	-18.02
12-28-040-24W4	5	4	0.76	0.5943	1	-20	-3	-21	-20	-17.92
06-28-040-24W4	5	4	0.76	0.1955	0	-20	-1	-20	-20	-19.04
04-01-040-24W4	9	-8	0.76	-0.5659	5	-19	3	-22	-21	-8.08
12-23-039-24W4	7	5	0.72	0.4976	1	-22	-2	-24	-22	-20.88
08-26-039-24W4	7	-5	0.72	-0.2357	5	-19	1	-23	-22	-8.33
09-16-040-24W4	6	-3	0.64	-0.5580	4	-21	3	-25	-22	-13.42
14-23-039-24W4	8	-4	0.64	-0.0512	1	-23	0	-25	-23	-22.20
16-09-040-24W4	8	4	0.64	0.3962	5	-20	-2	-26	-20	-10.76
07-21-040-24W4	4	2	0.63	0.2069	1	-20	-1	-21	-20	-18.73
06-05-041-24W4	4	2	0.63	0.5135	1	-19	-3	-20	-19	-18.18
04-12-040-24W4	4	-2	0.63	-0.7413	2	-21	3	-23	-22	-19.3
08-09-040-24W4	5	-2	0.59	-0.3602	1	-20	2	-22	-21	-18.31
16-16-040-24W4	5	-2	0.59	-0.2379	1	-20	1	-22	-20	-19.23
08-34-039-24W4	5	-2	0.59	-0.1289	2	-21	1	-23	-22	-18.15
05-36-039-24W4	7	1	0.50	0.2385	4	-20	-1	-23	-21	-10.4
04-02-040-24W4	7	-1	0.50	-0.3114	4	-20	1	-23	-21	-11.72
01-35-039-24W4	6	1	0.50	0.0409	1	-20	0	-21	-20	-17.40
08-27-039-24W4	6	0	0.42	-0.6054	5	-14	4	-22	-14	-8.34
04-35-039-24W4	5	0	0.40	-0.0454	1	-21	0	-22	-21	-19.74
13-16-040-24W4	5	0	0.40	0.0469	1	-20	0	-22	-20	-19.35
11-35-039-24W4	5	0	0.40	-0.0137	1	-21	0	-22	-21	-19.47
01-32-040-24W4	5	0	0.40	0.1627	1	-20	-1	-21	-20	-18.24
08-35-039-24W4	4	0	0.36	-0.0350	0	-22	0	-23	-22	-21.87
02-23-039-24W4	4	0	0.36	-1.3744	6	-19	7	-23	-21	-9.6

INTEGRATED SUSTAINABILITY

Mann-Kendall Statistical Analysis (2019-2022) - F14C in CO2

Filtered Trend Results, Probability > 95% And Normalized Slope > ± 10%/Year

Location	Count	Mann-Kendall S	Probability	Slope (mg/L/year)	Standard Deviation (mg/L)	Mean (mg/L)	Normalized Slope (%/year)	Min (mg/L)	Median (mg/L)	Max (mg/L)

Full Mann-Kendall Analysis, Sorted by Probability

Location	Count	Mann-Kendall S	Probability	Slope (mg/L/year)	Standard Deviation (mg/L)	Mean (mg/L)	Normalized Slope (%/year)	Min (mg/L)	Median (mg/L)	Max (mg/L)
05-36-039-24W4	4	6	0.95	0.0102	0	0	4	0.2622	0.29343532	302223751
10-02-040-24W4	4	6	0.95	0.0070	0	1	1	1	1	0.85635
11-26-039-24W4	8	-14	0.94	-0.1578	0	0	-80	0	0	0.7164
07-02-040-24W4	4	4	0.84	0.0150	0	1	2	1	1	0.761803
12-36-039-24W4	4	4	0.84	0.0090	0	1	1	1	1	0.740726
07-10-040-24W4	4	2	0.63	0.0153	0	1	2	1	1	0.7318
12-02-040-24W4	4	2	0.63	0.0023	0	1	0	1	1	0.535156
12-25-039-24W4	11	-5	0.62	-0.0402	0	1	-7	0	1	0.8451
04-01-040-24W4	8	-2	0.54	-0.0378	0	1	-5	0	1	0.931
09-10-040-24W4	4	-1	0.50	-0.0068	0	0	-2	0	0	422452024
14-23-039-24W4	4	0	0.36	0.0059	0	0	2	0	0	307934197
02-10-040-24W4	4	0	0.36	-0.0008	0	1	0	1	1	0.780127

ATTACHMENT 2

2019-2024 SCVF Baseline Monitoring Program

					Spring			Fall		
Well UWI	Well Surface	Area	Well Status	TVD (m)	2024 SCVF #10			2024 SCVF #11		
					Date Tested	Flow Y/N	Casing Pressure KPA	Date Tested	Flow Y/N	Casing Pressure KPA
100/01-02-040-24W4	01-02-040-24w4	Central	Pump OIL	1,949	2024/05/24	N	222	2024/10/30	N	147
100/01-03-040-24W4	06-02-040-24w4	Central	Act CO2 Inj	1,894	2024/05/24	N	474	2024/10/31	N	80
100/01-27-039-24W4	15-26-039-24w4	Central	Act CO2 Inj	1,877	2024/05/30	N	518	2024/11/01	N	89
100/01-32-040-24W4	01-32-040-24W4	North 3	Susp OIL	1885	2024/06/03	N	395	2024/10/30	N	414
100/01-34-039-24w4	15-35-039-24w4	Central	Act CO2 Inj	1,882	2024/05/24	N	889	2024/10/31	N	598
100/01-35-039-24W4	01-35-039-24w4	Central	Susp OIL	1,900	2024/06/05	N	-12	2024/10/23	N	0
100/02-05-041-24W4	02-05-041-24W4	North 3	Susp OIL	1878	2024/06/03	N	16	2024/10/31	N	32
100/02-08-041-24W4	02-08-041-24W4	North 3	Susp WTR Disp	1945	2024/05/29	N	50	2024/10/23	N	65
100/02-10-040-24W4	02-10-040-24w4	Central	ABD Zn OIL	1,942	2024/06/07	N	0	2024/10/30	N	0
100/02-11-040-24W4	02-11-040-24w4	Central	Susp WTR Disp	1,932	2024/05/27	N	27	2024/10/30	N	35
100/02-15-040-24w4	02-15-040-24w4	North 1	ABD Zn WTR Inj	1,944	2024/05/28	N	780	2024/10/23	N	675
100/02-21-040-24W4	02-21-040-24W4	North 2	Susp OIL	1,922	2024/06/04	N	25	2024/10/30	N	27
100/02-23-039-24w4	02-23-039-24w4	South	Cased	1,921	2024/05/21	N	11	2024/10/30	N	21
100/02-26-039-24W4	02-26-039-24w4	Central	Susp OIL	1,910	2024/05/16	N	14	2024/10/31	N	7
100/02-28-040-24W4	02-28-040-24W4	North 3	ABD Zn WTR Inj	1927	2024/06/04	N	56	2024/10/23	N	49
100/03-01-040-24W4	07-35-039-24W4	Central	Flow OIL	1,872	2024/05/24	N	0	2024/11/01	N	0
100/03-02-040-24W4	03-02-040-24w4	Central	Susp OIL	1,910	2024/06/07	N	-70	2024/10/30	N	14
100/03-15-040-24w4	03-15-040-24w4	North 1	ABD Zn	1,950	2024/05/28	N	257	2024/10/31	N	275
100/03-21-040-24W4	03-21-040-24W4	North 2	Susp OIL	1,939	2024/06/04	N	26	2024/10/30	N	21
100/03-26-039-24W4	03-26-040-24w4	Central	Flow GAS	1,925	2024/05/23	N	35	2024/10/30	N	42
100/03-35-039-24W4	03-35-040-24w4	Central	Susp OIL	1,914	2024/05/22	N	-48	2024/10/23	N	0
100/04-01-040-24W4	04-01-040-24w4	Central	Susp OIL	1,950	2024/05/24	N	-14	2024/10/23	N	0
100/04-02-040-24W4	04-02-040-24w4	Central	ABD Zn OIL	1,881	2024/05/27	N	78	2024/10/30	N	63
100/04-11-040-24W4	04-11-040-24w4	Central	Observation	1,900	2024/05/28	N	3	2024/10/31	N	7
100/04-12-040-24W4	04-12-040-24w4	Central	ABD Zn OIL	1,950	2024/05/27	N	32	2024/10/23	N	35
100/04-21-040-24W4	04-21-040-24W4	North 2	ABD Zn OIL	1,928	2024/06/04	N	10	2024/10/07	N	6
100/04-23-039-24w4	04-23-039-24w4	South	ABD Zn OIL	1,938	2024/05/21	N	83	2024/10/07	N	144
100/04-25-039-24W4	04-25-039-24w4	Central	Susp WTR Inj	1,902	2024/05/22	N	38	2024/10/08	N	75
100/04-26-039-24W4	04-26-039-24w4	Central	Susp OIL	1,922	2024/05/16	N	106	2024/10/08	N	137
100/04-28-040-24W4	04-28-040-24W4	North 3	ABD Zn OIL	1908	2024/06/04	N	94	2024/10/09	N	13
100/04-33-040-24W4	04-33-040-24W4	North 3	Susp OIL	1887	2024/06/04	N	15	2024/10/09	N	7
100/05-01-040-24W4	04-01-040-24w4	Central	Susp OIL	1,868	2024/05/24	N	78	2024/10/08	N	48
100/05-02-040-24W4	05-02-040-24w4	Central	ABD Zn	1,900	2024/06/10	N	0	2024/10/07	N	-75
100/05-15-040-24w4	05-15-040-24w4	North 1	ABD Zn Oil	1,947	2024/06/05	N	-10	2024/10/08	N	0
100/05-21-040-24W4	05-21-040-24W4	North 2	Susp OIL	1,942	2024/06/04	Y	37	2024/10/07	Y	34
100/05-23-039-24w4	05-23-039-24w4	South	Susp OIL	1,940	2024/05/21	N	75	2024/10/07	N	110
100/05-26-039-24W4	05-26-039-24w4	Central	ABD Zn OIL	1,931	2024/05/22	N	20	2024/10/08	N	27
100/05-33-040-24W4	05-33-040-24W4	North 3	Susp OIL	1897	2024/06/03	N	54	2024/10/07	N	75
100/05-36-039-24W4	05-36-039-24w4	Central	Susp OIL	1,915	2024/05/23	N	255	2024/10/08	N	454
100/06-02-040-24W4	06-02-040-24w4	Central	Susp GAS	1,924	2024/05/24	N	51	2024/10/07	N	48
100/06-05-041-24W4	06-05-041-24W4	North 3	Pump OIL	1884	2024/05/29	N	2480	2024/10/08	N	2057
100/06-08-041-24W4	06-08-041-24W4	North 3	Pump OIL	1900	2024/05/29	N	-12	2024/10/09	N	0
100/06-21-040-24W4	06-21-040-24W4	North 2	Susp OIL	1,936	2024/06/04	Y	18	2024/10/06	Y	82
100/06-23-039-24w4	06-23-039-24w4	South	ABD Zn OIL	1,945	2024/05/21	N	0	2024/10/08	N	13
100/06-26-039-24W4	06-26-039-24w4	Central	ABD Zn OIL	1,933	2024/05/22	N	25	2024/10/07	N	34
100/06-28-040-24W4	06-28-040-24W4	North 3	ABD Zn OIL	1910	2024/06/04	N	94	2024/10/09	N	89
100/06-35-039-24W4	06-35-039-24w4	Central	Susp GAS	1,902	2024/05/22	N	-7	2024/10/07	N	0
100/07-02-040-24W4	07-02-040-24w4	Central	Susp OIL	1,935	2024/05/24	N	5	2024/10/07	N	0
100/07-10-040-24W4	07-10-040-24W4	North 1	ABD Zn	1,926	2024/05/28	Y	-13	2024/10/06	Y	227
100/07-15-040-24w4	07-15-040-24w4	North 1	Pump Oil	1,970	2024/05/28	N	87	2024/10/07	N	151
100/07-16-040-24W4	07-16-040-24W4	North 2	ABD Zn Oil	1,936	2024/06/05	N	54	2024/10/13	N	64
100/07-21-040-24W4	07-21-040-24W4	North 2	Act WTR Inj	1,968	2024/06/04	N	-63	2024/10/13	N	-44
100/07-26-039-24W4	07-26-039-24w4	Central	ABD Zn OIL	1,921	2024/05/22	N	157	2024/10/02	N	-71
100/07-34-039-24W4	02-02-040-24W4	Central	Flow OIL	1,897	2024/05/24	N	390	2024/10/26	N	6
100/07-35-039-24W4	07-35-039-24w4	Central	ABD Zn OIL	1,900	2024/05/15	N	108	2024/10/02	N	88
100/08-02-040-24W4	08-02-040-24w4	Central	Pump OIL	1,965	2024/05/27	N	6670	2024/10/02	N	6132
100/08-03-040-24W4	08-03-040-24w4	Central	Susp GAS	1,902	2024/05/27	N	-5	2024/10/14	N	-35

					Spring			Fall		
Well UWI	Well Surface	Area	Well Status	TVD (m)	2024 SCVF #10			2024 SCVF #11		
					Date Tested	Flow Y/N	Casing Pressure KPA	Date Tested	Flow Y/N	Casing Pressure KPA
100/08-10-040-24W4	16-03-040-24w4	Central	Pump OIL	1,851	2024/06/07	N	20	2024/10/14	N	28
100/08-26-039-24W4	08-26-039-24w4	Central	Susp OIL	1,920	2024/05/23	N	85	2024/10/26	N	96
100/08-27-039-24W4	08-27-039-24w4	Central	ABD Zn OIL	1,905	2024/05/22	N	87	2024/10/26	N	104
100/08-34-039-24W4	08-34-039-24w4	Central	ABD Zn OIL	1,935	2024/05/24	N	98	2024/10/26	N	94
100/08-35-039-24W4	08-35-039-24w4	Central	Susp OIL	1,914	2024/05/23	N	-12	2024/10/26	N	-21
100/09-02-040-24W4	09-02-040-24w4	Central	Susp OIL	1,949	2024/05/27	N	-21	2024/10/02	N	-31
100/09-10-040-24W4	09-10-040-24W4	North 1	ABD Zn OIL	1,924	2024/05/15	N	117	2024/10/14	N	124
100/09-16-040-24W4	09-16-040-24W4	North 2	Susp OIL	1,949	2024/05/21	N	55	2024/10/14	N	7
100/09-26-039-24W4	09-26-039-24w4	Central	Susp OIL	1,915	2024/05/23	N	0	2024/10/14	N	0
100/09-32-040-24W4	09-32-040-24W4	North 3	Susp OIL	1880	2024/06/03	N	237	2024/10/26	N	224
100/09-35-039-24W4	09-35-039-24w4	Central	Susp OIL	1,922	2024/05/24	N	29	2024/10/26	N	34
100/10-02-040-24W4	10-02-040-24w4	Central	ABD Zn OIL	1,922	2024/05/27	N	17	2024/10/26	N	21
100/10-08-041-24W4	10-08-041-24W4	North 3	Susp WTR Disp	1925	2024/06/03	N	12	2024/10/26	N	17
100/10-10-040-24W4	02-10-040-24W4	Central	Susp OIL	1,915	2024/05/27	N	8	2024/10/26	N	14
100/10-10-040-24W4	07-10-040-24w4	Central	Susp OIL	1,915				2024/10/14	N	0
100/10-16-040-24W4	10-16-040-24W4	North 2	ABD Zn GAS	1,936	2024/05/28	N	0	2024/10/14	N	62
100/10-22-039-24w4	10-22-039-24w4	South	Susp WTR Inj	1,914	2024/05/21	N	740	2024/10/26	N	765
100/10-23-039-24w4	10-23-039-24w4	South	Susp OIL	1,926	2024/05/21	N	-62	2024/10/26	N	-34
100/10-26-039-24W4	10-26-039-24w4	Central	ABD Zn OIL	1,908	2024/05/22	N	30	2024/10/02	N	35
100/10-27-039-24W4	07-35-039-24W4	Central	Flow OIL	1,872	2024/06/07	N	750	2024/10/03	N	68
100/10-32-040-24W4	10-32-040-24W4	North 3	Act WTR Inj	1878	2024/06/03	N	-54	2024/10/05	N	-41
100/10-35-039-24W4	10-35-039-24w4	Central	Cased	1,897	2024/05/24	N	6290	2024/10/03	N	2370
100/11-02-040-24W4	11-02-040-24w4	Central	ABD Zn OIL	1,950	2024/05/27	N	24	2024/10/18	N	34
100/11-05-041-24W4	11-05-041-24W4	North 3	ABD Zn OIL	1885	2024/05/29	N	0	2024/10/05	N	0
100/11-08-041-24W4	11-08-041-24W4	North 3	Susp OIL	1907	2024/05/28	N	-20	2024/10/05	N	-27
100/11-10-040-24W4	11-10-040-24w4	North 1	ABD Gas	1,988	2024/05/28	N	5	2024/10/18	N	241
100/11-21-040-24W4	11-21-040-24W4	North 2	Pump OIL	1,929	2024/06/04	N	0	2024/10/02	N	0
100/11-25-039-24W4	02-26-039-24w4	South	Spud	1,891	2024/05/23	N	635	2024/10/02	N	626
100/11-26-039-24W4	11-26-039-24w4	Central	ABD Zn OIL	1,935	2024/05/22	N	33	2024/10/02	N	74
100/11-35-039-24W4	11-35-039-24w4	Central	ABD Zn OIL	1,902	2024/05/23	N	15	2024/10/03	N	41
100/11-36-039-24W4	04-01-040-24w4	Central	Susp OIL	1,869	2024/05/24	N	68	2024/10/05	N	0
100/12-01-040-24W4	12-01-040-24w4	Central	Pump OIL	1,951	2024/05/27	N	567	2024/10/05	N	586
100/12-02-040-24W4	12-02-040-24w4	Central	ABD Zn OIL	1,890	2024/05/27	N	130	2024/10/02	N	130
100/12-08-041-24W4	11-08-041-24W4	North 3	Susp OIL	1923	2024/05/29	N	12	2024/10/05	N	0
100/12-15-040-24W4	12-15-040-24W4	North 2	Susp OIL	1,936	2024/06/05	N	62	2024/10/05	N	55
100/12-21-040-24W4	12-21-040-24W4	North 2	Susp OIL	1,939	2024/06/04	N	41	2024/10/18	N	48
100/12-23-039-24w4	12-23-039-24w4	South	ABD Zn OIL	1,938	2024/05/21	N	0	2024/10/03	N	0
100/12-25-039-24W4	12-25-039-24w4	Central	ABD Zn OIL	1,882	2024/05/23	N	31	2024/10/02	N	36
100/12-28-040-24W4	12-28-040-24W4	North 3	ABD Zn OIL	1894	2024/06/03	N	0	2024/10/05	N	0
100/12-33-040-24W4	12-33-040-24W4	North 3	Pump OIL	1875	2024/06/03	N	2590	2024/10/02	N	2487
100/12-35-039-24W4	12-35-039-24w4	Central	Susp OIL	1,890	2024/05/23	N	32	2024/10/05	N	36
100/12-36-039-24W4	12-36-039-24w4	Central	Susp OIL	1,910	2024/05/23	N	0	2024/10/03	N	0
100/13-02-040-24W4	13-02-040-24w4	Central	ABD Zn OIL	1,930	2024/05/27	N	89	2024/10/03	N	89
100/13-05-041-24W4	06-08-041-24W4	North 3	ABD Zn OIL	1878	2024/05/29	N	58	2024/10/05	N	0
100/13-10-040-24w4	13-10-040-24w4	North 1	ABD Zn OIL	1,937	2024/06/05	N	16	2024/10/13	N	0
100/13-16-040-24W4	13-16-040-24W4	North 2	ABD Zn OIL	1,966	2024/06/04	N	-5	2024/10/15	N	-27
100/13-21-040-24W4	13-21-040-24W4	North 2	ABD Zn OIL	1,932	2024/06/04	N	168	2024/10/15	N	34
100/13-23-039-24W4	13-23-039-24w4	Central	Susp OIL	1,945	2024/05/21	N	12	2024/10/14	N	124
100/13-25-039-24W4	13-25-039-24w4	Central	Cased	1,893	2024/05/23	N	1657	2024/10/14	N	1634
100/13-28-040-24W4	13-28-040-24W4	North 3	ABD Zn OIL	1905	2024/06/03	N	-5	2024/10/08	N	55
100/14-01-040-24W4	02-02-040-24W4	Central	Flow OIL	1,896	2024/05/24	N	-16	2024/10/16	N	137
100/14-02-040-24W4	14-02-040-24w4	Central	ABD Zn OIL	1,960	2024/05/27	N	168	2024/10/13	N	144
100/14-05-041-24W4	13-05-041-24W4	North 3	Susp OIL	1891	2024/05/29	N	30	2024/10/08	N	0
100/14-10-040-24w4	14-10-040-24w4	North 1	Cased	1,944	2024/06/05	N	-53	2024/10/13	N	-68
100/14-21-040-24W4	14-21-040-24W4	North 2	Pump OIL	1,929	2024/06/04	N	316	2024/10/26	N	0
100/14-28-040-24W4	14-28-040-24W4	North 3	Susp WTR Inj	1937	2024/06/03	N	13	2024/10/08	N	0
100/14-35-039-24W4	14-35-039-24w4	Central	Susp OIL	1,859	2024/05/23	N	0	2024/10/08	N	0

					Spring			Fall		
Well UWI	Well Surface	Area	Well Status	TVD (m)	2024 SCVF #10			2024 SCVF #11		
					Date Tested	Flow Y/N	Casing Pressure KPA	Date Tested	Flow Y/N	Casing Pressure KPA
100/15-02-040-24W4	15-02-040-24w4	Central	Susp OIL	1,942	2024/05/27	N	52	2024/10/13	N	27
100/15-16-040-24W4	15-16-040-24W4	North 2	Act WTR Disp	1,940	2024/06/05	N	102	2024/10/13	N	0
100/15-21-040-24W4	15-21-040-24W4	North 2	ABD Zn OIL	1,921	2024/06/04	N	-62	2024/10/16	N	-75
100/15-26-039-24W4	15-26-039-24w4	Central	Susp OIL	1,902	2024/05/22	N	-30	2024/10/14	N	-48
100/15-35-039-24W4	15-35-039-24w4	Central	Susp OIL	1,910	2024/05/24	N	-8	2024/10/08	N	0
100/16-02-040-24W4	16-02-040-24w4	Central	Observation	1,970	2024/05/27	N	255	2024/10/14	N	227
100/16-03-040-24W4	16-03-040-24w4	Central	Pump OIL	1,906	2024/05/27	N	6700	2024/10/14	N	827
100/16-09-040-24W4	16-09-040-24W4	North 1	Act WTR Inj	1,943	2024/05/28	N	1520	2024/10/13	N	275
100/16-16-040-24W4	16-16-040-24W4	North 2	Susp OIL	1,938	2024/05/28	N	36	2024/10/13	N	0
100/16-20-040-24W4	16-20-040-24W4	North 2	Susp WTR Inj	1,904	2024/06/04	N	42	2024/10/15	N	0
100/16-23-039-24W4	16-23-039-24w4	Central	ABD Zn OIL	1,920	2024/05/21	N	154	2024/10/13	N	96
100/16-26-039-24W4	16-26-039-24w4	Central	Susp GAS	1,879	2024/05/23	N	1665	2024/10/13	N	1634
100/16-27-039-24W4	16-27-039-24w4	Central	Susp WTR Disp	1,908	2024/06/05	N	27	2024/10/14	N	0
100/16-32-040-24W4	16-32-040-24W4	North 3	Act WTR Disp	1889	2024/06/03	Y	186	2024/10/12	Y	205
100/16-34-039-24W4	16-34-039-24w4	Central	Flow GAS	1,896	2024/05/23	N	374	2024/10/09	N	350
100/16-35-039-24W4	16-35-039-24w4	Central	Susp OIL	1,940	2024/05/24	N	8	2024/10/09	N	8
102/01-16-040-24w4	09-16-040-24w4	North 1	Susp Oil	1,920	2024/05/28	N	-61	2024/10/11	N	-74
102/01-32-040-24W4	08-32-040-24W4	North 3	Pump OIL	1817	2024/06/03	N	395	2024/10/12	N	0
102/02-02-040-24W4	02-02-040-24w4	Central	Susp OIL	1,907	2024/05/24	N	-56	2024/10/09	N	470
102/02-22-039-24W4	02-26-039-24w4	South	Act CO2 Inj	1,891	2024/05/23	N	122	2024/10/08	N	18
102/02-35-039-24W4	02-35-039-24w4	Central	Susp OIL	1,884	2024/05/22	N	-22	2024/10/09	N	-23
102/03-15-040-24w4	04-15-040-24w4	North 1	ABD Zn OIL	1,919	2024/06/05	N	93	2024/10/14	N	88
102/03-28-040-24W4	03-28-040-24w4	North 3	Pump OIL	1920	2024/06/04	N	1395	2024/10/12	N	1422
102/05-33-040-24W4	05-33-040-24W4	North 3	Pump OIL	1885	2024/06/03	N	2880	2024/10/12	N	3000
102/06-01-040-24w4	15-35-039-24w4	Central	Act CO2 Inj	1,882	2024/05/24	N	483	2024/10/09	N	-5
102/06-23-039-24w4	11-23-039-24w4	South	ABD	1,890	2024/05/21	N	0	2024/10/08	N	0
102/08-10-040-24W4	12-11-040-24w4	Central	ABD Zn OIL	1,910	2024/05/28	N	14	2024/10/11	N	16
102/09-10-040-24W4	16-03-040-24w4	Central	ABD Zn OIL	1,885	2024/05/27	N	10	2024/10/11	N	-4
102/09-16-040-24w4	08-16-040-24w4	North 1	ABD Zn OIL	1,879	2024/05/21	Y	-20	2024/10/11	Y	-32
102/10-10-040-24W4	07-10-040-24w4	North 1	ABD Zn OIL	1,944	2024/05/28	N	-5	2024/10/11	N	-6
102/11-26-039-24W4	14-26-039-24w4	Central	Susp OIL	1,867	2024/05/22	N	83	2024/10/08	N	77
102/11-36-39-24W4	15-26-039-24w4	Central	Act CO2 Inj	1,879	2024/05/22	N	665	2024/10/09	N	-28
102/12-08-041-24W4	11-08-041-24W4	North 3	ABD Zn OIL	1907	2024/05/29	N	0	2024/10/12	N	-3
103/06-02-040-24W4	06-02-040-24w4	Central	Act WTR Inj	2,097	2024/05/24	N	0	2024/10/09	N	66
103/16-02-040-24W4	6-02-040-24w4	Central	Act CO2 Inj	1,896	2024/05/24	N	246	2024/10/11	N	44
1S0/03-26-039-24W4	14-23-039-24w4	South	Susp OIL	1,882	2024/05/21	N	17	2024/10/08	N	23

ATTACHMENT 3

Innisfail-Clive-Nevis Reef Chain Revisit Tsang Springer May (13-10-1983)

PETROLEUM SOCIETY OF CIM PAPER NO. 83-34-24

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INNISFAIL-CLIVE-NEVIS REEF CHAIN REVISIT

by
G. Tsang, S.J. Springer
Gulf Canada Resources Inc.

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THIS PAPER IS TO BE PRESENTED AT THE 34th ANNUAL TECHNICAL MEETING OF THE PETROLEUM SOCIETY OF CIM HELD JOINTLY WITH THE CANADIAN ASSOCIATION OF DRILLING ENGINEERS IN BANFF, MAY 10 - 13, 1983. DISCUSSION OF THIS PAPER IS INVITED. SUCH DISCUSSION MAY BE PRESENTED AT THE TECHNICAL MEETING AND WILL BE CONSIDERED FOR PUBLICATION IN CIM JOURNALS IF FILED IN WRITING WITH THE TECHNICAL PROGRAM CHAIRMAN PRIOR TO THE CONCLUSION OF THE MEETING.

ABSTRACT

Several pools in the Bashaw-Duhamel Reef Complex had experienced water efflux caused by high withdrawals from the Nevis Devonian gas pool. This water efflux phenomenon created an additional unknown for the detailed study of an individual pool. A 3-dimensional, 3-phase, unsteady-state, black oil numerical simulator was used to simulate the aquifer water movements caused by the production of hydrocarbons from various parts of the reef complex. A lumped model was utilized to investigate the pressure interference among the pools and to estimate quantitatively the historical water influx/efflux rates in the various pools. The model was also used to predict the future water influx/efflux rates for the various pools under different Nevis production scenarios. These estimates of water influx/efflux rates were then used as input to the detailed study of the individual pool.

INTRODUCTION

The Innisfail-Clive-Nevis Reef Chain, more commonly known as the Bashaw-Duhamel Reef Complex, is situated in south central Alberta. This Upper Devonian Leduc reef complex extends from Township 45, Range 20W4M southwesterly to Township 27, Range 3W5M for a distance of about 200 km. The major pools in the reef complex include the Duhamel D-3B, New Norway D-3, Malmo D-3A, Malmo D-3B, Bashaw D-3A, Clive D-3, Nevis Devonian, Buffalo Lake D-3, Erskine D-3, Wimborne D-3, Lone Pine Creek D-3, and Innisfail D-3. The locations of these pools are shown in Figure 1.

Pressure interference among pools in the reef complex had been documented as early as 1966.[1] In 1971, a depletion study on the Bashaw D-3A oil pool[2] led to the observation that pressure interference had been experienced in the Bashaw D-3A pool due to large withdrawals from the Nevis Devonian gas pool. In 1974, an interference study[3] was conducted on the reef complex after water injection projects failed to maintain the pressure of the Clive D-2 and D-3 units. Recent detailed studies of the Clive D-2 and D-3 units necessitated an update of the 1974 study. This 1974 interference study and the 1982 update constitute the subject of this paper.

In this study, a commercially available 3-dimensional, 3-phase, unsteady-state, black oil numerical simulator was used to

investigate the pressure interferences and the movements of aquifer water among the major pools in the reef complex. A lumped model was constructed to simulate the various major pools and the aquifer. The production and pressure performances of the various pools were history-matched. After history match was achieved, estimates of water influx/efflux rates in the various pools were obtained. The model was also used to predict future water influx/efflux rates for the pools in the reef complex.

GEOLOGY

The Bashaw-Duhamel Reef Complex is founded on a platform of fragmental limestone of the Cooking Lake formation as shown in Figure 2. Slight topographic highs on the platform, possibly caused by localized shoaling, provided focal points for the Leduc D-3 reef growth. The underlying Cooking Lake platform likely provides the common connection for the D-3 pools in the reef complex. The Leduc formation is a biohermal dolomite, medium to coarse crystalline with large vugs. Porosity is apparently well developed within the reef buildup facies, particularly throughout the reef rim.

The Leduc D-3 reef is overlain by the impermeable limy green shale of the Ireton formation. The Ireton formation between the Leduc D-3 and Nisku D-2 zones varies from a thickness of 150 m off the reef edge to only a metre. In the Nevis field the Ireton formation disappears completely in various high locations on the D-3 reef, leaving the Nisku D-2 gas in direct communication with the underlying Leduc D-3 pay zone. A similar circumstance is suspected in the Alix area, which may result in communication between the Clive and Alix D-2 pools and the Leduc reef complex.

The Nisku D-2 formation is a dolomitized biostrome reef draped over the underlying Ireton formation and Leduc reef mass. The hydrocarbon pay zones are comprised of fine to medium crystalline facies, with minor anhydrite and shaly bands. The better porosity development is coincident with the underlying Leduc D-3 reef rim areas, and hydrocarbon accumulations occur in those instances where a trap is formed.

DEVELOPMENT HISTORY

Development of the northern part of the Bashaw-Duhamel Reef Complex began in 1950 with the discovery of the Duhamel D-3 pool. A period of intensive exploratory drilling followed, resulting in the discovery of the Clive, New Norway and Bashaw fields in 1951; the Nevis Devonian gas pool in 1952; and the Erskine D-3 pool in 1953. Exploration during the following two years did not yield significant discoveries.

Development of the southern portion of the reef complex began in 1956 with the discovery of the Wimborne D-3 pool and continued into 1957, when the Innisfail D-3 pool was discovered. Significant discoveries within the reef complex since 1957 include the Malmo D-3B gas pool in 1959, the Buffalo Lake D-3 oil pool in 1961; and the Lone Pine Creek D-3 pool in 1963.

The years 1963-1968 were a period of intensive pool development, yielding significant additions to the productive area of the Bashaw field in 1963-1965; the Nevis field in 1966-1967, the Clive field in 1966-1968; and the Wimborne field in 1965.

Large-scale hydrocarbon withdrawals from the reef complex began with the deliveries from the Nevis Devonian gas pool to TransCanada Pipelines in late 1959, at which time most of the oil pools were either at the early stages of development or were restricted by gas-oil ratio penalties. Such penalties were largely relieved in late 1960 by the completion of Innisfail gas conservation facility and in 1965, by the advent of concurrent production from the Wimborne D-3 pool. Aside from the Nevis Devonian gas pool, no significant increase in hydrocarbon withdrawal rate was initiated in the northern part of the reef complex until the expansion of the Clive D-2 and D-3 pools in 1966-1968. Additional increase in reservoir voidage rate occurred in the Nevis Devonian gas pool in 1969, as a result of the revision of the contract demand factor from 1:100 000 to 1:80 000.

In 1970, water injection pressure maintenance projects were implemented in the Clive D-2 and D-3 units, however, the water injection failed to maintain the pressure in either unit despite of reservoir voidage replacement ratios in excess of 1.5. In order to characterize the aquifer properties which had resulted in the pressure behaviours of the Clive D-2 and D-3 units, the Innisfail-Clive-Nevis Interference study was conducted in 1974.

PRESSURE HISTORIES

The poor performances of the Clive D-2 and D-3 water injection projects led to several conclusions. Firstly, the injected water was being fed into a regional aquifer; secondly, water efflux was taking place in the Clive D-2 and D-3 aquifers; and thirdly, whatever caused the water efflux in the Clive D-2 aquifer also caused the water efflux in the Clive D-3 aquifer. The last conclusion also implies that the Clive D-2 aquifer is in communication with the Clive D-3 aquifer despite of the fact that the Nisku D-2 formation is separated from the Leduc D-3 formation by the impermeable Ireton shale.

An examination of the producing pools in the vicinity of the Clive field would indicate that the Nevis Devonian gas pool is

the most likely cause of the water efflux problem from Clive because of the large reservoir withdrawal rate of Nevis. Table 1 lists the cumulative productions to 1981-12-31 of the various pools in the reef complex, and it shows Nevis is clearly the leader in term of reservoir voidage.

The Nevis Devonian gas pool also provides a logical explanation to the pressure communication between the Clive D-2 unit and the Leduc reef complex since the Ireton shale is missing in part of the Nevis field.

Figure 3 is a plot of the initial pressures versus datum depths for the major pools in the reef complex. The plot suggests a common pressure system and, hence, a common aquifer for the pools. The slope of the straight line fitted through the data has a value of 10.95 kPa/m which matches the density of formation water samples taken from the pools.

Average pressures for the major pools in the reef complex, as recorded over the past twenty years, were corrected to a common datum of 881 m subsea and plotted in Figure 4. The plot illustrates that the pressure trends of the various pools are very similar. With the exceptions of Erskine D-3 and Wimborne D-3, the pressure versus time plots are within a narrow band. This suggests that there may be a correlation among the pressure histories of the various pools.

MODEL DESCRIPTION

The original 1974 study was conducted with a simulator which had been specifically modified for the study. However, the 1982 update was conducted with a different simulator because the simulator used for the original study was no longer supported by the software company. During the process of converting the model from the original simulator to the new simulator, the model was modified and streamlined but the reservoir characterization and description were still based on the original study.

Due to dimension limitation of the simulator, some of the smaller pools like Chigwell D-3 and Wood River D-3 were excluded from the model, and some of the pools were grouped together. In the model, the Duhamel D-3, New Norway D-3 and Malmo D-3 were combined to form a composite pool; Bashaw D-3B was combined with Bashaw D-3A; and Buffalo Lake D-3 was combined with Erskine D-3.

A 19x14x3 grid network was used for the model. The grid along with the locations of the various pools are shown in Figure 5. The top two layers are made up of empty cells except at places where pools are located. The active cells in the top and middle layers represent the gas cap and oil zone of the corresponding pool respectively. The bottom layer represents the aquifer and its outline is shown in Figure 5.

The actual thicknesses of the gas caps and oil zones of various pools were assigned to the corresponding grid cells in the top two layers. A constant thickness of 213 m was assumed for the entire bottom aquifer layer. The elevation of each grid cell in the bottom layer was determined from the structure map (Figure 6).

For the sake of simplicity, the Clive D-2 and Alix D-2 reservoir cells were connected to the main aquifer directly instead of having a separate aquifer layer for them and providing a connection between the two aquifers.

HISTORY MATCHING

Production data from ERCB records were input into the model to obtain the proper production histories. The pressure performances of the various pools were matched by adjusting the input parameters of the model.

With the exception of Erskine and Wimborne, the pressure histories of the other pools were quite readily matched indicating the initial reservoir characterization are reasonably well.

In order to obtain a pressure history match for Erskine, a transmissibility barrier was required between Erskine and the main body of the reef complex, which suggested that there is very little or no communication between the Erskine D-3 pool and the reef complex.

The pressure history of the Wimborne D-3 pool was matched by reducing the initial gas cap gas-in-place of the pool. This suggested that the initial gas cap gas-in-place carried by the ERCB might be too high.

The pressure matches obtained for Clive D-2 and Alix D-2 lent some support to the hypothesis that the Nisku D-2 aquifers of those two pools are in hydraulic communication with the Leduc-Cooking Lake aquifer.

The volume of water-in-place for the reef complex was estimated to be $43 \times 10^9 m^3$.

PREDICTION CASES

After history match was obtained, the model was used to forecast the water influx/efflux rates for the major pools in the reef complex. All the pools, except the Nevis Devonian gas pool, were assumed to continue the current production trends. Three prediction cases were obtained based on three different future

depletion scenarios for the Nevis Devonian gas pool.

In the base case, the depletion of the Nevis Devonian gas pool was assumed to be completed in ten years. In the alternate case 1, the depletion was assumed to be completed in five years. In alternate case 2, Nevis was assumed to be shut-in from July 1982.

Results of the three prediction cases are presented graphically in Figures 7a and 7b. A discussion of the results will be presented in the next section.

DISCUSSION OF RESULTS

Figures 7a and 7b show the water influx profiles obtained from the model for the major pools in the reef complex. It should be noted that the plotted water influx rates were normalized rates. The normalized rate was determined by dividing the absolute influx rate by the water volume within the control region for which the rate was calculated.

Some qualitative conclusions can be drawn from the water influx profiles. In the northern part of the reef complex, Nevis Devonian gas pool is the only pool which has experienced water influx in the past, while all the other pools have experienced water efflux. This substantiates the argument that Nevis Devonian gas pool has caused water efflux from other pools in the northern part of the reef complex.

In the southern part of the reef complex, no water efflux have been experienced by the Innisfail D-3 and Wimborne D-3 pools in the past, and the different Nevis production scenarios do not have any significant effect on their future influx profiles.

The profile for the Clive D-2 pool shows that the water efflux problem in the pool is reversed in 1982. However, for the Clive D-3 pool, the reversal takes place at a later date. The profile for the Clive D-3 pool indicates that the influx will start in 1991 for the base case, in 1987 for the alternate case 1, and in 1983 for the alternate case 2.

The calculated water influx/efflux profiles for the Clive D-2 and D-3 pools were used in the detailed simulation studies of those two pools. The data facilitated the history matching processes of the two studies and provided some guidelines pertaining to the future behaviours of the aquifers.

CONCLUSIONS

The following conclusions can be drawn from the study:

1. The water efflux problems experienced by pools in the northern part of the Bashaw-Duhamel Reef Complex are caused by large withdrawals from the Nevis Devonian gas pool.

2. The Alix D-2 and Clive D-2 pools are in hydraulic communication with the Leduc-Cooking Lake aquifer.

3. There is very little or no pressure communication between the Erskine D-3 pool and the main Bashaw-Duhamel Reef Complex.

4. The initial gas cap gas-in-place for the Wimborne D-3 pool as carried by the ERCB may be too high.

5. The water influx/efflux data obtained in this study are useful for detailed study of individual pool in the reef complex.

ACKNOWLEDGMENTS

The authors thank the management of Gulf Canada Resources Inc. for permission to present this paper.

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2. Gulf Oil Canada Ltd. : "Bashaw D-3A Pool Depletion Study," (May, 1971) submitted to the Alberta Energy Resources Conservation Board.

3. Lee, P. and Randall, T.E. : "Innisfail-Clive-Nevis Reef Chain Interference Study," (July 1974) submitted to the Alberta Energy Resources Conservation Board.

TABLE 1

CUMULATIVE PRODUCTION AND RESERVOIR VOIDAGE TO 1981-12-31

Pool	Cum. Oil Prod. (E+03 M3)	Cum. Gas Prod. (E+06 M3)	Cumulative Reservoir Voidage (E+03 Res. M3)
Nevis Devonian	--	19 187	109 366
Wimborne D-3	1 877	6 011	27 320
Innisfail D-3	9 873	2 705	18 628
Clive D-3	3 956	771	5 734
Lone Pine Creek D-3	29	1 202	5 649
Erskine D-3	3 297	413	4 020
Clive D-2	1 826	490	2 647
Buffalo Lake D-3	605	52	729
Bashaw D-3A	347	163	518
Alix D-2	332	77	468

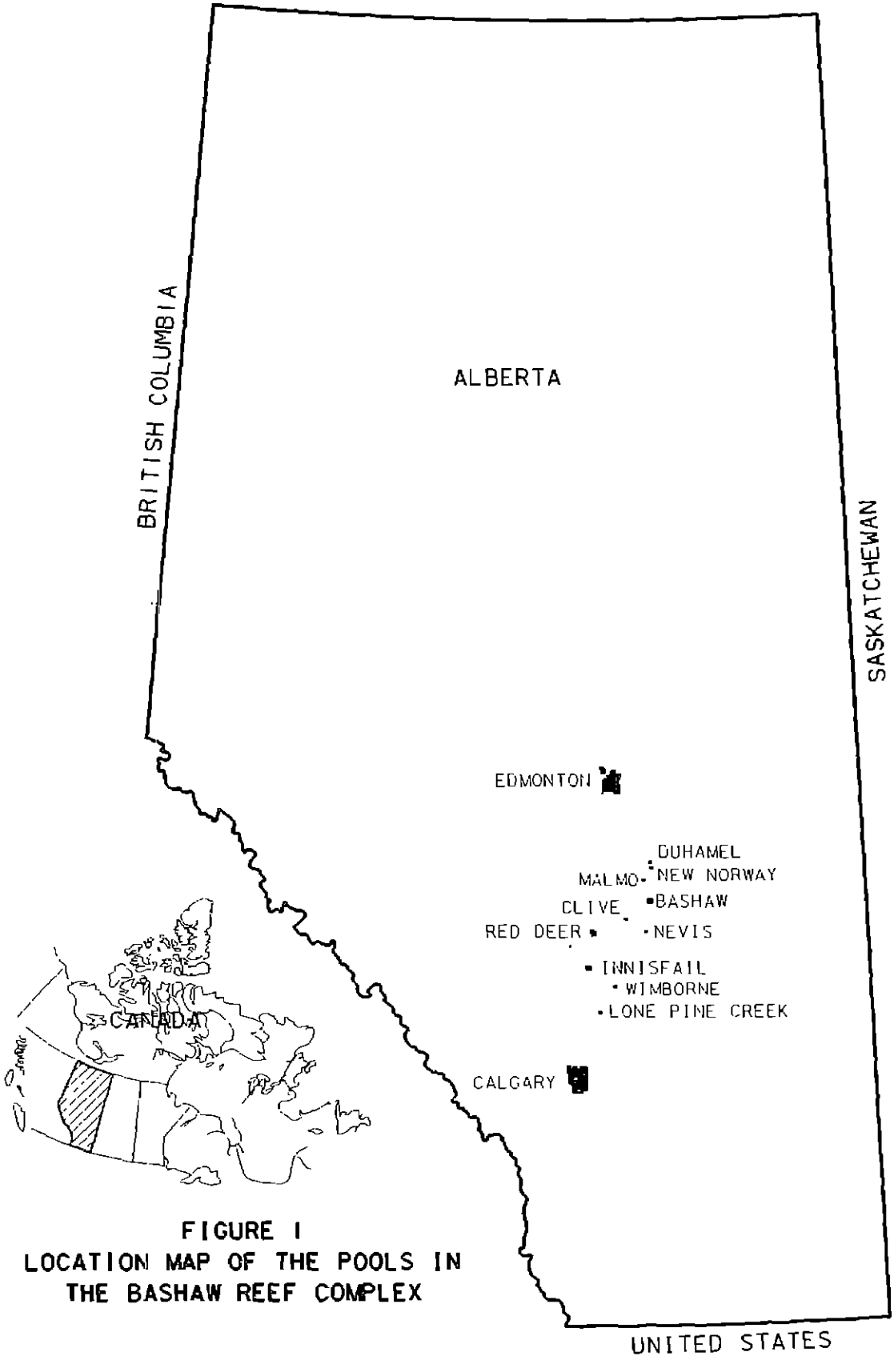
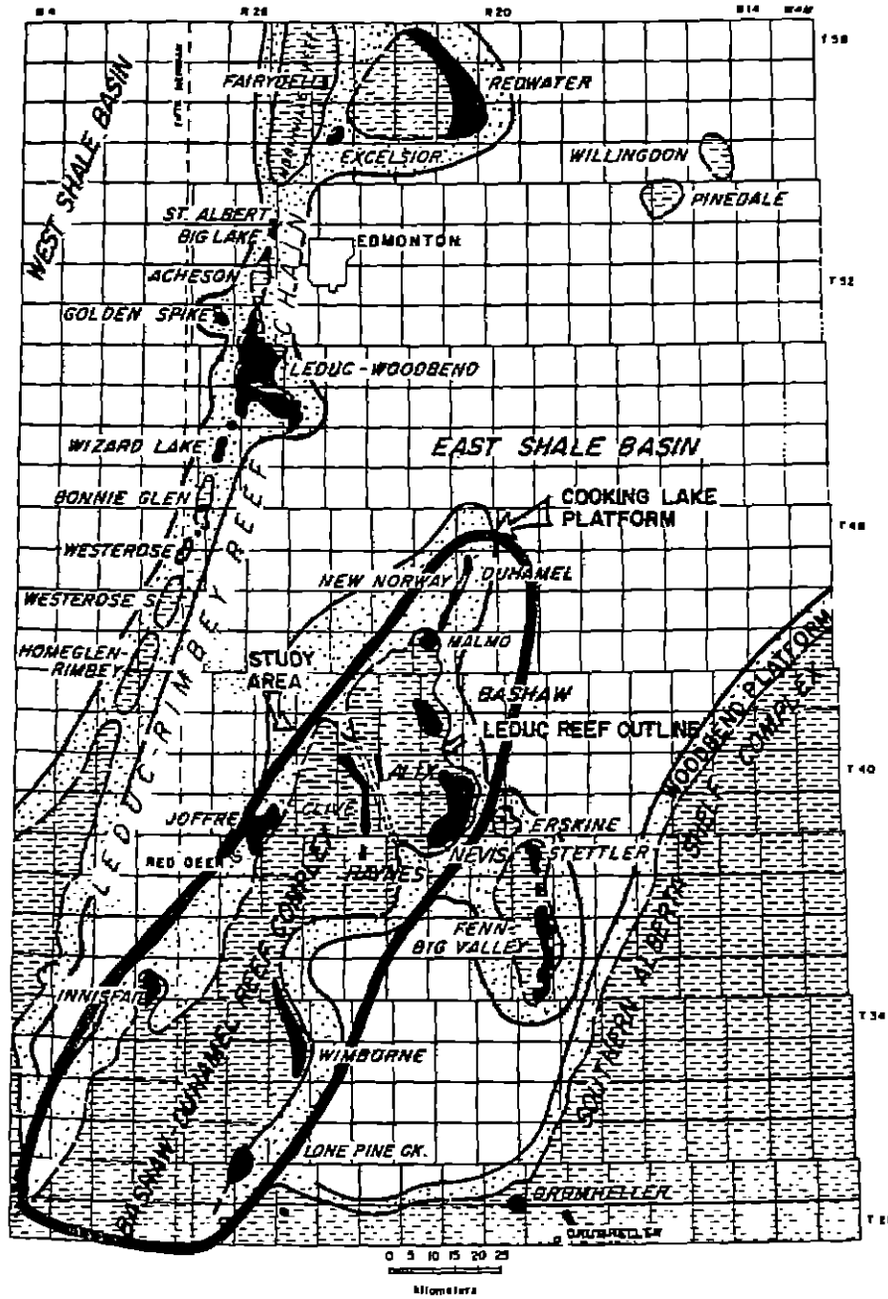


FIGURE 1
LOCATION MAP OF THE POOLS IN THE BASHAW REEF COMPLEX



LEGEND

FIGURE 2

LOCATION MAP AND GEOLOGIC SETTING FOR
THE INNISFAIL – CLIVE – NEVIS REEF CHAIN STUDY

PRODUCING UPPER DEVONIAN FIELD

STUDY AREA

REEF CARBONATES

PLATFORM CARBONATES

SHALE BASIN

BY: C.F.K.

DATE: MAY, 1982

FILE NO. P-82272

FIGURE 3
INITIAL RESERVOIR PRESSURE VERSUS DATUM DEPTH PLOT FOR POOLS IN THE BASHAW - DUHAMEL REEF COMPLEX

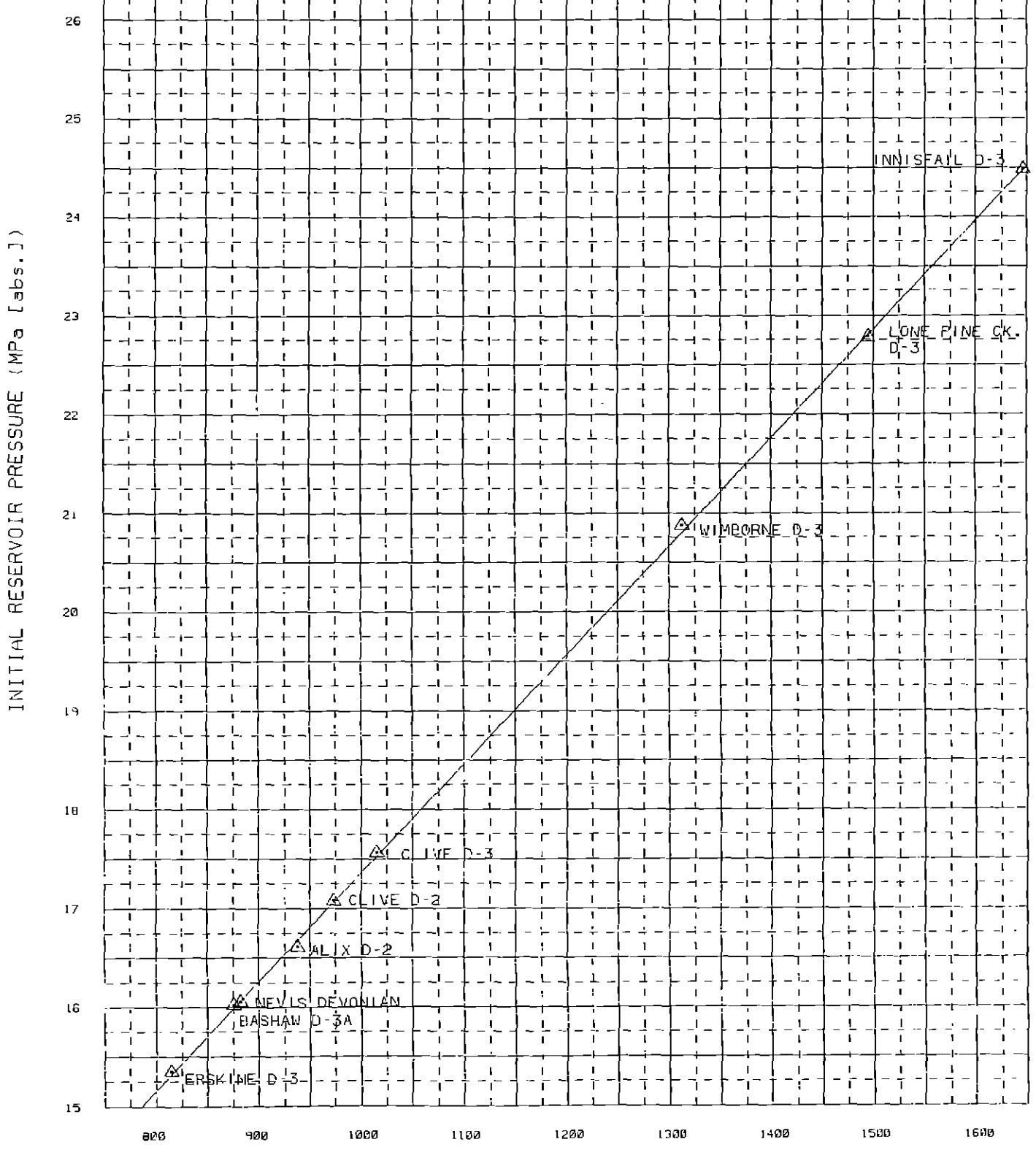
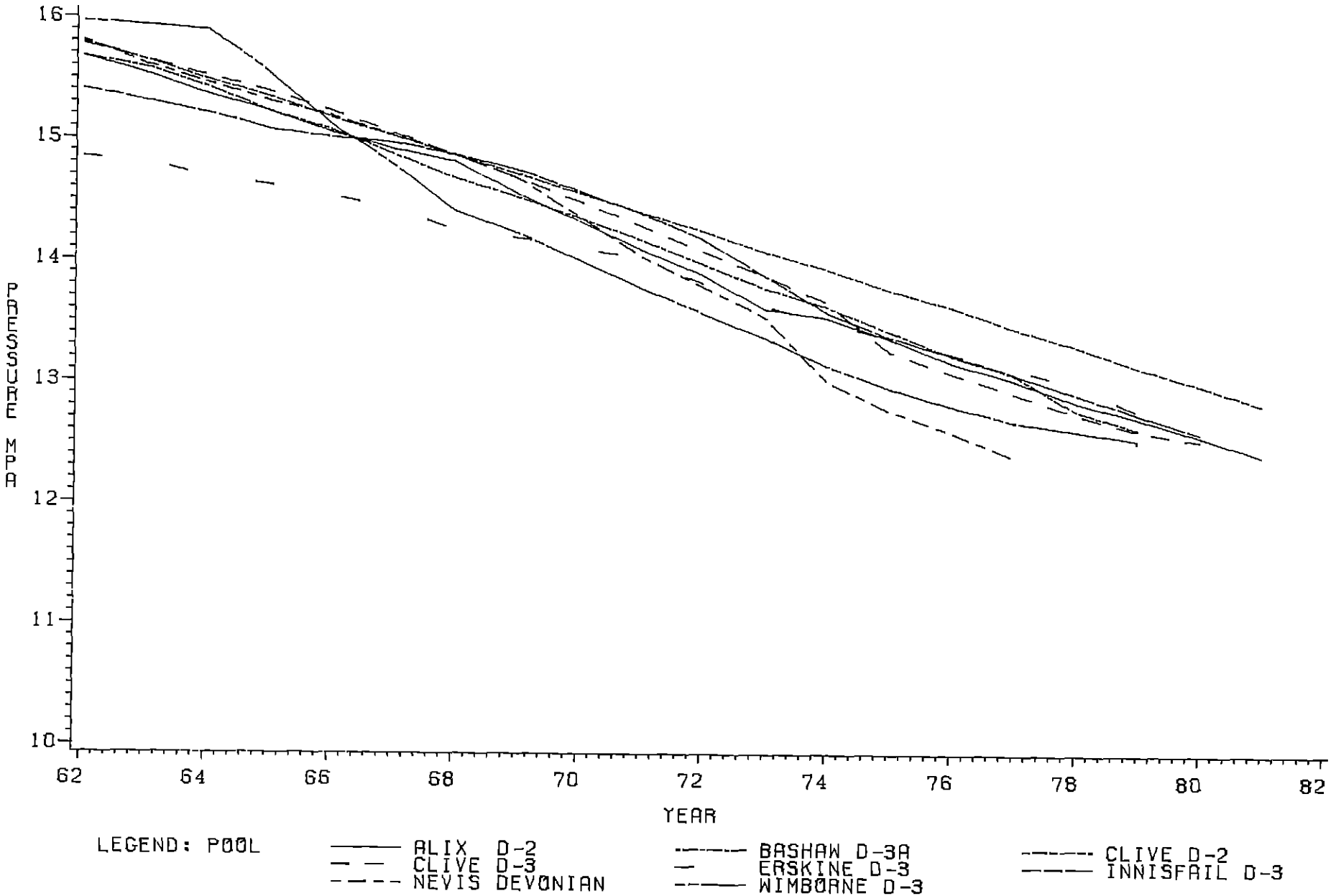
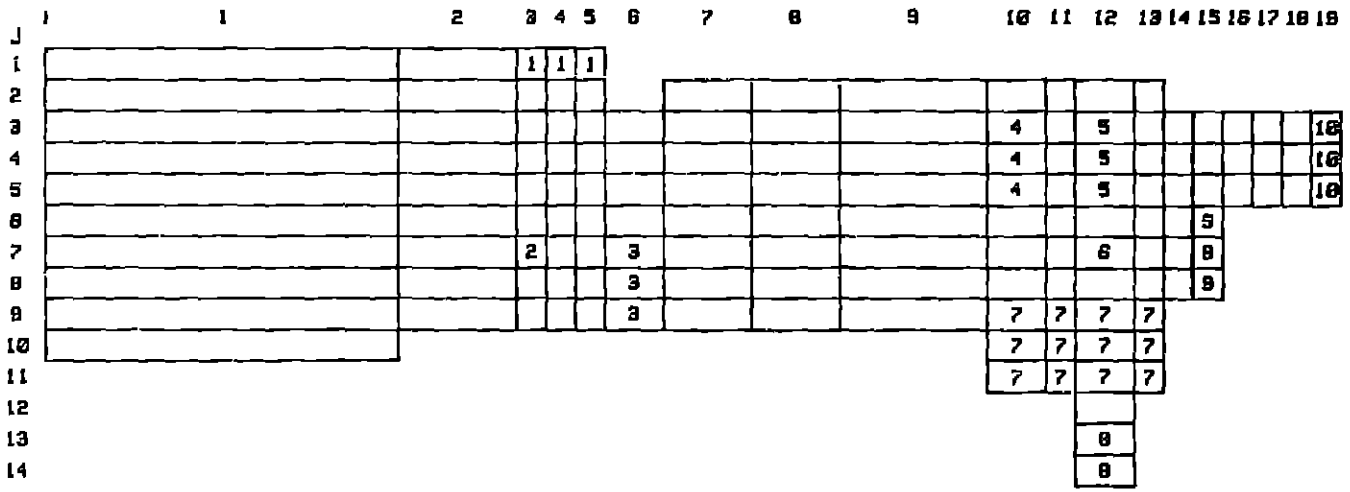


FIGURE 4 : PRESSURE HISTORY OF THE POOLS IN BASHAW–DUHAMEL REEF COMPLEX



PRESSURE CORRECTED TO 881 METRE SUBSEA

FIGURE 5 Innisfail-Clive-Nevis Reef Chain Study
Locations of Pools in the Model Grid



LEGEND	
1 Innisfail D-3	6 Alix D-2
2 Lone Pine Creek D-3	7 Nevis Devonian
3 Wimborne D-3	8 Erskine D-3
4 Clive D-3	9 Bashaw D-3
5 Clive D-2	10 Duhamel, New Norway, Malmo D-3 Combined

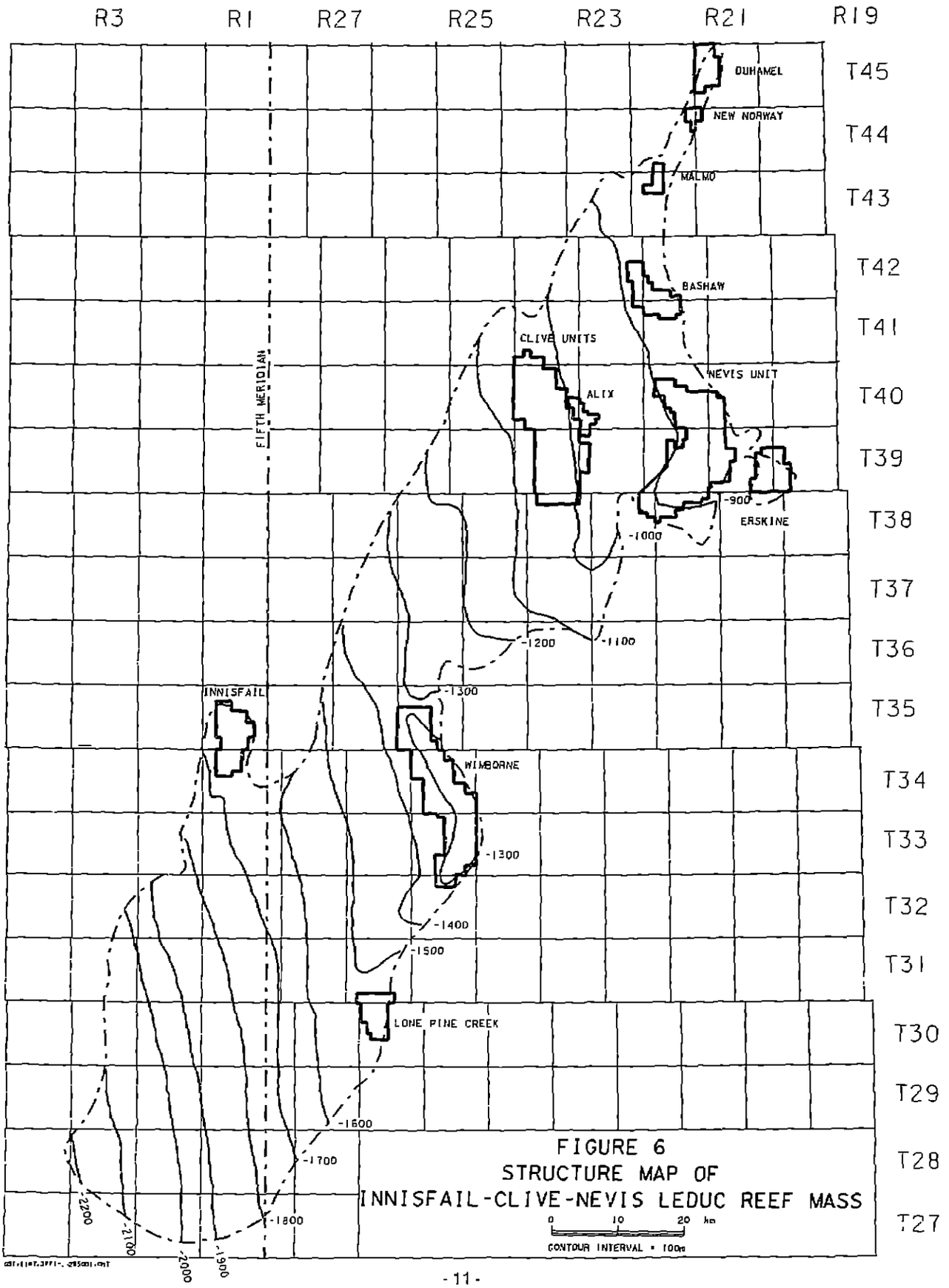
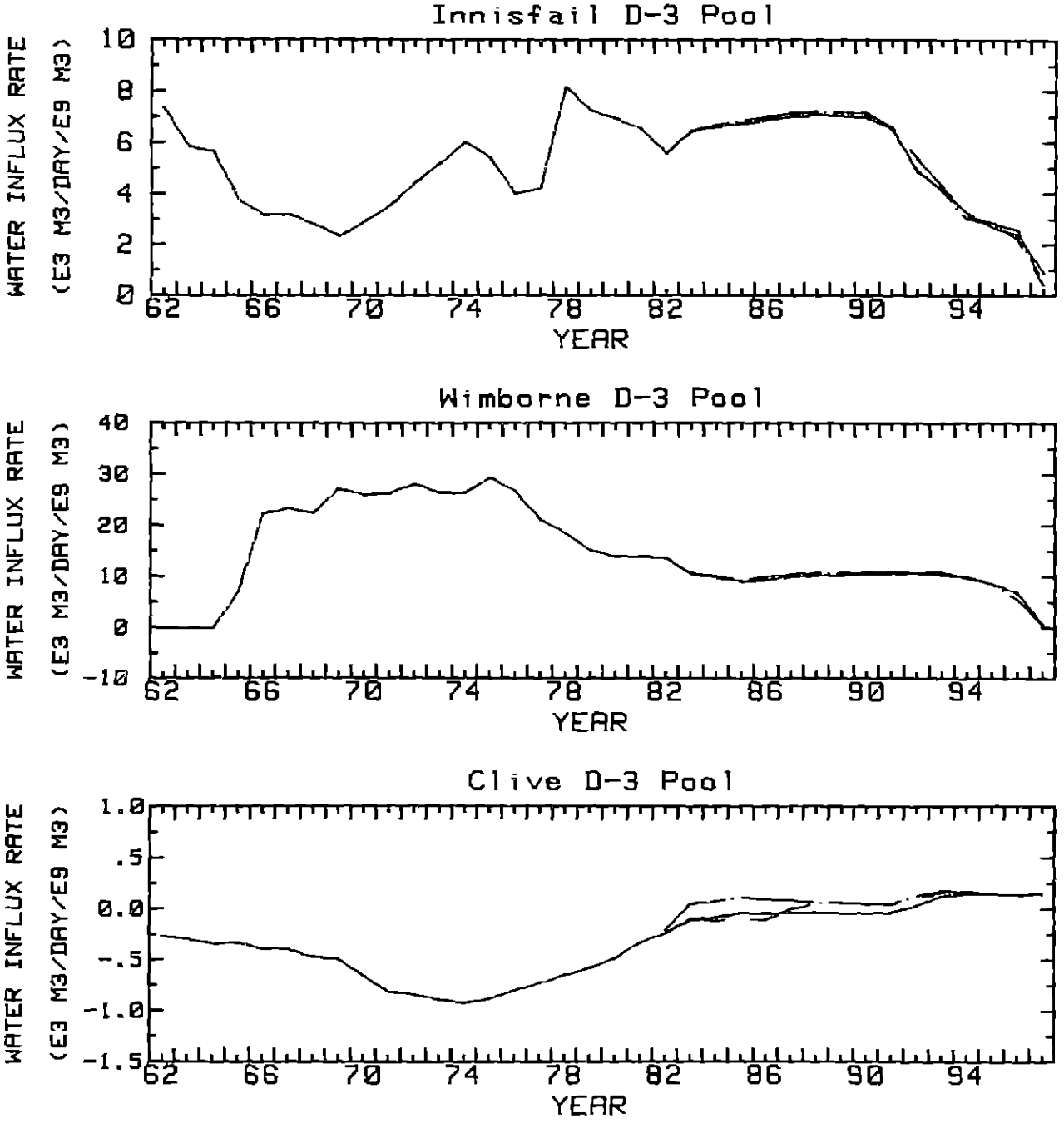


FIGURE 6
STRUCTURE MAP OF
INNISFAIL-CLIVE-NEVIS LEDUC REEF MASS

FIGURE 7a Innisfail-Clive-Nevis Reef Chain Study
Water Influx Profiles



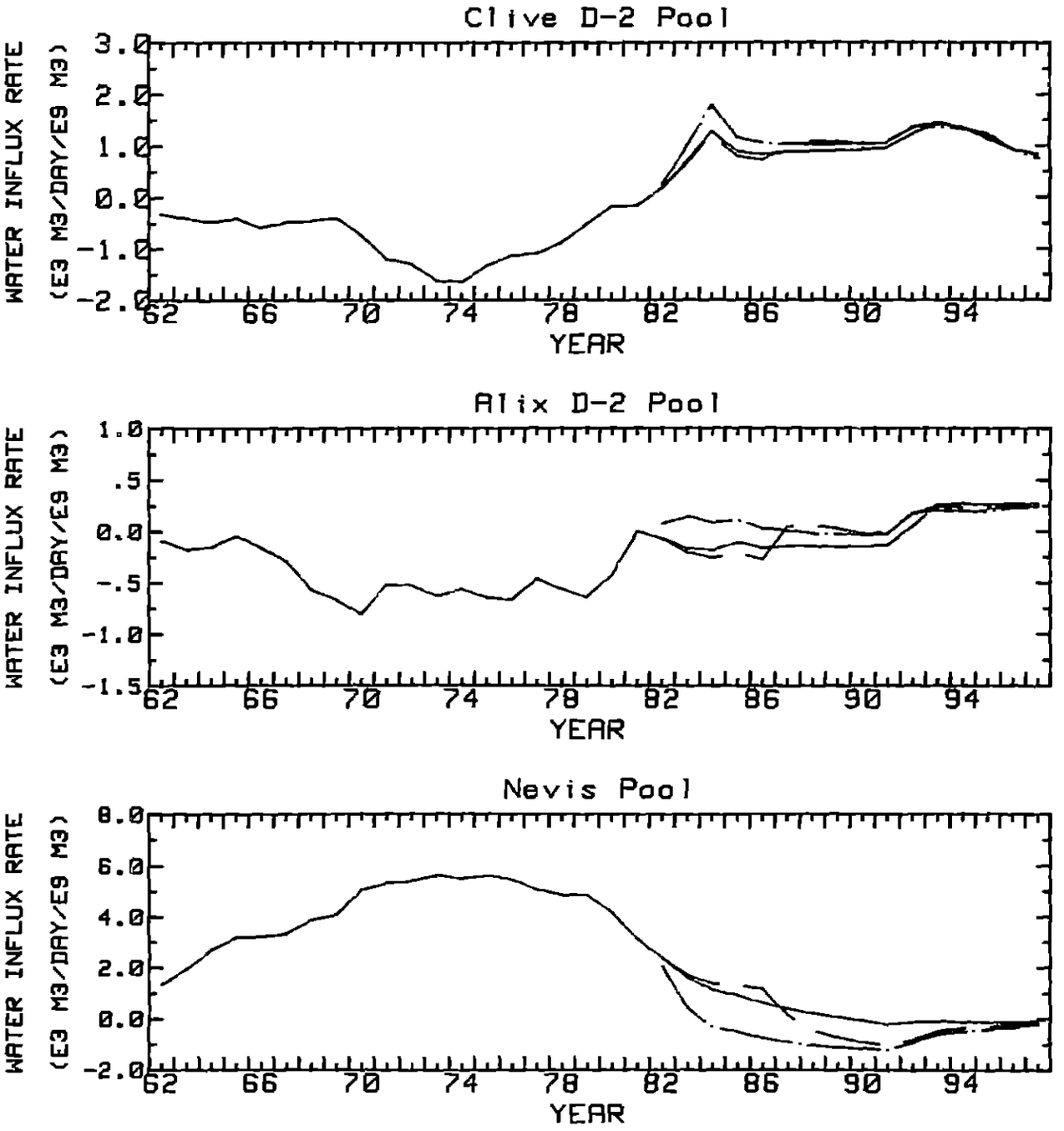
LEGEND

———————— Base Case: Deplete Nevis in ten years

—— —— . Case 1: Deplete Nevis in five years

——.——.— Case 2: Shut in Nevis from 1982-87

FIGURE 7b Innisfail-Clive-Nevis Reef Chain Study
Water Influx Profiles



LEGEND

———— Base Case: Deplete Nevis in ten years

— — — Case 1: Deplete Nevis in five years

—·—·— Case 2: Shut in Nevis from 1982-07

ATTACHMENT 4

Pressure Surveys

Test Type Static Gradient

Company Name	**Enhance Energy Inc.**
Well Name	**EnhanceEnergy Clive 3-15-40-24**
Unique Well ID	**100/03-15-040-24W4/0**
Well License Number	**0028323**
Formation	**Leduc**
Start Test Date	**2024/04/12**
Final Test Date	**2024/04/12**

Prepared By	**Kennason Tech Services Inc.**
Qualified By	**Cory Strang**
Report Date	**2024/04/15**

Reliance OFS Canada Limited
2500 333 - 7th Ave SW
Calgary AB T2P 2Z1
403-475-1229
relianceofs.com

RELIANCE OILFIELD SERVICES

Pressure Survey Report

Static Gradient

Company Name Enhance Energy Inc.
Contact Kevin Meyer
Representative Russ Guenther

General Information

Well Name	EnhanceEnergy Clive 3-15-40-24	KB Elevation (SL)	908.00 m
Unique Well ID	100/03-15-040-24W4/0	CF Elevation (SL)	903.70 m
Surface Location	03-15-040-24W4	GL Elevation (SL)	903.70 m
Well License Number	0028323	KB-CF Offset	4.30 m
Well Type	Vertical	KB-GL Offset	4.30 m

Wellbore Information

Tubing OD	60.3 mm	Casing OD	139.7 mm
Tubing ID	50.7 mm	Casing ID	125.7 mm
Tubing Depth(Log KB)	1907.00000 m	Casing Depth(Log KB)	1947.00000 m
Tubing Depth(TVD KB)	1907.00000 m	Casing Depth(TVD KB)	1947.00000 m
Packer Depth(Log KB)	1904.00000 m	PBTD(Log KB)	1915.90 m
Packer Depth(TVD KB)	1904.00000 m	PBTD(TVD KB)	1915.90 m

Gross Completion Interval (GCI) as tested:

Top(Log KB)	1910.00 m	Top(TVD KB)	1910.00 m	Formation Name	Leduc
Bottom(Log KB)	1913.50 m	Bottom(TVD KB)	1913.50 m	Pool	
MPP(Log KB)	1911.75 m	MPP(TVD KB)	1911.75 m		

Test Information

Test Type	Static Gradient	Date/Time Gauge on Bottom	2024/04/12 10:14:15
Well Fluid Type	01 Oil	Date/Time Gauge Off Bottom	2024/04/12 10:29:15
Test Purpose	Annual Pressure	Time/Date Well Shut-In	2024/03/16 12:00:00
		Shut-In Duration	644.9069 h

Surface Pressures:

Tubing Pressure Initial	6746.00 kPa(a)	Casing Pressure Initial	93.00 kPa(a)
Tubing Pressure: Final	6746.00 kPa(a)	Casing Pressure: Final	93.00 kPa(a)

Test Results

Gauge Serial Number Used in Summary	80662	Run Depth (Log KB)	1911.70 m
Calculated Pressure Corrected to MPP	13533.77 kPa(a)	Run Depth (TVD KB)	1911.70 m
Reservoir Temperature	62.61 °C	Pressure at Stop Depth	13533.58 kPa(a)
Liquid Level(TVD KB)	226.88 m	Temperature at Run Depth	62.6 °C

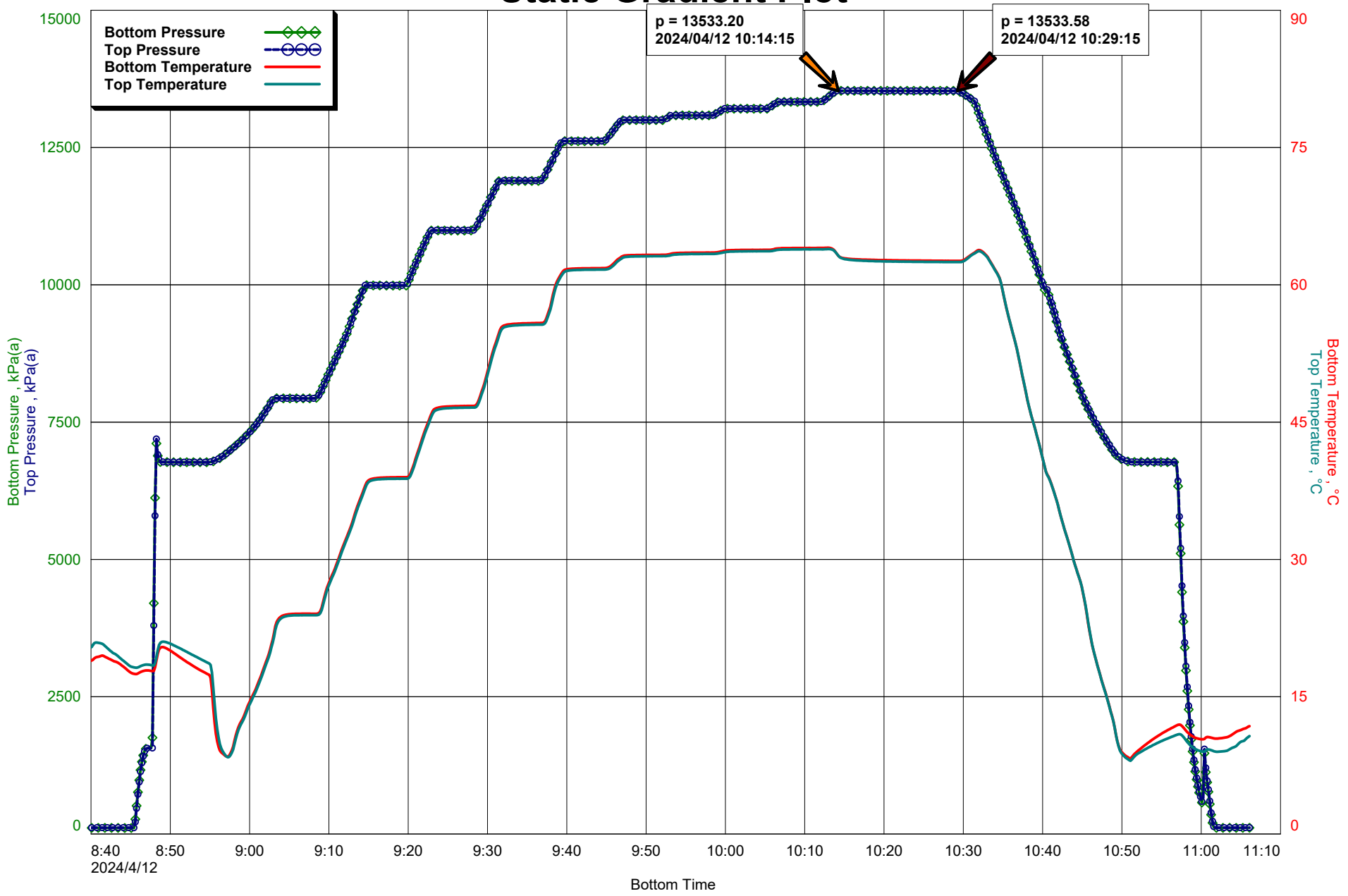
Test Remarks:

Perfs for /00 (event): 1910.00 - 1911.70, 1913.00 - 1913.50 mKB

Enhance Energy Inc.
100/03-15-040-24W4/0
Start Test Date: 2024/04/12
Final Test Date: 2024/04/12

EnhanceEnergy Clive 3-15-40-24
Formation: Leduc

Static Gradient Plot



Static Gradient 2024/04/12

Company Name Enhance Energy Inc.

Well Name EnhanceEnergy Clive 3-15-40-24

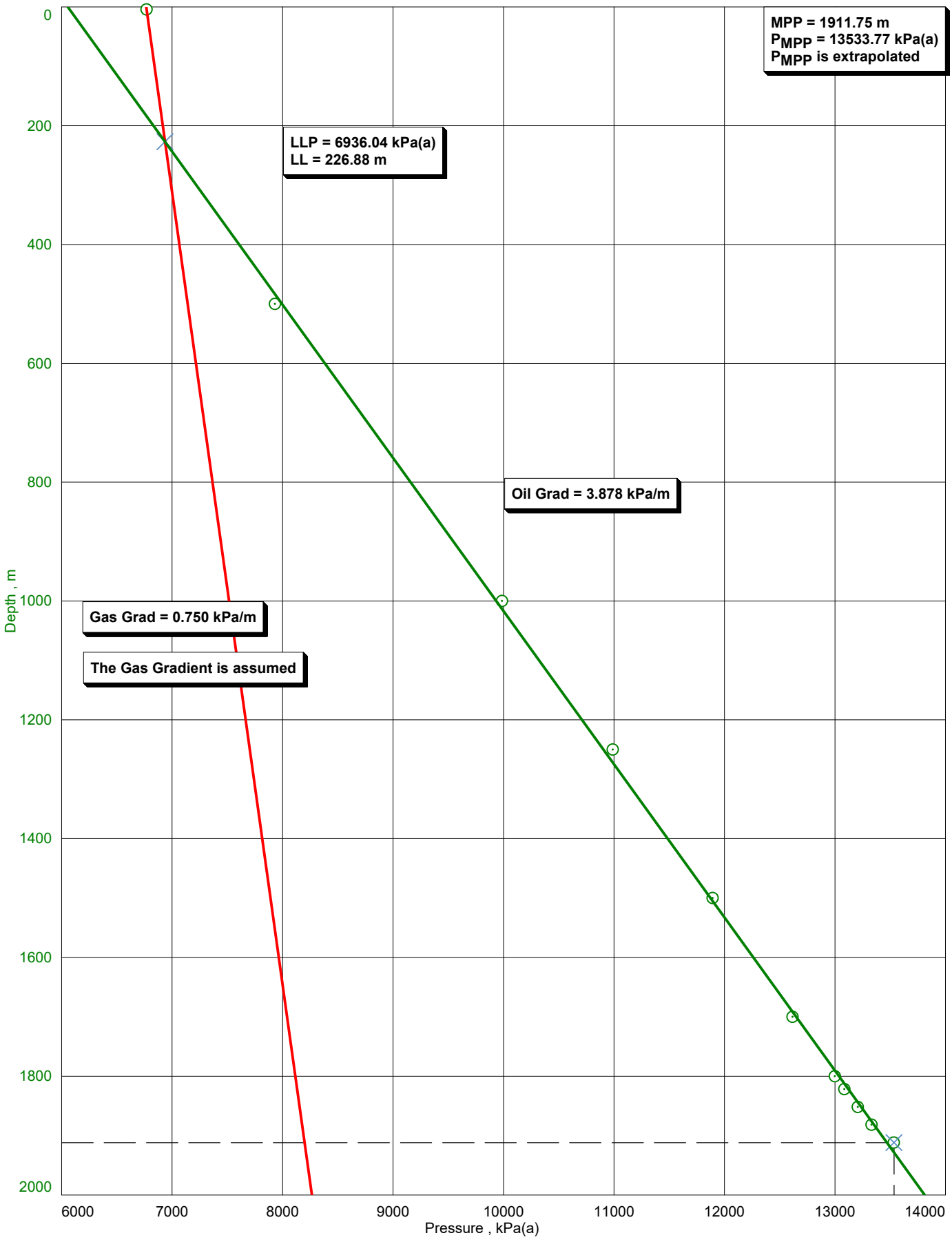
Unique Well ID	100/03-15-040-24W4/0	KB Elevation (SL)	908.00
		GL Elevation (SL)	903.70
Formation	Leduc	CF Elevation (SL)	903.70
Well Fluid Type	01 Oil		
Well License Number	0028323		
Well Type	Vertical		
Start Test Date	2024/04/12	Start Test Time	08:39:00
Final Test Date	2024/04/12	Final Test Time	11:06:05
Date Well Shut-In	2024/03/16	Time Well Shut-In	12:00:00

Top(TVD KB)	1910.00 m	Tubing Pressure: Initial	6746.00 kPa(a)
Bottom(TVD KB)	1913.50 m	Casing Pressure: Initial	93.00 kPa(a)
MPP(TVD KB)	1911.75 m	Shut-In Duration	644.9069 h

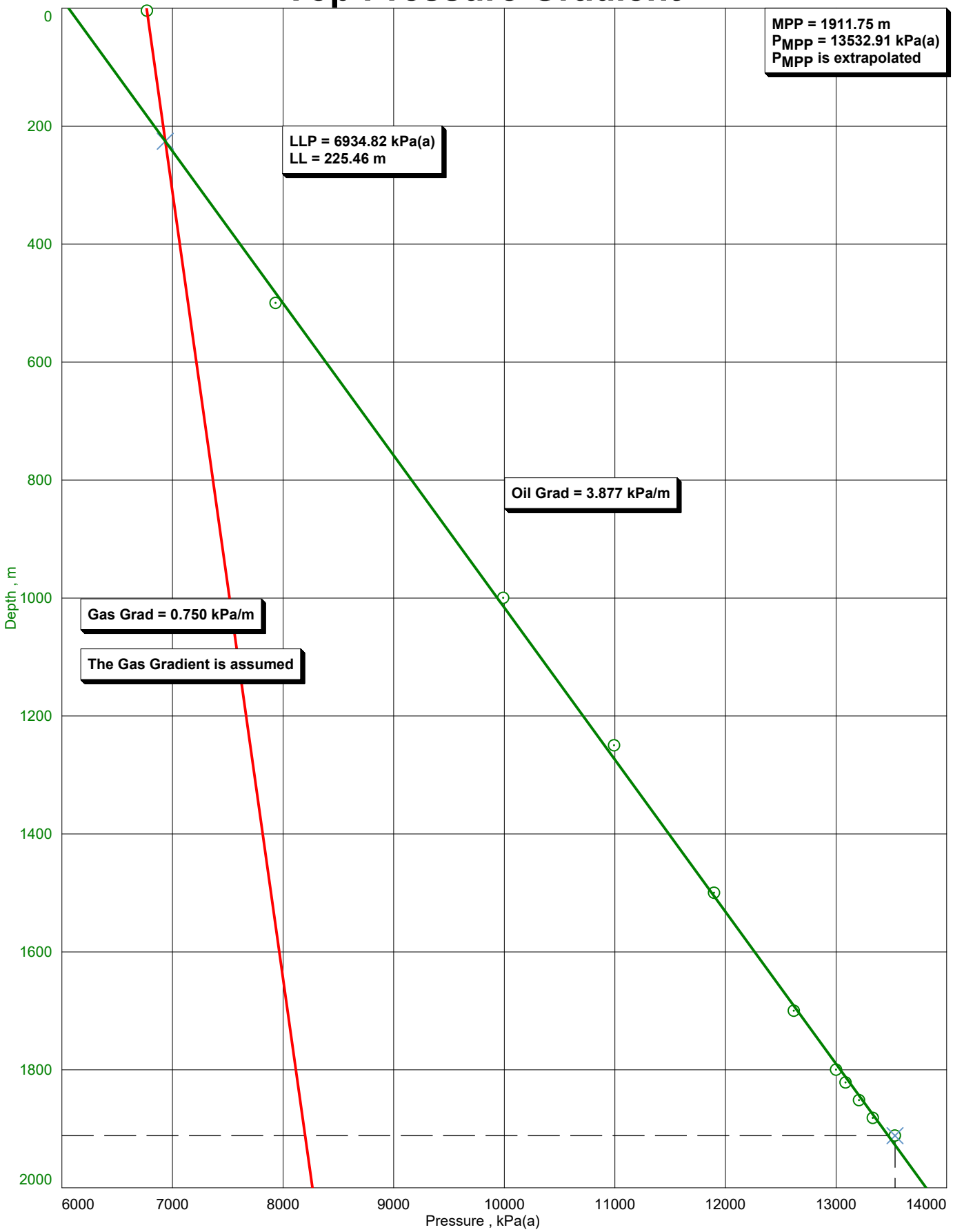
	Bottom	Top
Gauge Name	Bottom	Top
Gauge Serial Number	80662	80806
Gauge Type	Strain	Strain
Gauge Manufacturer	Spartek	Spartek
Gauge Model	SS2500	SS2500
Maximum Recorder Range	41370.00 kPa(a)	41370.00 kPa(a)
Resolution (% of Full Scale)	0.00030	0.00030
Accuracy (% of Full Scale)	0.03000	0.03000
Date of Last Calibration	2023/07/27	2023/07/27
Gauge Start Date	2024/04/12 08:39:00	2024/04/12 08:39:00
Gauge Stop Date	2024/04/12 11:06:05	2024/04/12 11:06:05
Date Gauge On Bottom	2024/04/12 10:14:15	2024/04/12 10:14:15
Date Gauge Off Bottom	2024/04/12 10:29:15	2024/04/12 10:29:15
Run Depth (TVD KB)	1911.70 m	1911.45 m
Pressure at Run Depth	13533.58 kPa(a)	13531.75 kPa(a)
Pressure at MPP	13533.77 kPa(a)	13532.91 kPa(a)
Representative Gradient	3.878 kPa/m	3.877 kPa/m
Temperature at Run Depth	62.6 °C	62.5 °C
Liquid Level(TVD KB)	226.88 m	225.46 m

Bottom					Top					
Depth	Temp.	Pressure	Gradient	Gradient	Time	Depth	Temp.	Pressure	Gradient	Gradient
m	°C	kPa(a)	kPa/m	°C/m	HH:mm:ss	m	°C	kPa(a)	kPa/m	°C/m
4.30	17.61	6769.11			08:54:25	4.05	18.77	6768.77		
500.00	24.06	7931.72	2.345	0.013	09:08:15	499.75	23.91	7932.25	2.347	0.010
1000.00	38.98	9986.73	4.110	0.030	09:19:35	999.75	38.82	9990.22	4.116	0.030
1250.00	46.77	10989.10	4.009	0.031	09:28:05	1249.75	46.59	10993.57	4.013	0.031
1500.00	55.83	11892.66	3.614	0.036	09:36:45	1499.75	55.66	11897.00	3.614	0.036
1700.00	61.83	12616.29	3.618	0.030	09:44:35	1699.75	61.67	12618.36	3.607	0.030
1800.00	63.28	12998.91	3.826	0.015	09:51:55	1799.75	63.13	13000.57	3.822	0.015
1821.70	63.52	13084.87	3.961	0.011	09:58:15	1821.45	63.38	13086.53	3.961	0.011
1851.70	63.82	13206.79	4.064	0.010	10:05:05	1851.45	63.67	13207.82	4.043	0.010
1881.70	64.03	13331.58	4.160	0.007	10:11:55	1881.45	63.88	13332.37	4.152	0.007
1911.70	62.61	13533.58	6.733	-0.047	10:29:15	1911.45	62.49	13531.75	6.646	-0.047

Bottom Pressure Gradient



Top Pressure Gradient



Company Name Enhance Energy Inc.
Unique Well ID 100/03-15-040-24W4/0
Start Test Date 2024/04/12
Final Test Date 2024/04/12

Well Name EnhanceEnergy Clive 3-15-40-24
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
1	2024/04/12 08:39:00	0.0000	111.74	18.54	0.0000	112.15	19.78
2	2024/04/12 08:39:35	0.0097	112.03	18.75	0.0097	112.75	20.34
3	2024/04/12 08:40:25	0.0236	111.75	19.19	0.0236	113.38	20.85
4	2024/04/12 08:41:35	0.0431	111.45	19.45	0.0431	113.94	20.69
5	2024/04/12 08:42:45	0.0625	110.34	18.94	0.0625	115.38	19.79
6	2024/04/12 08:43:55	0.0819	109.65	18.39	0.0819	114.82	19.04
7	2024/04/12 08:45:05	0.1014	109.07	17.60	0.1014	114.08	18.27
8	2024/04/12 08:46:15	0.1208	1164.41	17.69	0.1208	1134.43	18.33
9	2024/04/12 08:47:25	0.1403	1562.99	17.85	0.1403	1565.01	18.48
10	2024/04/12 08:48:35	0.1597	6790.51	20.16	0.1597	6819.79	20.64
11	2024/04/12 08:49:45	0.1792	6770.93	20.17	0.1792	6771.87	20.88
12	2024/04/12 08:50:55	0.1986	6768.58	19.49	0.1986	6770.87	20.41
13	2024/04/12 08:52:05	0.2181	6769.14	18.80	0.2181	6769.70	19.90
14	2024/04/12 08:53:15	0.2375	6768.95	18.17	0.2375	6769.02	19.37
15	2024/04/12 08:54:25	0.2569	6769.11	17.61	0.2569	6769.10	18.84
16	2024/04/12 08:55:35	0.2764	6796.42	12.15	0.2764	6799.32	14.17
17	2024/04/12 08:56:45	0.2958	6895.16	8.68	0.2958	6893.05	8.84
18	2024/04/12 08:57:55	0.3153	7032.36	9.54	0.3153	7026.89	9.22
19	2024/04/12 08:59:05	0.3347	7183.16	12.52	0.3347	7177.15	12.26
20	2024/04/12 09:00:15	0.3542	7357.40	14.88	0.3542	7351.73	14.61
21	2024/04/12 09:01:25	0.3736	7573.14	17.24	0.3736	7564.45	16.96
22	2024/04/12 09:02:35	0.3931	7833.88	20.16	0.3931	7823.41	19.82
23	2024/04/12 09:03:45	0.4125	7934.71	23.61	0.4125	7934.23	23.37
24	2024/04/12 09:04:55	0.4319	7931.64	24.00	0.4319	7933.13	23.84
25	2024/04/12 09:06:05	0.4514	7931.73	24.06	0.4514	7932.78	23.90
26	2024/04/12 09:07:15	0.4708	7931.02	24.06	0.4708	7932.34	23.91
27	2024/04/12 09:08:25	0.4903	7941.74	24.05	0.4903	7941.00	23.91
28	2024/04/12 09:09:35	0.5097	8258.74	26.41	0.5097	8247.68	26.10
29	2024/04/12 09:10:45	0.5292	8622.06	28.99	0.5292	8611.96	28.71
30	2024/04/12 09:11:55	0.5486	8993.97	31.73	0.5486	8984.32	31.46
31	2024/04/12 09:13:05	0.5681	9451.22	34.44	0.5681	9437.02	34.14
32	2024/04/12 09:14:15	0.5875	9894.76	37.29	0.5875	9883.49	37.01
33	2024/04/12 09:15:25	0.6069	9988.90	38.80	0.6069	9991.34	38.63
34	2024/04/12 09:16:35	0.6264	9987.20	38.92	0.6264	9990.55	38.77
35	2024/04/12 09:17:45	0.6458	9986.95	38.97	0.6458	9990.60	38.81
36	2024/04/12 09:18:55	0.6653	9987.19	38.98	0.6653	9990.37	38.81
37	2024/04/12 09:20:05	0.6847	10086.26	39.09	0.6847	10078.42	38.89
38	2024/04/12 09:21:15	0.7042	10490.04	41.85	0.7042	10481.56	41.55
39	2024/04/12 09:22:25	0.7236	10869.04	44.77	0.7236	10860.77	44.47
40	2024/04/12 09:23:35	0.7431	10990.45	46.54	0.7431	10993.56	46.33
41	2024/04/12 09:24:45	0.7625	10989.37	46.70	0.7625	10993.79	46.51
42	2024/04/12 09:25:55	0.7819	10988.92	46.74	0.7819	10993.19	46.55
43	2024/04/12 09:27:05	0.8014	10989.30	46.76	0.8014	10993.55	46.58
44	2024/04/12 09:28:15	0.8208	10992.90	46.77	0.8208	10994.02	46.59
45	2024/04/12 09:29:25	0.8403	11297.52	48.71	0.8403	11290.91	48.41

Print Filter: Approximately every 7 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80662	2024/04/12 YYYY/MM/DD	08:39:00 HH:mm:ss	1911.70 m
Top	80806	2024/04/12 YYYY/MM/DD	08:39:00 HH:mm:ss	1911.45 m

Company Name Enhance Energy Inc.
Unique Well ID 100/03-15-040-24W4/0
Start Test Date 2024/04/12
Final Test Date 2024/04/12

Well Name EnhanceEnergy Clive 3-15-40-24
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
46	2024/04/12 09:30:35	0.8597	11644.90	52.42	0.8597	11636.03	52.07
47	2024/04/12 09:31:45	0.8792	11894.70	55.35	0.8792	11896.82	55.09
48	2024/04/12 09:32:55	0.8986	11892.72	55.70	0.8986	11897.22	55.52
49	2024/04/12 09:34:05	0.9181	11891.96	55.77	0.9181	11897.03	55.60
50	2024/04/12 09:35:15	0.9375	11891.91	55.80	0.9375	11896.90	55.63
51	2024/04/12 09:36:25	0.9569	11892.81	55.83	0.9569	11896.83	55.66
52	2024/04/12 09:37:35	0.9764	12098.55	56.75	0.9764	12092.54	56.44
53	2024/04/12 09:38:45	0.9958	12442.33	60.34	0.9958	12433.08	60.05
54	2024/04/12 09:39:55	1.0153	12617.88	61.69	1.0153	12619.68	61.50
55	2024/04/12 09:41:05	1.0347	12615.62	61.78	1.0347	12618.90	61.62
56	2024/04/12 09:42:15	1.0542	12615.77	61.80	1.0542	12618.08	61.65
57	2024/04/12 09:43:25	1.0736	12615.92	61.82	1.0736	12618.27	61.66
58	2024/04/12 09:44:35	1.0931	12616.29	61.83	1.0931	12618.36	61.67
59	2024/04/12 09:45:45	1.1125	12792.01	62.21	1.1125	12787.21	62.02
60	2024/04/12 09:46:55	1.1319	13001.78	63.07	1.1319	13005.57	62.88
61	2024/04/12 09:48:05	1.1514	12998.97	63.24	1.1514	13000.73	63.09
62	2024/04/12 09:49:15	1.1708	12998.93	63.26	1.1708	13000.12	63.11
63	2024/04/12 09:50:25	1.1903	12999.11	63.26	1.1903	13000.59	63.13
64	2024/04/12 09:51:35	1.2097	12999.08	63.27	1.2097	13000.30	63.13
65	2024/04/12 09:52:45	1.2292	13045.06	63.32	1.2292	13043.98	63.17
66	2024/04/12 09:53:55	1.2486	13084.95	63.48	1.2486	13086.26	63.32
67	2024/04/12 09:55:05	1.2681	13085.00	63.51	1.2681	13086.37	63.36
68	2024/04/12 09:56:15	1.2875	13084.86	63.51	1.2875	13086.20	63.37
69	2024/04/12 09:57:25	1.3069	13085.33	63.52	1.3069	13086.45	63.38
70	2024/04/12 09:58:35	1.3264	13098.27	63.53	1.3264	13096.83	63.38
71	2024/04/12 09:59:45	1.3458	13200.43	63.70	1.3458	13198.32	63.54
72	2024/04/12 10:00:55	1.3653	13206.64	63.79	1.3653	13208.17	63.64
73	2024/04/12 10:02:05	1.3847	13206.95	63.81	1.3847	13207.58	63.66
74	2024/04/12 10:03:15	1.4042	13207.08	63.81	1.4042	13207.74	63.68
75	2024/04/12 10:04:25	1.4236	13207.40	63.82	1.4236	13207.84	63.68
76	2024/04/12 10:05:35	1.4431	13230.52	63.82	1.4431	13228.01	63.68
77	2024/04/12 10:06:45	1.4625	13331.53	63.99	1.4625	13331.46	63.83
78	2024/04/12 10:07:55	1.4819	13331.48	64.01	1.4819	13332.13	63.87
79	2024/04/12 10:09:05	1.5014	13331.03	64.02	1.5014	13332.16	63.88
80	2024/04/12 10:10:15	1.5208	13331.42	64.02	1.5208	13332.24	63.88
81	2024/04/12 10:11:25	1.5403	13331.38	64.03	1.5403	13332.17	63.88
82	2024/04/12 10:12:35	1.5597	13376.00	64.05	1.5597	13371.30	63.90
83	2024/04/12 10:13:45	1.5792	13511.67	63.75	1.5792	13508.58	63.69
84	2024/04/12 10:14:55	1.5986	13533.43	62.91	1.5986	13532.84	62.84
85	2024/04/12 10:16:05	1.6181	13533.64	62.81	1.6181	13532.39	62.70
86	2024/04/12 10:17:15	1.6375	13534.14	62.76	1.6375	13532.52	62.64
87	2024/04/12 10:18:25	1.6569	13533.81	62.73	1.6569	13532.40	62.60
88	2024/04/12 10:19:35	1.6764	13534.21	62.71	1.6764	13532.39	62.58
89	2024/04/12 10:20:45	1.6958	13533.61	62.69	1.6958	13532.53	62.55
90	2024/04/12 10:21:55	1.7153	13533.74	62.67	1.7153	13532.28	62.54

Print Filter: Approximately every 7 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80662	2024/04/12 YYYY/MM/DD	08:39:00 HH:mm:ss	1911.70 m
Top	80806	2024/04/12 YYYY/MM/DD	08:39:00 HH:mm:ss	1911.45 m

Company Name Enhance Energy Inc.
Unique Well ID 100/03-15-040-24W4/0
Start Test Date 2024/04/12
Final Test Date 2024/04/12

Well Name EnhanceEnergy Clive 3-15-40-24
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
91	2024/04/12 10:23:05	1.7347	13534.10	62.66	1.7347	13532.25	62.53
92	2024/04/12 10:24:15	1.7542	13533.69	62.65	1.7542	13532.16	62.52
93	2024/04/12 10:25:25	1.7736	13533.88	62.64	1.7736	13531.85	62.51
94	2024/04/12 10:26:35	1.7931	13533.63	62.63	1.7931	13532.21	62.50
95	2024/04/12 10:27:45	1.8125	13533.70	62.63	1.8125	13532.10	62.50
96	2024/04/12 10:28:55	1.8319	13533.69	62.62	1.8319	13532.62	62.49
97	2024/04/12 10:30:05	1.8514	13469.95	62.73	1.8514	13472.44	62.60
98	2024/04/12 10:31:15	1.8708	13360.16	63.43	1.8708	13362.71	63.35
99	2024/04/12 10:32:25	1.8903	12934.74	63.62	1.8903	12948.47	63.52
100	2024/04/12 10:33:35	1.9097	12484.71	62.29	1.9097	12500.10	62.22
101	2024/04/12 10:34:45	1.9292	12055.93	60.19	1.9292	12073.01	60.21
102	2024/04/12 10:35:55	1.9486	11634.96	55.80	1.9486	11656.16	55.81
103	2024/04/12 10:37:05	1.9681	11201.92	51.61	1.9681	11223.65	51.66
104	2024/04/12 10:38:15	1.9875	10740.64	46.79	1.9875	10762.07	46.82
105	2024/04/12 10:39:25	2.0069	10258.55	43.07	2.0069	10280.21	43.07
106	2024/04/12 10:40:35	2.0264	9889.88	39.28	2.0264	9910.18	39.21
107	2024/04/12 10:41:45	2.0458	9330.74	36.51	2.0458	9352.71	36.49
108	2024/04/12 10:42:55	2.0653	8799.59	32.86	2.0653	8816.33	32.84
109	2024/04/12 10:44:05	2.0847	8339.17	29.41	2.0847	8355.27	29.39
110	2024/04/12 10:45:15	2.1042	7890.24	25.65	2.1042	7904.46	25.71
111	2024/04/12 10:46:25	2.1236	7551.94	20.04	2.1236	7564.56	20.06
112	2024/04/12 10:47:35	2.1431	7261.92	16.40	2.1431	7273.55	16.36
113	2024/04/12 10:48:45	2.1625	6997.35	12.93	2.1625	7007.16	12.87
114	2024/04/12 10:49:55	2.1819	6828.05	9.02	2.1819	6833.70	8.87
115	2024/04/12 10:51:05	2.2014	6776.47	8.24	2.2014	6777.36	8.00
116	2024/04/12 10:52:15	2.2208	6773.97	9.25	2.2208	6772.79	8.90
117	2024/04/12 10:53:25	2.2403	6773.72	10.04	2.2403	6771.67	9.47
118	2024/04/12 10:54:35	2.2597	6772.71	10.73	2.2597	6771.23	9.98
119	2024/04/12 10:55:45	2.2792	6772.32	11.34	2.2792	6770.72	10.43
120	2024/04/12 10:56:55	2.2986	6699.64	11.87	2.2986	6736.10	10.83
121	2024/04/12 10:58:05	2.3181	2975.23	11.29	2.3181	3056.77	10.23
122	2024/04/12 10:59:15	2.3375	1138.29	10.52	2.3375	1173.77	9.29
123	2024/04/12 11:00:25	2.3569	1470.32	10.39	2.3569	1545.13	8.99
124	2024/04/12 11:01:35	2.3764	123.15	10.45	2.3764	135.45	9.05
125	2024/04/12 11:02:45	2.3958	111.25	10.50	2.3958	115.15	9.03
126	2024/04/12 11:03:55	2.4153	111.65	10.86	2.4153	115.67	9.41
127	2024/04/12 11:05:05	2.4347	111.46	11.39	2.4347	115.76	10.10
128	2024/04/12 11:06:05	2.4514	112.02	11.78	2.4514	114.85	10.70

Print Filter: Approximately every 7 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80662	2024/04/12 YYYY/MM/DD	08:39:00 HH:mm:ss	1911.70 m
Top	80806	2024/04/12 YYYY/MM/DD	08:39:00 HH:mm:ss	1911.45 m

Test Type Static Gradient

Company Name	**Enhance Energy Inc.**
Well Name	**Enhance Energy Clive 4-11-40-24W4**
Unique Well ID	**100/04-11-040-24W4/0**
Well License Number	**0027600**
Formation	**Leduc**
Start Test Date	**2024/11/03**
Final Test Date	**2024/11/03**

Prepared By	**Kennason Tech Services Inc.**
Qualified By	**Cory Strang**
Report Date	**2024/11/04**

Reliance OFS Canada Limited
2500 333 - 7th Ave SW
Calgary AB T2P 2Z1
403-475-1229
relianceofs.com

RELIANCE OILFIELD SERVICES

Pressure Survey Report

Static Gradient

Company Name Enhance Energy Inc.
Contact Kevin Meyer
Representative Russ Guenther

General Information

Well Name	Enhance Energy Clive 4-11-40-24W4	KB Elevation (SL)	879.30 m
Unique Well ID	100/04-11-040-24W4/0	CF Elevation (SL)	875.10 m
Surface Location	04-11-040-24W4	GL Elevation (SL)	875.10 m
Well License Number	0027600	KB-CF Offset	4.20 m
Well Type	Vertical	KB-GL Offset	4.20 m

Wellbore Information

Tubing OD	60.3 mm	Casing OD	139.7 mm
Tubing ID	50.7 mm	Casing ID	125.7 mm
Tubing Depth(Log KB)	1886.90000 m	Casing Depth(Log KB)	1899.00000 m
Tubing Depth(TVD KB)	1886.90000 m	Casing Depth(TVD KB)	1899.00000 m
Packer Depth(Log KB)	1881.48000 m	PBTD(Log KB)	1902.00 m
Packer Depth(TVD KB)	1881.48000 m	PBTD(TVD KB)	1902.00 m

Gross Completion Interval (GCI) as tested:

Top(Log KB)	1890.30 m	Top(TVD KB)	1890.30 m	Formation Name	Leduc
Bottom(Log KB)	1892.70 m	Bottom(TVD KB)	1892.70 m	Pool	
MPP(Log KB)	1891.50 m	MPP(TVD KB)	1891.50 m		

Test Information

Test Type	Static Gradient	Date/Time Gauge on Bottom	2024/11/03 10:47:05
Well Fluid Type	06 Water	Date/Time Gauge Off Bottom	2024/11/03 12:51:35
Test Purpose	Annual Pressure	Time/Date Well Shut-In	2024/11/01 09:00:00
		Shut-In Duration	48.7958 h

Surface Pressures:

Tubing Pressure Initial	6753.00 kPa(a)	Casing Pressure Initial	113.00 kPa(a)
Tubing Pressure: Final	6728.00 kPa(a)	Casing Pressure: Final	113.00 kPa(a)

Test Results

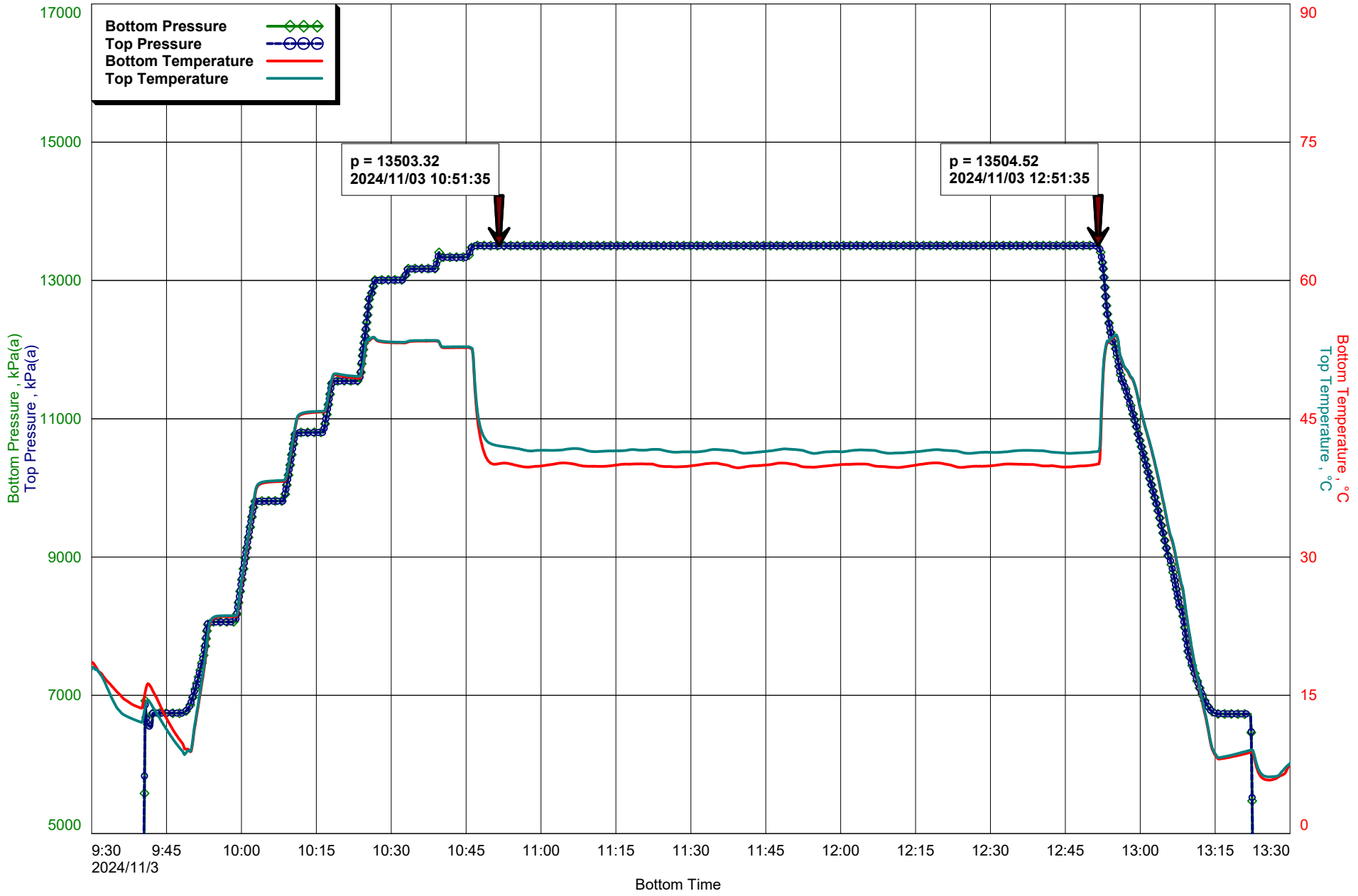
Gauge Serial Number Used in Summary	80704	Run Depth (Log KB)	1891.50 m
Calculated Pressure Corrected to MPP	13504.52 kPa(a)	Run Depth (TVD KB)	1891.50 m
Reservoir Temperature	40.09 °C	Pressure at Stop Depth	13504.52 kPa(a)
Liquid Level(TVD KB)	269.17 m	Temperature at Run Depth	40.1 °C

Test Remarks:

Enhance Energy Inc.
100/04-11-040-24W4/0
Start Test Date: 2024/11/03
Final Test Date: 2024/11/03

Enhance Energy Clive 4-11-40-24W4
Formation: Leduc

Static Gradient Plot



Static Gradient 2024/11/03

Company Name Enhance Energy Inc.

Well Name Enhance Energy Clive 4-11-40-24W4

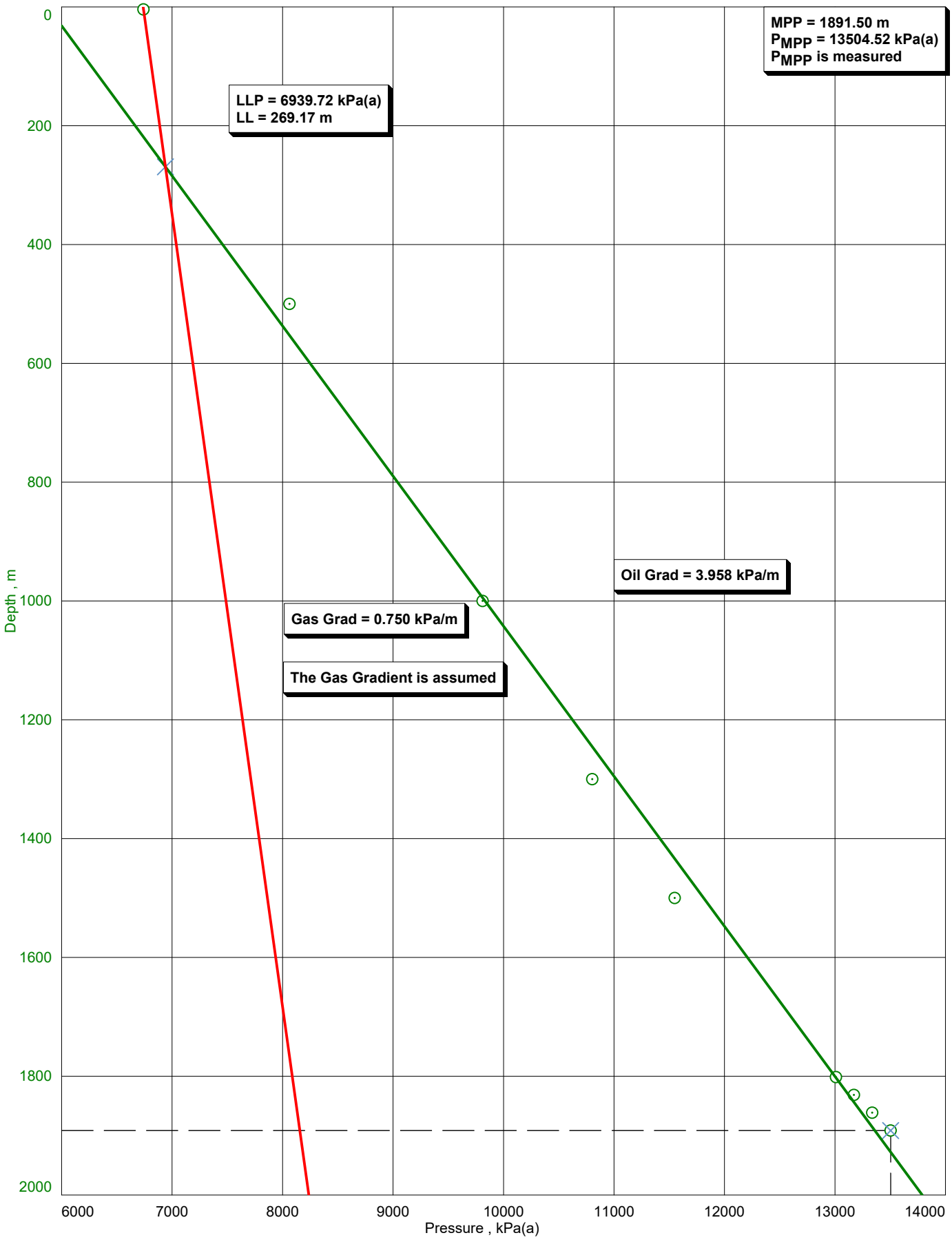
Unique Well ID	100/04-11-040-24W4/0	KB Elevation (SL)	879.30
		GL Elevation (SL)	875.10
Formation	Leduc	CF Elevation (SL)	875.10
Well Fluid Type	06 Water		
Well License Number	0027600		
Well Type	Vertical		
Start Test Date	2024/11/03	Start Test Time	09:29:00
Final Test Date	2024/11/03	Final Test Time	13:30:35
Date Well Shut-In	2024/11/01	Time Well Shut-In	09:00:00

Top(TVD KB)	1890.30 m	Tubing Pressure: Initial	6753.00 kPa(a)
Bottom(TVD KB)	1892.70 m	Casing Pressure: Initial	113.00 kPa(a)
MPP(TVD KB)	1891.50 m	Shut-In Duration	48.7958 h

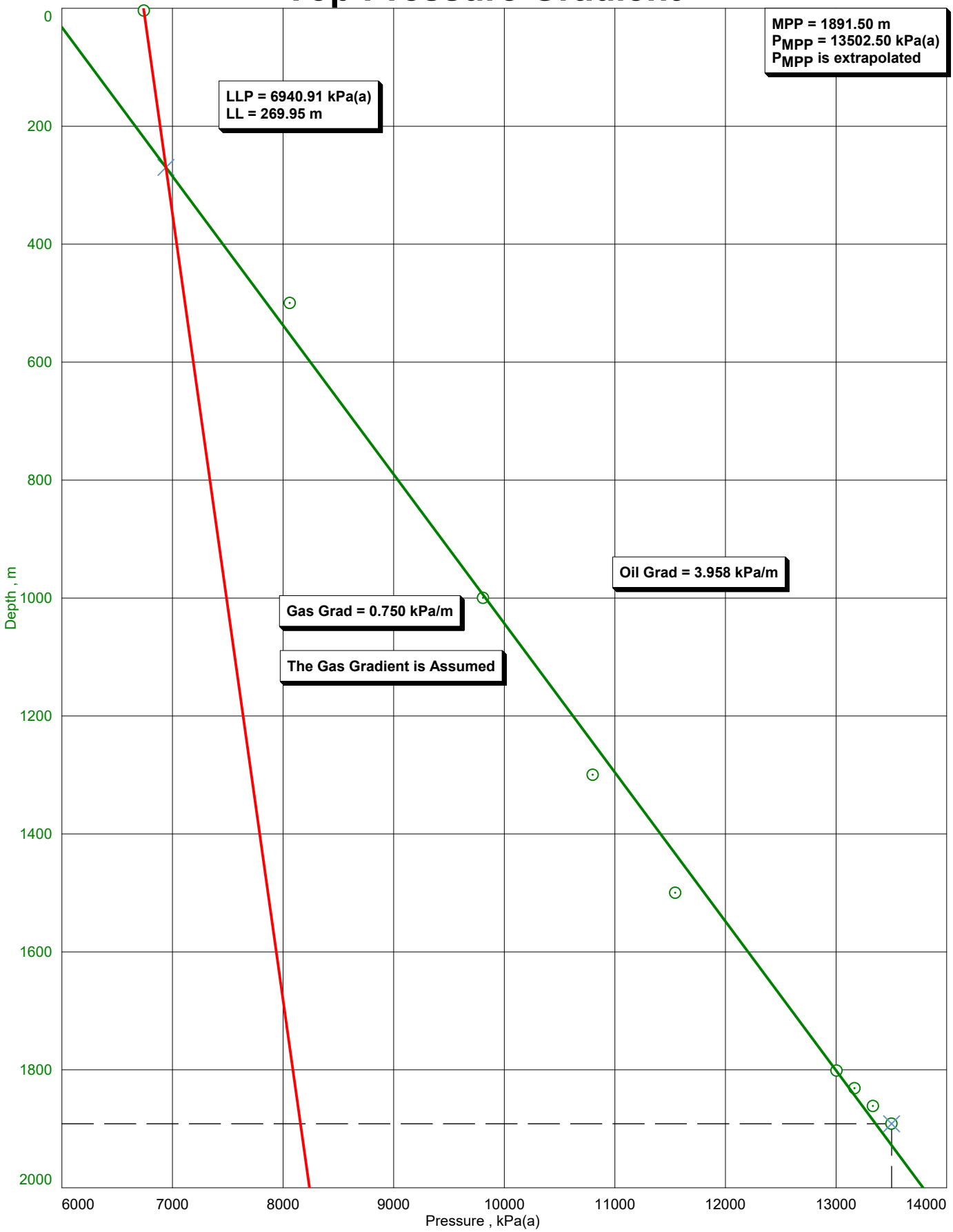
	Bottom	Top
Gauge Name	Bottom	Top
Gauge Serial Number	80704	80703
Gauge Type	Strain	Strain
Gauge Manufacturer	Spartek	Spartek
Gauge Model	SS2500	SS2500
Maximum Recorder Range	41370.00 kPa(a)	41370.00 kPa(a)
Resolution (% of Full Scale)	0.00030	0.00030
Accuracy (% of Full Scale)	0.03000	0.03000
Date of Last Calibration	2024/10/30	2024/10/30
Gauge Start Date	2024/11/03 09:29:00	2024/11/03 09:29:00
Gauge Stop Date	2024/11/03 13:30:35	2024/11/03 13:30:35
Date Gauge On Bottom	2024/11/03 10:47:05	2024/11/03 10:47:05
Date Gauge Off Bottom	2024/11/03 12:51:35	2024/11/03 12:51:35
Run Depth (TVD KB)	1891.50 m	1891.25 m
Pressure at Run Depth	13504.52 kPa(a)	13501.51 kPa(a)
Pressure at MPP	13504.52 kPa(a)	13502.50 kPa(a)
Representative Gradient	3.958 kPa/m	3.958 kPa/m
Temperature at Run Depth	40.1 °C	41.4 °C
Liquid Level(TVD KB)	269.17 m	269.95 m

Bottom						Top				
Depth	Temp.	Pressure	Gradient	Gradient	Time	Depth	Temp.	Pressure	Gradient	Gradient
m	°C	kPa(a)	kPa/m	°C/m	HH:mm:ss	m	°C	kPa(a)	kPa/m	°C/m
4.20	10.08	6740.99			09:47:45	3.95	9.00	6741.42		
500.00	23.53	8063.10	2.667	0.027	09:58:35	499.75	23.64	8060.36	2.660	0.030
1000.00	38.20	9811.12	3.496	0.029	10:08:15	999.75	38.31	9807.98	3.495	0.029
1300.00	45.73	10803.68	3.309	0.025	10:16:15	1299.75	45.81	10799.88	3.306	0.025
1500.00	49.42	11549.70	3.730	0.018	10:23:15	1499.75	49.59	11545.78	3.730	0.019
1801.50	53.23	13008.95	4.840	0.013	10:32:15	1801.25	53.30	13004.80	4.839	0.012
1831.50	53.44	13171.57	5.421	0.007	10:38:45	1831.25	53.50	13167.30	5.417	0.007
1861.50	52.72	13337.10	5.518	-0.024	10:45:15	1861.25	52.81	13333.45	5.538	-0.023
1891.50	40.09	13504.52	5.581	-0.421	12:51:35	1891.25	41.45	13501.51	5.602	-0.378

Bottom Pressure Gradient



Top Pressure Gradient



Company Name Enhance Energy Inc.
Unique Well ID 100/04-11-040-24W4/0
Start Test Date 2024/11/03
Final Test Date 2024/11/03

Well Name Enhance Energy Clive 4-11-40-24W4
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
1	2024/11/03 09:29:00	0.0000	105.18	17.36	0.0000	107.12	16.40
2	2024/11/03 09:30:05	0.0181	106.07	18.57	0.0181	109.97	17.94
3	2024/11/03 09:32:05	0.0514	105.14	17.25	0.0514	107.14	17.00
4	2024/11/03 09:34:05	0.0847	104.55	15.96	0.0847	104.49	14.64
5	2024/11/03 09:36:05	0.1181	104.46	14.80	0.1181	103.63	13.02
6	2024/11/03 09:38:05	0.1514	104.12	14.02	0.1514	103.86	12.46
7	2024/11/03 09:40:05	0.1847	1839.33	13.61	0.1847	2051.44	12.05
8	2024/11/03 09:42:05	0.2181	6565.13	15.65	0.2181	6568.85	13.87
9	2024/11/03 09:44:05	0.2514	6740.78	13.48	0.2514	6741.43	12.09
10	2024/11/03 09:46:05	0.2847	6740.84	11.44	0.2847	6741.41	10.41
11	2024/11/03 09:48:05	0.3181	6741.11	9.84	0.3181	6741.42	9.00
12	2024/11/03 09:50:05	0.3514	6931.46	9.29	0.3514	6936.66	9.48
13	2024/11/03 09:52:05	0.3847	7466.83	16.34	0.3847	7473.83	16.63
14	2024/11/03 09:54:05	0.4181	8061.25	23.17	0.4181	8058.98	23.32
15	2024/11/03 09:56:05	0.4514	8062.69	23.54	0.4514	8060.18	23.63
16	2024/11/03 09:58:05	0.4847	8063.14	23.53	0.4847	8060.18	23.63
17	2024/11/03 10:00:05	0.5181	8671.75	27.40	0.5181	8681.48	27.65
18	2024/11/03 10:02:05	0.5514	9580.22	34.61	0.5514	9587.36	34.85
19	2024/11/03 10:04:05	0.5847	9809.46	37.99	0.5847	9806.05	38.11
20	2024/11/03 10:06:05	0.6181	9810.69	38.15	0.6181	9807.33	38.25
21	2024/11/03 10:08:05	0.6514	9811.08	38.19	0.6514	9807.82	38.31
22	2024/11/03 10:10:05	0.6847	10480.14	41.89	0.6847	10486.21	42.08
23	2024/11/03 10:12:05	0.7181	10801.66	45.48	0.7181	10798.05	45.60
24	2024/11/03 10:14:05	0.7514	10803.11	45.67	0.7514	10799.39	45.77
25	2024/11/03 10:16:05	0.7847	10803.45	45.72	0.7847	10799.83	45.81
26	2024/11/03 10:18:05	0.8181	11509.58	49.14	0.8181	11509.81	49.28
27	2024/11/03 10:20:05	0.8514	11549.47	49.63	0.8514	11545.21	49.78
28	2024/11/03 10:22:05	0.8847	11549.80	49.47	0.8847	11546.04	49.64
29	2024/11/03 10:24:05	0.9181	11793.94	50.05	0.9181	11810.00	50.23
30	2024/11/03 10:26:05	0.9514	12818.38	53.70	0.9514	12816.47	53.79
31	2024/11/03 10:28:05	0.9847	13007.75	53.34	0.9847	13003.83	53.42
32	2024/11/03 10:30:05	1.0181	13008.72	53.25	1.0181	13004.74	53.33
33	2024/11/03 10:32:05	1.0514	13009.35	53.23	1.0514	13004.81	53.30
34	2024/11/03 10:34:05	1.0847	13171.56	53.40	1.0847	13167.19	53.47
35	2024/11/03 10:36:05	1.1181	13171.51	53.42	1.1181	13167.47	53.49
36	2024/11/03 10:38:05	1.1514	13171.53	53.44	1.1514	13167.43	53.50
37	2024/11/03 10:40:05	1.1847	13336.41	52.77	1.1847	13333.03	52.84
38	2024/11/03 10:42:05	1.2181	13336.80	52.71	1.2181	13332.96	52.80
39	2024/11/03 10:44:05	1.2514	13337.38	52.72	1.2514	13333.39	52.81
40	2024/11/03 10:46:05	1.2847	13476.26	52.62	1.2847	13475.64	52.70
41	2024/11/03 10:48:05	1.3181	13505.56	42.33	1.3181	13501.57	43.65
42	2024/11/03 10:50:05	1.3514	13503.78	40.13	1.3514	13500.66	42.26
43	2024/11/03 10:52:05	1.3847	13503.64	40.17	1.3847	13500.57	42.01
44	2024/11/03 10:54:05	1.4181	13503.18	40.07	1.4181	13500.59	41.86
45	2024/11/03 10:56:05	1.4514	13503.66	39.83	1.4514	13500.56	41.68

Print Filter: Approximately every 12 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80704	2024/11/03 YYYY/MM/DD	09:29:00 HH:mm:ss	1891.50 m
Top	80703	2024/11/03 YYYY/MM/DD	09:29:00 HH:mm:ss	1891.25 m

Company Name Enhance Energy Inc.
Unique Well ID 100/04-11-040-24W4/0
Start Test Date 2024/11/03
Final Test Date 2024/11/03

Well Name Enhance Energy Clive 4-11-40-24W4
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
46	2024/11/03 10:58:05	1.4847	13503.01	39.78	1.4847	13500.36	41.50
47	2024/11/03 11:00:05	1.5181	13503.29	39.88	1.5181	13500.66	41.58
48	2024/11/03 11:02:05	1.5514	13503.27	40.04	1.5514	13500.17	41.57
49	2024/11/03 11:04:05	1.5847	13503.01	40.20	1.5847	13500.52	41.61
50	2024/11/03 11:06:05	1.6181	13503.31	40.13	1.6181	13500.67	41.75
51	2024/11/03 11:08:05	1.6514	13503.63	39.90	1.6514	13500.55	41.70
52	2024/11/03 11:10:05	1.6847	13503.21	39.84	1.6847	13500.40	41.45
53	2024/11/03 11:12:05	1.7181	13503.01	39.83	1.7181	13500.72	41.46
54	2024/11/03 11:14:05	1.7514	13503.09	39.90	1.7514	13500.32	41.51
55	2024/11/03 11:16:05	1.7847	13503.45	40.05	1.7847	13500.91	41.53
56	2024/11/03 11:18:05	1.8181	13503.12	40.08	1.8181	13500.86	41.65
57	2024/11/03 11:20:05	1.8514	13503.71	40.11	1.8514	13500.62	41.59
58	2024/11/03 11:22:05	1.8847	13503.70	40.09	1.8847	13500.81	41.66
59	2024/11/03 11:24:05	1.9181	13503.12	39.85	1.9181	13501.14	41.63
60	2024/11/03 11:26:05	1.9514	13503.31	39.80	1.9514	13501.00	41.41
61	2024/11/03 11:28:05	1.9847	13503.62	39.81	1.9847	13500.96	41.40
62	2024/11/03 11:30:05	2.0181	13503.32	39.89	2.0181	13500.88	41.41
63	2024/11/03 11:32:05	2.0514	13503.89	40.04	2.0514	13500.85	41.44
64	2024/11/03 11:34:05	2.0847	13503.93	40.17	2.0847	13501.23	41.65
65	2024/11/03 11:36:05	2.1181	13503.68	40.08	2.1181	13501.29	41.63
66	2024/11/03 11:38:05	2.1514	13503.67	39.82	2.1514	13500.72	41.54
67	2024/11/03 11:40:05	2.1847	13503.76	39.70	2.1847	13500.95	41.30
68	2024/11/03 11:42:05	2.2181	13503.66	39.87	2.2181	13500.81	41.30
69	2024/11/03 11:44:05	2.2514	13503.89	39.93	2.2514	13500.72	41.41
70	2024/11/03 11:46:05	2.2847	13503.85	40.04	2.2847	13500.94	41.52
71	2024/11/03 11:48:05	2.3181	13503.96	40.19	2.3181	13501.27	41.69
72	2024/11/03 11:50:05	2.3514	13504.16	40.10	2.3514	13500.95	41.69
73	2024/11/03 11:52:05	2.3847	13503.92	39.83	2.3847	13501.25	41.58
74	2024/11/03 11:54:05	2.4181	13503.82	39.75	2.4181	13500.91	41.29
75	2024/11/03 11:56:05	2.4514	13503.72	39.82	2.4514	13500.96	41.34
76	2024/11/03 11:58:05	2.4847	13503.89	39.92	2.4847	13501.00	41.43
77	2024/11/03 12:00:05	2.5181	13503.95	40.03	2.5181	13501.39	41.42
78	2024/11/03 12:02:05	2.5514	13504.14	40.06	2.5514	13501.44	41.54
79	2024/11/03 12:04:05	2.5847	13504.21	40.09	2.5847	13501.27	41.61
80	2024/11/03 12:06:05	2.6181	13504.40	39.98	2.6181	13501.12	41.58
81	2024/11/03 12:08:05	2.6514	13504.07	39.83	2.6514	13500.78	41.39
82	2024/11/03 12:10:05	2.6847	13504.05	39.74	2.6847	13501.28	41.26
83	2024/11/03 12:12:05	2.7181	13504.64	39.74	2.7181	13500.85	41.30
84	2024/11/03 12:14:05	2.7514	13504.51	39.89	2.7514	13501.11	41.38
85	2024/11/03 12:16:05	2.7847	13504.11	40.06	2.7847	13501.42	41.47
86	2024/11/03 12:18:05	2.8181	13504.73	40.19	2.8181	13501.38	41.60
87	2024/11/03 12:20:05	2.8514	13504.25	40.18	2.8514	13501.31	41.62
88	2024/11/03 12:22:05	2.8847	13504.60	39.97	2.8847	13501.34	41.54
89	2024/11/03 12:24:05	2.9181	13504.00	39.72	2.9181	13501.12	41.38
90	2024/11/03 12:26:05	2.9514	13504.46	39.82	2.9514	13501.10	41.25

Print Filter: Approximately every 12 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80704	2024/11/03 YYYY/MM/DD	09:29:00 HH:mm:ss	1891.50 m
Top	80703	2024/11/03 YYYY/MM/DD	09:29:00 HH:mm:ss	1891.25 m

Company Name Enhance Energy Inc.
Unique Well ID 100/04-11-040-24W4/0
Start Test Date 2024/11/03
Final Test Date 2024/11/03

Well Name Enhance Energy Clive 4-11-40-24W4
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
91	2024/11/03 12:28:05	2.9847	13504.17	39.85	2.9847	13500.95	41.35
92	2024/11/03 12:30:05	3.0181	13504.24	39.89	3.0181	13501.19	41.36
93	2024/11/03 12:32:05	3.0514	13504.44	40.03	3.0514	13501.30	41.37
94	2024/11/03 12:34:05	3.0847	13504.65	40.09	3.0847	13501.41	41.47
95	2024/11/03 12:36:05	3.1181	13504.47	40.06	3.1181	13501.22	41.56
96	2024/11/03 12:38:05	3.1514	13504.83	40.04	3.1514	13501.55	41.57
97	2024/11/03 12:40:05	3.1847	13504.22	39.91	3.1847	13501.50	41.53
98	2024/11/03 12:42:05	3.2181	13504.34	39.90	3.2181	13501.35	41.39
99	2024/11/03 12:44:05	3.2514	13504.51	39.78	3.2514	13501.55	41.31
100	2024/11/03 12:46:05	3.2847	13504.22	39.78	3.2847	13501.23	41.24
101	2024/11/03 12:48:05	3.3181	13504.71	39.88	3.3181	13501.68	41.31
102	2024/11/03 12:50:05	3.3514	13504.18	39.94	3.3514	13501.43	41.37
103	2024/11/03 12:52:05	3.3847	13407.51	42.67	3.3847	13406.19	43.94
104	2024/11/03 12:54:05	3.4181	12248.69	53.65	3.4181	12246.18	53.76
105	2024/11/03 12:56:05	3.4514	11635.62	51.62	3.4514	11632.05	51.69
106	2024/11/03 12:58:05	3.4847	11192.02	49.49	3.4847	11189.68	49.59
107	2024/11/03 13:00:05	3.5181	10640.06	45.95	3.5181	10637.21	46.05
108	2024/11/03 13:02:05	3.5514	10090.56	41.97	3.5514	10088.37	42.09
109	2024/11/03 13:04:05	3.5847	9510.65	37.28	3.5847	9509.03	37.42
110	2024/11/03 13:06:05	3.6181	8945.35	32.17	3.6181	8944.01	32.35
111	2024/11/03 13:08:05	3.6514	8278.54	27.29	3.6514	8276.13	27.47
112	2024/11/03 13:10:05	3.6847	7510.36	20.75	3.6847	7509.48	20.94
113	2024/11/03 13:12:05	3.7181	7070.38	15.14	3.7181	7070.40	15.35
114	2024/11/03 13:14:05	3.7514	6784.43	9.84	3.7514	6784.47	10.00
115	2024/11/03 13:16:05	3.7847	6730.06	8.10	3.7847	6731.45	8.26
116	2024/11/03 13:18:05	3.8181	6729.43	8.30	3.8181	6730.71	8.48
117	2024/11/03 13:20:05	3.8514	6729.18	8.53	3.8514	6730.02	8.76
118	2024/11/03 13:22:05	3.8847	6729.01	8.81	3.8847	6729.74	9.05
119	2024/11/03 13:24:05	3.9181	521.18	6.23	3.9181	524.65	6.59
120	2024/11/03 13:26:05	3.9514	104.32	5.81	3.9514	107.24	6.16
121	2024/11/03 13:28:05	3.9847	103.79	6.28	3.9847	106.17	6.52
122	2024/11/03 13:30:05	4.0181	103.08	7.44	4.0181	104.26	7.65
123	2024/11/03 13:30:35	4.0264	96.45	8.78	4.0264	104.17	8.08

Print Filter: Approximately every 12 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80704	2024/11/03 YYYY/MM/DD	09:29:00 HH:mm:ss	1891.50 m
Top	80703	2024/11/03 YYYY/MM/DD	09:29:00 HH:mm:ss	1891.25 m

Test Type Static Gradient

Company Name	**Enhance Energy Inc.**
Well Name	**Fairborne Clive 4-26-39-24**
Unique Well ID	**100/04-26-039-24W4/2**
Well License Number	**0032636**
Formation	**Nisku**
Start Test Date	**2024/04/17**
Final Test Date	**2024/04/18**

Prepared By	**Kennason Tech Services Inc.**
Qualified By	**Cory Strang**
Report Date	**2024/04/18**

Reliance OFS Canada Limited
2500 333 - 7th Ave SW
Calgary AB T2P 2Z1
403-475-1229
relianceofs.com

RELIANCE OILFIELD SERVICES

Pressure Survey Report

Static Gradient

Company Name Enhance Energy Inc.
Contact Kevin Meyer

Representative Rus Guenther

General Information

Well Name	Fairborne Clive 4-26-39-24
Unique Well ID	100/04-26-039-24W4/2
Surface Location	04-26-039-24W4
Well License Number	0032636
Well Type	Vertical

KB Elevation (SL)	886.70 m
CF Elevation (SL)	882.70 m
GL Elevation (SL)	882.70 m
KB-CF Offset	4.00 m
KB-GL Offset	4.00 m

Wellbore Information

Tubing OD	73.0 mm	Casing OD	177.8 mm
Tubing ID	62.0 mm	Casing ID	161.7 mm
Tubing Depth(Log KB)	1845.81000 m	Casing Depth(Log KB)	1922.10000 m
Tubing Depth(TVD KB)	1845.81000 m	Casing Depth(TVD KB)	1922.10000 m
Packer Depth(Log KB)	1839.97000 m	PBTD(Log KB)	1882.00 m
Packer Depth(TVD KB)	1839.97000 m	PBTD(TVD KB)	1882.00 m

Gross Completion Interval (GCI) as tested:

Top(Log KB)	1845.50 m	Top(TVD KB)	1845.50 m	Formation Name	Nisku
Bottom(Log KB)	1847.50 m	Bottom(TVD KB)	1847.50 m	Pool	
MPP(Log KB)	1846.50 m	MPP(TVD KB)	1846.50 m		

Test Information

Test Type	Static Gradient
Well Fluid Type	01 Oil
Test Purpose	Annual Pressure

Date/Time Gauge on Bottom	2024/04/17 09:48:55
Date/Time Gauge Off Bottom	2024/04/17 10:03:55
Time/Date Well Shut-In	2024/03/17 12:00:00
Shut-In Duration	740.7986 h

Surface Pressures:

Tubing Pressure Initial	149.00 kPa(a)	Casing Pressure Initial	229.00 kPa(a)
Tubing Pressure: Final	149.00 kPa(a)	Casing Pressure: Final	229.00 kPa(a)

Test Results

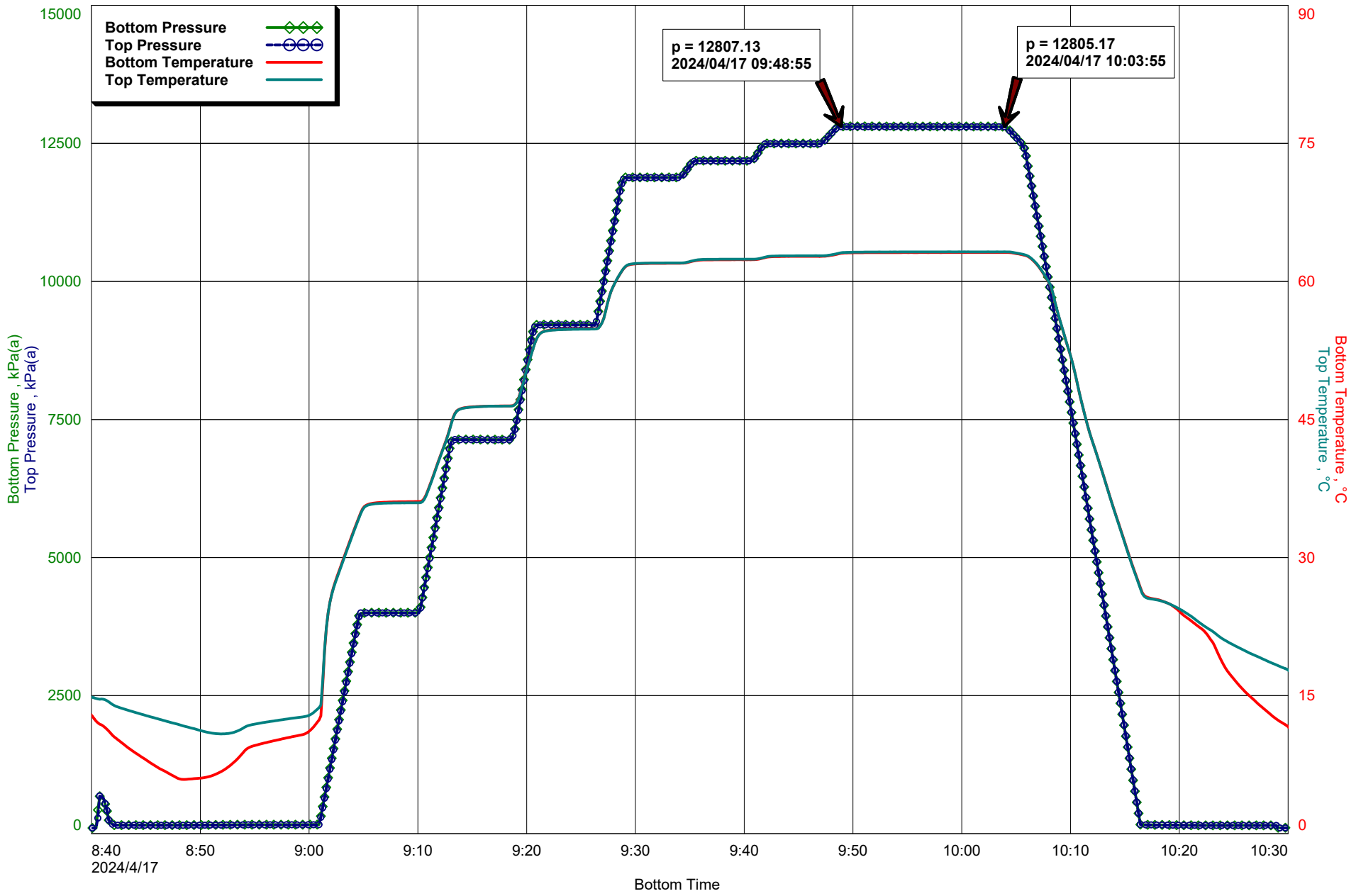
Gauge Serial Number Used in Summary	80703	Run Depth (Log KB)	1846.50 m
Calculated Pressure Corrected to MPP	12805.17 kPa(a)	Run Depth (TVD KB)	1846.50 m
Reservoir Temperature	63.15 °C	Pressure at Stop Depth	12805.17 kPa(a)
Liquid Level(TVD KB)	630.53 m	Temperature at Run Depth	63.2 °C

Test Remarks:

Enhance Energy Inc.
100/04-26-039-24W4/2
Start Test Date: 2024/04/17
Final Test Date: 2024/04/18

Fairborne Clive 4-26-39-24
Formation: Nisku

Static Gradient Plot



Static Gradient 2024/04/17

Company Name Enhance Energy Inc.

Well Name Fairborne Clive 4-26-39-24

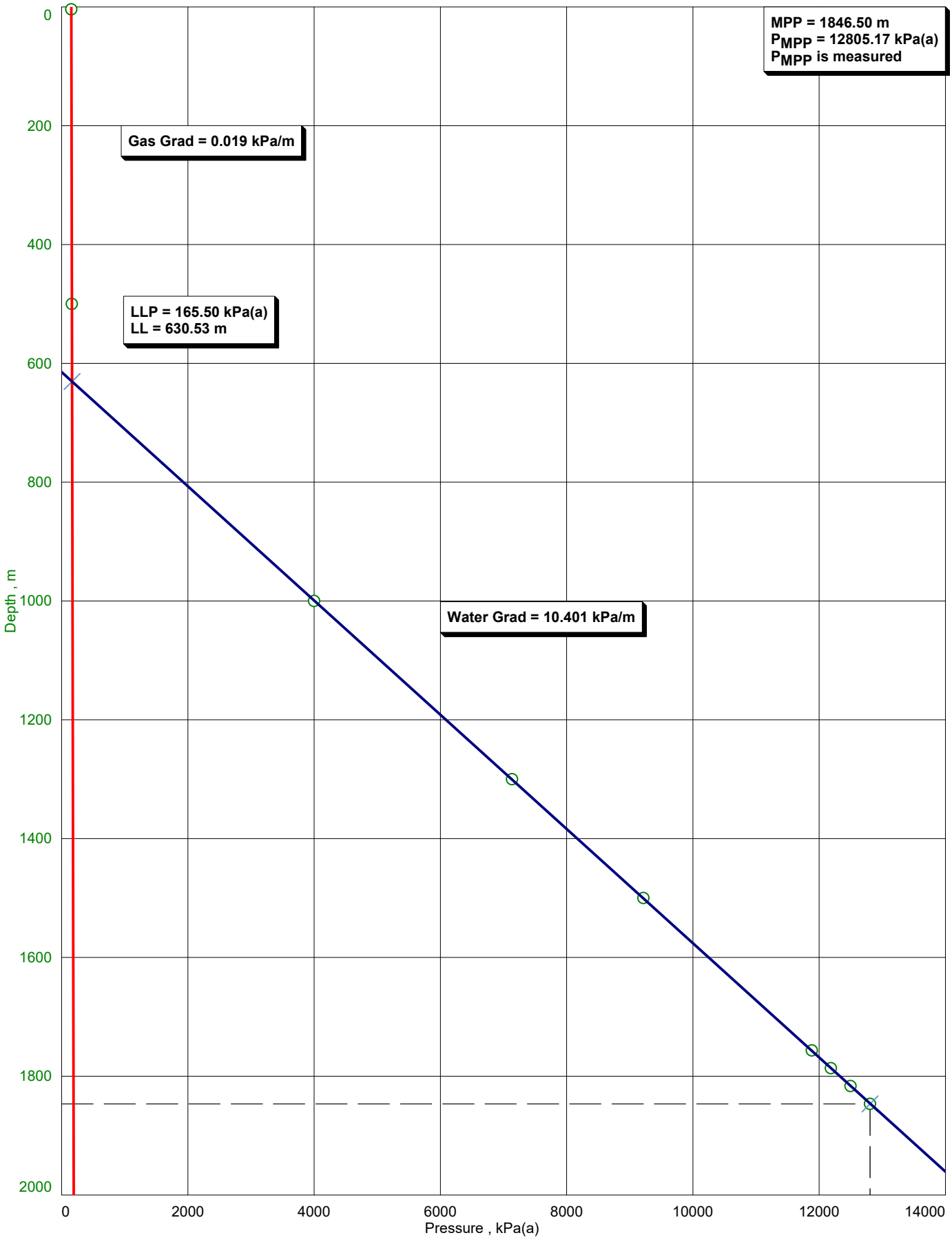
Unique Well ID	100/04-26-039-24W4/2	KB Elevation (SL)	886.70
		GL Elevation (SL)	882.70
Formation	Nisku	CF Elevation (SL)	882.70
Well Fluid Type	01 Oil		
Well License Number	0032636		
Well Type	Vertical		
Start Test Date	2024/04/17	Start Test Time	08:35:00
Final Test Date	2024/04/18	Final Test Time	10:32:00
Date Well Shut-In	2024/03/17	Time Well Shut-In	12:00:00

Top(TVD KB)	1845.50	m	Tubing Pressure: Initial	149.00	kPa(a)
Bottom(TVD KB)	1847.50	m	Casing Pressure: Initial	229.00	kPa(a)
MPP(TVD KB)	1846.50	m	Shut-In Duration	740.7986	h

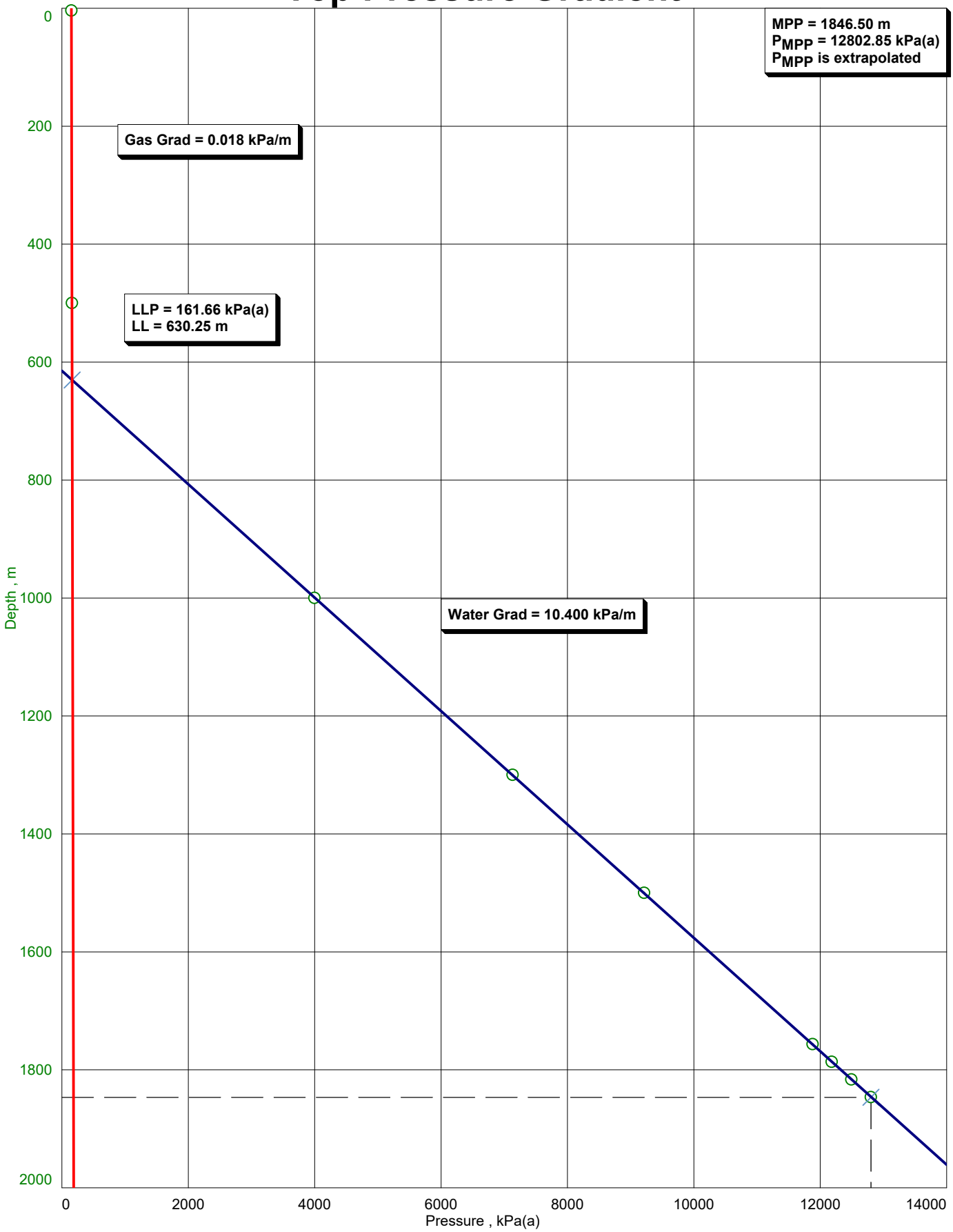
	Bottom		Top	
Gauge Name	Bottom		Top	
Gauge Serial Number	80703		80704	
Gauge Type	Strain		Strain	
Gauge Manufacturer	Spartek		Spartek	
Gauge Model	SS2500		SS2500	
Maximum Recorder Range	41370.00	kPa(a)	41370.00	kPa(a)
Resolution (% of Full Scale)	0.00030		0.00030	
Accuracy (% of Full Scale)	0.03000		0.03000	
Date of Last Calibration	2023/08/19		2023/08/19	
Gauge Start Date	2024/04/17	08:35:00	2024/04/17	08:35:00
Gauge Stop Date	2024/04/17	10:32:25	2024/04/17	10:32:25
Date Gauge On Bottom	2024/04/17	09:48:55	2024/04/17	09:48:55
Date Gauge Off Bottom	2024/04/17	10:03:55	2024/04/17	10:03:55
Run Depth (TVD KB)	1846.50	m	1846.25	m
Pressure at Run Depth	12505.17	kPa(a)	12800.25	kPa(a)
Pressure at MPP	12805.17	kPa(a)	12802.85	kPa(a)
Representative Gradient	10.401	kPa/m	10.400	kPa/m
Temperature at Run Depth	63.2	°C	63.2	°C
Liquid Level(TVD KB)	630.53	m	630.25	m

Bottom					Top					
Depth	Temp.	Pressure	Gradient	Gradient	Time	Depth	Temp.	Pressure	Gradient	Gradient
m	°C	kPa(a)	kPa/m	°C/m	HH:mm:ss	m	°C	kPa(a)	kPa/m	°C/m
4.00	6.02	153.61			08:47:55	3.75	11.83	150.46		
500.00	11.04	163.02	0.019	0.010	08:59:55	499.75	12.82	159.32	0.018	0.002
1000.00	36.08	4000.38	7.675	0.050	09:09:55	999.75	35.95	3995.77	7.673	0.046
1300.00	46.48	7135.57	10.451	0.035	09:18:25	1299.75	46.46	7132.19	10.455	0.035
1500.00	54.86	9216.44	10.404	0.042	09:26:05	1499.75	54.83	9212.04	10.399	0.042
1756.50	61.98	11883.87	10.399	0.028	09:34:05	1756.25	62.02	11879.04	10.398	0.028
1786.50	62.36	12186.22	10.079	0.013	09:40:35	1786.25	62.42	12181.19	10.072	0.014
1816.50	62.73	12497.22	10.367	0.012	09:47:05	1816.25	62.79	12491.98	10.360	0.012
1846.50	63.15	12805.17	10.265	0.014	10:03:55	1846.25	63.21	12800.25	10.275	0.014

Bottom Pressure Gradient



Top Pressure Gradient



Company Name Enhance Energy Inc.
Unique Well ID 100/04-26-039-24W4/2
Start Test Date 2024/04/17
Final Test Date 2024/04/18

Well Name Fairborne Clive 4-26-39-24
Formation Nisku

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
1	2024/04/17 08:35:00	0.0000	104.38	17.94	0.0000	101.94	17.57
2	2024/04/17 08:35:30	0.0083	105.23	17.84	0.0083	104.26	18.19
3	2024/04/17 08:36:05	0.0181	106.08	18.34	0.0181	104.69	19.03
4	2024/04/17 08:37:05	0.0347	104.53	17.88	0.0347	103.75	18.58
5	2024/04/17 08:38:05	0.0514	103.28	16.00	0.0514	101.38	16.78
6	2024/04/17 08:39:05	0.0681	103.09	13.94	0.0681	100.00	15.21
7	2024/04/17 08:40:05	0.0847	102.52	12.74	0.0847	100.22	14.81
8	2024/04/17 08:41:05	0.1014	640.04	11.69	0.1014	647.32	14.61
9	2024/04/17 08:42:05	0.1181	154.91	10.52	0.1181	151.22	13.92
10	2024/04/17 08:43:05	0.1347	154.91	9.58	0.1347	150.76	13.50
11	2024/04/17 08:44:05	0.1514	155.04	8.74	0.1514	150.75	13.15
12	2024/04/17 08:45:05	0.1681	154.72	7.96	0.1681	150.75	12.81
13	2024/04/17 08:46:05	0.1847	154.18	7.19	0.1847	150.48	12.48
14	2024/04/17 08:47:05	0.2014	154.04	6.56	0.2014	150.44	12.15
15	2024/04/17 08:48:05	0.2181	153.66	5.95	0.2181	150.46	11.83
16	2024/04/17 08:49:05	0.2347	155.05	5.94	0.2347	151.20	11.50
17	2024/04/17 08:50:05	0.2514	156.51	6.04	0.2514	152.08	11.18
18	2024/04/17 08:51:05	0.2681	158.20	6.30	0.2681	153.66	10.92
19	2024/04/17 08:52:05	0.2847	159.82	6.85	0.2847	155.07	10.84
20	2024/04/17 08:53:05	0.3014	161.62	7.75	0.3014	157.31	11.01
21	2024/04/17 08:54:05	0.3181	163.12	9.01	0.3181	158.97	11.57
22	2024/04/17 08:55:05	0.3347	162.62	9.60	0.3347	159.17	11.92
23	2024/04/17 08:56:05	0.3514	162.60	9.90	0.3514	158.99	12.12
24	2024/04/17 08:57:05	0.3681	162.50	10.18	0.3681	159.12	12.30
25	2024/04/17 08:58:05	0.3847	162.39	10.43	0.3847	158.98	12.48
26	2024/04/17 08:59:05	0.4014	162.50	10.68	0.4014	158.88	12.63
27	2024/04/17 09:00:05	0.4181	163.56	11.20	0.4181	159.69	12.90
28	2024/04/17 09:01:05	0.4347	315.97	12.79	0.4347	292.93	13.96
29	2024/04/17 09:02:05	0.4514	1364.94	26.07	0.4514	1339.99	25.99
30	2024/04/17 09:03:05	0.4681	2412.69	29.64	0.4681	2386.52	29.51
31	2024/04/17 09:04:05	0.4847	3453.68	32.87	0.4847	3431.35	32.75
32	2024/04/17 09:05:05	0.5014	3997.80	35.55	0.5014	3998.64	35.48
33	2024/04/17 09:06:05	0.5181	4000.62	35.94	0.5181	3996.36	35.84
34	2024/04/17 09:07:05	0.5347	4000.82	36.01	0.5347	3996.37	35.92
35	2024/04/17 09:08:05	0.5514	4000.51	36.05	0.5514	3996.25	35.94
36	2024/04/17 09:09:05	0.5681	4000.50	36.07	0.5681	3995.76	35.95
37	2024/04/17 09:10:05	0.5847	4004.54	36.09	0.5847	3995.77	35.95
38	2024/04/17 09:11:05	0.6014	5000.78	37.83	0.6014	4980.36	37.74
39	2024/04/17 09:12:05	0.6181	6082.51	41.13	0.6181	6061.39	41.06
40	2024/04/17 09:13:05	0.6347	7102.39	44.63	0.6347	7093.20	44.56
41	2024/04/17 09:14:05	0.6514	7137.22	46.23	0.6514	7132.86	46.20
42	2024/04/17 09:15:05	0.6681	7136.63	46.38	0.6681	7132.34	46.35
43	2024/04/17 09:16:05	0.6847	7136.33	46.43	0.6847	7132.62	46.42
44	2024/04/17 09:17:05	0.7014	7136.36	46.45	0.7014	7132.33	46.45
45	2024/04/17 09:18:05	0.7181	7135.81	46.47	0.7181	7132.09	46.46

Print Filter: Approximately every 6 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/17 YYYY/MM/DD	08:35:00 HH:mm:ss	1846.50 m
Top	80704	2024/04/17 YYYY/MM/DD	08:35:00 HH:mm:ss	1846.25 m

Company Name Enhance Energy Inc.
Unique Well ID 100/04-26-039-24W4/2
Start Test Date 2024/04/17
Final Test Date 2024/04/18

Well Name Fairborne Clive 4-26-39-24
Formation Nisku

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
46	2024/04/17 09:19:05	0.7347	7493.00	46.88	0.7347	7475.90	46.83
47	2024/04/17 09:20:05	0.7514	8585.56	50.82	0.7514	8563.85	50.77
48	2024/04/17 09:21:05	0.7681	9217.09	54.14	0.7681	9211.37	54.12
49	2024/04/17 09:22:05	0.7847	9217.70	54.71	0.7847	9212.49	54.67
50	2024/04/17 09:23:05	0.8014	9217.15	54.79	0.8014	9213.10	54.76
51	2024/04/17 09:24:05	0.8181	9217.39	54.83	0.8181	9212.79	54.79
52	2024/04/17 09:25:05	0.8347	9216.93	54.85	0.8347	9212.43	54.81
53	2024/04/17 09:26:05	0.8514	9216.44	54.86	0.8514	9212.04	54.83
54	2024/04/17 09:27:05	0.8681	10008.81	56.00	0.8681	9989.89	55.97
55	2024/04/17 09:28:05	0.8847	11102.43	59.75	0.8847	11082.84	59.76
56	2024/04/17 09:29:05	0.9014	11885.00	61.60	0.9014	11877.68	61.63
57	2024/04/17 09:30:05	0.9181	11884.56	61.91	0.9181	11878.76	61.95
58	2024/04/17 09:31:05	0.9347	11884.75	61.95	0.9347	11879.12	61.99
59	2024/04/17 09:32:05	0.9514	11884.35	61.97	0.9514	11879.03	62.00
60	2024/04/17 09:33:05	0.9681	11884.14	61.97	0.9681	11879.18	62.01
61	2024/04/17 09:34:05	0.9847	11883.87	61.98	0.9847	11879.04	62.02
62	2024/04/17 09:35:05	1.0014	12124.76	62.14	1.0014	12116.52	62.19
63	2024/04/17 09:36:05	1.0181	12187.70	62.34	1.0181	12182.59	62.39
64	2024/04/17 09:37:05	1.0347	12187.19	62.35	1.0347	12182.18	62.41
65	2024/04/17 09:38:05	1.0514	12186.94	62.36	1.0514	12182.18	62.42
66	2024/04/17 09:39:05	1.0681	12186.54	62.36	1.0681	12181.90	62.42
67	2024/04/17 09:40:05	1.0847	12186.57	62.37	1.0847	12181.57	62.42
68	2024/04/17 09:41:05	1.1014	12276.97	62.38	1.1014	12268.93	62.44
69	2024/04/17 09:42:05	1.1181	12499.02	62.64	1.1181	12494.24	62.69
70	2024/04/17 09:43:05	1.1347	12498.12	62.71	1.1347	12493.27	62.76
71	2024/04/17 09:44:05	1.1514	12497.57	62.72	1.1514	12492.49	62.78
72	2024/04/17 09:45:05	1.1681	12497.26	62.73	1.1681	12492.59	62.79
73	2024/04/17 09:46:05	1.1847	12497.37	62.73	1.1847	12492.36	62.79
74	2024/04/17 09:47:05	1.2014	12497.22	62.73	1.2014	12491.98	62.79
75	2024/04/17 09:48:05	1.2181	12701.81	62.86	1.2181	12694.88	62.91
76	2024/04/17 09:49:05	1.2347	12807.59	63.08	1.2347	12803.23	63.14
77	2024/04/17 09:50:05	1.2514	12808.21	63.12	1.2514	12803.24	63.18
78	2024/04/17 09:51:05	1.2681	12808.29	63.13	1.2681	12802.90	63.19
79	2024/04/17 09:52:05	1.2847	12808.06	63.13	1.2847	12802.76	63.20
80	2024/04/17 09:53:05	1.3014	12807.37	63.14	1.3014	12802.10	63.20
81	2024/04/17 09:54:05	1.3181	12807.38	63.14	1.3181	12802.07	63.20
82	2024/04/17 09:55:05	1.3347	12807.13	63.14	1.3347	12802.36	63.21
83	2024/04/17 09:56:05	1.3514	12806.87	63.14	1.3514	12801.86	63.21
84	2024/04/17 09:57:05	1.3681	12806.74	63.14	1.3681	12801.72	63.21
85	2024/04/17 09:58:05	1.3847	12806.36	63.14	1.3847	12801.40	63.21
86	2024/04/17 09:59:05	1.4014	12806.26	63.15	1.4014	12801.11	63.21
87	2024/04/17 10:00:05	1.4181	12805.77	63.14	1.4181	12800.97	63.21
88	2024/04/17 10:01:05	1.4347	12806.05	63.14	1.4347	12801.05	63.21
89	2024/04/17 10:02:05	1.4514	12805.50	63.15	1.4514	12800.57	63.21
90	2024/04/17 10:03:05	1.4681	12805.43	63.15	1.4681	12800.06	63.21

Print Filter: Approximately every 6 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/17 YYYY/MM/DD	08:35:00 HH:mm:ss	1846.50 m
Top	80704	2024/04/17 YYYY/MM/DD	08:35:00 HH:mm:ss	1846.25 m

Company Name Enhance Energy Inc.
Unique Well ID 100/04-26-039-24W4/2
Start Test Date 2024/04/17
Final Test Date 2024/04/18

Well Name Fairborne Clive 4-26-39-24
Formation Nisku

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
91	2024/04/17 10:04:05	1.4847	12798.63	63.14	1.4847	12794.63	63.21
92	2024/04/17 10:05:05	1.5014	12593.61	63.01	1.5014	12589.93	63.08
93	2024/04/17 10:06:05	1.5181	12086.50	62.71	1.5181	12089.26	62.77
94	2024/04/17 10:07:05	1.5347	11000.33	61.58	1.5347	11005.32	61.63
95	2024/04/17 10:08:05	1.5514	9895.81	59.72	1.5514	9899.48	59.76
96	2024/04/17 10:09:05	1.5681	8770.37	55.50	1.5681	8774.35	55.54
97	2024/04/17 10:10:05	1.5847	7627.89	51.55	1.5847	7632.23	51.57
98	2024/04/17 10:11:05	1.6014	6472.88	46.53	1.6014	6476.54	46.54
99	2024/04/17 10:12:05	1.6181	5312.26	42.38	1.6181	5313.26	42.36
100	2024/04/17 10:13:05	1.6347	4137.56	38.70	1.6347	4140.92	38.67
101	2024/04/17 10:14:05	1.6514	2954.22	34.91	1.6514	2957.86	34.86
102	2024/04/17 10:15:05	1.6681	1765.05	31.30	1.6681	1769.50	31.23
103	2024/04/17 10:16:05	1.6847	566.61	27.84	1.6847	569.55	27.75
104	2024/04/17 10:17:05	1.7014	159.51	25.67	1.7014	158.36	25.58
105	2024/04/17 10:18:05	1.7181	157.90	25.41	1.7181	155.68	25.36
106	2024/04/17 10:19:05	1.7347	155.54	24.97	1.7347	153.57	24.96
107	2024/04/17 10:20:05	1.7514	152.81	24.07	1.7514	151.79	24.36
108	2024/04/17 10:21:05	1.7681	151.23	23.13	1.7681	149.64	23.62
109	2024/04/17 10:22:05	1.7847	150.45	22.23	1.7847	148.58	22.73
110	2024/04/17 10:23:05	1.8014	149.60	20.77	1.8014	148.47	21.96
111	2024/04/17 10:24:05	1.8181	149.33	18.31	1.8181	148.39	21.09
112	2024/04/17 10:25:05	1.8347	149.64	16.69	1.8347	148.24	20.43
113	2024/04/17 10:26:05	1.8514	149.90	15.37	1.8514	148.49	19.84
114	2024/04/17 10:27:05	1.8681	149.87	14.29	1.8681	148.54	19.30
115	2024/04/17 10:28:05	1.8847	149.97	13.27	1.8847	148.20	18.76
116	2024/04/17 10:29:05	1.9014	105.94	12.32	1.9014	102.65	18.25
117	2024/04/17 10:30:05	1.9181	105.73	11.52	1.9181	102.45	17.72
118	2024/04/17 10:31:05	1.9347	106.10	10.40	1.9347	103.02	16.26
119	2024/04/17 10:32:05	1.9514	104.00	10.57	1.9514	102.79	15.24
120	2024/04/17 10:32:25	1.9569	103.64	10.76	1.9569	98.58	15.75

Print Filter: Approximately every 6 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/17 YYYY/MM/DD	08:35:00 HH:mm:ss	1846.50 m
Top	80704	2024/04/17 YYYY/MM/DD	08:35:00 HH:mm:ss	1846.25 m

RELIANCE
OILFIELD SERVICES

Test Type Static Gradient

Company Name	**Enhance Energy Inc.**
Well Name	**Fairborne Clive 5-2-40-24W4**
Unique Well ID	**100/05-02-040-24W4/00**
Well License Number	**0154267**
Formation	**Leduc**
Start Test Date	**2024/08/06**
Final Test Date	**2024/08/06**

Prepared By	**Kennason Tech Services Inc.**
Qualified By	**Cory Strang**
Report Date	**2024/08/27**

Reliance OFS Canada Limited
2500 333 - 7th Ave SW
Calgary AB T2P 2Z1
403-475-1229
relianceofs.com

RELIANCE OILFIELD SERVICES

Pressure Survey Report

Static Gradient

Company Name Enhance Energy Inc.
Contact Kevin Meyer

Representative Russ Guenther

General Information

Well Name	Fairborne Clive 5-2-40-24W4
Unique Well ID	100/05-02-040-24W4/00
Surface Location	05-02-040-24W4
Well License Number	0154267
Well Type	Vertical

KB Elevation (SL)	866.60 m
CF Elevation (SL)	862.60 m
GL Elevation (SL)	862.60 m
KB-CF Offset	4.00 m
KB-GL Offset	4.00 m

Wellbore Information

Tubing OD	73.0 mm
Tubing ID	62.0 mm
Tubing Depth(Log KB)	1887.50000 m
Tubing Depth(TVD KB)	1887.50000 m
Packer Depth(Log KB)	1870.00000 m
Packer Depth(TVD KB)	1870.00000 m

Casing OD	177.8 mm
Casing ID	161.7 mm
Casing Depth(Log KB)	1900.00000 m
Casing Depth(TVD KB)	1900.00000 m
PBTD(Log KB)	1900.00 m
PBTD(TVD KB)	1900.00 m

Gross Completion Interval (GCI) as tested:

Top(Log KB)	1875.50 m	Top(TVD KB)	1875.50 m	Formation Name	Leduc
Bottom(Log KB)	1917.00 m	Bottom(TVD KB)	1917.00 m	Pool	
MPP(Log KB)	1896.25 m	MPP(TVD KB)	1896.25 m		

Test Information

Test Type	Static Gradient
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Date/Time Gauge on Bottom	2024/08/06 11:20:05
Date/Time Gauge Off Bottom	2024/08/06 13:20:05
Time/Date Well Shut-In	2024/08/05 08:00:00
Shut-In Duration	26.2458 h

Surface Pressures:

Tubing Pressure Initial	5344.00 kPa(a)
Tubing Pressure: Final	5344.00 kPa(a)

Casing Pressure Initial	93.00 kPa(a)
Casing Pressure: Final	93.00 kPa(a)

Test Results

Gauge Serial Number Used in Summary	80594		Run Depth (Log KB)	1886.50	m
Calculated Pressure Corrected to MPP	13722.28	kPa(a)	Run Depth (TVD KB)	1886.50	m
Reservoir Temperature	62.44	°C	Pressure at Stop Depth		kPa(a)
Liquid Level(TVD KB)	232.65	m	Temperature at Run Depth	62.4	°C

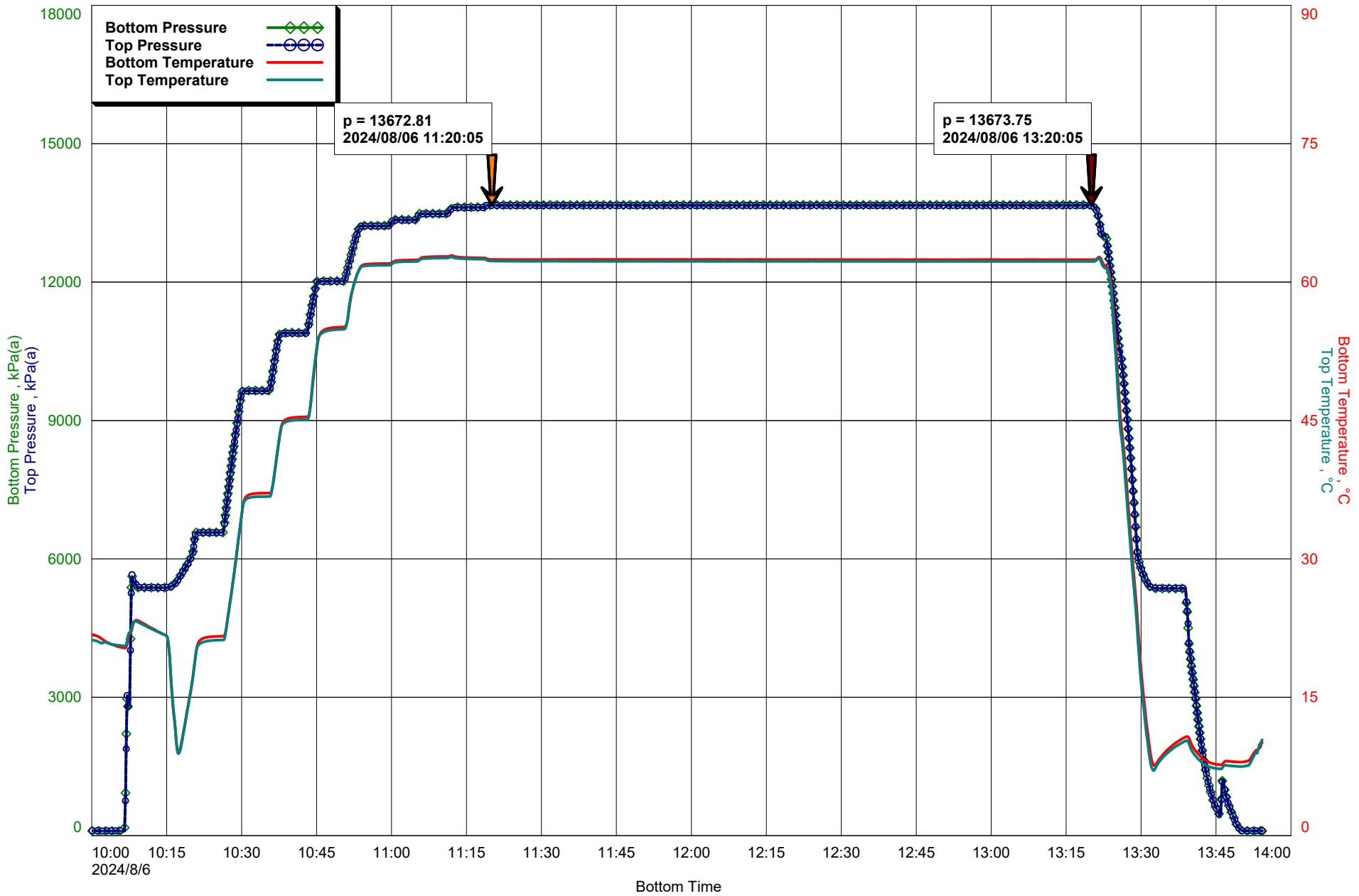
Test Remarks:

Note from the field is that all perfs/sleeves were open for this test.
The Shut In date/time was not provided - defaulted to the morning before the test.

Enhance Energy Inc.
100/05-02-040-24W4/00
Start Test Date: 2024/08/06
Final Test Date: 2024/08/06

Fairborne Clive 5-2-40-24W4
Formation: Leduc

Static Gradient Plot



Static Gradient 2024/08/06

Company Name Enhance Energy Inc.

Well Name Fairborne Clive 5-2-40-24W4

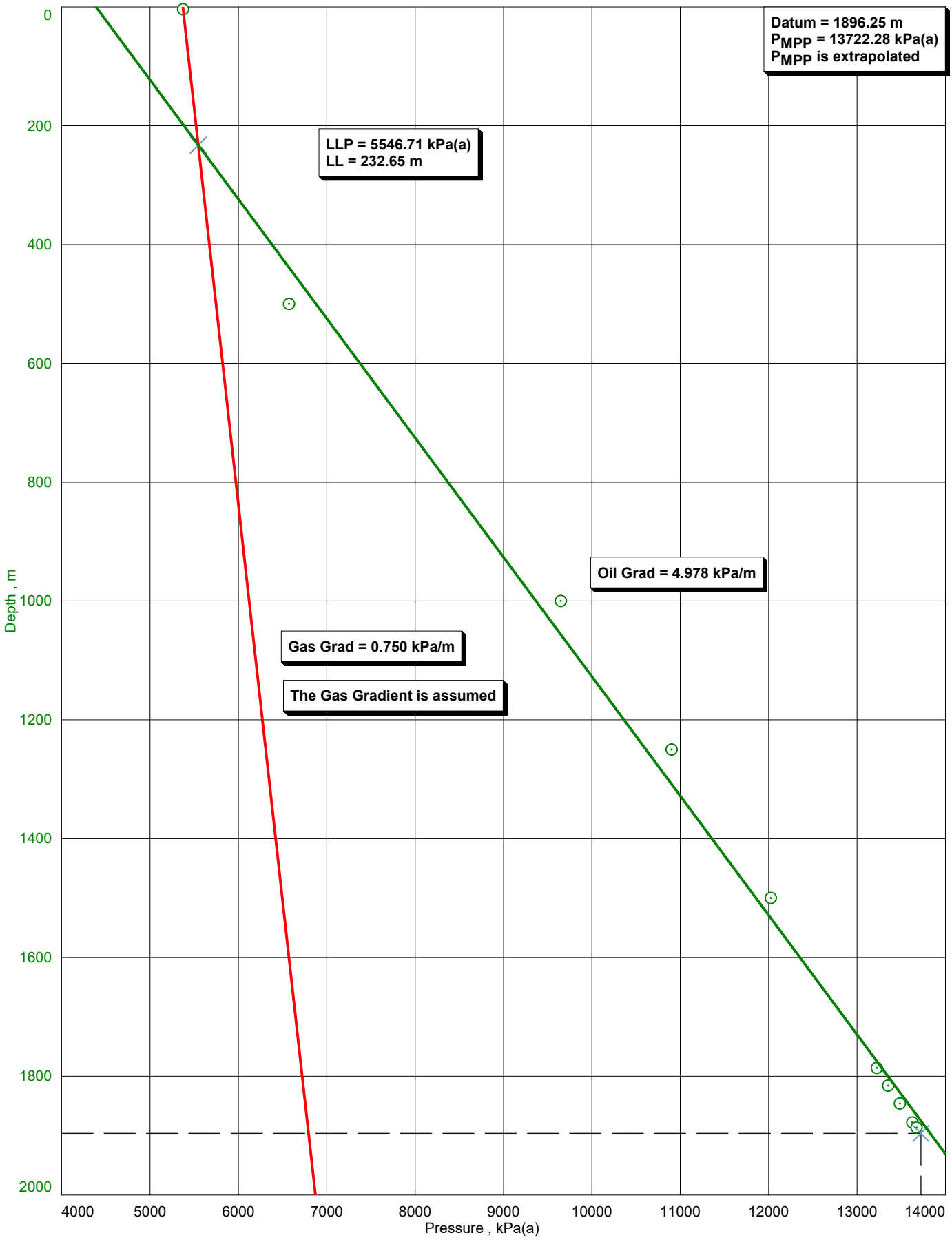
Unique Well ID	100/05-02-040-24W4/00	KB Elevation (SL)	866.60
		GL Elevation (SL)	862.60
Formation	Leduc	CF Elevation (SL)	862.60
Well Fluid Type	01 Oil		
Well License Number	0154267		
Well Type	Vertical		
Start Test Date	2024/08/06	Start Test Time	09:59:00
Final Test Date	2024/08/06	Final Test Time	13:54:15
Date Well Shut-In	2024/08/05	Time Well Shut-In	08:00:00

Top(TVD KB)	1875.50	m	Tubing Pressure: Initial	5344.00	kPa(a)
Bottom(TVD KB)	1917.00	m	Casing Pressure: Initial	93.00	kPa(a)
MPP(TVD KB)	1896.25	m	Shut-In Duration	26.2458	h

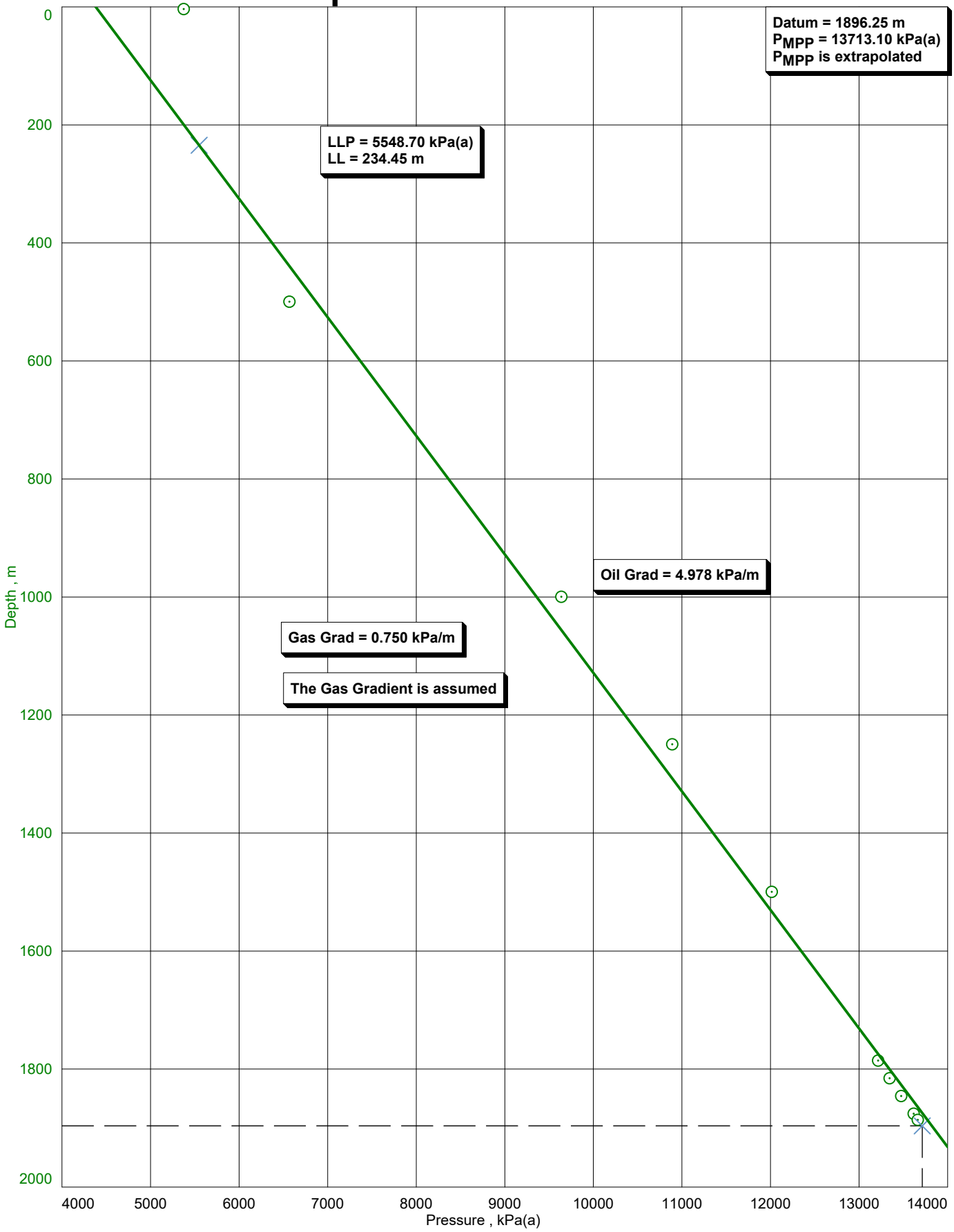
	Bottom		Top	
Gauge Name	Bottom		Top	
Gauge Serial Number	80594		80590	
Gauge Type	Strain		Strain	
Gauge Manufacturer	Spartek		Spartek	
Gauge Model	SS2500		SS2500	
Maximum Recorder Range	41370.00 kPa(a)		41370.00 kPa(a)	
Resolution (% of Full Scale)	0.00030		0.00030	
Accuracy (% of Full Scale)	0.03000		0.03000	
Date of Last Calibration	2023/08/18		2023/08/18	
Gauge Start Date	2024/08/06	09:59:00	2024/08/06	09:59:00
Gauge Stop Date	2024/08/06	13:54:15	2024/08/06	13:54:15
Date Gauge On Bottom	2024/08/06	11:20:05	2024/08/06	11:20:05
Date Gauge Off Bottom	2024/08/06	13:20:05	2024/08/06	13:20:05
Run Depth (TVD KB)	1886.50 m		1886.25 m	
Pressure at Run Depth	13673.75 kPa(a)		13663.32 kPa(a)	
Pressure at MPP	13722.28 kPa(a)		13713.10 kPa(a)	
Representative Gradient	4.978 kPa/m		4.978 kPa/m	
Temperature at Run Depth	62.4 °C		62.3 °C	
Liquid Level(TVD KB)	232.65 m		234.45 m	

Bottom						Top				
Depth	Temp.	Pressure	Gradient	Gradient	Time	Depth	Temp.	Pressure	Gradient	Gradient
m	°C	kPa(a)	kPa/m	°C/m	HH:mm:ss	m	°C	kPa(a)	kPa/m	°C/m
4.00	21.73	5375.22			10:14:45	3.75	21.71	5375.67		
500.00	21.61	6574.34	2.418	-0.000	10:26:15	499.75	21.21	6569.06	2.406	-0.001
1000.00	37.13	9649.19	6.150	0.031	10:35:25	999.75	36.76	9638.71	6.139	0.031
1250.00	45.39	10902.32	5.013	0.033	10:42:55	1249.75	45.09	10891.07	5.009	0.033
1500.00	55.14	12024.11	4.487	0.039	10:50:25	1499.75	54.89	12014.34	4.493	0.039
1786.00	62.02	13223.77	4.195	0.024	10:59:25	1785.75	61.83	13215.49	4.200	0.024
1816.00	62.40	13353.12	4.312	0.013	11:04:55	1815.75	62.24	13344.88	4.313	0.014
1846.00	62.78	13484.83	4.390	0.013	11:10:55	1845.75	62.62	13476.52	4.388	0.013
1878.00	62.61	13625.88	4.408	-0.005	11:18:15	1875.75	62.48	13617.55	4.701	-0.005
1886.50	62.44	13673.75	5.631	-0.021	13:20:05	1886.25	62.25	13663.32	4.359	-0.022

Bottom Pressure Gradient



Top Pressure Gradient



Company Name Enhance Energy Inc.
Unique Well ID 100/05-02-040-24W4/00
Start Test Date 2024/08/06
Final Test Date 2024/08/06

Well Name Fairborne Clive 5-2-40-24W4
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
1	2024/08/06 09:59:00	0.0000	104.67	21.61	0.0000	102.93	21.09
2	2024/08/06 10:00:05	0.0181	104.52	21.76	0.0181	105.24	21.19
3	2024/08/06 10:02:05	0.0514	100.23	21.30	0.0514	101.80	20.88
4	2024/08/06 10:04:05	0.0847	97.89	20.72	0.0847	102.49	20.72
5	2024/08/06 10:06:05	0.1181	97.10	20.39	0.1181	102.72	20.59
6	2024/08/06 10:08:05	0.1514	5621.49	22.47	0.1514	5656.33	22.69
7	2024/08/06 10:10:05	0.1847	5380.51	23.08	0.1847	5380.16	22.92
8	2024/08/06 10:12:05	0.2181	5377.33	22.46	0.2181	5377.41	22.38
9	2024/08/06 10:14:05	0.2514	5375.59	21.90	0.2514	5376.02	21.88
10	2024/08/06 10:16:05	0.2847	5412.37	15.21	0.2847	5407.00	15.27
11	2024/08/06 10:18:05	0.3181	5696.62	10.44	0.3181	5687.32	10.29
12	2024/08/06 10:20:05	0.3514	6083.61	16.59	0.3514	6076.09	16.55
13	2024/08/06 10:22:05	0.3847	6574.55	21.33	0.3847	6569.96	20.94
14	2024/08/06 10:24:05	0.4181	6574.71	21.57	0.4181	6569.09	21.15
15	2024/08/06 10:26:05	0.4514	6574.61	21.61	0.4514	6569.15	21.20
16	2024/08/06 10:28:05	0.4847	8163.00	26.78	0.4847	8132.49	26.84
17	2024/08/06 10:30:05	0.5181	9629.84	35.04	0.5181	9618.60	35.20
18	2024/08/06 10:32:05	0.5514	9649.59	37.04	0.5514	9639.75	36.68
19	2024/08/06 10:34:05	0.5847	9649.48	37.12	0.5847	9639.05	36.75
20	2024/08/06 10:36:05	0.6181	9953.23	37.59	0.6181	9923.53	37.48
21	2024/08/06 10:38:05	0.6514	10902.72	44.59	0.6514	10893.84	44.50
22	2024/08/06 10:40:05	0.6847	10902.91	45.31	0.6847	10891.64	45.00
23	2024/08/06 10:42:05	0.7181	10902.49	45.38	0.7181	10891.55	45.08
24	2024/08/06 10:44:05	0.7514	11499.85	48.10	0.7514	11475.40	48.41
25	2024/08/06 10:46:05	0.7847	12023.46	54.65	0.7847	12014.92	54.47
26	2024/08/06 10:48:05	0.8181	12023.86	55.05	0.8181	12014.79	54.81
27	2024/08/06 10:50:05	0.8514	12024.08	55.13	0.8514	12014.57	54.88
28	2024/08/06 10:52:05	0.8847	12662.19	58.89	0.8847	12643.94	58.98
29	2024/08/06 10:54:05	0.9181	13223.62	61.81	0.9181	13216.29	61.68
30	2024/08/06 10:56:05	0.9514	13223.99	61.99	0.9514	13216.06	61.81
31	2024/08/06 10:58:05	0.9847	13224.05	62.01	0.9847	13215.80	61.83
32	2024/08/06 11:00:05	1.0181	13330.71	62.10	1.0181	13318.28	61.96
33	2024/08/06 11:02:05	1.0514	13353.60	62.37	1.0514	13345.26	62.21
34	2024/08/06 11:04:05	1.0847	13353.58	62.40	1.0847	13345.42	62.24
35	2024/08/06 11:06:05	1.1181	13485.02	62.66	1.1181	13477.06	62.52
36	2024/08/06 11:08:05	1.1514	13484.46	62.75	1.1514	13476.48	62.59
37	2024/08/06 11:10:05	1.1847	13484.29	62.77	1.1847	13476.54	62.61
38	2024/08/06 11:12:05	1.2181	13615.18	62.89	1.2181	13603.35	62.75
39	2024/08/06 11:14:05	1.2514	13625.54	62.69	1.2514	13617.10	62.55
40	2024/08/06 11:16:05	1.2847	13625.28	62.64	1.2847	13616.82	62.50
41	2024/08/06 11:18:05	1.3181	13625.55	62.62	1.3181	13617.62	62.49
42	2024/08/06 11:20:05	1.3514	13672.81	62.46	1.3514	13661.01	62.30
43	2024/08/06 11:22:05	1.3847	13673.06	62.45	1.3847	13661.79	62.28
44	2024/08/06 11:24:05	1.4181	13673.07	62.45	1.4181	13662.14	62.27
45	2024/08/06 11:26:05	1.4514	13672.95	62.44	1.4514	13662.17	62.26

Print Filter: Approximately every 12 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80594	2024/08/06 YYYY/MM/DD	09:59:00 HH:mm:ss	1886.50 m
Top	80590	2024/08/06 YYYY/MM/DD	09:59:00 HH:mm:ss	1886.25 m

Company Name Enhance Energy Inc.
Unique Well ID 100/05-02-040-24W4/00
Start Test Date 2024/08/06
Final Test Date 2024/08/06

Well Name Fairborne Clive 5-2-40-24W4
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
46	2024/08/06 11:28:05	1.4847	13673.20	62.45	1.4847	13662.16	62.26
47	2024/08/06 11:30:05	1.5181	13673.27	62.45	1.5181	13662.46	62.26
48	2024/08/06 11:32:05	1.5514	13672.87	62.45	1.5514	13662.70	62.26
49	2024/08/06 11:34:05	1.5847	13673.26	62.46	1.5847	13662.65	62.26
50	2024/08/06 11:36:05	1.6181	13673.14	62.45	1.6181	13662.32	62.26
51	2024/08/06 11:38:05	1.6514	13672.97	62.46	1.6514	13662.73	62.26
52	2024/08/06 11:40:05	1.6847	13672.74	62.46	1.6847	13662.57	62.26
53	2024/08/06 11:42:05	1.7181	13673.22	62.46	1.7181	13662.40	62.25
54	2024/08/06 11:44:05	1.7514	13673.02	62.45	1.7514	13663.05	62.25
55	2024/08/06 11:46:05	1.7847	13672.81	62.45	1.7847	13662.59	62.25
56	2024/08/06 11:48:05	1.8181	13673.32	62.46	1.8181	13662.34	62.25
57	2024/08/06 11:50:05	1.8514	13673.03	62.45	1.8514	13662.77	62.26
58	2024/08/06 11:52:05	1.8847	13673.39	62.46	1.8847	13662.76	62.25
59	2024/08/06 11:54:05	1.9181	13673.18	62.45	1.9181	13662.65	62.26
60	2024/08/06 11:56:05	1.9514	13673.17	62.46	1.9514	13662.75	62.25
61	2024/08/06 11:58:05	1.9847	13673.27	62.45	1.9847	13662.70	62.25
62	2024/08/06 12:00:05	2.0181	13673.20	62.45	2.0181	13662.72	62.25
63	2024/08/06 12:02:05	2.0514	13673.46	62.46	2.0514	13662.92	62.25
64	2024/08/06 12:04:05	2.0847	13672.98	62.45	2.0847	13662.54	62.25
65	2024/08/06 12:06:05	2.1181	13672.95	62.45	2.1181	13662.71	62.25
66	2024/08/06 12:08:05	2.1514	13673.44	62.45	2.1514	13663.30	62.26
67	2024/08/06 12:10:05	2.1847	13673.29	62.45	2.1847	13662.86	62.25
68	2024/08/06 12:12:05	2.2181	13673.06	62.45	2.2181	13663.06	62.25
69	2024/08/06 12:14:05	2.2514	13673.24	62.45	2.2514	13662.85	62.25
70	2024/08/06 12:16:05	2.2847	13673.40	62.44	2.2847	13662.99	62.25
71	2024/08/06 12:18:05	2.3181	13673.56	62.44	2.3181	13662.75	62.25
72	2024/08/06 12:20:05	2.3514	13673.53	62.45	2.3514	13662.88	62.25
73	2024/08/06 12:22:05	2.3847	13673.35	62.44	2.3847	13663.09	62.25
74	2024/08/06 12:24:05	2.4181	13673.32	62.45	2.4181	13663.24	62.25
75	2024/08/06 12:26:05	2.4514	13673.17	62.44	2.4514	13663.03	62.25
76	2024/08/06 12:28:05	2.4847	13673.63	62.44	2.4847	13663.07	62.25
77	2024/08/06 12:30:05	2.5181	13673.62	62.44	2.5181	13662.76	62.25
78	2024/08/06 12:32:05	2.5514	13673.45	62.44	2.5514	13663.02	62.25
79	2024/08/06 12:34:05	2.5847	13673.42	62.44	2.5847	13662.80	62.25
80	2024/08/06 12:36:05	2.6181	13673.25	62.44	2.6181	13662.80	62.25
81	2024/08/06 12:38:05	2.6514	13673.50	62.44	2.6514	13662.76	62.25
82	2024/08/06 12:40:05	2.6847	13673.29	62.44	2.6847	13662.90	62.25
83	2024/08/06 12:42:05	2.7181	13673.02	62.44	2.7181	13663.07	62.25
84	2024/08/06 12:44:05	2.7514	13673.64	62.44	2.7514	13662.90	62.25
85	2024/08/06 12:46:05	2.7847	13673.48	62.44	2.7847	13662.97	62.25
86	2024/08/06 12:48:05	2.8181	13673.28	62.44	2.8181	13662.98	62.25
87	2024/08/06 12:50:05	2.8514	13673.41	62.43	2.8514	13662.94	62.25
88	2024/08/06 12:52:05	2.8847	13673.70	62.44	2.8847	13662.97	62.25
89	2024/08/06 12:54:05	2.9181	13673.16	62.43	2.9181	13662.86	62.25
90	2024/08/06 12:56:05	2.9514	13673.81	62.45	2.9514	13663.17	62.25

Print Filter: Approximately every 12 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80594	2024/08/06 YYYY/MM/DD	09:59:00 HH:mm:ss	1886.50 m
Top	80590	2024/08/06 YYYY/MM/DD	09:59:00 HH:mm:ss	1886.25 m

Company Name Enhance Energy Inc.
Unique Well ID 100/05-02-040-24W4/00
Start Test Date 2024/08/06
Final Test Date 2024/08/06

Well Name Fairborne Clive 5-2-40-24W4
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
91	2024/08/06 12:58:05	2.9847	13673.48	62.44	2.9847	13663.02	62.25
92	2024/08/06 13:00:05	3.0181	13673.74	62.44	3.0181	13663.10	62.25
93	2024/08/06 13:02:05	3.0514	13673.57	62.43	3.0514	13663.19	62.25
94	2024/08/06 13:04:05	3.0847	13673.57	62.43	3.0847	13662.94	62.25
95	2024/08/06 13:06:05	3.1181	13673.73	62.44	3.1181	13662.77	62.26
96	2024/08/06 13:08:05	3.1514	13673.55	62.44	3.1514	13663.12	62.25
97	2024/08/06 13:10:05	3.1847	13673.70	62.44	3.1847	13662.97	62.25
98	2024/08/06 13:12:05	3.2181	13673.66	62.44	3.2181	13663.04	62.25
99	2024/08/06 13:14:05	3.2514	13673.58	62.43	3.2514	13662.76	62.25
100	2024/08/06 13:16:05	3.2847	13673.30	62.43	3.2847	13662.93	62.25
101	2024/08/06 13:18:05	3.3181	13673.41	62.43	3.3181	13663.24	62.25
102	2024/08/06 13:20:05	3.3514	13673.75	62.44	3.3514	13663.32	62.25
103	2024/08/06 13:22:05	3.3847	13045.27	62.40	3.3847	13047.00	62.10
104	2024/08/06 13:24:05	3.4181	12059.23	59.42	3.4181	12064.44	58.60
105	2024/08/06 13:26:05	3.4514	10331.66	44.19	3.4514	10332.63	43.17
106	2024/08/06 13:28:05	3.4847	7949.68	31.31	3.4847	7961.82	30.00
107	2024/08/06 13:30:05	3.5181	5758.96	17.46	3.5181	5762.56	16.10
108	2024/08/06 13:32:05	3.5514	5382.94	8.28	3.5514	5381.86	7.45
109	2024/08/06 13:34:05	3.5847	5355.63	8.58	3.5847	5362.76	8.31
110	2024/08/06 13:36:05	3.6181	5357.03	9.68	3.6181	5363.15	9.33
111	2024/08/06 13:38:05	3.6514	5356.30	10.44	3.6514	5362.19	10.03
112	2024/08/06 13:40:05	3.6847	3673.28	9.91	3.6847	3692.96	9.29
113	2024/08/06 13:42:05	3.7181	1966.24	8.49	3.7181	1974.53	7.98
114	2024/08/06 13:44:05	3.7514	885.65	7.86	3.7514	888.96	7.39
115	2024/08/06 13:46:05	3.7847	793.71	7.67	3.7847	774.94	7.23
116	2024/08/06 13:48:05	3.8181	511.09	8.03	3.8181	512.56	7.55
117	2024/08/06 13:50:05	3.8514	119.57	7.98	3.8514	115.20	7.50
118	2024/08/06 13:52:05	3.8847	101.15	8.50	3.8847	103.37	8.10
119	2024/08/06 13:54:05	3.9181	100.28	10.07	3.9181	103.22	10.20
120	2024/08/06 13:54:15	3.9208	100.32	10.10	3.9208	102.95	10.38

Print Filter: Approximately every 12 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80594	2024/08/06 YYYY/MM/DD	09:59:00 HH:mm:ss	1886.50 m
Top	80590	2024/08/06 YYYY/MM/DD	09:59:00 HH:mm:ss	1886.25 m

RELIANCE
OILFIELD SERVICES

Test Type Static Gradient

Company Name	**Enhance Energy Inc.**
Well Name	**Fairborne Clive 5-2-40-24W4**
Unique Well ID	**100/05-02-040-24W4/2**
Well License Number	**0154267**
Formation	**Leduc**
Start Test Date	**2024/04/19**
Final Test Date	**2024/04/19**

Prepared By	**Kennason Tech Services Inc.**
Qualified By	**Cory Strang**
Report Date	**2024/04/22**

Reliance OFS Canada Limited
2500 333 - 7th Ave SW
Calgary AB T2P 2Z1
403-475-1229
relianceofs.com

RELIANCE OILFIELD SERVICES

Pressure Survey Report

Static Gradient

Company Name Enhance Energy Inc.
Contact Kevin Meyer

Representative Russ Guenther

General Information

Well Name	Fairborne Clive 5-2-40-24W4
Unique Well ID	100/05-02-040-24W4/2
Surface Location	05-02-040-24W4
Well License Number	0154267
Well Type	Vertical

KB Elevation (SL)	866.60 m
CF Elevation (SL)	862.60 m
GL Elevation (SL)	862.60 m
KB-CF Offset	4.00 m
KB-GL Offset	4.00 m

Wellbore Information

Tubing OD	73.0 mm
Tubing ID	62.0 mm
Tubing Depth(Log KB)	1864.30000 m
Tubing Depth(TVD KB)	1864.30000 m
Packer Depth(Log KB)	1858.51000 m
Packer Depth(TVD KB)	1858.51000 m

Casing OD	177.8 mm
Casing ID	161.7 mm
Casing Depth(Log KB)	1899.50000 m
Casing Depth(TVD KB)	1899.50000 m
PBTD(Log KB)	1881.20 m
PBTD(TVD KB)	1881.20 m

Gross Completion Interval (GCI) as tested:

Top(Log KB)	1875.50 m	Top(TVD KB)	1875.50 m	Formation Name	Leduc
Bottom(Log KB)	1876.50 m	Bottom(TVD KB)	1876.50 m	Pool	
MPP(Log KB)	1876.00 m	MPP(TVD KB)	1876.00 m		

Test Information

Test Type	Static Gradient
Well Fluid Type	01 Oil
Test Purpose	Annual Pressure

Date/Time Gauge on Bottom	2024/04/19 12:24:25
Date/Time Gauge Off Bottom	2024/04/19 14:29:45
Time/Date Well Shut-In	2024/04/17 11:30:00
Shut-In Duration	47.9069 h

Surface Pressures:

Tubing Pressure Initial	93.00 kPa(a)	Casing Pressure Initial	93.00 kPa(a)
Tubing Pressure: Final	93.00 kPa(a)	Casing Pressure: Final	93.00 kPa(a)

Test Results

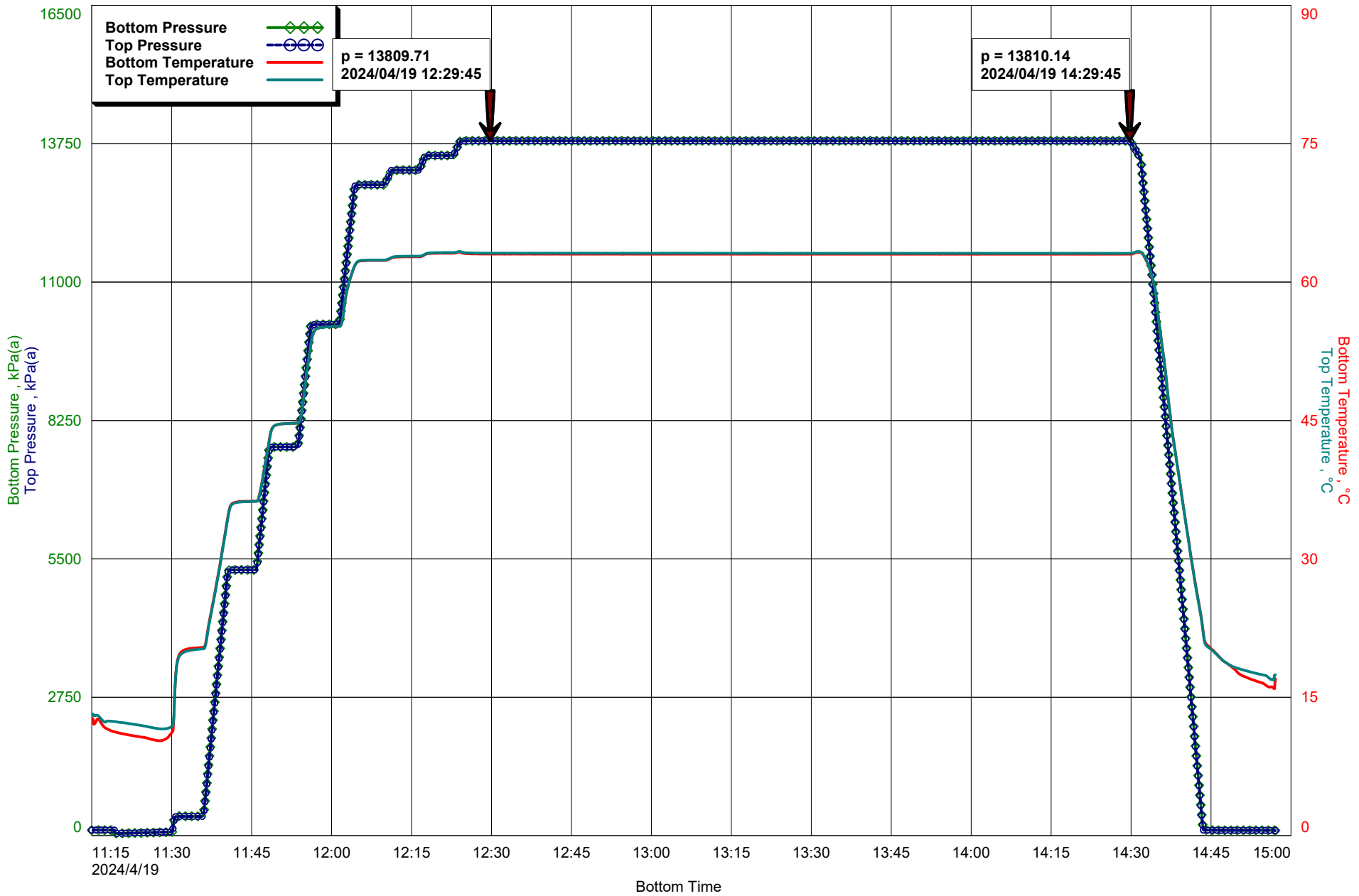
Gauge Serial Number Used in Summary	80703	Run Depth (Log KB)	1876.00 m
Calculated Pressure Corrected to MPP	13810.14 kPa(a)	Run Depth (TVD KB)	1876.00 m
Reservoir Temperature	63.04 °C	Pressure at Stop Depth	13810.14 kPa(a)
Liquid Level(TVD KB)	495.92 m	Temperature at Run Depth	63.0 °C

Test Remarks:

Enhance Energy Inc.
100/05-02-040-24W4/2
Start Test Date: 2024/04/19
Final Test Date: 2024/04/19

Fairborne Clive 5-2-40-24W4
Formation: Leduc

Static Gradient Plot



Static Gradient 2024/04/19

Company Name Enhance Energy Inc.

Well Name Fairborne Clive 5-2-40-24W4

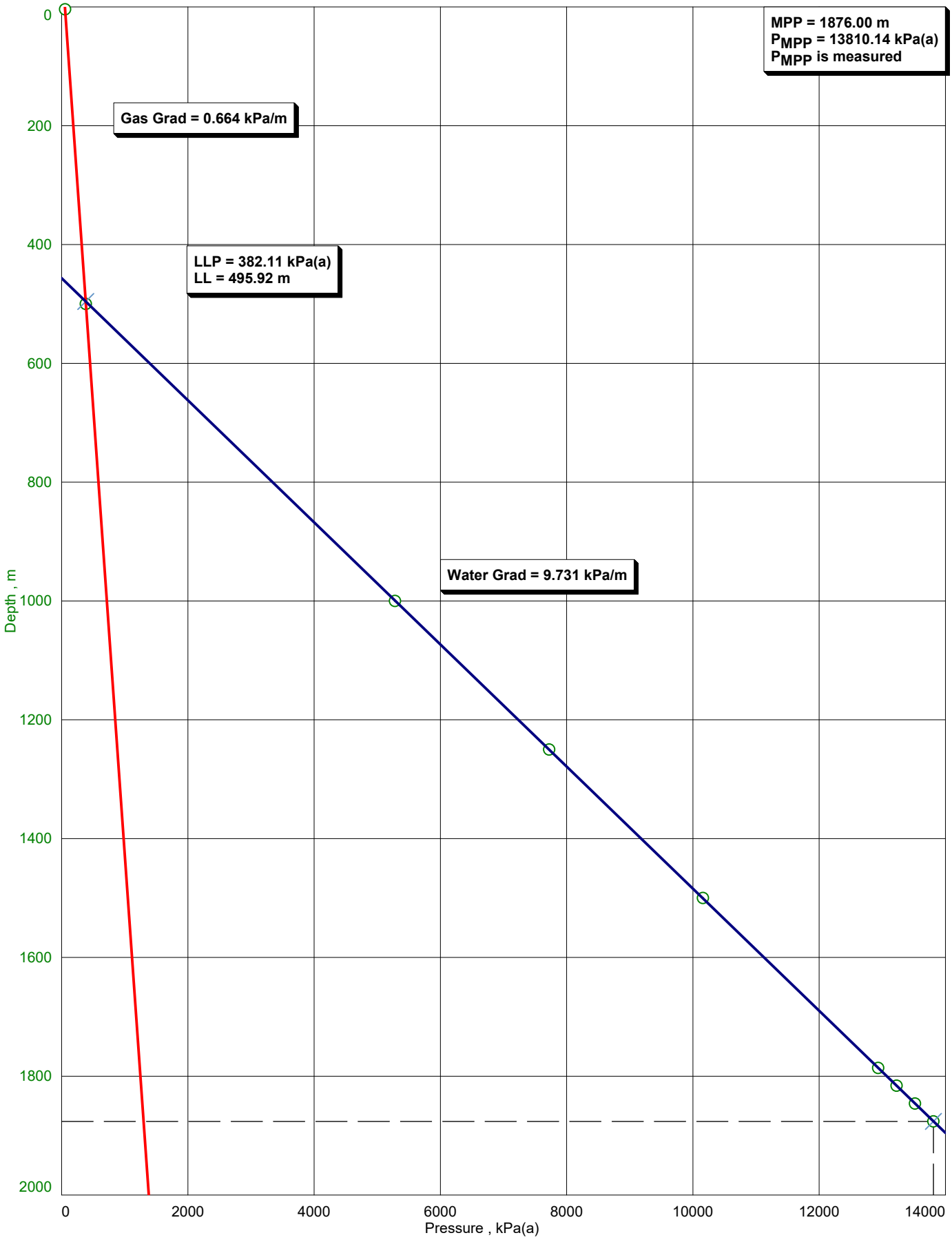
Unique Well ID	100/05-02-040-24W4/2	KB Elevation (SL)	866.60
		GL Elevation (SL)	862.60
Formation	Leduc	CF Elevation (SL)	862.60
Well Fluid Type	01 Oil		
Well License Number	0154267		
Well Type	Vertical		
Start Test Date	2024/04/19	Start Test Time	11:15:00
Final Test Date	2024/04/19	Final Test Time	14:57:05
Date Well Shut-In	2024/04/17	Time Well Shut-In	11:30:00

Top(TVD KB)	1875.50 m	Tubing Pressure: Initial	93.00 kPa(a)
Bottom(TVD KB)	1876.50 m	Casing Pressure: Initial	93.00 kPa(a)
MPP(TVD KB)	1876.00 m	Shut-In Duration	47.9069 h

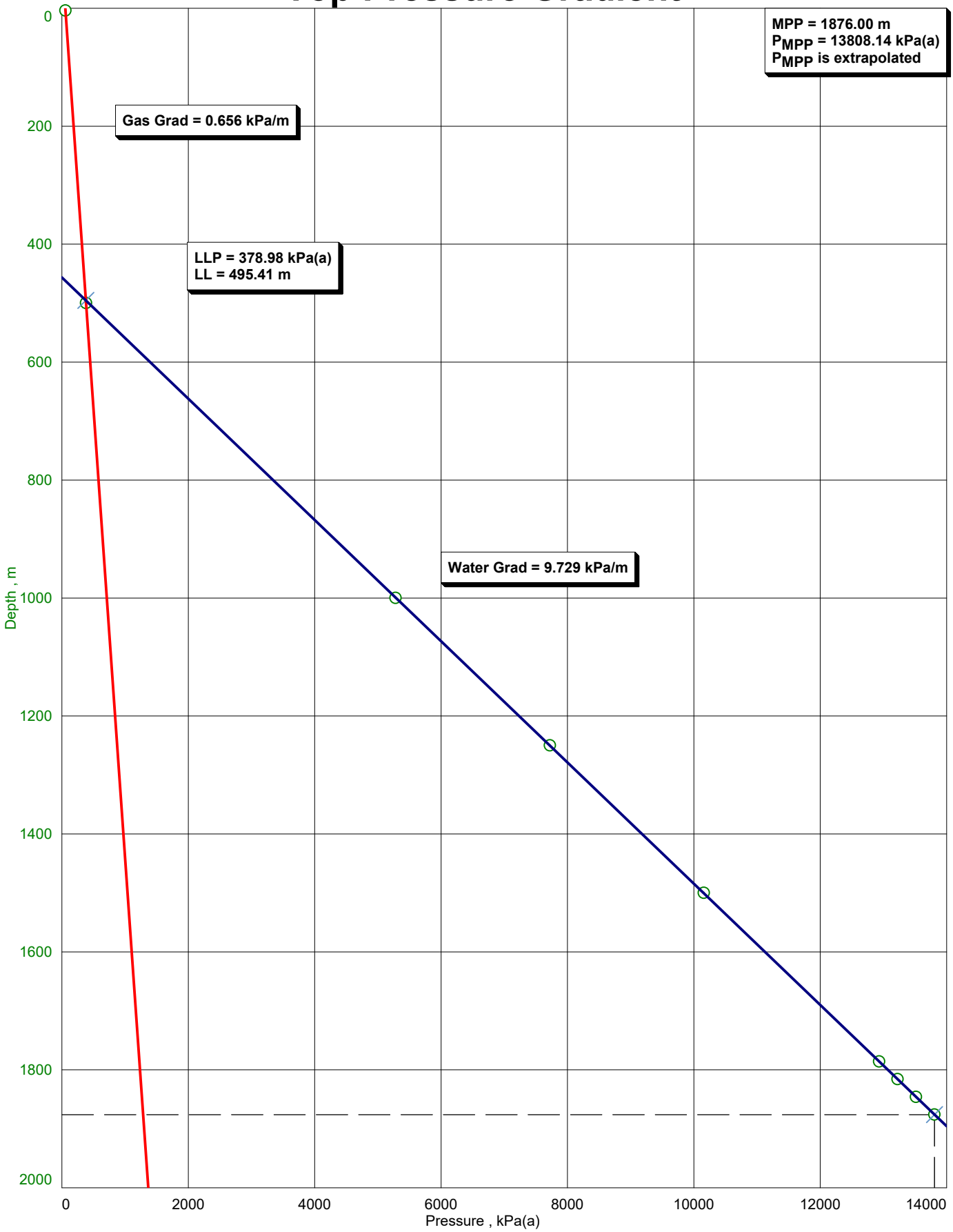
	Bottom	Top
Gauge Name	Bottom	Top
Gauge Serial Number	80703	80704
Gauge Type	Strain	Strain
Gauge Manufacturer	Spartek	Spartek
Gauge Model	SS2500	SS2500
Maximum Recorder Range	41370.00 kPa(a)	41370.00 kPa(a)
Resolution (% of Full Scale)	0.00030	0.00030
Accuracy (% of Full Scale)	0.03000	0.03000
Date of Last Calibration	2023/08/19	2023/08/19
Gauge Start Date	2024/04/19 11:15:00	2024/04/19 11:15:00
Gauge Stop Date	2024/04/19 14:57:05	2024/04/19 14:57:05
Date Gauge On Bottom	2024/04/19 12:24:25	2024/04/19 12:24:25
Date Gauge Off Bottom	2024/04/19 14:29:45	2024/04/19 14:29:45
Run Depth (TVD KB)	1876.00 m	1875.75 m
Pressure at Run Depth	13810.14 kPa(a)	13805.71 kPa(a)
Pressure at MPP	13810.14 kPa(a)	13808.14 kPa(a)
Representative Gradient	9.731 kPa/m	9.729 kPa/m
Temperature at Run Depth	63.0 °C	63.1 °C
Liquid Level(TVD KB)	495.92 m	495.41 m

Bottom					Top					
Depth	Temp.	Pressure	Gradient	Gradient	Time	Depth	Temp.	Pressure	Gradient	Gradient
m	°C	kPa(a)	kPa/m	°C/m	HH:mm:ss	m	°C	kPa(a)	kPa/m	°C/m
4.00	10.68	55.24			11:24:25	3.75	11.92	56.36		
500.00	20.39	384.82	0.664	0.020	11:35:45	499.75	20.24	381.82	0.656	0.017
1000.00	36.26	5281.77	9.794	0.032	11:45:45	999.75	36.23	5279.34	9.795	0.032
1250.00	44.71	7724.01	9.769	0.034	11:53:25	1249.75	44.71	7722.06	9.771	0.034
1500.00	55.20	10159.32	9.741	0.042	12:01:15	1499.75	55.20	10157.90	9.743	0.042
1786.00	62.35	12935.22	9.706	0.025	12:09:45	1785.75	62.39	12931.99	9.700	0.025
1816.00	62.75	13226.45	9.708	0.014	12:16:15	1815.75	62.81	13222.93	9.698	0.014
1846.00	63.14	13517.73	9.709	0.013	12:22:45	1845.75	63.21	13514.27	9.711	0.013
1876.00	63.04	13810.14	9.747	-0.003	14:29:45	1875.75	63.12	13805.71	9.715	-0.003

Bottom Pressure Gradient



Top Pressure Gradient



Company Name Enhance Energy Inc.
Unique Well ID 100/05-02-040-24W4/2
Start Test Date 2024/04/19
Final Test Date 2024/04/19

Well Name Fairborne Clive 5-2-40-24W4
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
1	2024/04/19 11:15:00	0.0000	108.14	12.62	0.0000	107.98	13.13
2	2024/04/19 11:15:55	0.0153	109.79	12.53	0.0153	111.13	13.06
3	2024/04/19 11:17:45	0.0458	109.34	11.61	0.0458	111.25	12.39
4	2024/04/19 11:19:35	0.0764	42.59	11.21	0.0764	43.76	12.34
5	2024/04/19 11:21:25	0.1069	47.49	10.97	0.1069	47.78	12.20
6	2024/04/19 11:23:15	0.1375	52.21	10.78	0.1375	52.25	12.04
7	2024/04/19 11:25:05	0.1681	56.84	10.62	0.1681	58.28	11.86
8	2024/04/19 11:26:55	0.1986	62.25	10.35	0.1986	63.59	11.65
9	2024/04/19 11:28:45	0.2292	68.01	10.44	0.2292	69.12	11.58
10	2024/04/19 11:30:35	0.2597	371.01	15.55	0.2597	360.96	15.53
11	2024/04/19 11:32:25	0.2903	385.33	20.14	0.2903	381.85	19.91
12	2024/04/19 11:34:15	0.3208	384.99	20.34	0.3208	382.21	20.16
13	2024/04/19 11:36:05	0.3514	514.04	20.42	0.3514	492.26	20.26
14	2024/04/19 11:37:55	0.3819	2474.19	25.77	0.3819	2449.83	25.62
15	2024/04/19 11:39:45	0.4125	4431.25	31.84	0.4125	4406.79	31.70
16	2024/04/19 11:41:35	0.4431	5282.21	36.07	0.4431	5279.68	35.99
17	2024/04/19 11:43:25	0.4736	5281.80	36.24	0.4736	5279.34	36.19
18	2024/04/19 11:45:15	0.5042	5281.77	36.25	0.5042	5279.66	36.23
19	2024/04/19 11:47:05	0.5347	6472.24	38.80	0.5347	6451.75	38.70
20	2024/04/19 11:48:55	0.5653	7724.25	44.23	0.5653	7721.77	44.21
21	2024/04/19 11:50:45	0.5958	7723.73	44.64	0.5958	7722.25	44.64
22	2024/04/19 11:52:35	0.6264	7723.82	44.69	0.6264	7722.36	44.69
23	2024/04/19 11:54:25	0.6569	8448.92	46.01	0.6569	8430.09	45.94
24	2024/04/19 11:56:15	0.6875	10146.71	53.75	0.6875	10145.85	53.69
25	2024/04/19 11:58:05	0.7181	10159.21	55.08	0.7181	10156.95	55.08
26	2024/04/19 11:59:55	0.7486	10159.08	55.17	0.7486	10157.08	55.17
27	2024/04/19 12:01:45	0.7792	10422.06	55.34	0.7792	10402.98	55.32
28	2024/04/19 12:03:35	0.8097	12200.90	60.56	0.8097	12182.15	60.57
29	2024/04/19 12:05:25	0.8403	12935.73	62.29	0.8403	12932.34	62.34
30	2024/04/19 12:07:15	0.8708	12935.02	62.34	0.8708	12931.58	62.38
31	2024/04/19 12:09:05	0.9014	12935.47	62.35	0.9014	12931.83	62.39
32	2024/04/19 12:10:55	0.9319	13137.41	62.52	0.9319	13130.84	62.58
33	2024/04/19 12:12:45	0.9625	13226.21	62.73	0.9625	13223.02	62.79
34	2024/04/19 12:14:35	0.9931	13226.27	62.74	0.9931	13223.02	62.81
35	2024/04/19 12:16:25	1.0236	13226.28	62.75	1.0236	13222.87	62.81
36	2024/04/19 12:18:15	1.0542	13517.91	63.10	1.0542	13514.71	63.16
37	2024/04/19 12:20:05	1.0847	13517.93	63.13	1.0847	13514.57	63.20
38	2024/04/19 12:21:55	1.1153	13518.07	63.14	1.1153	13514.67	63.20
39	2024/04/19 12:23:45	1.1458	13718.37	63.24	1.1458	13711.79	63.30
40	2024/04/19 12:25:35	1.1764	13809.62	63.08	1.1764	13805.76	63.17
41	2024/04/19 12:27:25	1.2069	13809.86	63.06	1.2069	13805.79	63.14
42	2024/04/19 12:29:15	1.2375	13809.65	63.05	1.2375	13805.89	63.14
43	2024/04/19 12:31:05	1.2681	13809.59	63.05	1.2681	13806.15	63.14
44	2024/04/19 12:32:55	1.2986	13809.68	63.05	1.2986	13805.80	63.13
45	2024/04/19 12:34:45	1.3292	13809.53	63.04	1.3292	13805.97	63.14

Print Filter: Approximately every 11 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/19 YYYY/MM/DD	11:15:00 HH:mm:ss	1876.00 m
Top	80704	2024/04/19 YYYY/MM/DD	11:15:00 HH:mm:ss	1875.75 m

Company Name Enhance Energy Inc.
Unique Well ID 100/05-02-040-24W4/2
Start Test Date 2024/04/19
Final Test Date 2024/04/19

Well Name Fairborne Clive 5-2-40-24W4
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
46	2024/04/19 12:36:35	1.3597	13809.86	63.04	1.3597	13805.90	63.13
47	2024/04/19 12:38:25	1.3903	13809.85	63.04	1.3903	13805.99	63.13
48	2024/04/19 12:40:15	1.4208	13809.32	63.04	1.4208	13805.92	63.14
49	2024/04/19 12:42:05	1.4514	13809.70	63.04	1.4514	13805.81	63.13
50	2024/04/19 12:43:55	1.4819	13809.73	63.04	1.4819	13805.56	63.13
51	2024/04/19 12:45:45	1.5125	13809.79	63.04	1.5125	13806.08	63.13
52	2024/04/19 12:47:35	1.5431	13809.69	63.04	1.5431	13805.89	63.13
53	2024/04/19 12:49:25	1.5736	13809.93	63.04	1.5736	13805.62	63.13
54	2024/04/19 12:51:15	1.6042	13809.59	63.04	1.6042	13805.97	63.13
55	2024/04/19 12:53:05	1.6347	13809.77	63.04	1.6347	13805.57	63.13
56	2024/04/19 12:54:55	1.6653	13809.92	63.04	1.6653	13805.85	63.13
57	2024/04/19 12:56:45	1.6958	13809.88	63.04	1.6958	13805.56	63.13
58	2024/04/19 12:58:35	1.7264	13809.68	63.03	1.7264	13805.75	63.13
59	2024/04/19 13:00:25	1.7569	13810.04	63.04	1.7569	13805.73	63.13
60	2024/04/19 13:02:15	1.7875	13809.87	63.04	1.7875	13805.78	63.13
61	2024/04/19 13:04:05	1.8181	13809.78	63.04	1.8181	13805.51	63.12
62	2024/04/19 13:05:55	1.8486	13809.92	63.04	1.8486	13805.60	63.13
63	2024/04/19 13:07:45	1.8792	13809.77	63.04	1.8792	13806.11	63.13
64	2024/04/19 13:09:35	1.9097	13810.04	63.04	1.9097	13806.14	63.13
65	2024/04/19 13:11:25	1.9403	13810.26	63.04	1.9403	13805.75	63.13
66	2024/04/19 13:13:15	1.9708	13809.66	63.04	1.9708	13805.93	63.13
67	2024/04/19 13:15:05	2.0014	13810.07	63.04	2.0014	13805.79	63.13
68	2024/04/19 13:16:55	2.0319	13809.70	63.03	2.0319	13805.80	63.12
69	2024/04/19 13:18:45	2.0625	13809.92	63.04	2.0625	13805.76	63.12
70	2024/04/19 13:20:35	2.0931	13809.99	63.03	2.0931	13805.86	63.13
71	2024/04/19 13:22:25	2.1236	13809.86	63.04	2.1236	13805.41	63.13
72	2024/04/19 13:24:15	2.1542	13809.68	63.03	2.1542	13805.47	63.12
73	2024/04/19 13:26:05	2.1847	13810.01	63.03	2.1847	13805.93	63.13
74	2024/04/19 13:27:55	2.2153	13810.08	63.04	2.2153	13805.55	63.13
75	2024/04/19 13:29:45	2.2458	13809.63	63.04	2.2458	13805.46	63.12
76	2024/04/19 13:31:35	2.2764	13809.97	63.04	2.2764	13805.80	63.12
77	2024/04/19 13:33:25	2.3069	13809.93	63.04	2.3069	13805.29	63.12
78	2024/04/19 13:35:15	2.3375	13810.14	63.03	2.3375	13805.76	63.13
79	2024/04/19 13:37:05	2.3681	13809.72	63.03	2.3681	13805.99	63.13
80	2024/04/19 13:38:55	2.3986	13810.03	63.03	2.3986	13805.47	63.12
81	2024/04/19 13:40:45	2.4292	13809.84	63.04	2.4292	13805.47	63.12
82	2024/04/19 13:42:35	2.4597	13809.87	63.03	2.4597	13805.78	63.13
83	2024/04/19 13:44:25	2.4903	13810.05	63.03	2.4903	13805.77	63.13
84	2024/04/19 13:46:15	2.5208	13810.00	63.03	2.5208	13805.88	63.12
85	2024/04/19 13:48:05	2.5514	13809.77	63.03	2.5514	13805.72	63.13
86	2024/04/19 13:49:55	2.5819	13809.58	63.03	2.5819	13805.64	63.13
87	2024/04/19 13:51:45	2.6125	13809.71	63.03	2.6125	13805.56	63.12
88	2024/04/19 13:53:35	2.6431	13810.06	63.03	2.6431	13805.97	63.13
89	2024/04/19 13:55:25	2.6736	13809.74	63.03	2.6736	13805.64	63.12
90	2024/04/19 13:57:15	2.7042	13810.01	63.03	2.7042	13805.71	63.12

Print Filter: Approximately every 11 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/19 YYYY/MM/DD	11:15:00 HH:mm:ss	1876.00 m
Top	80704	2024/04/19 YYYY/MM/DD	11:15:00 HH:mm:ss	1875.75 m

Company Name Enhance Energy Inc.
Unique Well ID 100/05-02-040-24W4/2
Start Test Date 2024/04/19
Final Test Date 2024/04/19

Well Name Fairborne Clive 5-2-40-24W4
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
91	2024/04/19 13:59:05	2.7347	13810.08	63.04	2.7347	13805.59	63.12
92	2024/04/19 14:00:55	2.7653	13809.98	63.03	2.7653	13805.55	63.12
93	2024/04/19 14:02:45	2.7958	13809.81	63.03	2.7958	13805.54	63.13
94	2024/04/19 14:04:35	2.8264	13809.85	63.03	2.8264	13805.46	63.13
95	2024/04/19 14:06:25	2.8569	13809.84	63.03	2.8569	13805.60	63.12
96	2024/04/19 14:08:15	2.8875	13810.00	63.03	2.8875	13805.73	63.12
97	2024/04/19 14:10:05	2.9181	13810.11	63.03	2.9181	13805.84	63.13
98	2024/04/19 14:11:55	2.9486	13810.24	63.03	2.9486	13805.71	63.12
99	2024/04/19 14:13:45	2.9792	13810.15	63.03	2.9792	13805.64	63.12
100	2024/04/19 14:15:35	3.0097	13809.79	63.03	3.0097	13805.75	63.13
101	2024/04/19 14:17:25	3.0403	13810.20	63.03	3.0403	13805.41	63.12
102	2024/04/19 14:19:15	3.0708	13809.65	63.03	3.0708	13805.87	63.12
103	2024/04/19 14:21:05	3.1014	13810.09	63.03	3.1014	13805.69	63.13
104	2024/04/19 14:22:55	3.1319	13809.89	63.03	3.1319	13805.75	63.12
105	2024/04/19 14:24:45	3.1625	13810.21	63.03	3.1625	13805.68	63.12
106	2024/04/19 14:26:35	3.1931	13809.79	63.03	3.1931	13805.66	63.12
107	2024/04/19 14:28:25	3.2236	13809.84	63.03	3.2236	13805.14	63.12
108	2024/04/19 14:30:15	3.2542	13733.81	63.06	3.2542	13728.47	63.15
109	2024/04/19 14:32:05	3.2847	13152.53	63.12	3.2847	13144.70	63.18
110	2024/04/19 14:33:55	3.3153	11145.15	60.59	3.3153	11136.81	60.63
111	2024/04/19 14:35:45	3.3458	9088.37	53.39	3.3458	9079.91	53.40
112	2024/04/19 14:37:35	3.3764	6999.02	44.39	3.3764	6990.00	44.37
113	2024/04/19 14:39:25	3.4069	4889.17	37.25	3.4069	4878.40	37.20
114	2024/04/19 14:41:15	3.4375	2756.38	30.22	3.4375	2745.95	30.14
115	2024/04/19 14:43:05	3.4681	609.00	24.00	3.4681	597.22	23.88
116	2024/04/19 14:44:55	3.4986	109.03	20.30	3.4986	106.91	20.23
117	2024/04/19 14:46:45	3.5292	106.34	19.25	3.5292	104.19	19.25
118	2024/04/19 14:48:35	3.5597	105.75	18.43	3.5597	103.38	18.48
119	2024/04/19 14:50:25	3.5903	106.10	17.48	3.5903	103.47	18.07
120	2024/04/19 14:52:15	3.6208	105.78	17.01	3.6208	103.41	17.77
121	2024/04/19 14:54:05	3.6514	105.78	16.64	3.6514	103.25	17.50
122	2024/04/19 14:55:55	3.6819	106.14	16.10	3.6819	103.97	17.07
123	2024/04/19 14:57:05	3.7014	101.69	17.00	3.7014	99.27	17.44

Print Filter: Approximately every 11 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/19 YYYY/MM/DD	11:15:00 HH:mm:ss	1876.00 m
Top	80704	2024/04/19 YYYY/MM/DD	11:15:00 HH:mm:ss	1875.75 m

Test Type Static Gradient

Company Name	**Enhance Energy Inc.**
Well Name	**Fairborne Clive 8-35-39-24**
Unique Well ID	**100/08-35-039-24W4/2**
Well License Number	**0107445**
Formation	**Nisku**
Start Test Date	**2024/04/17**
Final Test Date	**2024/04/17**

Prepared By	**Kennason Tech Services Inc.**
Qualified By	**Cory Strang**
Report Date	**2024/04/18**

Reliance OFS Canada Limited
2500 333 - 7th Ave SW
Calgary AB T2P 2Z1
403-475-1229
relianceofs.com

RELIANCE OILFIELD SERVICES

Pressure Survey Report

Static Gradient

Company Name Enhance Energy Inc.
Contact Kevin Meyer

Representative Russ Guenther

General Information

Well Name	Fairborne Clive 8-35-39-24		KB Elevation (SL)	861.90 m
Unique Well ID	100/08-35-039-24W4/2		CF Elevation (SL)	856.80 m
Surface Location	08-35-039-4W4		GL Elevation (SL)	856.80 m
Well License Number	0107445		KB-CF Offset	5.10 m
Well Type	Vertical		KB-GL Offset	5.10 m

Wellbore Information

Tubing OD	73.0 mm	Casing OD	177.8 mm
Tubing ID	62.0 mm	Casing ID	161.7 mm
Tubing Depth(Log KB)	1825.27000 m	Casing Depth(Log KB)	1922.10000 m
Tubing Depth(TVD KB)	1825.27000 m	Casing Depth(TVD KB)	1922.10000 m
Packer Depth(Log KB)	1819.30000 m	PBTD(Log KB)	1843.00 m
Packer Depth(TVD KB)	1819.30000 m	PBTD(TVD KB)	1843.00 m

Gross Completion Interval (GCI) as tested:

Top(Log KB)	1832.00 m	Top(TVD KB)	1832.00 m	Formation Name	Nisku
Bottom(Log KB)	1835.00 m	Bottom(TVD KB)	1835.00 m	Pool	
MPP(Log KB)	1833.50 m	MPP(TVD KB)	1833.50 m		

Test Information

Test Type	Static Gradient	Date/Time Gauge on Bottom	2024/04/17 12:50:20
Well Fluid Type	01 Oil	Date/Time Gauge Off Bottom	2024/04/17 13:05:20
Test Purpose	Annual Pressure	Time/Date Well Shut-In	2024/03/17 12:00:00
		Shut-In Duration	743.8500 h

Surface Pressures:

Tubing Pressure Initial	93.00 kPa(a)	Casing Pressure Initial	93.00 kPa(a)
Tubing Pressure: Final	93.00 kPa(a)	Casing Pressure: Final	93.00 kPa(a)

Test Results

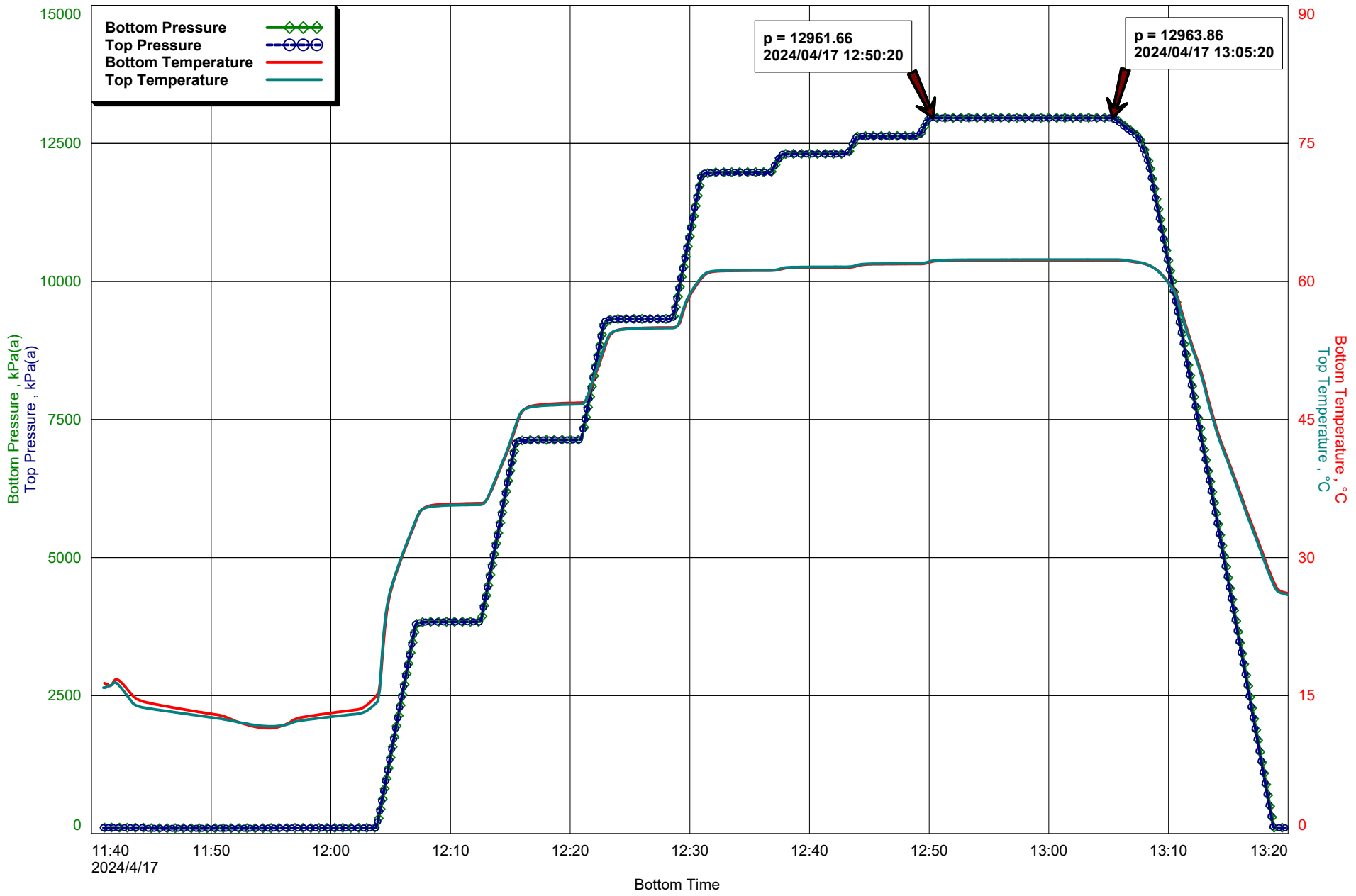
Gauge Serial Number Used in Summary	80703		Run Depth (Log KB)	1833.50	m
Calculated Pressure Corrected to MPP	12963.86	kPa(a)	Run Depth (TVD KB)	1833.50	m
Reservoir Temperature	62.31	°C	Pressure at Stop Depth	12963.86	kPa(a)
Liquid Level(TVD KB)	658.52	m	Temperature at Run Depth	62.3	°C

Test Remarks:

Enhance Energy Inc.
100/08-35-039-24W4/2
Start Test Date: 2024/04/17
Final Test Date: 2024/04/17

Fairborne Clive 8-35-39-24
Formation: Nisku

Static Gradient Plot



Static Gradient 2024/04/17

Company Name Enhance Energy Inc.

Well Name Fairborne Clive 8-35-39-24

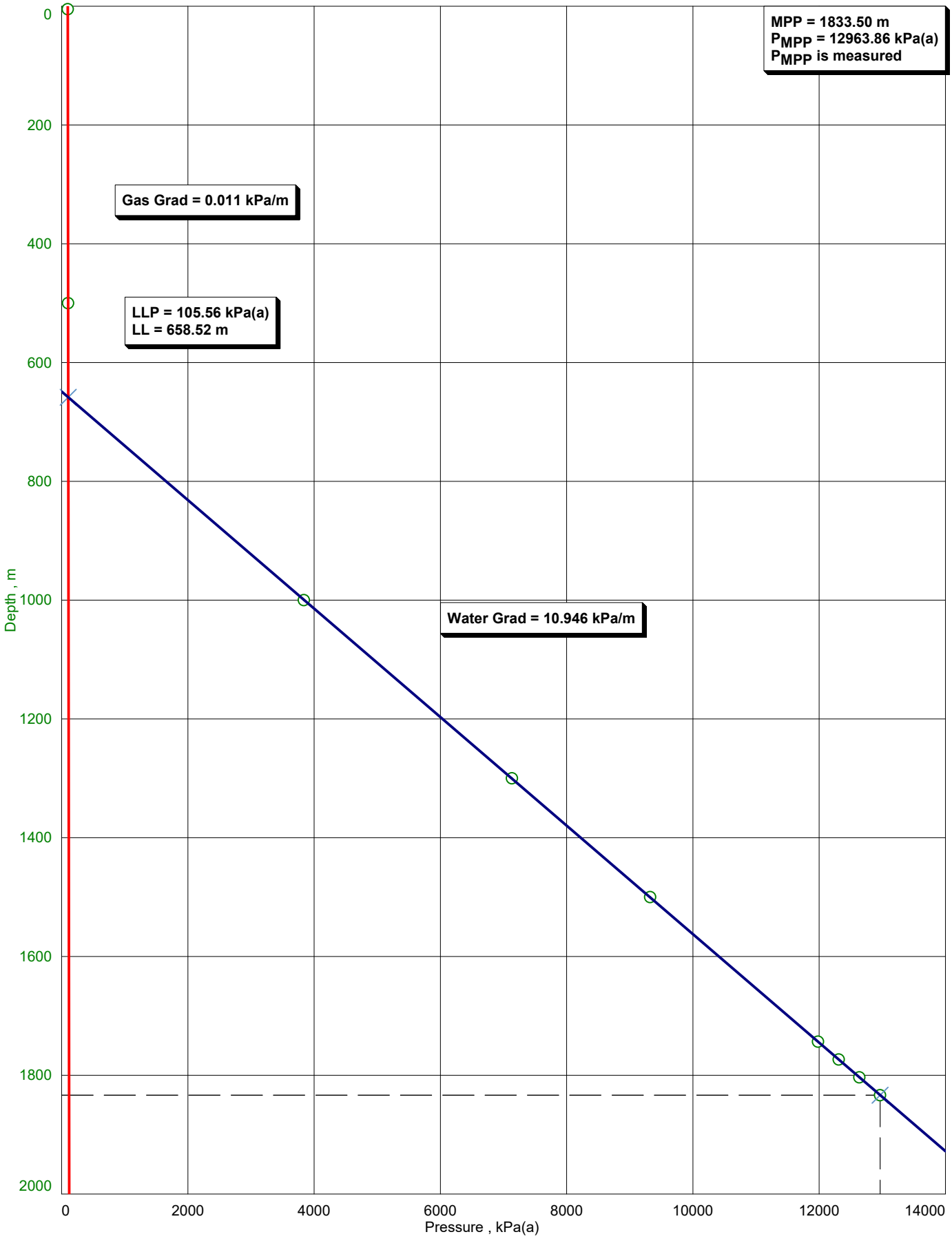
Unique Well ID	100/08-35-039-24W4/2	KB Elevation (SL)	861.90
		GL Elevation (SL)	856.80
Formation	Nisku	CF Elevation (SL)	856.80
Well Fluid Type	01 Oil		
Well License Number	0107445		
Well Type	Vertical		
Start Test Date	2024/04/17	Start Test Time	11:41:05
Final Test Date	2024/04/17	Final Test Time	13:35:20
Date Well Shut-In	2024/03/17	Time Well Shut-In	12:00:00

Top(TVD KB)	1832.00	m	Tubing Pressure: Initial	93.00	kPa(a)
Bottom(TVD KB)	1835.00	m	Casing Pressure: Initial	93.00	kPa(a)
MPP(TVD KB)	1833.50	m	Shut-In Duration	743.8500	h

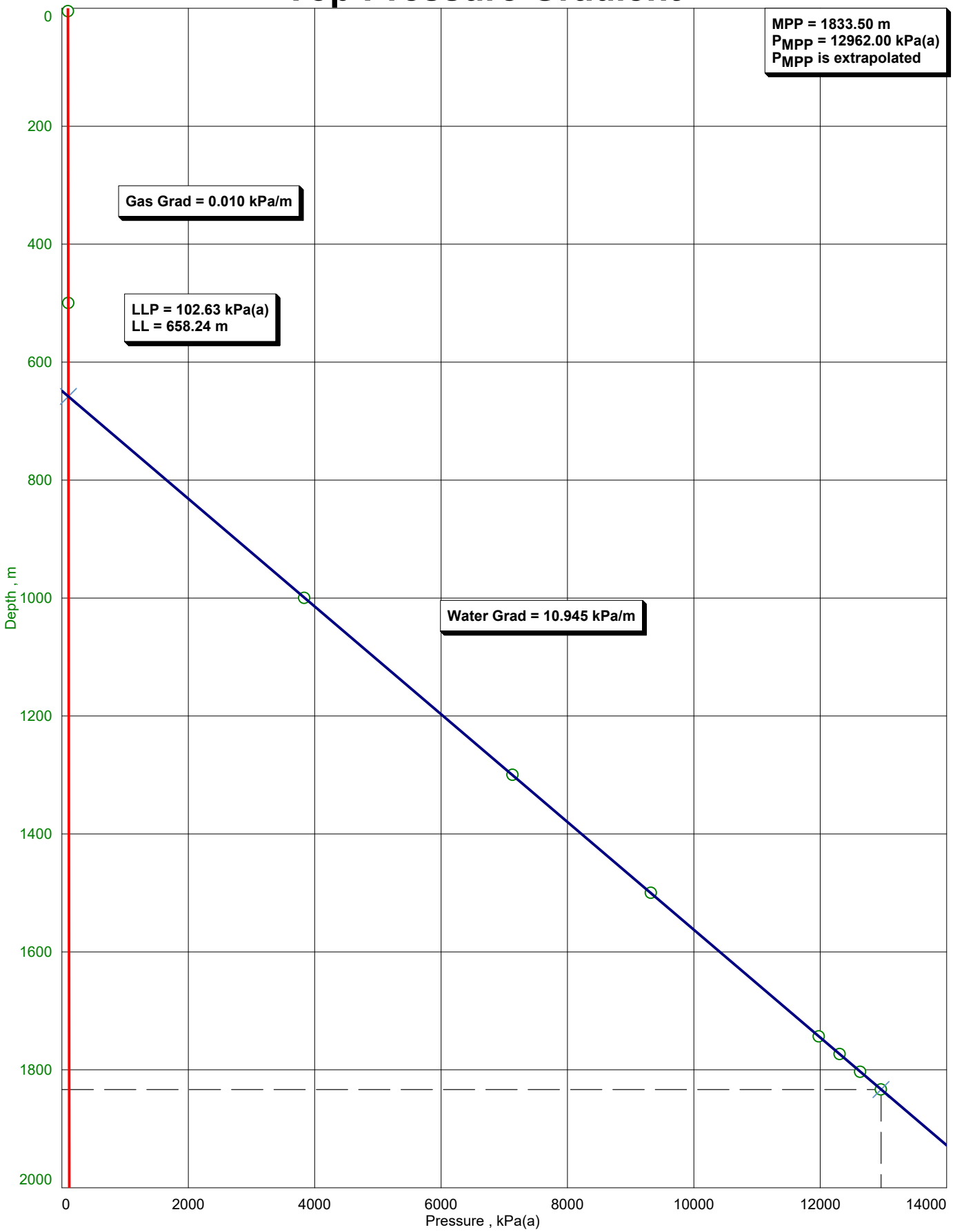
	Bottom		Top	
Gauge Name	Bottom		Top	
Gauge Serial Number	80703		80704	
Gauge Type	Strain		Strain	
Gauge Manufacturer	Spartek		Spartek	
Gauge Model	SS2500		SS2500	
Maximum Recorder Range	41370.00 kPa(a)		41370.00 kPa(a)	
Resolution (% of Full Scale)	0.00030		0.00030	
Accuracy (% of Full Scale)	0.03000		0.03000	
Date of Last Calibration	2023/08/19		2023/08/19	
Gauge Start Date	2024/04/17	11:41:05	2024/04/17	11:41:00
Gauge Stop Date	2024/04/17	13:35:20	2024/04/17	13:35:20
Date Gauge On Bottom	2024/04/17	12:50:20	2024/04/17	12:50:20
Date Gauge Off Bottom	2024/04/17	13:05:20	2024/04/17	13:05:20
Run Depth (TVD KB)	1833.50 m		1833.25 m	
Pressure at Run Depth	12963.86 kPa(a)		12959.26 kPa(a)	
Pressure at MPP	12963.86 kPa(a)		12962.00 kPa(a)	
Representative Gradient	10.946 kPa/m		10.945 kPa/m	
Temperature at Run Depth	62.3 °C		62.4 °C	
Liquid Level(TVD KB)	658.52 m		658.24 m	

Bottom					Top					
Depth	Temp.	Pressure	Gradient	Gradient	Time	Depth	Temp.	Pressure	Gradient	Gradient
m	°C	kPa(a)	kPa/m	°C/m	HH:mm:ss	m	°C	kPa(a)	kPa/m	°C/m
5.10	12.76	98.35			11:51:00	4.85	12.46	96.03		
500.00	13.44	103.81	0.011	0.001	12:02:00	499.75	12.97	101.03	0.010	0.001
1000.00	35.90	3837.22	7.467	0.045	12:12:20	999.75	35.74	3833.60	7.465	0.046
1300.00	46.82	7132.77	10.985	0.036	12:20:50	1299.75	46.66	7130.01	10.988	0.036
1500.00	54.99	9323.55	10.954	0.041	12:28:20	1499.75	54.94	9320.23	10.951	0.041
1743.50	61.19	11981.11	10.914	0.025	12:36:40	1743.25	61.20	11977.38	10.912	0.026
1773.50	61.54	12310.51	10.980	0.012	12:43:00	1773.25	61.59	12306.39	10.967	0.013
1803.50	61.90	12635.87	10.845	0.012	12:49:00	1803.25	61.95	12631.72	10.844	0.012
1833.50	62.31	12963.86	10.933	0.014	13:05:20	1833.25	62.37	12959.26	10.918	0.014

Bottom Pressure Gradient



Top Pressure Gradient



Company Name Enhance Energy Inc.
Unique Well ID 100/08-35-039-24W4/2
Start Test Date 2024/04/17
Final Test Date 2024/04/17

Well Name Fairborne Clive 8-35-39-24
Formation Nisku

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
1	2024/04/17 11:41:05	0.0000	108.61	16.36	0.0000	105.99	15.86
2	2024/04/17 11:41:35	0.0083	110.45	16.09	0.0083	106.32	16.07
3	2024/04/17 11:42:10	0.0181	110.17	16.75	0.0181	106.60	16.36
4	2024/04/17 11:43:10	0.0347	107.50	15.41	0.0347	106.67	14.81
5	2024/04/17 11:44:10	0.0514	107.47	14.42	0.0514	107.45	13.77
6	2024/04/17 11:45:10	0.0681	97.67	14.09	0.0681	94.75	13.54
7	2024/04/17 11:46:10	0.0847	97.95	13.85	0.0847	95.24	13.35
8	2024/04/17 11:47:10	0.1014	97.94	13.62	0.1014	95.42	13.17
9	2024/04/17 11:48:10	0.1181	97.87	13.39	0.1181	95.56	12.98
10	2024/04/17 11:49:10	0.1347	98.10	13.18	0.1347	95.61	12.80
11	2024/04/17 11:50:10	0.1514	98.19	12.98	0.1514	95.97	12.62
12	2024/04/17 11:51:10	0.1681	98.04	12.69	0.1681	96.14	12.41
13	2024/04/17 11:52:10	0.1847	97.61	12.16	0.1847	96.80	12.16
14	2024/04/17 11:53:10	0.2014	98.34	11.77	0.2014	97.47	11.92
15	2024/04/17 11:54:10	0.2181	99.15	11.51	0.2181	97.90	11.72
16	2024/04/17 11:55:10	0.2347	100.67	11.48	0.2347	98.72	11.66
17	2024/04/17 11:56:10	0.2514	102.83	11.83	0.2514	99.72	11.79
18	2024/04/17 11:57:10	0.2681	103.47	12.51	0.2681	100.28	12.19
19	2024/04/17 11:58:10	0.2847	103.78	12.76	0.2847	100.48	12.39
20	2024/04/17 11:59:10	0.3014	103.54	12.96	0.3014	100.60	12.55
21	2024/04/17 12:00:10	0.3181	103.92	13.13	0.3181	100.78	12.71
22	2024/04/17 12:01:10	0.3347	103.96	13.30	0.3347	100.95	12.85
23	2024/04/17 12:02:10	0.3514	104.04	13.47	0.3514	101.12	12.99
24	2024/04/17 12:03:10	0.3681	105.16	14.14	0.3681	101.51	13.43
25	2024/04/17 12:04:10	0.3847	443.88	16.84	0.3847	403.93	15.66
26	2024/04/17 12:05:10	0.4014	1573.11	27.08	0.4014	1528.01	26.90
27	2024/04/17 12:06:10	0.4181	2701.62	30.84	0.4181	2659.42	30.68
28	2024/04/17 12:07:10	0.4347	3800.56	34.15	0.4347	3788.27	34.01
29	2024/04/17 12:08:10	0.4514	3835.95	35.59	0.4514	3831.70	35.46
30	2024/04/17 12:09:10	0.4681	3837.27	35.77	0.4681	3833.42	35.62
31	2024/04/17 12:10:10	0.4847	3837.49	35.82	0.4847	3834.04	35.68
32	2024/04/17 12:11:10	0.5014	3837.46	35.86	0.5014	3834.04	35.71
33	2024/04/17 12:12:10	0.5181	3837.10	35.90	0.5181	3833.79	35.73
34	2024/04/17 12:13:10	0.5347	4495.44	36.61	0.5347	4453.78	36.46
35	2024/04/17 12:14:10	0.5514	5630.28	39.66	0.5514	5591.31	39.56
36	2024/04/17 12:15:10	0.5681	6745.13	43.04	0.5681	6709.02	42.94
37	2024/04/17 12:16:10	0.5847	7125.22	46.11	0.5847	7121.50	46.05
38	2024/04/17 12:17:10	0.6014	7130.62	46.56	0.6014	7127.66	46.43
39	2024/04/17 12:18:10	0.6181	7131.66	46.68	0.6181	7129.19	46.54
40	2024/04/17 12:19:10	0.6347	7132.50	46.76	0.6347	7129.72	46.60
41	2024/04/17 12:20:10	0.6514	7132.59	46.80	0.6514	7130.31	46.64
42	2024/04/17 12:21:10	0.6681	7357.23	46.86	0.6681	7323.42	46.70
43	2024/04/17 12:22:10	0.6847	8473.93	50.09	0.6847	8434.83	50.02
44	2024/04/17 12:23:10	0.7014	9301.60	53.78	0.7014	9297.00	53.73
45	2024/04/17 12:24:10	0.7181	9320.44	54.77	0.7181	9317.00	54.73

Print Filter: Approximately every 6 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/17 YYYY/MM/DD	11:41:05 HH:mm:ss	1833.50 m
Top	80704	2024/04/17 YYYY/MM/DD	11:41:00 HH:mm:ss	1833.25 m

Company Name Enhance Energy Inc.
Unique Well ID 100/08-35-039-24W4/2
Start Test Date 2024/04/17
Final Test Date 2024/04/17

Well Name Fairborne Clive 8-35-39-24
Formation Nisku

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
46	2024/04/17 12:25:10	0.7347	9322.40	54.90	0.7347	9319.22	54.85
47	2024/04/17 12:26:10	0.7514	9323.05	54.95	0.7514	9320.07	54.89
48	2024/04/17 12:27:10	0.7681	9323.44	54.98	0.7681	9320.49	54.92
49	2024/04/17 12:28:10	0.7847	9323.41	54.99	0.7847	9320.43	54.94
50	2024/04/17 12:29:10	0.8014	9902.50	55.53	0.8014	9868.46	55.44
51	2024/04/17 12:30:10	0.8181	10999.94	58.83	0.8181	10964.84	58.82
52	2024/04/17 12:31:10	0.8347	11945.23	60.61	0.8347	11943.22	60.62
53	2024/04/17 12:32:10	0.8514	11976.29	61.10	0.8514	11972.09	61.14
54	2024/04/17 12:33:10	0.8681	11979.06	61.15	0.8681	11974.88	61.17
55	2024/04/17 12:34:10	0.8847	11979.88	61.17	0.8847	11976.23	61.19
56	2024/04/17 12:35:10	0.9014	11980.51	61.18	0.9014	11976.66	61.20
57	2024/04/17 12:36:10	0.9181	11981.03	61.19	0.9181	11977.10	61.20
58	2024/04/17 12:37:10	0.9347	12112.11	61.22	0.9347	12097.98	61.23
59	2024/04/17 12:38:10	0.9514	12309.20	61.47	0.9514	12305.27	61.52
60	2024/04/17 12:39:10	0.9681	12310.42	61.51	0.9681	12306.38	61.56
61	2024/04/17 12:40:10	0.9847	12310.71	61.53	0.9847	12306.70	61.58
62	2024/04/17 12:41:10	1.0014	12310.53	61.53	1.0014	12306.60	61.58
63	2024/04/17 12:42:10	1.0181	12310.35	61.53	1.0181	12306.74	61.59
64	2024/04/17 12:43:10	1.0347	12310.58	61.54	1.0347	12306.45	61.59
65	2024/04/17 12:44:10	1.0514	12632.71	61.75	1.0514	12629.49	61.80
66	2024/04/17 12:45:10	1.0681	12635.81	61.87	1.0681	12631.49	61.91
67	2024/04/17 12:46:10	1.0847	12635.24	61.88	1.0847	12631.71	61.93
68	2024/04/17 12:47:10	1.1014	12635.48	61.89	1.1014	12631.55	61.94
69	2024/04/17 12:48:10	1.1181	12635.45	61.90	1.1181	12631.61	61.95
70	2024/04/17 12:49:10	1.1347	12635.66	61.90	1.1347	12631.72	61.95
71	2024/04/17 12:50:10	1.1514	12960.95	62.13	1.1514	12957.44	62.18
72	2024/04/17 12:51:10	1.1681	12963.52	62.26	1.1681	12959.23	62.31
73	2024/04/17 12:52:10	1.1847	12963.43	62.28	1.1847	12959.85	62.34
74	2024/04/17 12:53:10	1.2014	12963.66	62.29	1.2014	12959.24	62.35
75	2024/04/17 12:54:10	1.2181	12963.42	62.30	1.2181	12959.52	62.36
76	2024/04/17 12:55:10	1.2347	12963.71	62.30	1.2347	12959.22	62.36
77	2024/04/17 12:56:10	1.2514	12963.35	62.31	1.2514	12959.40	62.36
78	2024/04/17 12:57:10	1.2681	12963.69	62.31	1.2681	12959.40	62.36
79	2024/04/17 12:58:10	1.2847	12963.41	62.31	1.2847	12959.53	62.37
80	2024/04/17 12:59:10	1.3014	12963.34	62.30	1.3014	12959.55	62.37
81	2024/04/17 13:00:10	1.3181	12963.52	62.31	1.3181	12959.43	62.37
82	2024/04/17 13:01:10	1.3347	12963.66	62.31	1.3347	12959.47	62.37
83	2024/04/17 13:02:10	1.3514	12963.81	62.31	1.3514	12959.30	62.37
84	2024/04/17 13:03:10	1.3681	12963.52	62.31	1.3681	12959.29	62.37
85	2024/04/17 13:04:10	1.3847	12963.51	62.31	1.3847	12959.26	62.37
86	2024/04/17 13:05:10	1.4014	12963.56	62.31	1.4014	12959.40	62.37
87	2024/04/17 13:06:10	1.4181	12848.30	62.29	1.4181	12848.12	62.35
88	2024/04/17 13:07:10	1.4347	12679.42	62.11	1.4347	12682.55	62.17
89	2024/04/17 13:08:10	1.4514	12287.68	61.85	1.4514	12296.29	61.91
90	2024/04/17 13:09:10	1.4681	11308.08	61.10	1.4681	11330.26	61.17

Print Filter: Approximately every 6 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/17 YYYY/MM/DD	11:41:05 HH:mm:ss	1833.50 m
Top	80704	2024/04/17 YYYY/MM/DD	11:41:00 HH:mm:ss	1833.25 m

Company Name Enhance Energy Inc.
Unique Well ID 100/08-35-039-24W4/2
Start Test Date 2024/04/17
Final Test Date 2024/04/17

Well Name Fairborne Clive 8-35-39-24
Formation Nisku

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
91	2024/04/17 13:10:10	1.4847	10191.28	59.60	1.4847	10214.18	59.67
92	2024/04/17 13:11:10	1.5014	9054.33	56.44	1.5014	9078.21	56.53
93	2024/04/17 13:12:10	1.5181	7910.36	52.33	1.5181	7936.97	52.40
94	2024/04/17 13:13:10	1.5347	6761.42	48.05	1.5347	6783.18	48.13
95	2024/04/17 13:14:10	1.5514	5604.18	43.43	1.5514	5625.88	43.47
96	2024/04/17 13:15:10	1.5681	4441.71	39.96	1.5681	4462.26	39.98
97	2024/04/17 13:16:10	1.5847	3260.46	36.39	1.5847	3282.18	36.38
98	2024/04/17 13:17:10	1.6014	2079.29	32.92	1.6014	2105.89	32.88
99	2024/04/17 13:18:10	1.6181	888.33	29.41	1.6181	912.90	29.37
100	2024/04/17 13:19:10	1.6347	107.62	26.51	1.6347	106.65	26.39
101	2024/04/17 13:20:10	1.6514	106.24	26.05	1.6514	104.71	25.94
102	2024/04/17 13:21:10	1.6681	105.22	25.74	1.6681	103.57	25.63
103	2024/04/17 13:22:10	1.6847	104.19	25.23	1.6847	102.95	25.21
104	2024/04/17 13:23:10	1.7014	103.40	24.59	1.7014	102.11	24.65
105	2024/04/17 13:24:10	1.7181	102.26	23.79	1.7181	101.00	23.93
106	2024/04/17 13:25:10	1.7347	101.85	23.04	1.7347	100.48	23.32
107	2024/04/17 13:26:10	1.7514	101.75	22.36	1.7514	100.24	22.84
108	2024/04/17 13:27:10	1.7681	101.97	21.43	1.7681	99.89	22.31
109	2024/04/17 13:28:10	1.7847	102.26	20.98	1.7847	100.21	21.89
110	2024/04/17 13:29:10	1.8014	102.15	20.53	1.8014	100.02	21.47
111	2024/04/17 13:30:10	1.8181	102.31	20.09	1.8181	100.10	21.09
112	2024/04/17 13:31:10	1.8347	102.36	19.71	1.8347	100.07	20.74
113	2024/04/17 13:32:10	1.8514	105.16	19.11	1.8514	103.07	20.39
114	2024/04/17 13:33:10	1.8681	105.08	17.34	1.8681	103.50	19.52
115	2024/04/17 13:34:10	1.8847	105.26	15.41	1.8847	103.25	17.43
116	2024/04/17 13:35:10	1.9014	104.65	14.06	1.9014	103.39	15.42
117	2024/04/17 13:35:20	1.9042	102.43	14.61	1.9042	101.10	15.60

Print Filter: Approximately every 6 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/17 YYYY/MM/DD	11:41:05 HH:mm:ss	1833.50 m
Top	80704	2024/04/17 YYYY/MM/DD	11:41:00 HH:mm:ss	1833.25 m

Test Type Static Gradient

Company Name	**Enhance Energy Inc.**
Well Name	**EnhanceEnergy Clive 10-35-39-24**
Unique Well ID	**100/10-35-039-24W4/0**
Well License Number	**0030078**
Formation	**Leduc**
Start Test Date	**2024/05/11**
Final Test Date	**2024/05/11**

Prepared By	**Kennason Tech Services Inc.**
Qualified By	**Cory Strang**
Report Date	**2024/05/13**

Reliance OFS Canada Limited
2500 333 - 7th Ave SW
Calgary AB T2P 2Z1
403-475-1229
relianceofs.com

RELIANCE OILFIELD SERVICES

Pressure Survey Report

Static Gradient

Company Name Enhance Energy Inc.
Contact Kevin Meyer
Representative Russ Guenther

General Information

Well Name	EnhanceEnergy Clive 10-35-39-24	KB Elevation (SL)	855.90 m
Unique Well ID	100/10-35-039-24W4/0	CF Elevation (SL)	851.90 m
Surface Location	10-35-039-24W4	GL Elevation (SL)	851.90 m
Well License Number	0030078	KB-CF Offset	4.00 m
Well Type	Vertical	KB-GL Offset	4.00 m

Wellbore Information

Tubing OD	73.0 mm	Casing OD	139.7 mm
Tubing ID	62.0 mm	Casing ID	125.7 mm
Tubing Depth(Log KB)	1879.65000 m	Casing Depth(Log KB)	1897.40000 m
Tubing Depth(TVD KB)	1879.65000 m	Casing Depth(TVD KB)	1897.40000 m
Packer Depth(Log KB)	1845.22000 m	PBTD(Log KB)	1885.34 m
Packer Depth(TVD KB)	1845.22000 m	PBTD(TVD KB)	1885.34 m

Gross Completion Interval (GCI) as tested:

Top(Log KB)	1860.50 m	Top(TVD KB)	1860.50 m	Formation Name	Leduc
Bottom(Log KB)	1880.00 m	Bottom(TVD KB)	1880.00 m	Pool	
MPP(Log KB)	1870.25 m	MPP(TVD KB)	1870.25 m		

Test Information

Test Type	Static Gradient	Date/Time Gauge on Bottom	2021/05/11 09:10:25
Well Fluid Type	01 Oil	Date/Time Gauge Off Bottom	2024/05/11 11:11:05
Test Purpose	Annual Pressure	Time/Date Well Shut-In	2024/05/03 06:00:00
		Shut-In Duration	194.1153 h

Surface Pressures:

Tubing Pressure Initial	5843.00 kPa(a)	Casing Pressure Initial	3333.00 kPa(a)
Tubing Pressure: Final	5790.00 kPa(a)	Casing Pressure: Final	3333.00 kPa(a)

Test Results

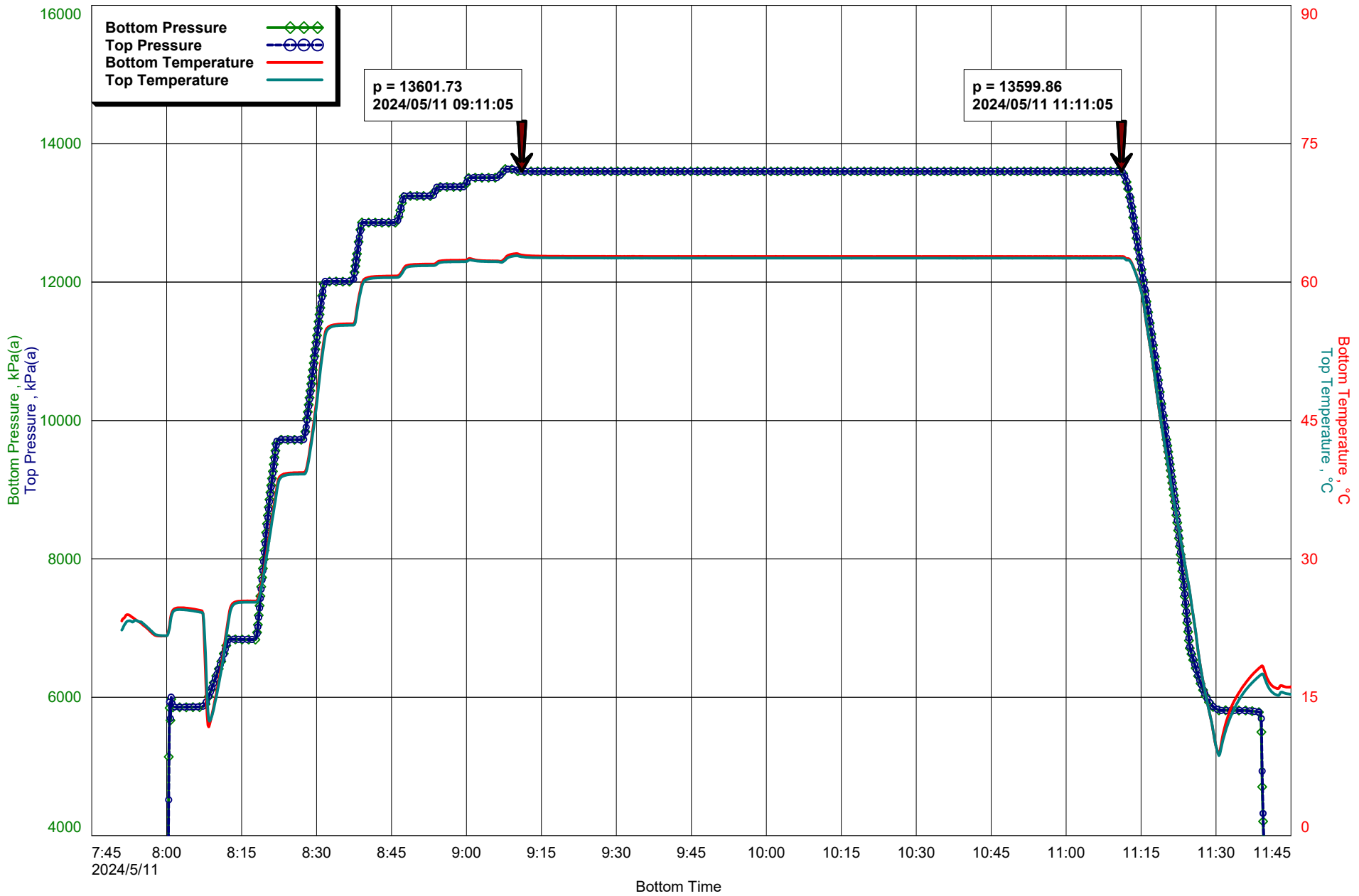
Gauge Serial Number Used in Summary	80662	Run Depth (Log KB)	1870.20 m
Calculated Pressure Corrected to MPP	13600.11 kPa(a)	Run Depth (TVD KB)	1870.20 m
Reservoir Temperature	62.77 °C	Pressure at Stop Depth	13599.86 kPa(a)
Liquid Level(TVD KB)	308.51 m	Temperature at Run Depth	62.8 °C

Test Remarks:

Enhance Energy Inc.
100/10-35-039-24W4/0
Start Test Date: 2024/05/11
Final Test Date: 2024/05/11

EnhanceEnergy Clive 10-35-39-24
Formation: Leduc

Static Gradient Plot



Static Gradient 2024/05/11

Company Name Enhance Energy Inc.

Well Name EnhanceEnergy Clive 10-35-39-24

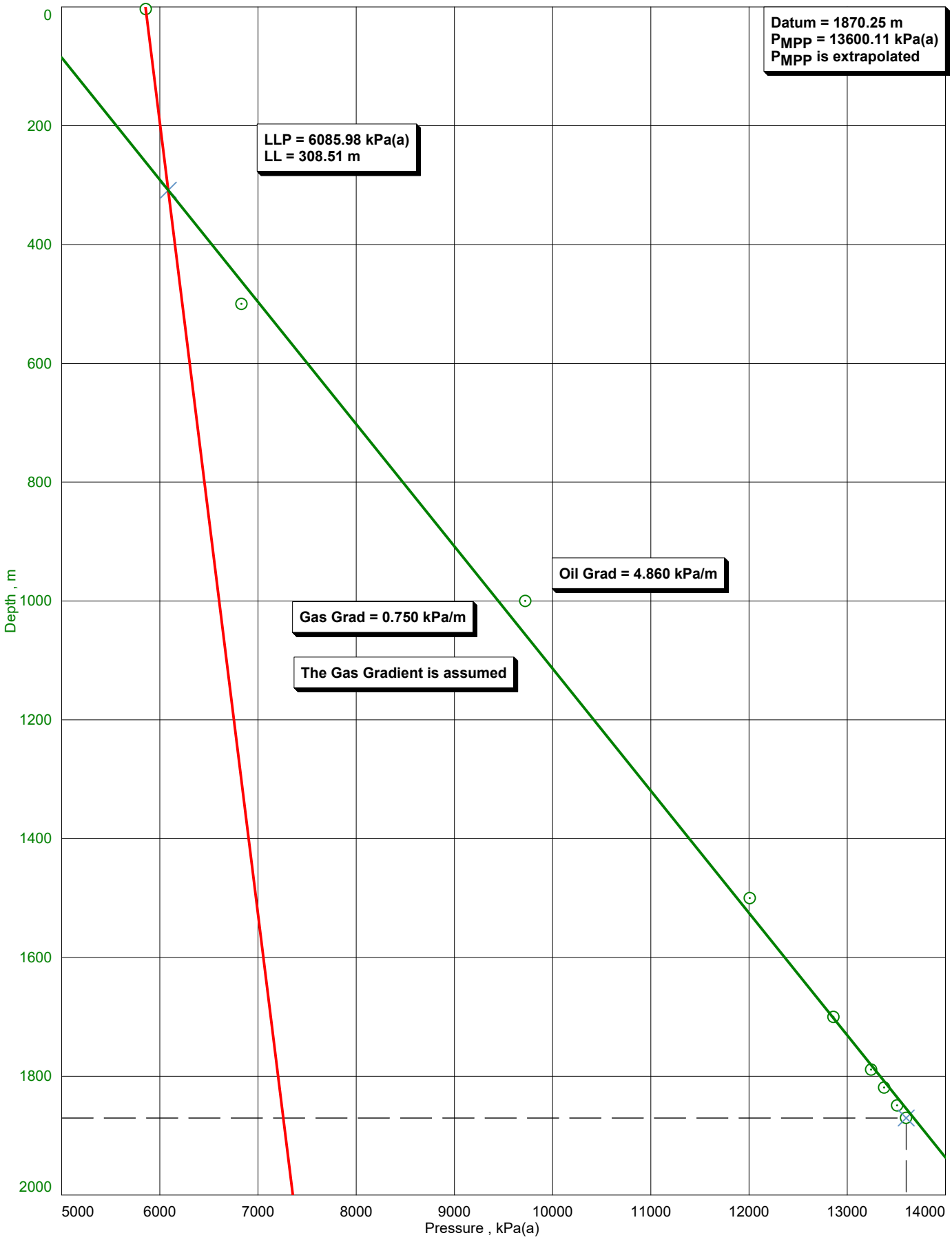
Unique Well ID	100/10-35-039-24W4/0	KB Elevation (SL)	855.90
		GL Elevation (SL)	851.90
Formation	Leduc	CF Elevation (SL)	851.90
Well Fluid Type	01 Oil		
Well License Number	0030078		
Well Type	Vertical		
Start Test Date	2024/05/11	Start Test Time	07:51:00
Final Test Date	2024/05/11	Final Test Time	11:50:45
Date Well Shut-In	2024/05/03	Time Well Shut-In	06:00:00

Top(TVD KB)	1860.50 m	Tubing Pressure: Initial	5843.00 kPa(a)
Bottom(TVD KB)	1880.00 m	Casing Pressure: Initial	3333.00 kPa(a)
MPP(TVD KB)	1870.25 m	Shut-In Duration	194.1153 h

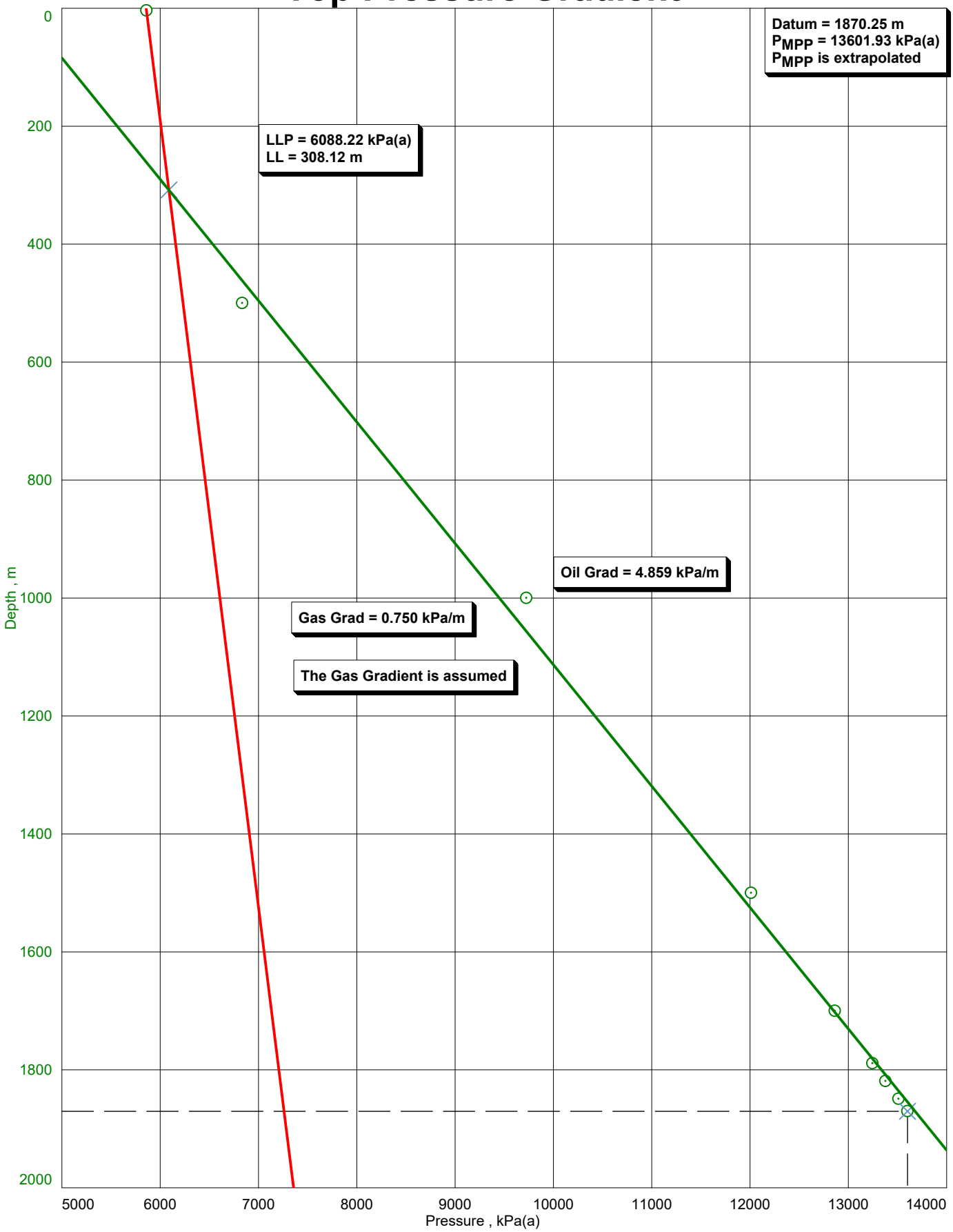
	Bottom	Top
Gauge Name	Bottom	Top
Gauge Serial Number	80662	80806
Gauge Type	Strain	Strain
Gauge Manufacturer	Spartek	Spartek
Gauge Model	SS2500	SS2500
Maximum Recorder Range	41370.00 kPa(a)	41370.00 kPa(a)
Resolution (% of Full Scale)	0.00030	0.00030
Accuracy (% of Full Scale)	0.03000	0.03000
Date of Last Calibration	2023/07/26	2023/07/26
Gauge Start Date	2024/05/11 07:51:00	2024/05/11 07:51:00
Gauge Stop Date	2024/05/11 11:50:45	2024/05/11 11:50:45
Date Gauge On Bottom	2021/05/11 09:10:25	2024/05/11 09:10:25
Date Gauge Off Bottom	2024/05/11 11:11:05	2024/05/11 11:11:05
Run Depth (TVD KB)	1870.20 m	1869.95 m
Pressure at Run Depth	13599.86 kPa(a)	13610.47 kPa(a)
Pressure at MPP	13600.11 kPa(a)	13601.93 kPa(a)
Representative Gradient	4.860 kPa/m	4.859 kPa/m
Temperature at Run Depth	62.8 °C	62.6 °C
Liquid Level(TVD KB)	308.51 m	308.12 m

Bottom						Top				
Depth	Temp.	Pressure	Gradient	Gradient	Time	Depth	Temp.	Pressure	Gradient	Gradient
m	°C	kPa(a)	kPa/m	°C/m	HH:mm:ss	m	°C	kPa(a)	kPa/m	°C/m
3.80	24.39	5857.45			08:06:55	3.55	24.21	5859.79		
500.00	25.44	6832.19	1.964	0.002	08:17:45	499.75	25.30	6834.19	1.964	0.002
1000.00	39.35	9721.24	5.778	0.028	08:27:15	999.75	39.19	9724.31	5.780	0.028
1500.10	55.49	12007.73	4.572	0.032	08:37:15	1499.85	55.33	12010.37	4.571	0.032
1700.10	60.66	12859.44	4.259	0.026	08:45:45	1699.85	60.50	12861.74	4.257	0.026
1788.90	61.95	13244.08	4.332	0.014	08:53:05	1788.65	61.79	13244.98	4.316	0.014
1819.10	62.38	13376.38	4.381	0.014	08:59:25	1818.85	62.22	13377.00	4.372	0.014
1849.20	62.30	13508.80	4.399	-0.003	09:06:05	1848.95	62.22	13509.69	4.408	0.000
1870.20	62.77	13599.86	4.336	0.022	11:11:05	1869.95	62.60	13600.47	4.323	0.018

Bottom Pressure Gradient



Top Pressure Gradient



Company Name Enhance Energy Inc.
Unique Well ID 100/10-35-039-24W4/0
Start Test Date 2024/05/11
Final Test Date 2024/05/11

Well Name EnhanceEnergy Clive 10-35-39-24
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
1	2024/05/11 07:51:00	0.0000	114.65	23.27	0.0000	119.66	22.29
2	2024/05/11 07:52:05	0.0181	115.52	23.96	0.0181	120.13	23.24
3	2024/05/11 07:54:05	0.0514	112.80	23.29	0.0514	119.67	23.30
4	2024/05/11 07:56:05	0.0847	111.81	22.47	0.0847	118.70	22.61
5	2024/05/11 07:58:05	0.1181	111.87	21.66	0.1181	118.19	21.75
6	2024/05/11 08:00:05	0.1514	2155.80	21.71	0.1514	1715.82	21.68
7	2024/05/11 08:02:05	0.1847	5854.18	24.68	0.1847	5856.78	24.49
8	2024/05/11 08:04:05	0.2181	5856.35	24.66	0.2181	5858.35	24.45
9	2024/05/11 08:06:05	0.2514	5857.20	24.48	0.2514	5859.80	24.28
10	2024/05/11 08:08:05	0.2847	5949.09	13.17	0.2847	5957.57	15.17
11	2024/05/11 08:10:05	0.3181	6342.54	15.80	0.3181	6332.19	15.46
12	2024/05/11 08:12:05	0.3514	6788.07	22.63	0.3514	6774.10	22.20
13	2024/05/11 08:14:05	0.3847	6836.24	25.38	0.3847	6836.83	25.23
14	2024/05/11 08:16:05	0.4181	6833.89	25.44	0.4181	6835.53	25.31
15	2024/05/11 08:18:05	0.4514	6936.89	25.49	0.4514	6916.82	25.33
16	2024/05/11 08:20:05	0.4847	8506.88	30.96	0.4847	8472.82	30.56
17	2024/05/11 08:22:05	0.5181	9712.91	37.90	0.5181	9699.36	37.50
18	2024/05/11 08:24:05	0.5514	9721.77	39.27	0.5514	9723.75	39.10
19	2024/05/11 08:26:05	0.5847	9721.07	39.34	0.5847	9723.61	39.18
20	2024/05/11 08:28:05	0.6181	10023.28	40.05	0.6181	10001.26	39.76
21	2024/05/11 08:30:05	0.6514	11230.09	47.61	0.6514	11202.52	47.07
22	2024/05/11 08:32:05	0.6847	12011.13	55.00	0.6847	12011.02	54.75
23	2024/05/11 08:34:05	0.7181	12007.80	55.42	0.7181	12011.18	55.28
24	2024/05/11 08:36:05	0.7514	12007.77	55.48	0.7514	12010.96	55.33
25	2024/05/11 08:38:05	0.7847	12407.32	57.18	0.7847	12385.49	56.80
26	2024/05/11 08:40:05	0.8181	12861.16	60.46	0.8181	12861.36	60.29
27	2024/05/11 08:42:05	0.8514	12859.79	60.62	0.8514	12861.93	60.45
28	2024/05/11 08:44:05	0.8847	12860.00	60.65	0.8847	12861.40	60.48
29	2024/05/11 08:46:05	0.9181	12876.69	60.67	0.9181	12873.60	60.50
30	2024/05/11 08:48:05	0.9514	13245.15	61.81	0.9514	13246.02	61.62
31	2024/05/11 08:50:05	0.9847	13244.58	61.93	0.9847	13245.59	61.76
32	2024/05/11 08:52:05	1.0181	13243.80	61.95	1.0181	13245.19	61.78
33	2024/05/11 08:54:05	1.0514	13376.88	62.14	1.0514	13370.63	61.94
34	2024/05/11 08:56:05	1.0847	13376.20	62.36	1.0847	13377.02	62.19
35	2024/05/11 08:58:05	1.1181	13376.04	62.37	1.1181	13376.97	62.21
36	2024/05/11 09:00:05	1.1514	13455.82	62.42	1.1514	13447.00	62.24
37	2024/05/11 09:02:05	1.1847	13508.80	62.38	1.1847	13509.22	62.29
38	2024/05/11 09:04:05	1.2181	13508.68	62.31	1.2181	13509.47	62.23
39	2024/05/11 09:06:05	1.2514	13508.80	62.30	1.2514	13509.69	62.22
40	2024/05/11 09:08:05	1.2847	13633.26	62.82	1.2847	13632.99	62.57
41	2024/05/11 09:10:05	1.3181	13614.75	63.09	1.3181	13618.02	62.86
42	2024/05/11 09:12:05	1.3514	13601.14	62.87	1.3514	13601.67	62.69
43	2024/05/11 09:14:05	1.3847	13601.26	62.83	1.3847	13601.12	62.65
44	2024/05/11 09:16:05	1.4181	13601.56	62.81	1.4181	13601.71	62.63
45	2024/05/11 09:18:05	1.4514	13601.07	62.80	1.4514	13601.57	62.63

Print Filter: Approximately every 12 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80662	2024/05/11 YYYY/MM/DD	07:51:00 HH:mm:ss	1870.20 m
Top	80806	2024/05/11 YYYY/MM/DD	07:51:00 HH:mm:ss	1869.95 m

Company Name Enhance Energy Inc.
Unique Well ID 100/10-35-039-24W4/0
Start Test Date 2024/05/11
Final Test Date 2024/05/11

Well Name EnhanceEnergy Clive 10-35-39-24
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
46	2024/05/11 09:20:05	1.4847	13600.94	62.79	1.4847	13601.17	62.62
47	2024/05/11 09:22:05	1.5181	13601.05	62.79	1.5181	13601.17	62.62
48	2024/05/11 09:24:05	1.5514	13601.52	62.79	1.5514	13601.56	62.62
49	2024/05/11 09:26:05	1.5847	13601.52	62.79	1.5847	13600.84	62.61
50	2024/05/11 09:28:05	1.6181	13601.31	62.78	1.6181	13601.36	62.61
51	2024/05/11 09:30:05	1.6514	13600.96	62.78	1.6514	13601.13	62.61
52	2024/05/11 09:32:05	1.6847	13601.34	62.78	1.6847	13601.55	62.61
53	2024/05/11 09:34:05	1.7181	13601.24	62.78	1.7181	13601.06	62.61
54	2024/05/11 09:36:05	1.7514	13600.77	62.78	1.7514	13601.18	62.61
55	2024/05/11 09:38:05	1.7847	13601.06	62.78	1.7847	13601.30	62.61
56	2024/05/11 09:40:05	1.8181	13600.98	62.78	1.8181	13601.52	62.61
57	2024/05/11 09:42:05	1.8514	13601.34	62.78	1.8514	13601.27	62.61
58	2024/05/11 09:44:05	1.8847	13601.19	62.78	1.8847	13601.12	62.61
59	2024/05/11 09:46:05	1.9181	13600.47	62.78	1.9181	13600.87	62.60
60	2024/05/11 09:48:05	1.9514	13600.94	62.78	1.9514	13600.97	62.61
61	2024/05/11 09:50:05	1.9847	13600.92	62.78	1.9847	13601.22	62.61
62	2024/05/11 09:52:05	2.0181	13600.99	62.78	2.0181	13600.97	62.61
63	2024/05/11 09:54:05	2.0514	13600.68	62.78	2.0514	13600.85	62.60
64	2024/05/11 09:56:05	2.0847	13600.54	62.78	2.0847	13600.73	62.61
65	2024/05/11 09:58:05	2.1181	13600.69	62.78	2.1181	13600.85	62.61
66	2024/05/11 10:00:05	2.1514	13600.27	62.78	2.1514	13601.00	62.60
67	2024/05/11 10:02:05	2.1847	13601.04	62.78	2.1847	13600.77	62.60
68	2024/05/11 10:04:05	2.2181	13600.82	62.78	2.2181	13600.97	62.61
69	2024/05/11 10:06:05	2.2514	13600.74	62.78	2.2514	13600.41	62.60
70	2024/05/11 10:08:05	2.2847	13600.33	62.77	2.2847	13600.90	62.60
71	2024/05/11 10:10:05	2.3181	13601.09	62.78	2.3181	13600.60	62.60
72	2024/05/11 10:12:05	2.3514	13600.45	62.77	2.3514	13600.65	62.60
73	2024/05/11 10:14:05	2.3847	13600.59	62.78	2.3847	13601.05	62.60
74	2024/05/11 10:16:05	2.4181	13600.23	62.77	2.4181	13600.82	62.60
75	2024/05/11 10:18:05	2.4514	13600.67	62.78	2.4514	13600.56	62.61
76	2024/05/11 10:20:05	2.4847	13600.24	62.78	2.4847	13600.67	62.60
77	2024/05/11 10:22:05	2.5181	13600.66	62.78	2.5181	13600.73	62.61
78	2024/05/11 10:24:05	2.5514	13600.16	62.77	2.5514	13600.70	62.60
79	2024/05/11 10:26:05	2.5847	13599.88	62.77	2.5847	13600.70	62.60
80	2024/05/11 10:28:05	2.6181	13600.41	62.77	2.6181	13600.92	62.60
81	2024/05/11 10:30:05	2.6514	13600.55	62.77	2.6514	13600.47	62.60
82	2024/05/11 10:32:05	2.6847	13600.08	62.78	2.6847	13600.38	62.60
83	2024/05/11 10:34:05	2.7181	13600.61	62.77	2.7181	13600.65	62.60
84	2024/05/11 10:36:05	2.7514	13600.43	62.77	2.7514	13600.65	62.60
85	2024/05/11 10:38:05	2.7847	13600.52	62.78	2.7847	13600.77	62.60
86	2024/05/11 10:40:05	2.8181	13600.69	62.77	2.8181	13600.74	62.60
87	2024/05/11 10:42:05	2.8514	13600.75	62.77	2.8514	13600.35	62.60
88	2024/05/11 10:44:05	2.8847	13600.52	62.77	2.8847	13600.57	62.60
89	2024/05/11 10:46:05	2.9181	13600.27	62.77	2.9181	13600.57	62.60
90	2024/05/11 10:48:05	2.9514	13600.05	62.77	2.9514	13600.38	62.60

Print Filter: Approximately every 12 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80662	2024/05/11 YYYY/MM/DD	07:51:00 HH:mm:ss	1870.20 m
Top	80806	2024/05/11 YYYY/MM/DD	07:51:00 HH:mm:ss	1869.95 m

Company Name Enhance Energy Inc.
Unique Well ID 100/10-35-039-24W4/0
Start Test Date 2024/05/11
Final Test Date 2024/05/11

Well Name EnhanceEnergy Clive 10-35-39-24
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
91	2024/05/11 10:50:05	2.9847	13600.55	62.77	2.9847	13600.60	62.60
92	2024/05/11 10:52:05	3.0181	13600.42	62.77	3.0181	13600.77	62.60
93	2024/05/11 10:54:05	3.0514	13600.90	62.77	3.0514	13600.30	62.60
94	2024/05/11 10:56:05	3.0847	13600.05	62.77	3.0847	13600.48	62.60
95	2024/05/11 10:58:05	3.1181	13600.05	62.77	3.1181	13600.48	62.60
96	2024/05/11 11:00:05	3.1514	13600.18	62.77	3.1514	13600.54	62.60
97	2024/05/11 11:02:05	3.1847	13600.81	62.77	3.1847	13599.90	62.60
98	2024/05/11 11:04:05	3.2181	13599.86	62.77	3.2181	13600.35	62.60
99	2024/05/11 11:06:05	3.2514	13599.99	62.77	3.2514	13600.35	62.60
100	2024/05/11 11:08:05	3.2847	13599.75	62.77	3.2847	13600.25	62.60
101	2024/05/11 11:10:05	3.3181	13600.31	62.77	3.3181	13600.13	62.60
102	2024/05/11 11:12:05	3.3514	13447.20	62.54	3.3514	13459.57	62.38
103	2024/05/11 11:14:05	3.3847	12633.60	60.75	3.3847	12655.43	60.69
104	2024/05/11 11:16:05	3.4181	11720.31	55.50	3.4181	11747.11	55.58
105	2024/05/11 11:18:05	3.4514	10754.70	48.24	3.4514	10784.02	48.34
106	2024/05/11 11:20:05	3.4847	9724.05	41.16	3.4847	9752.66	41.21
107	2024/05/11 11:22:05	3.5181	8629.67	34.62	3.5181	8659.85	34.65
108	2024/05/11 11:24:05	3.5514	7204.44	28.41	3.5514	7240.10	28.46
109	2024/05/11 11:26:05	3.5847	6380.60	21.37	3.5847	6395.48	21.44
110	2024/05/11 11:28:05	3.6181	5993.54	14.92	3.6181	6002.88	14.89
111	2024/05/11 11:30:05	3.6514	5828.23	9.50	3.6514	5833.39	9.50
112	2024/05/11 11:32:05	3.6847	5811.45	12.39	3.6847	5808.22	11.64
113	2024/05/11 11:34:05	3.7181	5809.91	15.03	3.7181	5807.98	14.22
114	2024/05/11 11:36:05	3.7514	5808.64	16.66	3.7514	5808.02	15.88
115	2024/05/11 11:38:05	3.7847	5791.89	17.89	3.7847	5792.16	17.02
116	2024/05/11 11:40:05	3.8181	2694.11	17.24	3.8181	2782.02	16.56
117	2024/05/11 11:42:05	3.8514	568.53	15.97	3.8514	592.64	15.25
118	2024/05/11 11:44:05	3.8847	417.59	16.10	3.8847	441.64	15.40
119	2024/05/11 11:46:05	3.9181	112.79	16.39	3.9181	116.71	15.42
120	2024/05/11 11:48:05	3.9514	112.93	17.21	3.9514	117.23	16.35
121	2024/05/11 11:50:05	3.9847	113.72	18.65	3.9847	117.18	17.88
122	2024/05/11 11:50:45	3.9958	113.29	19.08	3.9958	117.08	18.37

Print Filter: Approximately every 12 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80662	2024/05/11 YYYY/MM/DD	07:51:00 HH:mm:ss	1870.20 m
Top	80806	2024/05/11 YYYY/MM/DD	07:51:00 HH:mm:ss	1869.95 m

RELIANCE
OILFIELD SERVICES

Test Type Static Gradient

Company Name	**Enhance Energy Inc.**
Well Name	**Fairborne Clive 14-10-40-24**
Unique Well ID	**100/14-10-040-24W4/3**
Well License Number	**0024817**
Formation	**Nisku**
Start Test Date	**2024/04/19**
Final Test Date	**2024/04/19**

Prepared By	**Kennason Tech Services Inc.**
Qualified By	**Cory Strang**
Report Date	**2024/04/22**

Reliance OFS Canada Limited
2500 333 - 7th Ave SW
Calgary AB T2P 2Z1
403-475-1229
relianceofs.com

RELIANCE OILFIELD SERVICES

Pressure Survey Report

Static Gradient

Company Name Enhance Energy Inc.
Contact Kevin Meyer

Representative Russ Guenther

General Information

Well Name	Fairborne Clive 14-10-40-24
Unique Well ID	100/14-10-040-24W4/3
Surface Location	14-10-040-24W4
Well License Number	0024817
Well Type	Vertical

KB Elevation (SL)	908.30 m
CF Elevation (SL)	904.60 m
GL Elevation (SL)	904.60 m
KB-CF Offset	3.70 m
KB-GL Offset	3.70 m

Wellbore Information

Tubing OD	73.0 mm	Casing OD	139.7 mm
Tubing ID	62.0 mm	Casing ID	125.7 mm
Tubing Depth(Log KB)	1882.00000 m	Casing Depth(Log KB)	1944.00000 m
Tubing Depth(TVD KB)	1882.37000 m	Casing Depth(TVD KB)	1944.00000 m
Packer Depth(Log KB)	1876.60000 m	PBTD(Log KB)	1920.20 m
Packer Depth(TVD KB)	1876.70000 m	PBTD(TVD KB)	1920.20 m

Gross Completion Interval (GCI) as tested:

Top(Log KB)	1887.00 m	Top(TVD KB)	1887.00 m	Formation Name	Nisku
Bottom(Log KB)	1889.50 m	Bottom(TVD KB)	1889.50 m	Pool	
MPP(Log KB)	1888.25 m	MPP(TVD KB)	1888.25 m		

Test Information

Test Type	Static Gradient	Time/Date Well Shut-In	2024/03/24 12:00:00
Well Fluid Type	01 Oil	Shut-In Duration	620.4486 h
Test Purpose	Annual Pressure		

Surface Pressures:

Tubing Pressure Initial	432.00 kPa(a)	Casing Pressure Initial	93.00 kPa(a)
Tubing Pressure: Final	432.00 kPa(a)	Casing Pressure: Final	93.00 kPa(a)

Test Results

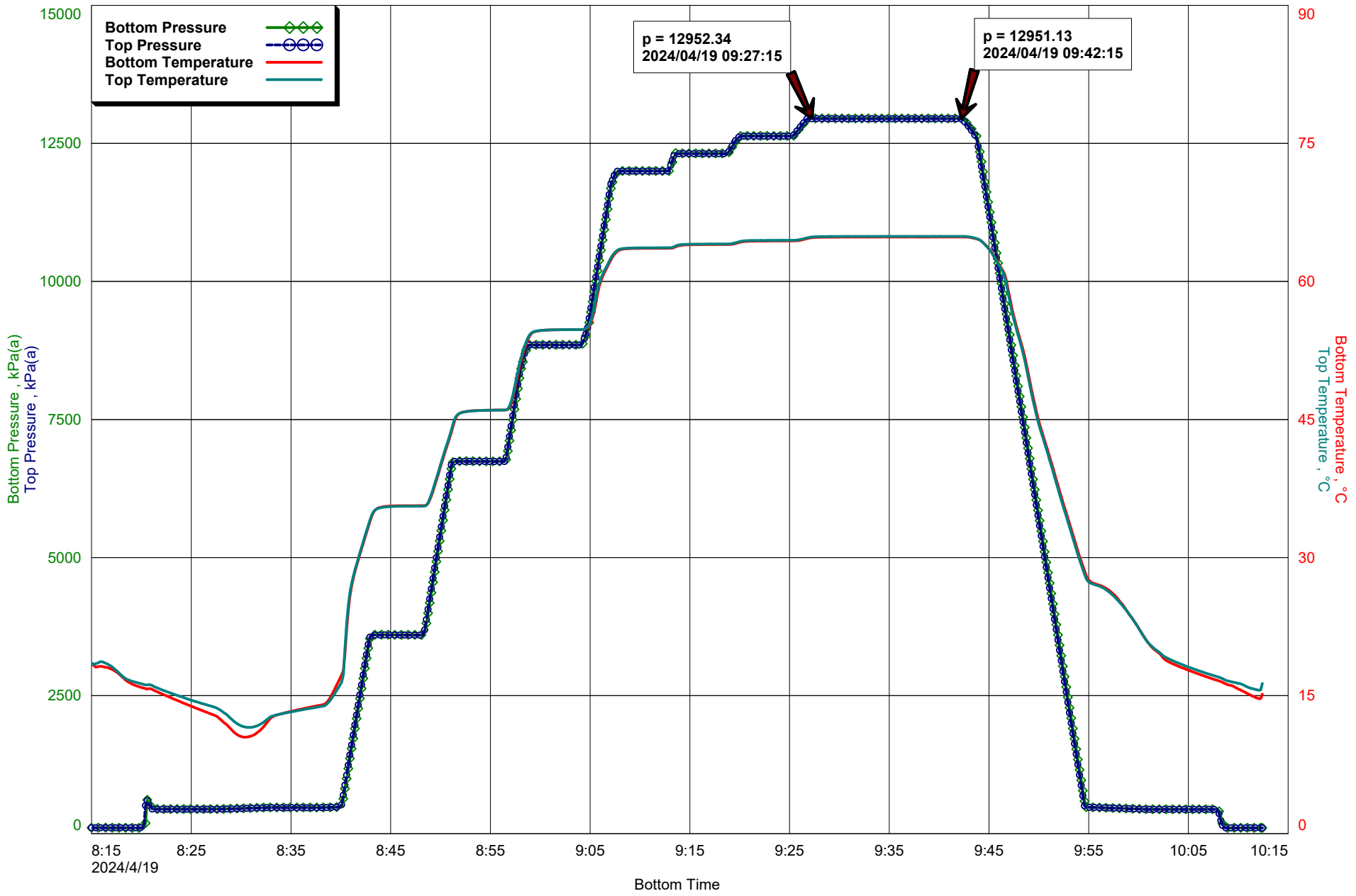
Gauge Serial Number Used in Summary	80703	Run Depth (Log KB)	1888.20 m
Calculated Pressure Corrected to MPP	12951.65 kPa(a)	Run Depth (TVD KB)	1888.20 m
Reservoir Temperature	64.83 °C	Pressure at Stop Depth	12951.13 kPa(a)
Liquid Level(TVD KB)	705.20 m	Temperature at Run Depth	64.8 °C

Test Remarks:

Enhance Energy Inc.
100/14-10-040-24W4/3
Start Test Date: 2024/04/19
Final Test Date: 2024/04/19

Fairborne Clive 14-10-40-24
Formation: Nisku

Static Gradient Plot



Static Gradient 2024/04/19

Company Name Enhance Energy Inc.

Well Name Fairborne Clive 14-10-40-24

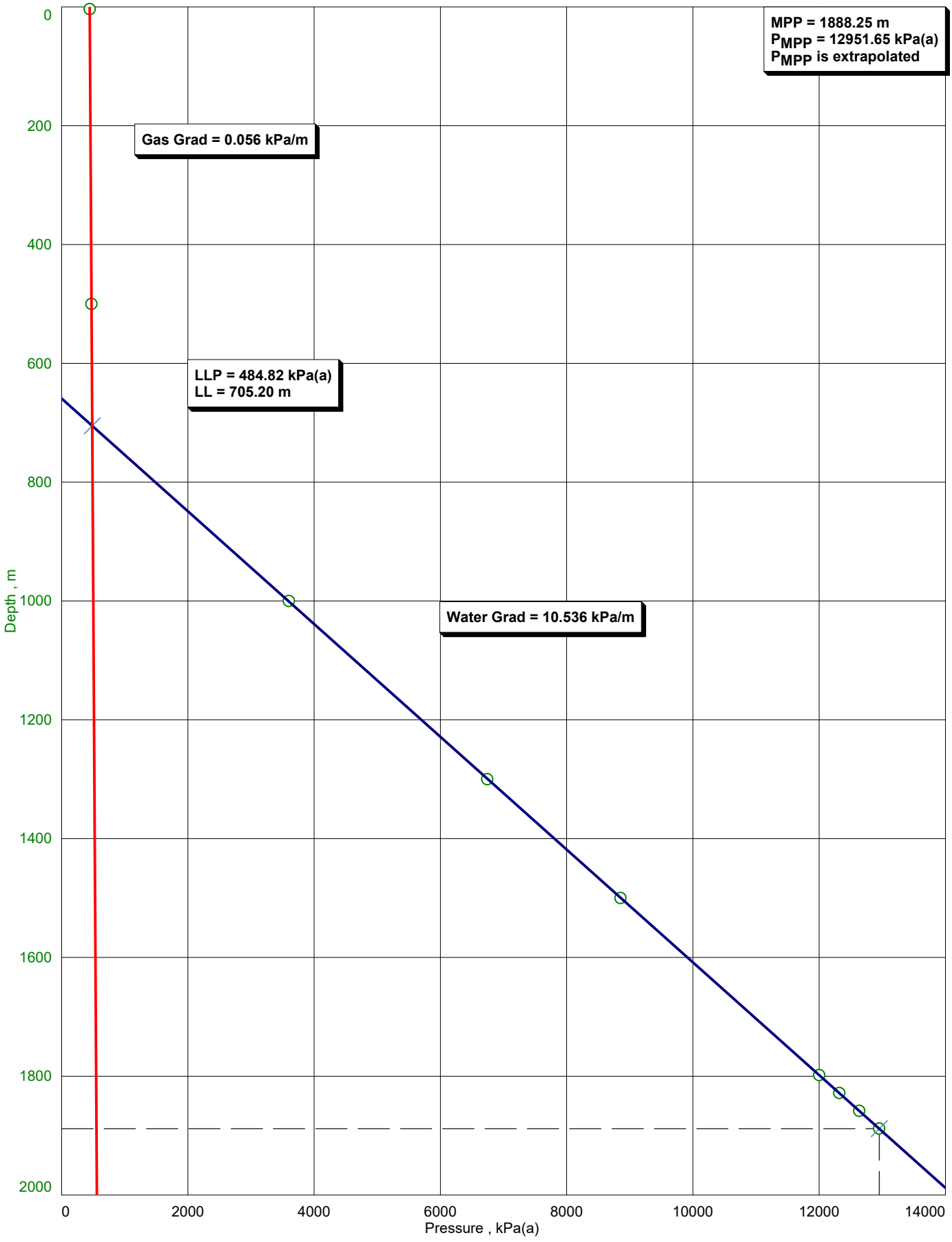
Unique Well ID	100/14-10-040-24W4/3	KB Elevation (SL)	908.30
		GL Elevation (SL)	904.60
Formation	Nisku	CF Elevation (SL)	904.60
Well Fluid Type	01 Oil		
Well License Number	0024817		
Well Type	Vertical		
Start Test Date	2024/04/19	Start Test Time	08:15:00
Final Test Date	2024/04/19	Final Test Time	10:12:25
Date Well Shut-In	2024/03/24	Time Well Shut-In	12:00:00

Top(TVD KB)	1887.00	m	Tubing Pressure: Initial	432.00	kPa(a)
Bottom(TVD KB)	1889.50	m	Casing Pressure: Initial	93.00	kPa(a)
MPP(TVD KB)	1888.25	m	Shut-In Duration	620.4486	h

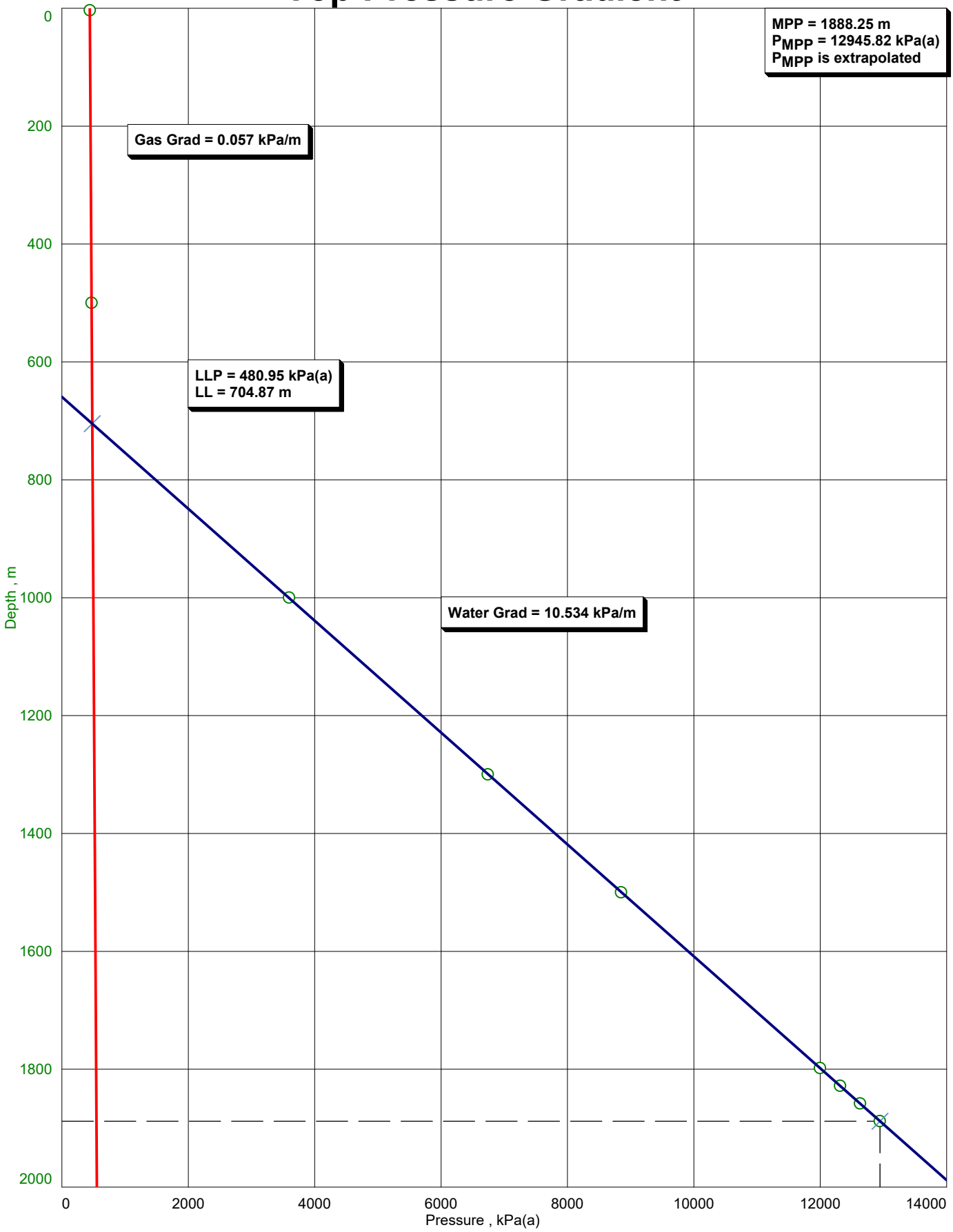
	Bottom		Top	
Gauge Name	Bottom		Top	
Gauge Serial Number	80703		80704	
Gauge Type	Strain		Strain	
Gauge Manufacturer	Spartek		Spartek	
Gauge Model	SS2500		SS2500	
Maximum Recorder Range	41370.00	kPa(a)	41370.00	kPa(a)
Resolution (% of Full Scale)	0.00030		0.00030	
Accuracy (% of Full Scale)	0.03000		0.03000	
Date of Last Calibration	2023/08/19		2023/08/19	
Gauge Start Date	2024/04/19	08:15:00	2024/04/19	08:15:00
Gauge Stop Date	2024/04/19	10:12:25	2024/04/19	10:12:25
Date Gauge On Bottom	2024/04/19	09:27:15	2024/04/19	09:27:15
Date Gauge Off Bottom	2024/04/19	09:42:15	2024/04/19	09:42:15
Run Depth (TVD KB)	1888.20	m	1887.95	m
Pressure at Run Depth	12951.13	kPa(a)	12942.66	kPa(a)
Pressure at MPP	12951.65	kPa(a)	12945.82	kPa(a)
Representative Gradient	10.536	kPa/m	10.534	kPa/m
Temperature at Run Depth	64.8	°C	64.9	°C
Liquid Level(TVD KB)	705.20	m	704.87	m

Bottom					Top					
Depth	Temp.	Pressure	Gradient	Gradient	Time	Depth	Temp.	Pressure	Gradient	Gradient
m	°C	kPa(a)	kPa/m	°C/m	HH:mm:ss	m	°C	kPa(a)	kPa/m	°C/m
3.70	13.03	445.25			08:26:55	3.45	13.82	441.28		
500.00	13.99	473.25	0.056	0.002	08:38:05	499.75	13.83	469.35	0.057	0.000
1000.00	35.64	3599.29	6.252	0.043	08:48:15	999.75	35.58	3594.33	6.250	0.044
1300.00	46.03	6743.00	10.479	0.035	08:56:25	1299.75	46.02	6739.45	10.484	0.035
1500.00	54.77	8852.69	10.548	0.044	09:04:05	1499.75	54.76	8848.36	10.545	0.044
1798.20	63.61	12001.50	10.559	0.030	09:12:45	1797.95	63.66	11996.55	10.557	0.030
1828.20	64.02	12319.41	10.597	0.014	09:18:35	1827.95	64.07	12313.80	10.575	0.014
1858.20	64.41	12635.25	10.528	0.013	09:25:05	1857.95	64.48	12629.89	10.536	0.013
1888.20	64.83	12951.13	10.529	0.014	09:42:15	1887.95	64.90	12942.66	10.426	0.014

Bottom Pressure Gradient



Top Pressure Gradient



Company Name Enhance Energy Inc.
Unique Well ID 100/14-10-040-24W4/3
Start Test Date 2024/04/19
Final Test Date 2024/04/19

Well Name Fairborne Clive 14-10-40-24
Formation Nisku

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
1	2024/04/19 08:15:00	0.0000	106.32	18.29	0.0000	106.26	18.45
2	2024/04/19 08:15:30	0.0083	108.95	18.10	0.0083	107.76	18.49
3	2024/04/19 08:16:05	0.0181	108.41	18.16	0.0181	107.79	18.67
4	2024/04/19 08:17:05	0.0347	106.28	17.85	0.0347	107.43	18.10
5	2024/04/19 08:18:05	0.0514	105.88	17.03	0.0514	106.58	17.13
6	2024/04/19 08:19:05	0.0681	105.72	16.25	0.0681	106.32	16.56
7	2024/04/19 08:20:05	0.0847	105.41	15.86	0.0847	105.59	16.26
8	2024/04/19 08:21:05	0.1014	449.77	15.68	0.1014	445.51	16.09
9	2024/04/19 08:22:05	0.1181	445.64	15.17	0.1181	442.15	15.62
10	2024/04/19 08:23:05	0.1347	445.58	14.71	0.1347	441.54	15.22
11	2024/04/19 08:24:05	0.1514	445.71	14.25	0.1514	441.47	14.84
12	2024/04/19 08:25:05	0.1681	445.26	13.81	0.1681	441.13	14.47
13	2024/04/19 08:26:05	0.1847	445.49	13.38	0.1847	441.29	14.14
14	2024/04/19 08:27:05	0.2014	445.24	12.96	0.2014	441.28	13.82
15	2024/04/19 08:28:05	0.2181	447.27	12.26	0.2181	443.22	13.29
16	2024/04/19 08:29:05	0.2347	451.96	11.24	0.2347	448.33	12.40
17	2024/04/19 08:30:05	0.2514	458.54	10.53	0.2514	454.58	11.69
18	2024/04/19 08:31:05	0.2681	464.81	10.63	0.2681	460.79	11.56
19	2024/04/19 08:32:05	0.2847	471.16	11.42	0.2847	466.81	11.99
20	2024/04/19 08:33:05	0.3014	474.25	12.65	0.3014	469.71	12.75
21	2024/04/19 08:34:05	0.3181	473.91	13.04	0.3181	469.30	13.03
22	2024/04/19 08:35:05	0.3347	473.69	13.30	0.3347	469.49	13.24
23	2024/04/19 08:36:05	0.3514	473.50	13.55	0.3514	469.43	13.45
24	2024/04/19 08:37:05	0.3681	473.41	13.78	0.3681	469.20	13.64
25	2024/04/19 08:38:05	0.3847	473.25	13.99	0.3847	469.35	13.83
26	2024/04/19 08:39:05	0.4014	478.42	15.06	0.4014	475.51	14.72
27	2024/04/19 08:40:05	0.4181	484.30	17.25	0.4181	520.88	16.47
28	2024/04/19 08:41:05	0.4347	1541.33	26.91	0.4347	1604.69	27.19
29	2024/04/19 08:42:05	0.4514	2629.56	30.97	0.4514	2694.90	31.13
30	2024/04/19 08:43:05	0.4681	3589.67	34.43	0.4681	3596.13	34.56
31	2024/04/19 08:44:05	0.4847	3602.77	35.48	0.4847	3597.48	35.43
32	2024/04/19 08:45:05	0.5014	3602.03	35.60	0.5014	3596.95	35.54
33	2024/04/19 08:46:05	0.5181	3601.08	35.63	0.5181	3595.97	35.57
34	2024/04/19 08:47:05	0.5347	3600.19	35.63	0.5347	3594.79	35.58
35	2024/04/19 08:48:05	0.5514	3599.41	35.64	0.5514	3594.33	35.58
36	2024/04/19 08:49:05	0.5681	4365.23	36.70	0.5681	4435.09	36.87
37	2024/04/19 08:50:05	0.5847	5489.03	40.18	0.5847	5560.71	40.40
38	2024/04/19 08:51:05	0.6014	6607.99	43.59	0.6014	6675.08	43.84
39	2024/04/19 08:52:05	0.6181	6744.19	45.75	0.6181	6740.53	45.74
40	2024/04/19 08:53:05	0.6347	6744.22	45.94	0.6347	6740.68	45.92
41	2024/04/19 08:54:05	0.6514	6744.03	45.99	0.6514	6740.01	45.98
42	2024/04/19 08:55:05	0.6681	6743.63	46.01	0.6681	6739.84	46.01
43	2024/04/19 08:56:05	0.6847	6743.26	46.02	0.6847	6739.35	46.02
44	2024/04/19 08:57:05	0.7014	7306.36	46.72	0.7014	7379.96	46.96
45	2024/04/19 08:58:05	0.7181	8422.20	51.44	0.7181	8463.89	51.74

Print Filter: Approximately every 6 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/19 YYYY/MM/DD	08:15:00 HH:mm:ss	1888.20 m
Top	80704	2024/04/19 YYYY/MM/DD	08:15:00 HH:mm:ss	1887.95 m

Company Name Enhance Energy Inc.
Unique Well ID 100/14-10-040-24W4/3
Start Test Date 2024/04/19
Final Test Date 2024/04/19

Well Name Fairborne Clive 14-10-40-24
Formation Nisku

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
46	2024/04/19 08:59:05	0.7347	8852.99	54.30	0.7347	8849.10	54.38
47	2024/04/19 09:00:05	0.7514	8853.80	54.67	0.7514	8849.86	54.67
48	2024/04/19 09:01:05	0.7681	8853.70	54.74	0.7681	8849.40	54.74
49	2024/04/19 09:02:05	0.7847	8852.84	54.76	0.7847	8849.22	54.76
50	2024/04/19 09:03:05	0.8014	8852.79	54.77	0.8014	8848.60	54.77
51	2024/04/19 09:04:05	0.8181	8852.69	54.77	0.8181	8851.13	54.77
52	2024/04/19 09:05:05	0.8347	9445.11	55.55	0.8347	9519.69	55.80
53	2024/04/19 09:06:05	0.8514	10565.03	60.07	0.8514	10638.72	60.33
54	2024/04/19 09:07:05	0.8681	11685.76	62.34	0.8681	11758.54	62.54
55	2024/04/19 09:08:05	0.8847	12000.58	63.46	0.8847	11995.98	63.54
56	2024/04/19 09:09:05	0.9014	12001.58	63.58	0.9014	11996.68	63.63
57	2024/04/19 09:10:05	0.9181	12001.64	63.60	0.9181	11997.23	63.65
58	2024/04/19 09:11:05	0.9347	12001.66	63.60	0.9347	11997.10	63.65
59	2024/04/19 09:12:05	0.9514	12001.24	63.61	0.9514	11996.76	63.66
60	2024/04/19 09:13:05	0.9681	12044.87	63.61	0.9681	12099.93	63.67
61	2024/04/19 09:14:05	0.9847	12319.65	63.92	0.9847	12314.81	64.00
62	2024/04/19 09:15:05	1.0014	12319.69	63.99	1.0014	12314.59	64.04
63	2024/04/19 09:16:05	1.0181	12319.42	64.01	1.0181	12314.54	64.06
64	2024/04/19 09:17:05	1.0347	12319.44	64.01	1.0347	12314.31	64.07
65	2024/04/19 09:18:05	1.0514	12319.47	64.02	1.0514	12314.05	64.07
66	2024/04/19 09:19:05	1.0681	12386.75	64.02	1.0681	12402.67	64.09
67	2024/04/19 09:20:05	1.0847	12632.22	64.27	1.0847	12630.50	64.35
68	2024/04/19 09:21:05	1.1014	12635.58	64.37	1.1014	12630.10	64.44
69	2024/04/19 09:22:05	1.1181	12635.75	64.39	1.1181	12630.11	64.46
70	2024/04/19 09:23:05	1.1347	12635.60	64.40	1.1347	12630.40	64.46
71	2024/04/19 09:24:05	1.1514	12635.17	64.40	1.1514	12629.99	64.47
72	2024/04/19 09:25:05	1.1681	12635.25	64.41	1.1681	12629.89	64.48
73	2024/04/19 09:26:05	1.1847	12785.76	64.48	1.1847	12796.58	64.56
74	2024/04/19 09:27:05	1.2014	12952.74	64.73	1.2014	12947.06	64.81
75	2024/04/19 09:28:05	1.2181	12952.41	64.80	1.2181	12947.01	64.87
76	2024/04/19 09:29:05	1.2347	12952.12	64.81	1.2347	12947.21	64.88
77	2024/04/19 09:30:05	1.2514	12952.25	64.82	1.2514	12946.46	64.88
78	2024/04/19 09:31:05	1.2681	12952.23	64.82	1.2681	12946.78	64.89
79	2024/04/19 09:32:05	1.2847	12952.18	64.82	1.2847	12946.68	64.89
80	2024/04/19 09:33:05	1.3014	12951.59	64.82	1.3014	12946.43	64.89
81	2024/04/19 09:34:05	1.3181	12951.79	64.83	1.3181	12946.43	64.89
82	2024/04/19 09:35:05	1.3347	12951.45	64.83	1.3347	12945.97	64.89
83	2024/04/19 09:36:05	1.3514	12951.55	64.83	1.3514	12945.74	64.89
84	2024/04/19 09:37:05	1.3681	12951.64	64.83	1.3681	12946.22	64.90
85	2024/04/19 09:38:05	1.3847	12951.62	64.83	1.3847	12946.09	64.90
86	2024/04/19 09:39:05	1.4014	12951.62	64.83	1.4014	12945.97	64.90
87	2024/04/19 09:40:05	1.4181	12951.21	64.83	1.4181	12946.07	64.90
88	2024/04/19 09:41:05	1.4347	12951.48	64.83	1.4347	12945.88	64.90
89	2024/04/19 09:42:05	1.4514	12951.31	64.83	1.4514	12946.01	64.90
90	2024/04/19 09:43:05	1.4681	12802.03	64.78	1.4681	12778.90	64.83

Print Filter: Approximately every 6 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/19 YYYY/MM/DD	08:15:00 HH:mm:ss	1888.20 m
Top	80704	2024/04/19 YYYY/MM/DD	08:15:00 HH:mm:ss	1887.95 m

Company Name Enhance Energy Inc.
Unique Well ID 100/14-10-040-24W4/3
Start Test Date 2024/04/19
Final Test Date 2024/04/19

Well Name Fairborne Clive 14-10-40-24
Formation Nisku

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
91	2024/04/19 09:44:05	1.4847	12348.10	64.50	1.4847	12262.07	64.51
92	2024/04/19 09:45:05	1.5014	11253.90	63.45	1.5014	11164.97	63.39
93	2024/04/19 09:46:05	1.5181	10148.45	61.72	1.5181	10059.25	61.62
94	2024/04/19 09:47:05	1.5347	9035.51	58.28	1.5347	8945.49	57.87
95	2024/04/19 09:48:05	1.5514	7917.27	53.84	1.5514	7826.04	53.56
96	2024/04/19 09:49:05	1.5681	6792.54	49.23	1.5681	6702.27	48.78
97	2024/04/19 09:50:05	1.5847	5668.14	44.51	1.5847	5576.64	44.17
98	2024/04/19 09:51:05	1.6014	4537.94	40.94	1.6014	4446.40	40.60
99	2024/04/19 09:52:05	1.6181	3411.62	37.23	1.6181	3319.22	36.86
100	2024/04/19 09:53:05	1.6347	2280.25	33.68	1.6347	2188.04	33.31
101	2024/04/19 09:54:05	1.6514	1155.43	30.13	1.6514	1062.72	29.76
102	2024/04/19 09:55:05	1.6681	478.59	27.46	1.6681	476.88	27.28
103	2024/04/19 09:56:05	1.6847	472.51	26.99	1.6847	470.58	26.88
104	2024/04/19 09:57:05	1.7014	466.09	26.40	1.7014	464.37	26.23
105	2024/04/19 09:58:05	1.7181	459.84	25.29	1.7181	458.22	25.16
106	2024/04/19 09:59:05	1.7347	453.20	23.80	1.7347	451.42	23.82
107	2024/04/19 10:00:05	1.7514	446.77	22.21	1.7514	444.38	22.19
108	2024/04/19 10:01:05	1.7681	442.49	20.58	1.7681	440.41	20.61
109	2024/04/19 10:02:05	1.7847	441.37	19.60	1.7847	439.73	19.71
110	2024/04/19 10:03:05	1.8014	440.72	18.64	1.8014	439.85	18.97
111	2024/04/19 10:04:05	1.8181	441.02	18.16	1.8181	439.94	18.49
112	2024/04/19 10:05:05	1.8347	441.19	17.73	1.8347	439.99	18.07
113	2024/04/19 10:06:05	1.8514	441.03	17.32	1.8514	440.21	17.68
114	2024/04/19 10:07:05	1.8681	441.40	16.95	1.8681	440.25	17.33
115	2024/04/19 10:08:05	1.8847	403.86	16.59	1.8847	361.39	16.99
116	2024/04/19 10:09:05	1.9014	105.60	16.15	1.9014	105.51	16.56
117	2024/04/19 10:10:05	1.9181	105.75	15.69	1.9181	105.38	16.32
118	2024/04/19 10:11:05	1.9347	105.96	15.13	1.9347	105.65	15.86
119	2024/04/19 10:12:05	1.9514	105.81	14.67	1.9514	105.37	15.58
120	2024/04/19 10:12:25	1.9569	104.18	15.16	1.9569	102.32	16.32

Print Filter: Approximately every 6 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/19 YYYY/MM/DD	08:15:00 HH:mm:ss	1888.20 m
Top	80704	2024/04/19 YYYY/MM/DD	08:15:00 HH:mm:ss	1887.95 m

RELIANCE
OILFIELD SERVICES

Test Type Static Gradient

Company Name	**Enhance Energy Inc.**
Well Name	**EnhanceEnergy Clive 16-2-40-24**
Unique Well ID	**100/16-02-040-24W4/0**
Well License Number	**0119108**
Formation	**Nisku**
Start Test Date	**2024/04/18**
Final Test Date	**2024/04/18**

Prepared By	**Kennason Tech Services Inc.**
Qualified By	**Cory Strang**
Report Date	**2024/04/19**

Reliance OFS Canada Limited
2500 333 - 7th Ave SW
Calgary AB T2P 2Z1
403-475-1229
relianceofs.com

RELIANCE OILFIELD SERVICES

Pressure Survey Report

Static Gradient

Company Name Enhance Energy Inc.
Contact Kevin Meyer
Representative Russ Guenther

General Information

Well Name	EnhanceEnergy Clive 16-2-40-24	KB Elevation (SL)	915.00 m
Unique Well ID	100/16-02-040-24W4/0	CF Elevation (SL)	910.80 m
Surface Location	16-02-040-24W4	GL Elevation (SL)	910.80 m
Well License Number	0119108	KB-CF Offset	4.20 m
Well Type	Vertical	KB-GL Offset	4.20 m

Wellbore Information

Tubing OD	73.0 mm	Casing OD	177.8 mm
Tubing ID	62.0 mm	Casing ID	161.7 mm
Tubing Depth(Log KB)	1879.33000 m	Casing Depth(Log KB)	1970.00000 m
Tubing Depth(TVD KB)	1879.33000 m	Casing Depth(TVD KB)	1970.00000 m
Packer Depth(Log KB)	1873.54000 m	PBTD(Log KB)	1970.00 m
Packer Depth(TVD KB)	1873.54000 m	PBTD(TVD KB)	1970.00 m

Gross Completion Interval (GCI) as tested:

Top(Log KB)	1881.50 m	Top(TVD KB)	1881.50 m	Formation Name	Nisku
Bottom(Log KB)	1888.50 m	Bottom(TVD KB)	1888.50 m	Pool	
MPP(Log KB)	1885.00 m	MPP(TVD KB)	1885.00 m		

Test Information

Test Type	Static Gradient	Date/Time Gauge on Bottom	2024/04/18 13:03:05
Well Fluid Type	01 Oil	Date/Time Gauge Off Bottom	2024/04/18 13:18:05
Test Purpose	Annual Pressure	Time/Date Well Shut-In	2024/03/18 12:00:00
		Shut-In Duration	745.3014 h

Surface Pressures:

Tubing Pressure Initial	1173.00 kPa(a)	Casing Pressure Initial	326.00 kPa(a)
Tubing Pressure: Final	1173.00 kPa(a)	Casing Pressure: Final	326.00 kPa(a)

Test Results

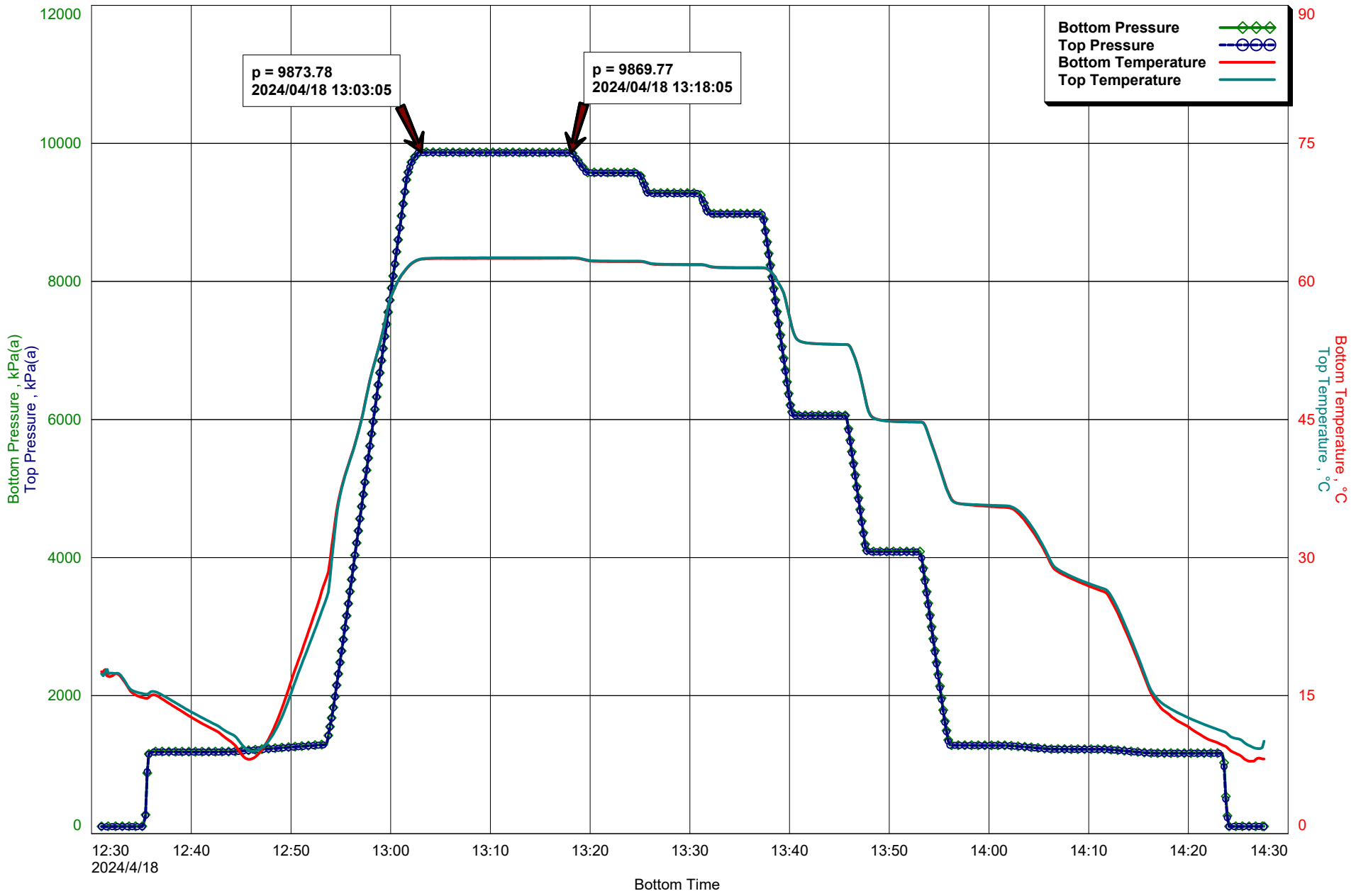
Gauge Serial Number Used in Summary	80703		Run Depth (Log KB)	1885.00	m
Calculated Pressure Corrected to MPP	9869.77	kPa(a)	Run Depth (TVD KB)	1885.00	m
Reservoir Temperature	62.52	°C	Pressure at Stop Depth	9869.77	kPa(a)
Liquid Level(TVD KB)	1016.68	m	Temperature at Run Depth	62.5	°C

Test Remarks:

Enhance Energy Inc.
100/16-02-040-24W4/0
Start Test Date: 2024/04/18
Final Test Date: 2024/04/18

EnhanceEnergy Clive 16-2-40-24
Formation: Nisku

Static Gradient Plot



Static Gradient 2024/04/18

Company Name Enhance Energy Inc.

Well Name EnhanceEnergy Clive 16-2-40-24

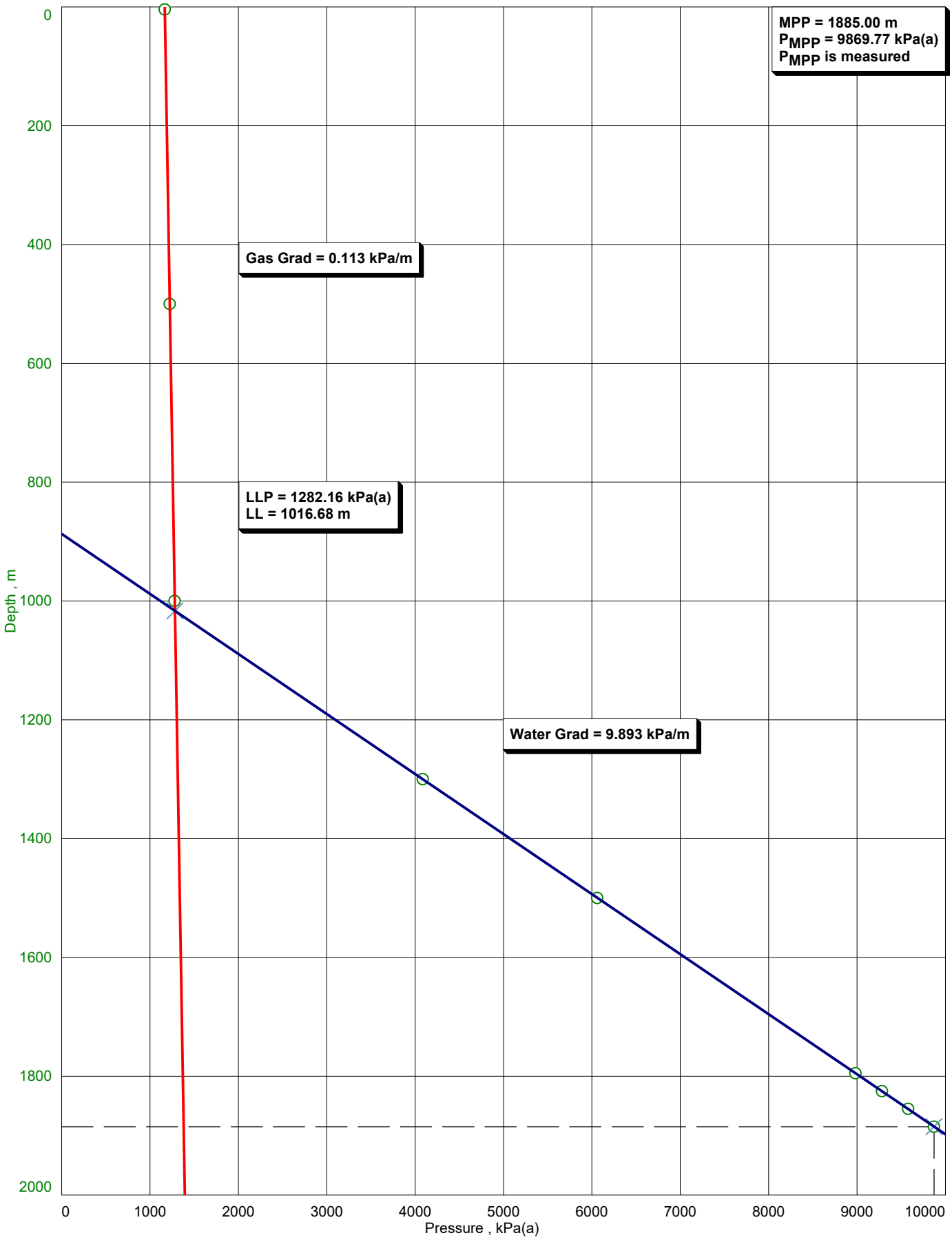
Unique Well ID	100/16-02-040-24W4/0	KB Elevation (SL)	915.00
		GL Elevation (SL)	910.80
Formation	Nisku	CF Elevation (SL)	910.80
Well Fluid Type	01 Oil		
Well License Number	0119108		
Well Type	Vertical		
Start Test Date	2024/04/18	Start Test Time	12:31:00
Final Test Date	2024/04/18	Final Test Time	14:27:35
Date Well Shut-In	2024/03/18	Time Well Shut-In	12:00:00

Top(TVD KB)	1881.50	m	Tubing Pressure: Initial	1173.00	kPa(a)
Bottom(TVD KB)	1888.50	m	Casing Pressure: Initial	326.00	kPa(a)
MPP(TVD KB)	1885.00	m	Shut-In Duration	745.3014	h

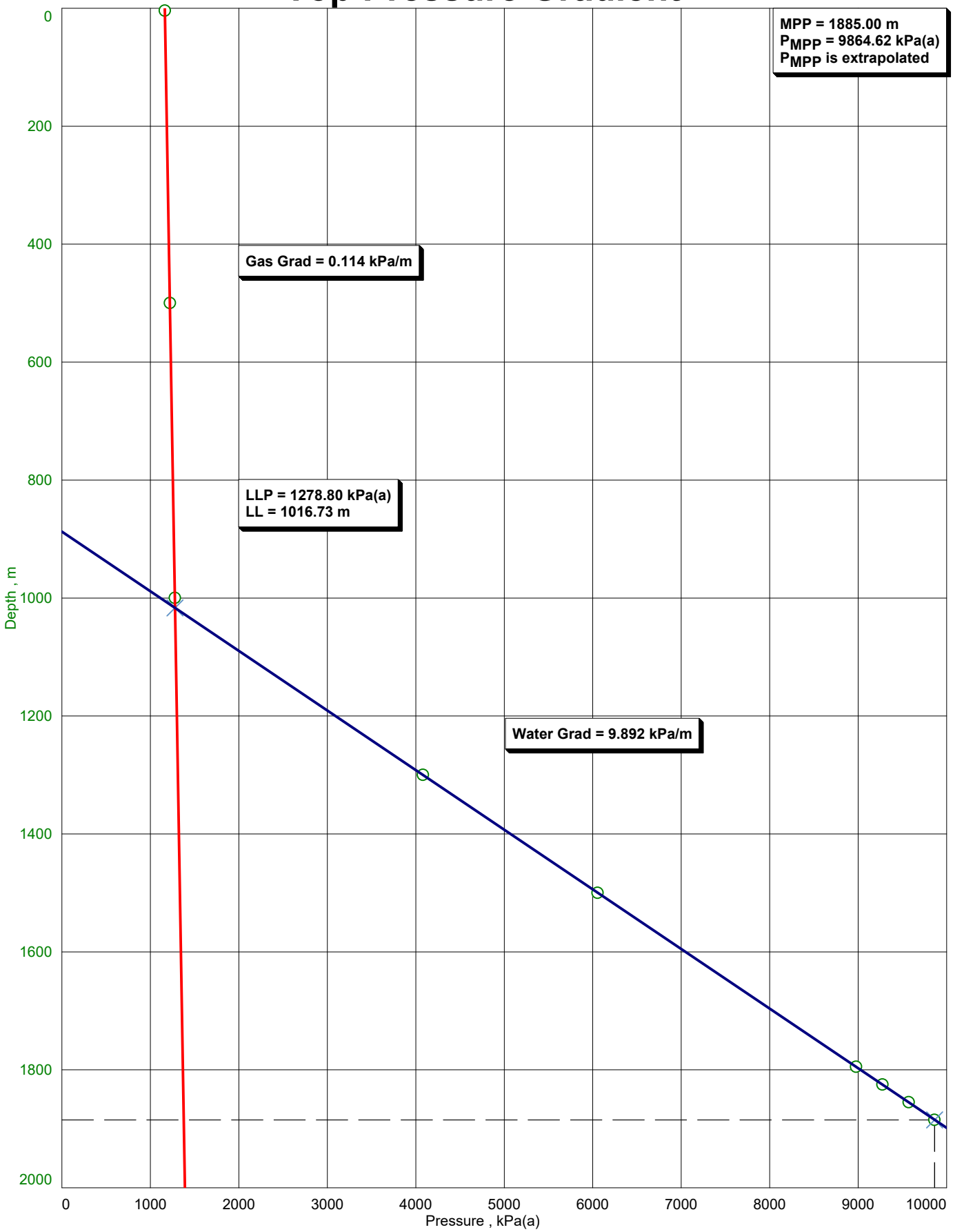
	Bottom		Top	
Gauge Name	Bottom		Top	
Gauge Serial Number	80703		80704	
Gauge Type	Strain		Strain	
Gauge Manufacturer	Spartek		Spartek	
Gauge Model	SS2500		SS2500	
Maximum Recorder Range	41370.00	kPa(a)	41370.00	kPa(a)
Resolution (% of Full Scale)	0.00030		0.00030	
Accuracy (% of Full Scale)	0.03000		0.03000	
Date of Last Calibration	2023/08/19		2023/08/19	
Gauge Start Date	2024/04/18	12:31:00	2024/04/18	12:31:00
Gauge Stop Date	2024/04/18	14:27:35	2024/04/18	14:27:35
Date Gauge On Bottom	2024/04/18	13:03:05	2024/04/18	13:03:05
Date Gauge Off Bottom	2024/04/18	13:18:05	2024/04/18	13:18:05
Run Depth (TVD KB)	1885.00	m	1884.75	m
Pressure at Run Depth	9869.77	kPa(a)	9862.14	kPa(a)
Pressure at MPP	9869.77	kPa(a)	9864.62	kPa(a)
Representative Gradient		kPa/m	9.892	kPa/m
Temperature at Run Depth	62.5	°C	62.6	°C
Liquid Level(TVD KB)	1016.68	m	1016.73	m

Bottom						Top				
Depth	Temp.	Pressure	Gradient	Gradient	Time	Depth	Temp.	Pressure	Gradient	Gradient
m	°C	kPa(a)	kPa/m	°C/m	HH:mm:ss	m	°C	kPa(a)	kPa/m	°C/m
1885.00	62.52	9869.77			13:18:05	1884.75	62.58	9862.14		
1855.00	62.16	9578.25	9.717	0.012	13:24:45	1854.75	62.21	9570.98	9.705	0.012
1825.00	61.81	9281.34	9.897	0.012	13:30:55	1824.75	61.85	9274.10	9.896	0.012
1795.00	61.47	8982.51	9.961	0.011	13:37:05	1794.75	61.51	8975.67	9.948	0.011
1500.00	53.15	6060.65	9.905	0.028	13:45:35	1499.75	53.15	6054.03	9.904	0.028
1300.00	44.72	4086.91	9.869	0.042	13:53:05	1299.75	44.71	4080.11	9.870	0.042
1000.00	35.46	1280.06	9.356	0.031	14:01:25	999.75	35.64	1276.54	9.345	0.030
500.00	26.33	1223.94	0.112	0.018	14:11:25	499.75	26.71	1220.69	0.112	0.018
4.20	9.80	1167.05	0.115	0.033	14:23:05	3.95	11.27	1163.41	0.116	0.031

Bottom Pressure Gradient



Top Pressure Gradient



Company Name Enhance Energy Inc.
Unique Well ID 100/16-02-040-24W4/0
Start Test Date 2024/04/18
Final Test Date 2024/04/18

Well Name EnhanceEnergy Clive 16-2-40-24
Formation Nisku

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
1	2024/04/18 12:31:00	0.0000	105.90	17.59	0.0000	101.41	17.38
2	2024/04/18 12:31:30	0.0083	106.90	17.21	0.0083	98.60	17.76
3	2024/04/18 12:32:05	0.0181	107.18	17.14	0.0181	101.02	17.43
4	2024/04/18 12:33:05	0.0347	106.77	16.83	0.0347	100.84	16.98
5	2024/04/18 12:34:05	0.0514	106.62	15.30	0.0514	100.79	15.55
6	2024/04/18 12:35:05	0.0681	106.82	14.80	0.0681	100.69	15.23
7	2024/04/18 12:36:05	0.0847	1188.52	15.07	0.0847	1181.98	15.46
8	2024/04/18 12:37:05	0.1014	1189.05	14.64	0.1014	1181.83	15.06
9	2024/04/18 12:38:05	0.1181	1188.71	13.94	0.1181	1182.32	14.44
10	2024/04/18 12:39:05	0.1347	1188.44	13.27	0.1347	1182.11	13.80
11	2024/04/18 12:40:05	0.1514	1188.36	12.59	0.1514	1181.82	13.18
12	2024/04/18 12:41:05	0.1681	1188.05	11.97	0.1681	1181.99	12.60
13	2024/04/18 12:42:05	0.1847	1187.74	11.40	0.1847	1181.64	12.03
14	2024/04/18 12:43:05	0.2014	1188.90	10.71	0.2014	1182.82	11.39
15	2024/04/18 12:44:05	0.2181	1190.73	9.89	0.2181	1184.57	10.79
16	2024/04/18 12:45:05	0.2347	1201.41	8.57	0.2347	1195.58	9.67
17	2024/04/18 12:46:05	0.2514	1212.79	8.14	0.2514	1206.97	8.95
18	2024/04/18 12:47:05	0.2681	1224.21	9.12	0.2681	1218.23	9.33
19	2024/04/18 12:48:05	0.2847	1235.68	10.98	0.2847	1229.17	10.57
20	2024/04/18 12:49:05	0.3014	1246.50	13.59	0.3014	1240.49	12.64
21	2024/04/18 12:50:05	0.3181	1257.54	16.77	0.3181	1251.37	15.48
22	2024/04/18 12:51:05	0.3347	1268.16	19.82	0.3347	1262.21	18.43
23	2024/04/18 12:52:05	0.3514	1279.08	22.99	0.3514	1272.88	21.24
24	2024/04/18 12:53:05	0.3681	1289.95	26.32	0.3681	1283.76	24.15
25	2024/04/18 12:54:05	0.3847	1677.10	31.14	0.3847	1672.19	29.64
26	2024/04/18 12:55:05	0.4014	2647.86	37.66	0.4014	2645.34	37.49
27	2024/04/18 12:56:05	0.4181	3680.62	41.18	0.4181	3680.47	41.11
28	2024/04/18 12:57:05	0.4347	4738.51	45.06	0.4347	4738.20	45.00
29	2024/04/18 12:58:05	0.4514	5793.23	50.00	0.4514	5791.87	49.97
30	2024/04/18 12:59:05	0.4681	6854.15	54.01	0.4681	6854.72	54.00
31	2024/04/18 13:00:05	0.4847	7905.15	58.48	0.4847	7903.81	58.50
32	2024/04/18 13:01:05	0.5014	8950.16	60.66	0.5014	8950.10	60.70
33	2024/04/18 13:02:05	0.5181	9727.74	61.91	0.5181	9722.01	61.97
34	2024/04/18 13:03:05	0.5347	9873.78	62.41	0.5347	9865.45	62.46
35	2024/04/18 13:04:05	0.5514	9873.73	62.49	0.5514	9865.90	62.53
36	2024/04/18 13:05:05	0.5681	9873.58	62.50	0.5681	9865.56	62.55
37	2024/04/18 13:06:05	0.5847	9873.40	62.50	0.5847	9865.17	62.56
38	2024/04/18 13:07:05	0.6014	9872.70	62.50	0.6014	9864.63	62.57
39	2024/04/18 13:08:05	0.6181	9872.87	62.50	0.6181	9864.80	62.57
40	2024/04/18 13:09:05	0.6347	9872.22	62.50	0.6347	9864.12	62.58
41	2024/04/18 13:10:05	0.6514	9871.61	62.50	0.6514	9864.07	62.58
42	2024/04/18 13:11:05	0.6681	9871.69	62.50	0.6681	9863.56	62.58
43	2024/04/18 13:12:05	0.6847	9871.28	62.50	0.6847	9863.23	62.58
44	2024/04/18 13:13:05	0.7014	9871.15	62.51	0.7014	9863.05	62.58
45	2024/04/18 13:14:05	0.7181	9870.50	62.51	0.7181	9863.14	62.58

Print Filter: Approximately every 6 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/18 YYYY/MM/DD	12:31:00 HH:mm:ss	1885.00 m
Top	80704	2024/04/18 YYYY/MM/DD	12:31:00 HH:mm:ss	1884.75 m

Company Name Enhance Energy Inc.
Unique Well ID 100/16-02-040-24W4/0
Start Test Date 2024/04/18
Final Test Date 2024/04/18

Well Name EnhanceEnergy Clive 16-2-40-24
Formation Nisku

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
46	2024/04/18 13:15:05	0.7347	9870.15	62.51	0.7347	9862.89	62.58
47	2024/04/18 13:16:05	0.7514	9870.20	62.52	0.7514	9862.28	62.58
48	2024/04/18 13:17:05	0.7681	9869.66	62.52	0.7681	9861.85	62.58
49	2024/04/18 13:18:05	0.7847	9869.77	62.52	0.7847	9862.14	62.58
50	2024/04/18 13:19:05	0.8014	9691.55	62.44	0.8014	9683.94	62.49
51	2024/04/18 13:20:05	0.8181	9579.36	62.21	0.8181	9572.46	62.26
52	2024/04/18 13:21:05	0.8347	9579.13	62.17	0.8347	9571.69	62.22
53	2024/04/18 13:22:05	0.8514	9579.14	62.17	0.8514	9571.62	62.21
54	2024/04/18 13:23:05	0.8681	9578.56	62.16	0.8681	9571.36	62.21
55	2024/04/18 13:24:05	0.8847	9578.40	62.16	0.8847	9571.10	62.21
56	2024/04/18 13:25:05	0.9014	9527.40	62.15	0.9014	9516.83	62.20
57	2024/04/18 13:26:05	0.9181	9282.18	61.91	0.9181	9274.73	61.95
58	2024/04/18 13:27:05	0.9347	9282.24	61.84	0.9347	9274.92	61.88
59	2024/04/18 13:28:05	0.9514	9281.82	61.82	0.9514	9274.66	61.86
60	2024/04/18 13:29:05	0.9681	9281.70	61.81	0.9681	9274.68	61.85
61	2024/04/18 13:30:05	0.9847	9281.37	61.80	0.9847	9274.32	61.85
62	2024/04/18 13:31:05	1.0014	9250.67	61.80	1.0014	9240.96	61.85
63	2024/04/18 13:32:05	1.0181	8983.07	61.59	1.0181	8976.85	61.63
64	2024/04/18 13:33:05	1.0347	8983.68	61.49	1.0347	8977.10	61.54
65	2024/04/18 13:34:05	1.0514	8983.42	61.48	1.0514	8976.57	61.52
66	2024/04/18 13:35:05	1.0681	8982.74	61.47	1.0681	8975.61	61.51
67	2024/04/18 13:36:05	1.0847	8982.73	61.47	1.0847	8976.06	61.51
68	2024/04/18 13:37:05	1.1014	8982.51	61.47	1.1014	8975.67	61.51
69	2024/04/18 13:38:05	1.1181	8236.70	61.09	1.1181	8217.73	61.11
70	2024/04/18 13:39:05	1.1347	7224.88	59.47	1.1347	7206.06	59.47
71	2024/04/18 13:40:05	1.1514	6211.13	55.77	1.1514	6198.91	55.71
72	2024/04/18 13:41:05	1.1681	6062.47	53.48	1.1681	6055.60	53.49
73	2024/04/18 13:42:05	1.1847	6061.95	53.28	1.1847	6055.05	53.29
74	2024/04/18 13:43:05	1.2014	6061.50	53.21	1.2014	6054.52	53.21
75	2024/04/18 13:44:05	1.2181	6061.00	53.17	1.2181	6054.45	53.19
76	2024/04/18 13:45:05	1.2347	6060.99	53.15	1.2347	6054.17	53.16
77	2024/04/18 13:46:05	1.2514	5699.65	52.92	1.2514	5679.07	52.90
78	2024/04/18 13:47:05	1.2681	4695.81	49.80	1.2681	4675.52	49.72
79	2024/04/18 13:48:05	1.2847	4089.26	45.55	1.2847	4082.59	45.49
80	2024/04/18 13:49:05	1.3014	4087.91	44.96	1.3014	4081.21	44.93
81	2024/04/18 13:50:05	1.3181	4087.78	44.82	1.3181	4080.60	44.80
82	2024/04/18 13:51:05	1.3347	4087.40	44.76	1.3347	4080.51	44.76
83	2024/04/18 13:52:05	1.3514	4087.03	44.74	1.3514	4080.14	44.73
84	2024/04/18 13:53:05	1.3681	4086.91	44.72	1.3681	4080.11	44.71
85	2024/04/18 13:54:05	1.3847	3165.80	42.90	1.3847	3144.78	42.82
86	2024/04/18 13:55:05	1.4014	2135.95	39.73	1.4014	2112.55	39.63
87	2024/04/18 13:56:05	1.4181	1282.60	36.69	1.4181	1279.47	36.58
88	2024/04/18 13:57:05	1.4347	1281.19	35.84	1.4347	1278.01	35.86
89	2024/04/18 13:58:05	1.4514	1280.96	35.72	1.4514	1277.52	35.77
90	2024/04/18 13:59:05	1.4681	1280.64	35.62	1.4681	1277.12	35.72

Print Filter: Approximately every 6 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/18 YYYY/MM/DD	12:31:00 HH:mm:ss	1885.00 m
Top	80704	2024/04/18 YYYY/MM/DD	12:31:00 HH:mm:ss	1884.75 m

Company Name Enhance Energy Inc.
Unique Well ID 100/16-02-040-24W4/0
Start Test Date 2024/04/18
Final Test Date 2024/04/18

Well Name EnhanceEnergy Clive 16-2-40-24
Formation Nisku

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
91	2024/04/18 14:00:05	1.4847	1280.37	35.55	1.4847	1277.12	35.68
92	2024/04/18 14:01:05	1.5014	1280.18	35.48	1.5014	1276.67	35.65
93	2024/04/18 14:02:05	1.5181	1275.66	35.40	1.5181	1271.83	35.57
94	2024/04/18 14:03:05	1.5347	1264.23	34.65	1.5347	1260.89	34.95
95	2024/04/18 14:04:05	1.5514	1252.05	33.29	1.5514	1248.55	33.68
96	2024/04/18 14:05:05	1.5681	1239.64	31.66	1.5681	1235.82	31.96
97	2024/04/18 14:06:05	1.5847	1227.20	29.60	1.5847	1223.48	29.86
98	2024/04/18 14:07:05	1.6014	1225.01	28.35	1.6014	1221.96	28.61
99	2024/04/18 14:08:05	1.6181	1224.96	27.81	1.6181	1221.48	28.04
100	2024/04/18 14:09:05	1.6347	1224.60	27.33	1.6347	1221.31	27.57
101	2024/04/18 14:10:05	1.6514	1224.30	26.88	1.6514	1220.75	27.15
102	2024/04/18 14:11:05	1.6681	1224.25	26.46	1.6681	1220.80	26.77
103	2024/04/18 14:12:05	1.6847	1218.74	25.66	1.6847	1215.28	26.11
104	2024/04/18 14:13:05	1.7014	1206.98	23.58	1.7014	1203.71	24.07
105	2024/04/18 14:14:05	1.7181	1194.22	21.10	1.7181	1190.93	21.54
106	2024/04/18 14:15:05	1.7347	1181.35	18.46	1.7347	1178.39	18.85
107	2024/04/18 14:16:05	1.7514	1169.54	15.68	1.7514	1166.76	15.97
108	2024/04/18 14:17:05	1.7681	1166.79	13.89	1.7681	1163.74	14.43
109	2024/04/18 14:18:05	1.7847	1166.57	12.94	1.7847	1163.52	13.66
110	2024/04/18 14:19:05	1.8014	1167.01	12.15	1.8014	1163.56	13.06
111	2024/04/18 14:20:05	1.8181	1166.73	11.54	1.8181	1163.21	12.55
112	2024/04/18 14:21:05	1.8347	1166.88	10.83	1.8347	1163.33	12.09
113	2024/04/18 14:22:05	1.8514	1166.96	10.21	1.8514	1163.33	11.66
114	2024/04/18 14:23:05	1.8681	1167.05	9.80	1.8681	1163.41	11.27
115	2024/04/18 14:24:05	1.8847	105.95	9.16	1.8847	103.46	10.67
116	2024/04/18 14:25:05	1.9014	105.76	8.56	1.9014	103.25	10.28
117	2024/04/18 14:26:05	1.9181	106.04	7.86	1.9181	103.38	9.58
118	2024/04/18 14:27:05	1.9347	105.91	8.21	1.9347	103.50	9.23
119	2024/04/18 14:27:35	1.9431	105.94	8.11	1.9431	99.61	10.04

Print Filter: Approximately every 6 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/04/18 YYYY/MM/DD	12:31:00 HH:mm:ss	1885.00 m
Top	80704	2024/04/18 YYYY/MM/DD	12:31:00 HH:mm:ss	1884.75 m

Test Type Static Gradient

Company Name	**Enhance Energy Inc.**
Well Name	**EnhanceEnergy 104 Clive 10-26-39-24**
Unique Well ID	**104/10-26-039-24W4/0**
Well License Number	**0510736**
Formation	**Leduc**
Start Test Date	**2024/05/11**
Final Test Date	**2024/05/11**

Prepared By	**Kennason Tech Services Inc.**
Qualified By	**Cory Strang**
Report Date	**2024/05/13**

Reliance OFS Canada Limited
2500 333 - 7th Ave SW
Calgary AB T2P 2Z1
403-475-1229
relianceofs.com

RELIANCE OILFIELD SERVICES

Pressure Survey Report

Static Gradient

Company Name Enhance Energy Inc.
Contact Kevin Meyer
Representative Russ Guenther

General Information

Well Name	EnhanceEnergy 104 Clive 10-26-39-24		KB Elevation (SL)	874.90 m
Unique Well ID	104/10-26-039-24W4/0		CF Elevation (SL)	869.60 m
Surface Location	07-26-039-24W4		GL Elevation (SL)	869.60 m
Well License Number	0510736		KB-CF Offset	5.30 m
Well Type	Deviated		KB-GL Offset	5.30 m

Wellbore Information

Tubing OD	88.9	mm	Casing OD	177.8	mm
Tubing ID	76.0	mm	Casing ID	161.7	mm
Tubing Depth(Log KB)	1918.17000	m	Casing Depth(Log KB)	2115.50000	m
Tubing Depth(TVD KB)	1899.72392	m	Casing Depth(TVD KB)	2089.16176	m
Packer Depth(Log KB)	1909.00000	m	PBTD(Log KB)	2118.00	m
Packer Depth(TVD KB)	1890.95880	m	PBTD(TVD KB)	2091.57	m

Gross Completion Interval (GCI) as tested:

Top(Log KB)	1911.00 m	Top(TVD KB)	1892.87 m	Formation Name	Leduc
Bottom(Log KB)	1917.00 m	Bottom(TVD KB)	1898.61 m	Pool	
MPP(Log KB)	1914.00 m	MPP(TVD KB)	1895.74 m		

Test Information

Test Type	Static Gradient	Date/Time Gauge on Bottom	2024/05/11 14:23:15
Well Fluid Type	01 Oil	Date/Time Gauge Off Bottom	2024/05/11 16:25:15
Test Purpose	Annual Pressure	Time/Date Well Shut-In	2024/05/03 06:00:00
		Shut-In Duration	199.3542 h

Surface Pressures:

Tubing Pressure Initial	5563.00 kPa(a)	Casing Pressure Initial	93.00 kPa(a)
Tubing Pressure: Final	5563.00 kPa(a)	Casing Pressure: Final	93.00 kPa(a)

Test Results

Gauge Serial Number Used in Summary	80703		Run Depth (Log KB)	1905.20	m
Calculated Pressure Corrected to MPP	13659.92	kPa(a)	Run Depth (TVD KB)	1887.33	m
Reservoir Temperature	61.67	°C	Pressure at Stop Depth	13617.20	kPa(a)
Liquid Level(TVD KB)	340.91	m	Temperature at Run Depth	61.7	°C

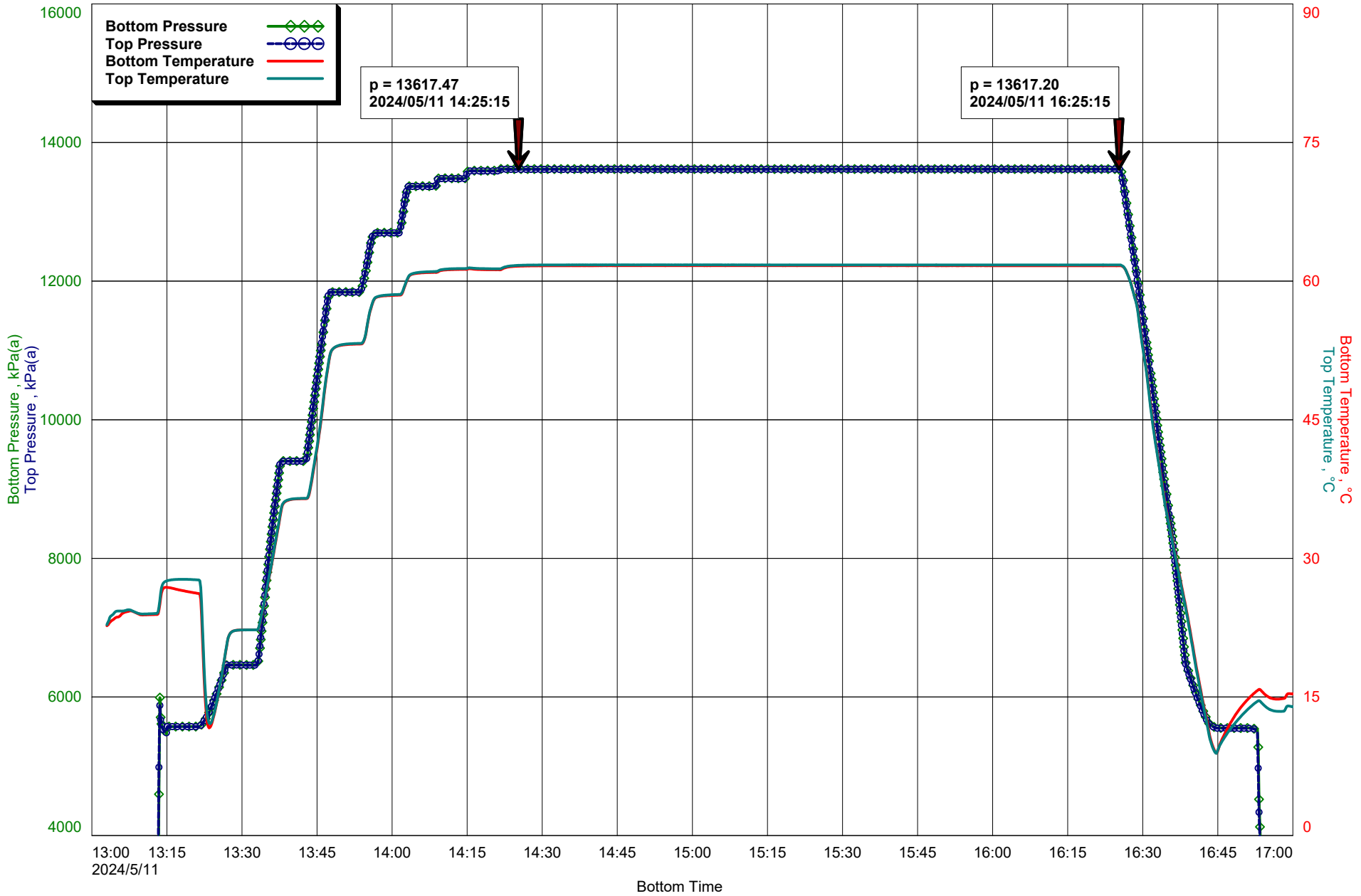
Test Remarks:

Leduc Perfs: 1903.0 - 1907.0 (closed), 1911.0 - 1917.0 mKB
Shut in Date Time not provided - used the same date as 100/10-35-039-24W4

Enhance Energy Inc.
104/10-26-039-24W4/0
Start Test Date: 2024/05/11
Final Test Date: 2024/05/11

EnhanceEnergy 104 Clive 10-26-39-24
Formation: Leduc

Static Gradient Plot



Static Gradient 2024/05/11

Company Name Enhance Energy Inc.

Well Name EnhanceEnergy 104 Clive 10-26-39-24

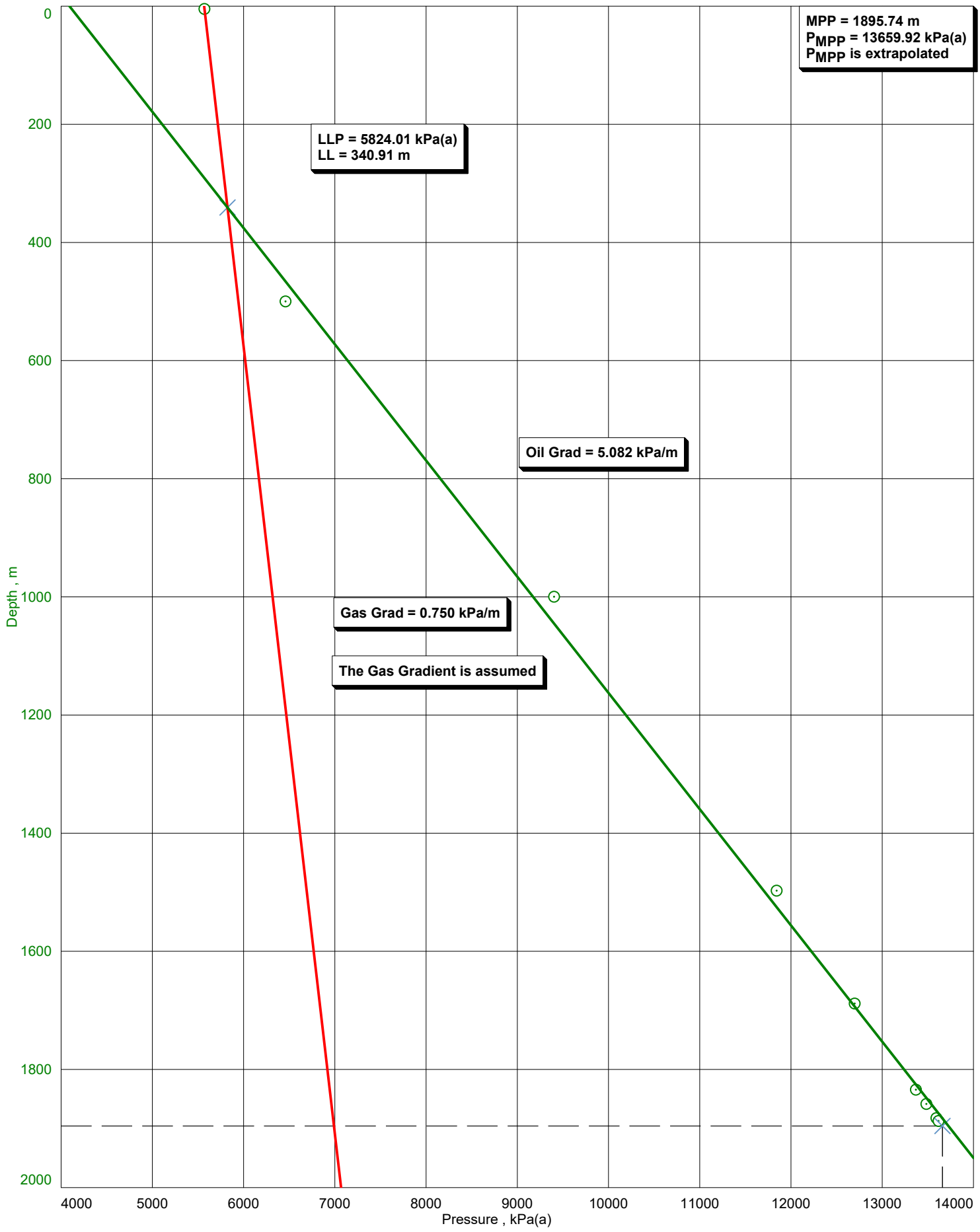
Unique Well ID	104/10-26-039-24W4/0	KB Elevation (SL)	874.90
		GL Elevation (SL)	869.60
Formation	Leduc	CF Elevation (SL)	869.60
Well Fluid Type	01 Oil		
Well License Number	0510736		
Well Type	Deviated		
Start Test Date	2024/05/11	Start Test Time	13:03:00
Final Test Date	2024/05/11	Final Test Time	17:05:55
Date Well Shut-In	2024/05/03	Time Well Shut-In	06:00:00

Top(TVD KB)	1892.87	m	Tubing Pressure: Initial	5563.00	kPa(a)
Bottom(TVD KB)	1898.61	m	Casing Pressure: Initial	93.00	kPa(a)
MPP(TVD KB)	1895.74	m	Shut-In Duration	199.3542	h

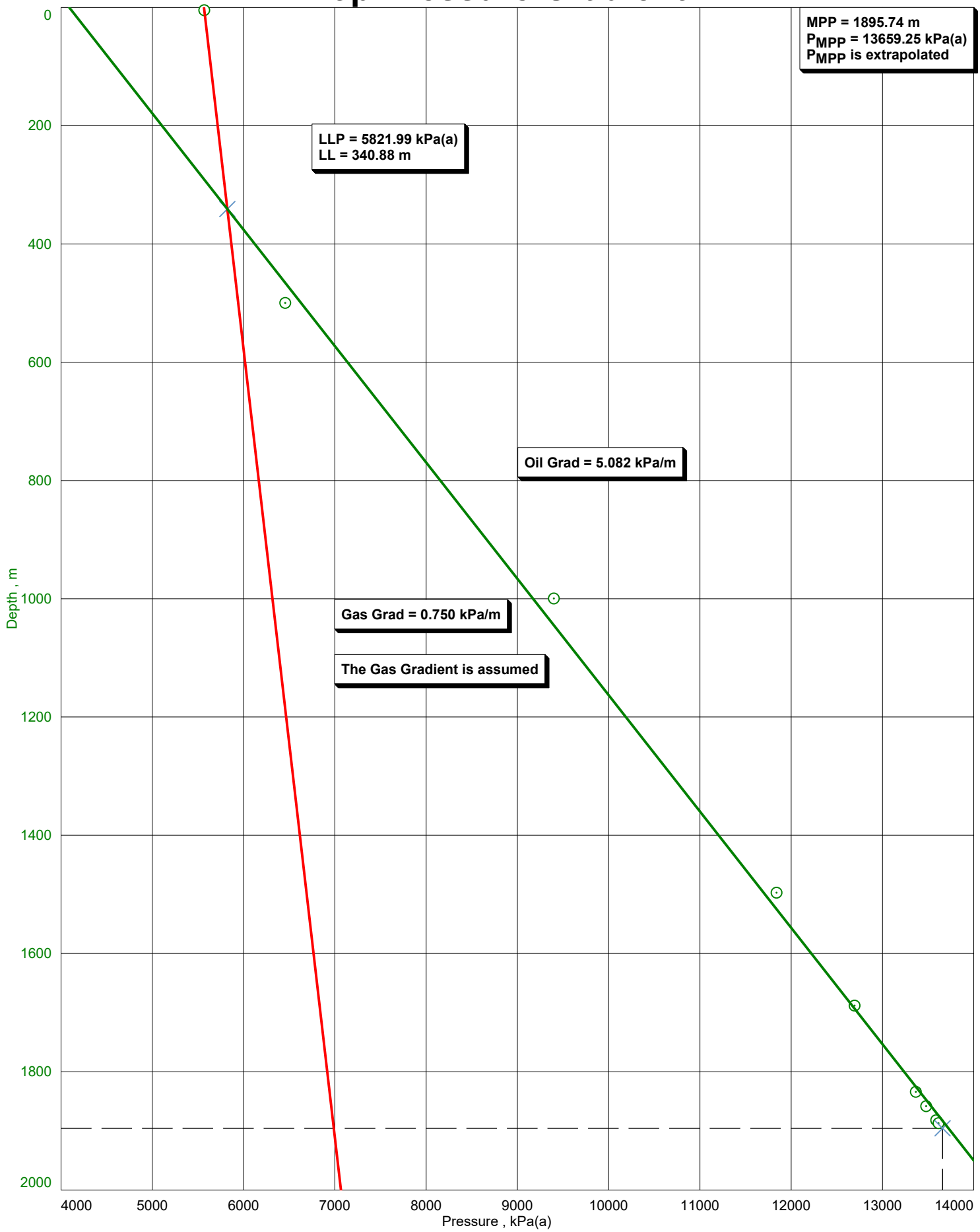
	Bottom		Top	
Gauge Name	Bottom		Top	
Gauge Serial Number	80703		80704	
Gauge Type	Strain		Strain	
Gauge Manufacturer	Spartek		Spartek	
Gauge Model	SS2500		SS2500	
Maximum Recorder Range	41370.00	kPa(a)	41370.00	kPa(a)
Resolution (% of Full Scale)	0.00030		0.00030	
Accuracy (% of Full Scale)	0.03000		0.03000	
Date of Last Calibration	2023/08/18		2023/08/18	
Gauge Start Date	2024/05/11	13:03:00	2024/05/11	13:03:00
Gauge Stop Date	2024/05/11	17:05:55	2024/05/11	17:05:55
Date Gauge On Bottom	2024/05/11	14:23:15	2024/05/11	14:23:15
Date Gauge Off Bottom	2024/05/11	16:25:15	2024/05/11	16:25:15
Run Depth (TVD KB)	1887.33	m	1887.10	m
Pressure at Run Depth	13617.20	kPa(a)	13615.32	kPa(a)
Pressure at MPP	13659.92	kPa(a)	13659.25	kPa(a)
Representative Gradient	5.082	kPa/m	5.082	kPa/m
Temperature at Run Depth	61.7	°C	61.8	°C
Liquid Level(TVD KB)	340.91	m	340.88	m

Bottom							Top					
Log Depth	Depth	Temp.	Pressure	Gradient	Gradient	Time	Log Depth	Depth	Temp.	Pressure	Gradient	Gradient
m	m	°C	kPa(a)	kPa/m	°C/m	HH:mm:ss	m	m	°C	kPa(a)	kPa/m	°C/m
4.90	4.90	26.20	5572.01			13:21:15	4.65	4.65	27.66	5569.82		
500.00	499.93	22.26	6460.69	1.795	-0.008	13:32:35	499.75	499.68	22.26	6457.27	1.793	-0.011
1000.00	999.90	36.46	9404.02	5.887	0.028	13:42:45	999.75	999.65	36.49	9400.80	5.887	0.028
1500.10	1497.43	53.20	11842.76	4.902	0.034	13:53:45	1499.85	1497.19	53.26	11840.28	4.903	0.034
1700.00	1688.53	58.48	12698.61	4.479	0.028	14:01:25	1699.75	1688.28	58.56	12694.92	4.472	0.028
1850.00	1834.25	60.95	13370.13	4.608	0.017	14:08:25	1849.75	1834.01	61.04	13365.99	4.605	0.017
1875.00	1858.53	61.28	13484.14	4.697	0.014	14:14:35	1874.75	1858.28	61.36	13479.89	4.692	0.013
1900.00	1882.37	61.23	13594.39	4.623	-0.002	14:21:25	1899.75	1882.13	61.33	13589.52	4.596	-0.001
1905.20	1887.33	61.67	13617.20	4.598	0.088	16:25:15	1904.95	1887.10	61.75	13615.32	5.200	0.084

Bottom Pressure Gradient



Top Pressure Gradient



Company Name Enhance Energy Inc.
Unique Well ID 104/10-26-039-24W4/0
Start Test Date 2024/05/11
Final Test Date 2024/05/11

Well Name EnhanceEnergy 104 Clive 10-26-39-24
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
1	2024/05/11 13:03:00	0.0000	104.14	22.70	0.0000	101.84	22.81
2	2024/05/11 13:04:05	0.0181	104.36	23.31	0.0181	103.01	23.87
3	2024/05/11 13:06:05	0.0514	104.05	24.03	0.0514	102.92	24.30
4	2024/05/11 13:08:05	0.0847	103.24	24.28	0.0847	101.24	24.31
5	2024/05/11 13:10:05	0.1181	102.84	23.88	0.1181	100.55	23.98
6	2024/05/11 13:12:05	0.1514	102.98	23.90	0.1514	100.80	24.01
7	2024/05/11 13:14:05	0.1847	5564.40	26.57	0.1847	5553.45	27.12
8	2024/05/11 13:16:05	0.2181	5572.13	26.76	0.2181	5570.71	27.68
9	2024/05/11 13:18:05	0.2514	5573.13	26.51	0.2514	5570.94	27.73
10	2024/05/11 13:20:05	0.2847	5572.98	26.31	0.2847	5570.22	27.70
11	2024/05/11 13:22:05	0.3181	5614.78	21.64	0.3181	5617.06	22.93
12	2024/05/11 13:24:05	0.3514	5888.07	12.35	0.3514	5892.58	12.56
13	2024/05/11 13:26:05	0.3847	6276.19	17.67	0.3847	6282.13	17.74
14	2024/05/11 13:28:05	0.4181	6463.35	22.09	0.4181	6459.63	22.09
15	2024/05/11 13:30:05	0.4514	6462.11	22.25	0.4514	6458.98	22.25
16	2024/05/11 13:32:05	0.4847	6461.25	22.26	0.4847	6457.75	22.26
17	2024/05/11 13:34:05	0.5181	7072.39	24.25	0.5181	7100.36	24.34
18	2024/05/11 13:36:05	0.5514	8455.01	29.78	0.5514	8478.91	29.93
19	2024/05/11 13:38:05	0.5847	9404.19	35.75	0.5847	9400.57	35.84
20	2024/05/11 13:40:05	0.6181	9404.23	36.39	0.6181	9400.81	36.42
21	2024/05/11 13:42:05	0.6514	9404.18	36.45	0.6514	9400.95	36.49
22	2024/05/11 13:44:05	0.6847	10066.69	38.86	0.6847	10090.20	39.09
23	2024/05/11 13:46:05	0.7181	11176.04	46.16	0.7181	11197.62	46.40
24	2024/05/11 13:48:05	0.7514	11841.59	52.62	0.7514	11839.35	52.64
25	2024/05/11 13:50:05	0.7847	11842.34	53.08	0.7847	11840.19	53.14
26	2024/05/11 13:52:05	0.8181	11842.73	53.17	0.8181	11840.55	53.24
27	2024/05/11 13:54:05	0.8514	11930.47	53.25	0.8514	11943.80	53.33
28	2024/05/11 13:56:05	0.8847	12638.01	57.59	0.8847	12648.54	57.67
29	2024/05/11 13:58:05	0.9181	12698.10	58.39	0.9181	12694.36	58.44
30	2024/05/11 14:00:05	0.9514	12698.24	58.46	0.9514	12694.83	58.53
31	2024/05/11 14:02:05	0.9847	12922.50	58.76	0.9847	12942.91	58.87
32	2024/05/11 14:04:05	1.0181	13370.22	60.76	1.0181	13365.52	60.81
33	2024/05/11 14:06:05	1.0514	13370.22	60.90	1.0514	13365.70	60.98
34	2024/05/11 14:08:05	1.0847	13370.26	60.94	1.0847	13366.05	61.03
35	2024/05/11 14:10:05	1.1181	13484.06	61.18	1.1181	13479.47	61.27
36	2024/05/11 14:12:05	1.1514	13483.82	61.25	1.1514	13479.56	61.34
37	2024/05/11 14:14:05	1.1847	13484.00	61.27	1.1847	13479.42	61.36
38	2024/05/11 14:16:05	1.2181	13594.05	61.31	1.2181	13589.51	61.41
39	2024/05/11 14:18:05	1.2514	13594.05	61.25	1.2514	13589.49	61.36
40	2024/05/11 14:20:05	1.2847	13594.35	61.24	1.2847	13589.79	61.34
41	2024/05/11 14:22:05	1.3181	13615.81	61.34	1.3181	13611.52	61.44
42	2024/05/11 14:24:05	1.3514	13617.94	61.58	1.3514	13612.84	61.67
43	2024/05/11 14:26:05	1.3847	13617.75	61.64	1.3847	13612.86	61.73
44	2024/05/11 14:28:05	1.4181	13617.79	61.66	1.4181	13613.10	61.75
45	2024/05/11 14:30:05	1.4514	13617.86	61.66	1.4514	13613.10	61.75

Print Filter: Approximately every 12 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/05/11 YYYY/MM/DD	13:03:00 HH:mm:ss	1887.33 m
Top	80704	2024/05/11 YYYY/MM/DD	13:03:00 HH:mm:ss	1887.10 m

Company Name Enhance Energy Inc.
Unique Well ID 104/10-26-039-24W4/0
Start Test Date 2024/05/11
Final Test Date 2024/05/11

Well Name EnhanceEnergy 104 Clive 10-26-39-24
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
46	2024/05/11 14:32:05	1.4847	13617.64	61.66	1.4847	13613.51	61.76
47	2024/05/11 14:34:05	1.5181	13618.08	61.67	1.5181	13613.33	61.76
48	2024/05/11 14:36:05	1.5514	13617.77	61.67	1.5514	13613.27	61.76
49	2024/05/11 14:38:05	1.5847	13618.01	61.67	1.5847	13613.44	61.76
50	2024/05/11 14:40:05	1.6181	13617.80	61.67	1.6181	13613.32	61.76
51	2024/05/11 14:42:05	1.6514	13617.93	61.67	1.6514	13612.95	61.76
52	2024/05/11 14:44:05	1.6847	13617.58	61.67	1.6847	13613.49	61.76
53	2024/05/11 14:46:05	1.7181	13617.74	61.68	1.7181	13613.74	61.76
54	2024/05/11 14:48:05	1.7514	13617.28	61.68	1.7514	13613.68	61.76
55	2024/05/11 14:50:05	1.7847	13617.97	61.68	1.7847	13613.84	61.76
56	2024/05/11 14:52:05	1.8181	13617.91	61.68	1.8181	13613.92	61.76
57	2024/05/11 14:54:05	1.8514	13617.79	61.67	1.8514	13613.94	61.76
58	2024/05/11 14:56:05	1.8847	13617.70	61.68	1.8847	13613.75	61.76
59	2024/05/11 14:58:05	1.9181	13617.86	61.68	1.9181	13614.02	61.76
60	2024/05/11 15:00:05	1.9514	13618.12	61.68	1.9514	13613.90	61.76
61	2024/05/11 15:02:05	1.9847	13617.88	61.68	1.9847	13614.60	61.76
62	2024/05/11 15:04:05	2.0181	13617.76	61.68	2.0181	13614.19	61.76
63	2024/05/11 15:06:05	2.0514	13617.53	61.68	2.0514	13614.28	61.76
64	2024/05/11 15:08:05	2.0847	13618.01	61.68	2.0847	13614.55	61.76
65	2024/05/11 15:10:05	2.1181	13617.66	61.68	2.1181	13614.68	61.76
66	2024/05/11 15:12:05	2.1514	13617.68	61.67	2.1514	13614.59	61.75
67	2024/05/11 15:14:05	2.1847	13617.86	61.68	2.1847	13614.81	61.76
68	2024/05/11 15:16:05	2.2181	13617.73	61.68	2.2181	13614.69	61.75
69	2024/05/11 15:18:05	2.2514	13617.98	61.67	2.2514	13615.02	61.76
70	2024/05/11 15:20:05	2.2847	13617.90	61.68	2.2847	13614.73	61.76
71	2024/05/11 15:22:05	2.3181	13617.64	61.68	2.3181	13615.24	61.76
72	2024/05/11 15:24:05	2.3514	13617.57	61.68	2.3514	13614.95	61.75
73	2024/05/11 15:26:05	2.3847	13617.84	61.68	2.3847	13615.04	61.76
74	2024/05/11 15:28:05	2.4181	13617.77	61.68	2.4181	13614.64	61.75
75	2024/05/11 15:30:05	2.4514	13617.65	61.68	2.4514	13615.57	61.75
76	2024/05/11 15:32:05	2.4847	13617.46	61.67	2.4847	13615.11	61.76
77	2024/05/11 15:34:05	2.5181	13617.66	61.68	2.5181	13615.16	61.76
78	2024/05/11 15:36:05	2.5514	13617.60	61.67	2.5514	13615.14	61.76
79	2024/05/11 15:38:05	2.5847	13618.12	61.68	2.5847	13615.26	61.76
80	2024/05/11 15:40:05	2.6181	13617.74	61.68	2.6181	13615.15	61.75
81	2024/05/11 15:42:05	2.6514	13617.60	61.67	2.6514	13615.35	61.75
82	2024/05/11 15:44:05	2.6847	13617.73	61.68	2.6847	13615.05	61.75
83	2024/05/11 15:46:05	2.7181	13617.66	61.68	2.7181	13615.36	61.75
84	2024/05/11 15:48:05	2.7514	13617.76	61.68	2.7514	13615.20	61.75
85	2024/05/11 15:50:05	2.7847	13617.93	61.67	2.7847	13615.25	61.75
86	2024/05/11 15:52:05	2.8181	13617.79	61.67	2.8181	13615.78	61.75
87	2024/05/11 15:54:05	2.8514	13617.52	61.68	2.8514	13615.46	61.75
88	2024/05/11 15:56:05	2.8847	13617.66	61.68	2.8847	13615.63	61.75
89	2024/05/11 15:58:05	2.9181	13617.74	61.68	2.9181	13615.29	61.76
90	2024/05/11 16:00:05	2.9514	13617.66	61.67	2.9514	13615.37	61.75

Print Filter: Approximately every 12 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/05/11 YYYY/MM/DD	13:03:00 HH:mm:ss	1887.33 m
Top	80704	2024/05/11 YYYY/MM/DD	13:03:00 HH:mm:ss	1887.10 m

Company Name Enhance Energy Inc.
Unique Well ID 104/10-26-039-24W4/0
Start Test Date 2024/05/11
Final Test Date 2024/05/11

Well Name EnhanceEnergy 104 Clive 10-26-39-24
Formation Leduc

	Bottom Date	Bottom Time	Bottom Pres.	Bottom Temp.	Top Time	Top Pres.	Top Temp.
	YYYY/MM/DD HH:mm:ss	h	kPa(a)	°C	h	kPa(a)	°C
91	2024/05/11 16:02:05	2.9847	13617.57	61.67	2.9847	13615.32	61.75
92	2024/05/11 16:04:05	3.0181	13618.07	61.67	3.0181	13615.53	61.75
93	2024/05/11 16:06:05	3.0514	13617.67	61.67	3.0514	13615.68	61.75
94	2024/05/11 16:08:05	3.0847	13617.56	61.67	3.0847	13615.41	61.75
95	2024/05/11 16:10:05	3.1181	13617.65	61.67	3.1181	13615.86	61.76
96	2024/05/11 16:12:05	3.1514	13617.74	61.67	3.1514	13615.78	61.76
97	2024/05/11 16:14:05	3.1847	13617.70	61.67	3.1847	13615.36	61.75
98	2024/05/11 16:16:05	3.2181	13617.81	61.67	3.2181	13615.58	61.75
99	2024/05/11 16:18:05	3.2514	13617.65	61.67	3.2514	13615.30	61.75
100	2024/05/11 16:20:05	3.2847	13617.78	61.67	3.2847	13615.27	61.75
101	2024/05/11 16:22:05	3.3181	13617.09	61.67	3.3181	13615.67	61.75
102	2024/05/11 16:24:05	3.3514	13617.77	61.66	3.3514	13615.71	61.75
103	2024/05/11 16:26:05	3.3847	13455.33	61.55	3.3847	13421.17	61.60
104	2024/05/11 16:28:05	3.4181	12465.02	58.92	3.4181	12430.09	58.85
105	2024/05/11 16:30:05	3.4514	11459.15	52.69	3.4514	11422.35	52.48
106	2024/05/11 16:32:05	3.4847	10392.98	44.45	3.4847	10352.35	44.20
107	2024/05/11 16:34:05	3.5181	9241.86	37.34	3.5181	9197.34	37.10
108	2024/05/11 16:36:05	3.5514	8219.30	31.59	3.5514	8173.32	31.40
109	2024/05/11 16:38:05	3.5847	6845.74	26.15	3.5847	6788.50	25.94
110	2024/05/11 16:40:05	3.6181	6167.06	20.27	3.6181	6149.11	19.97
111	2024/05/11 16:42:05	3.6514	5793.89	14.37	3.6514	5777.67	14.12
112	2024/05/11 16:44:05	3.6847	5573.81	9.54	3.6847	5567.50	9.38
113	2024/05/11 16:46:05	3.7181	5551.58	10.68	3.7181	5547.32	10.40
114	2024/05/11 16:48:05	3.7514	5551.01	12.67	3.7514	5546.99	11.92
115	2024/05/11 16:50:05	3.7847	5551.23	14.19	3.7847	5546.73	13.16
116	2024/05/11 16:52:05	3.8181	5546.47	15.31	3.8181	5540.10	14.18
117	2024/05/11 16:54:05	3.8514	2779.82	15.45	3.8514	2652.66	14.19
118	2024/05/11 16:56:05	3.8847	743.90	14.80	3.8847	706.71	13.51
119	2024/05/11 16:58:05	3.9181	200.68	14.82	3.9181	189.30	13.45
120	2024/05/11 17:00:05	3.9514	603.19	15.32	3.9514	570.29	13.95
121	2024/05/11 17:02:05	3.9847	104.71	15.41	3.9847	101.73	13.92
122	2024/05/11 17:04:05	4.0181	104.14	15.78	4.0181	101.43	14.44
123	2024/05/11 17:05:55	4.0486	99.65	17.74	4.0486	91.46	16.92

Print Filter: Approximately every 12 lines

Gauge Name	Serial Number	Start Date	Start Time	Run Depth (TVD)
Bottom	80703	2024/05/11 YYYY/MM/DD	13:03:00 HH:mm:ss	1887.33 m
Top	80704	2024/05/11 YYYY/MM/DD	13:03:00 HH:mm:ss	1887.10 m

ATTACHMENT 5

Fluid Analyses

AGAT Laboratories

GAS ANALYSIS

Version: 1

05002634A	EE041504024W4MFIT100G		000188887	23GR098510A	23GR107978A
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	METER 090-FIT-100(ENH0202)	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 CO2 ACTL 20 CO2 ANALYZER
Well Name

Well License | *Well Status* | *Well Fluid Status* | *LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BB/BA
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	4200 Source	12000 Received	-1 Source	23 Received

Jan 02, 2024 8:50	Jan 04, 2024	Jan 09, 2024	Jan 09, 2024	Calgary - Bernie Diep - Supervisor
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information :

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0071	0.8987		0.0062
He	0.0000	0.0000		0.0000
N_2	0.0003	0.0380		0.0001
CO_2	0.9921	0.0000		0.9929
H_2S	0.0000	0.0000		0.0000
C_1	0.0005	0.0633		0.0008
C_2	0.0000	0.0000	0.0	TRACE
C_3	TRACE	TRACE	0.0	TRACE
iC_4	TRACE	TRACE	0.0	0.0000
nC_4	TRACE	TRACE	0.0	0.0000
iC_5	TRACE	TRACE	0.0	0.0000
nC_5	TRACE	TRACE	0.0	0.0000
C_6	TRACE	TRACE	0.0	0.0000
C_7+	0.0000	0.0000	0.0	0.0000
TOTAL	1.0000	1.0000	0.0	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net		
0.11 Air Free as Received	13.14 Moisture & Acid Gas Free	0.00 C_7+ Moisture Free	**0.09** Air Free as Received	11.34 Moisture & Acid Gas Free	

Calculated Density

Relative			Absolute	
1.509 Moisture Free As Received	0.134 Moisture & Acid Gas Free	0.000 C_7+ Moisture Free	0.0 C_7+ Density (kg/m³)	1.847 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7331.2 pPc (kPa)	302.1 pTc (K)	1585.8 pPc (kPa)	46.7 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
Stain Tube (GPA 2377)	Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	0.00

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

43.7	0.0
Total Sample	*C_7+ Fraction*

Calculated Vapour Pressure

0.00 *C_5+ (kPa)*

Gas Compressibility

1.0004 *@15 °C & 101.325 kPa*

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
Sampling performed by AGAT Laboratories is done according to Field Sampling Procedure Manual

View or download your data online at webfluids.agatlabs.com

EXTENDED GAS ANALYSIS

Version: 1

13001349A	EE041504024W4MFIT100G		000188887	23ER985358A	24ER156821A
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	METER 090-FIT-100(ENH0202)	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 CO2 ACTL 20 CO2 ANALYZER

Well Name | *Well License* | *Well Status* | *Well Fluid Status* | *LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BB
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	5800 Source	14500 Received	15 Source	23 Received

Jun 03, 2024 9:10	Jun 05, 2024	Jun 10, 2024	Jun 10, 2024	Calgary - Bernie Diep - Supervisor
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information : FIELD H2S BY TUBE = 0ppm

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.00849	0.88099		0.00807
He	0.00000	0.00000		0.00000
N_2	0.00045	0.04718		0.00291
CO_2	0.99037	0.00000		0.98463
H_2S	0.00000	0.00000		0.00000
C_1	0.00069	0.07183		0.00087
C_2	0.00000	0.00000	0.0	0.00023
C_3	0.00000	0.00000	0.0	0.00068
iC_4	0.00000	0.00000	0.0	0.00016
nC_4	0.00000	0.00000	0.0	0.00057
iC_5	0.00000	0.00000	0.0	0.00023
nC_5	0.00000	0.00000	0.0	0.00041
C_6	0.00000	0.00000	0.0	0.00039
C_7+	0.00000	0.00000	0.0	0.00085
TOTAL	1.00000	1.00000	0.0	1.00000

WDMS Data Verification Check

Exceeded compare limits: C3, C7

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross		Net	
0.13 *Air Free as Received*	13.34 *Moisture & Acid Gas Free*	**0.11** *Air Free as Received*	11.45 *Moisture & Acid Gas Free*

Calculated Density

Relative		Absolute	
1.506 *Moisture Free As Received*	0.147 *Moisture & Acid Gas Free*	0.0 *C_7+ Density (kg/m³)*	1.845 *Total Sample Density (kg/m³)*

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7321.77 *pPc (kPa)*	301.67 *pTc (K)*	1649.07 *pPc (kPa)*	48.89 *pTc (K)*

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
0 *Stain Tube (GPA 2377)*	*Tutweiler (GPA C1)*	*Other*	*GC-SCD (ASTM D5504)*	0.00

Calculated Molecular Weight
(Moisture Free asReceived) (g/mol)

43.63	0.00
Total Sample	*C_7+ Fraction*

Calculated Vapour Pressure

0.00 *C_5+(kPa)*

Gas Compressibility

0.9944 *@15 °C & 101.325 kPa*

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
Sampling performed by AGAT Laboratories is done according to Field Sampling Procedure Manual

View or download your data online at webfluids.agatlabs.com

AGAT Laboratories

PROPERTIES OF C6+ FRACTION

Version: 1

13001349A	EE041504024W4MFIT		000188887	23ER985358A	24ER156821A
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	METER 090-FIT-100(ENH0202)	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 CO2 ACTL 20 CO2 ANALYZER				
Well Name	*Well License*	*Well Status*	*Well Fluid Status*	*LSD*

BOILING POINT RANGE (°C)	Carbon Number	Hydrocarbon Summary	As Received Mole Fraction	Acid Gas Free Mole Fraction	As Received Liquid Volume (mL/m³)
36.2+	C_6+	Hexanes+	0.00000	0.00000	0.0000
68.9+	C_7+	Heptanes+	0.00000	0.00000	0.0000
98.6+	C_8+	Octanes+	0.00000	0.00000	0.0000
125.8+	C_9+	Nonanes+	0.00000	0.00000	0.0000
150.9+	C_{10}+	Decanes+	0.00000	0.00000	0.0000
174.3+	C_{11}+	Undecanes+	0.00000	0.00000	0.0000
196.0+	C_{12}+	Dodecanes+	0.00000	0.00000	0.0000
216.4+	C_{13}+	Tridecanes+	0.00000	0.00000	0.0000
235.6 - 270.7	C_{14}+	Tetradecanes+	0.00000	0.00000	0.0000

BOILING POINT RANGE (°C)	Carbon Number	Hydrocarbon Grouping	As Received Mole Fraction	Acid Gas Free Mole Fraction	As Received Liquid Volume (mL/m³)
68.9 - 98.6	C_7	Heptanes	0.00000	0.00000	0.0000
98.6 - 125.8	C_8	Octanes	0.00000	0.00000	0.0000
125.8 - 150.9	C_9	Nonanes	0.00000	0.00000	0.0000
150.9 - 174.3	C_{10}	Decanes	0.00000	0.00000	0.0000
174.3 - 196.0	C_{11}	Undecanes	0.00000	0.00000	0.0000
196.0 - 216.4	C_{12}	Dodecanes	0.00000	0.00000	0.0000
216.4 - 235.6	C_{13}	Tridecanes	0.00000	0.00000	0.0000
235.6 - 253.6	C_{14}	Tetradecanes	0.00000	0.00000	0.0000
253.6 - 270.69	C_{15}	Pentadecanes	0.00000	0.00000	0.0000

BOILING POINT RANGE (°C)	Carbon Number	Relevent Compounds	As Received Mole Fraction	Acid Gas Free Mole Fraction	As Received Liquid Volume (mL/m³)
49.28	C_5	Cyclopentane	0.00000	0.00000	0.0000
68.73	C_6	n-Hexane	0.00000	0.00000	0.0000
71.83	C_6	Methylcyclopentane	0.00000	0.00000	0.0000
80.06	C_6	Benzene	0.00000	0.00000	0.0000
80.78	C_6	Cyclohexane	0.00000	0.00000	0.0000
99.24	C_8	2,2,4-Trimethylpentane	0.00000	0.00000	0.0000
100.94	C_7	Methylcyclohexane	0.00000	0.00000	0.0000
110.61	C_7	Toluene	0.00000	0.00000	0.0000
136.16	C_8	Ethylbenzene	0.00000	0.00000	0.0000
138.33 ; 139.09	C_8	m&p-Xylene	0.00000	0.00000	0.0000
144.42	C_8	o-Xylene	0.00000	0.00000	0.0000
169.34	C_9	1,2,4-Trimethylbenzene	0.00000	0.00000	0.0000

AGAT Laboratories

GAS ANALYSIS

Version: 1

Container Identification	Sample Point Code	Meter Code	AGAT WDMS Number	Previous Number	Laboratory Number
13001051A	EE041504024W4MFIT100G			23GR107978A	24GR118709A

Operator Name	Sampling Point	Unique Well Identifier
ENHANCE ENERGY INC	METER 090-FIT-100(ENH0202)	04-15-040-24W4

Well Name	Well License	Well Status	Well Fluid Status	LSD
ENHANCE CLIVE 4-15 CO2 ACTL 20 CO2 ANALYZER				

Field or Area	Pool or Zone	Sampler's Company	Name of Sampler
CLIVE	NOT APPLICABLE	AGAT RED DEER	BB/BA

Test Interval (mKB) From :	Test Interval (mKB) To:	Test Type	Test No.	Elevation (m) KB	Elevation (m) GRD	Pressure (kPa) Source	Pressure (kPa) Received	Temperature (°C) Source	Temperature (°C) Received
						4000	9000	0	23

Date/Time Sampled	Date Received	Date Analyzed	Date Reported	Location - Approved By - Title
Feb 13, 2024 8:40	Feb 14, 2024	Feb 20, 2024	Feb 20, 2024	Calgary - Bernie Diep - Supervisor

Other Information : 188887

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0062	0.7381		0.0071
He	0.0000	0.0000		0.0000
N_2	0.0011	0.1310		0.0003
CO_2	0.9916	0.0000		0.9921
H_2S	0.0000	0.0000		0.0000
C_1	0.0010	0.1190		0.0005
C_2	0.0001	0.0119	0.4	0.0000
C_3	TRACE	TRACE	0.0	TRACE
iC_4	TRACE	TRACE	0.0	TRACE
nC_4	TRACE	TRACE	0.0	TRACE
iC_5	TRACE	TRACE	0.0	TRACE
nC_5	TRACE	TRACE	0.0	TRACE
C_6	TRACE	TRACE	0.0	TRACE
C_7+	0.0000	0.0000	0.0	0.0000
TOTAL	1.0000	1.0000	0.4	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross: Air Free as Received	Gross: Moisture & Acid Gas Free	Gross: C_7+ Moisture Free	Net: Air Free as Received	Net: Moisture & Acid Gas Free
0.12	14.09	0.00	**0.10**	12.31

Calculated Density

Relative: Moisture Free As Received	Relative: Moisture & Acid Gas Free	Relative: C_7+ Moisture Free	Absolute: C_7+ Density (kg/m³)	Absolute: Total Sample Density (kg/m³)
1.509	0.256	0.000	0.0	1.848

Calculated Pseudo Critical Properties

As Sampled: pPc (kPa)	As Sampled: pTc (K)	Acid Gas Free: pPc (kPa)	Acid Gas Free: pTc (K)
7331.9	302.1	2007.5	67.3

Hydrogen Sulfide (H_2S) (ppm)

Field Value: Stain Tube (GPA 2377)	Field Value: Tutweiler (GPA C1)	Laboratory Value: Other	Laboratory Value: GC-SCD (ASTM D5504)	g/m³
				0.00

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

Total Sample	C_7+ Fraction
43.7	0.0

Calculated Vapour Pressure

0.00 C_5+ (kPa)

Gas Compressibility

1.0001 @15 °C & 101.325 kPa

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
Sampling performed by AGAT Laboratories is done according to Field Sampling Procedure Manual

View or download your data online at webfluids.agatlabs.com

AGAT Laboratories

GAS ANALYSIS

Version: 1

Container Identification	Sample Point Code	Meter Code	AGAT WDMS Number	Previous Number	Laboratory Number
04002351D	EE041504024W4MFIT100G		000188887	24GR118709A	24GR127754D

Operator Name	Sampling Point	Unique Well Identifier
ENHANCE ENERGY INC	METER 090-FIT-100(ENH0202)	04-15-040-24W4

Well Name	Well License	Well Status	Well Fluid Status	LSD
ENHANCE CLIVE 4-15 CO2 ACTL 20 CO2 ANALYZER				

Field or Area	Pool or Zone	Sampler's Company	Name of Sampler
CLIVE	NOT APPLICABLE	AGAT RED DEER	BB/BA

Test Interval (mKB) From :	Test Interval (mKB) To:	Test Type	Test No.	Elevation (m) KB	Elevation (m) GRD	Pressure (kPa) Source	Pressure (kPa) Received	Temperature (°C) Source	Temperature (°C) Received
						350	410	15	21

Date/Time Sampled	Date Received	Date Analyzed	Date Reported	Location - Approved By - Title
Mar 11, 2024 11:05	Mar 13, 2024	Mar 19, 2024	Mar 19, 2024	Calgary - Amy Wu - Reporter

Other Information : FIELD H2S = 0ppm/ LAB H2S = ND

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0082	0.8912		0.0062
He	0.0000	0.0000		0.0000
N_2	0.0001	0.0109		0.0011
CO_2	0.9908	0.0000		0.9916
H_2S	0.0000	0.0000		0.0000
C_1	0.0008	0.0870		0.0010
C_2	0.0001	0.0109	0.4	0.0001
C_3	TRACE	TRACE	0.0	TRACE
iC_4	TRACE	TRACE	0.0	TRACE
nC_4	TRACE	TRACE	0.0	TRACE
iC_5	TRACE	TRACE	0.0	TRACE
nC_5	TRACE	TRACE	0.0	TRACE
C_6	TRACE	TRACE	0.0	TRACE
C_7+	TRACE	TRACE	0.0	0.0000
TOTAL	1.0000	1.0000	0.4	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: N2

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross: Air Free as Received	Gross: Moisture & Acid Gas Free	Gross: C_7+ Moisture Free	Net: Air Free as Received	Net: Moisture & Acid Gas Free
0.14	14.65	0.00	**0.12**	12.73

Calculated Density

Relative: Moisture Free As Received	Relative: Moisture & Acid Gas Free	Relative: C_7+ Moisture Free	Absolute: C_7+ Density (kg/m³)	Absolute: Total Sample Density (kg/m³)
1.507	0.132	4.186	714.3	1.845

Calculated Pseudo Critical Properties

As Sampled: pPc (kPa)	As Sampled: pTc (K)	Acid Gas Free: pPc (kPa)	Acid Gas Free: pTc (K)
7324.3	301.8	1646.1	50.9

Hydrogen Sulfide (H_2S) (ppm)

Field Value: Stain Tube (GPA 2377)	Field Value: Tutweiler (GPA C1)	Laboratory Value: Other	Laboratory Value: GC-SCD (ASTM D5504)	g/m³
0				0.00

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

Total Sample	C_7+ Fraction
43.6	121.2

Calculated Vapour Pressure

C_5+ (kPa)
0.00

Gas Compressibility

@15 °C & 101.325 kPa
1.0003

Disclaimer: The result in this report has been confirmed by a duplicate run.

AGAT Laboratories

GAS ANALYSIS

Version: 1

Container Identification	Sample Point Code	Meter Code	AGAT WDMS Number	Previous Number	Laboratory Number
04000118A	EE041504024W4MFIT100G		000188887	24GR127754E	24GR135412A

Operator Name	Sampling Point	Unique Well Identifier
ENHANCE ENERGY INC	METER 090-FIT-100(ENH0202)	04-15-040-24W4

Well Name	Well License	Well Status	Well Fluid Status	LSD
ENHANCE CLIVE 4-15 CO2 ACTL 20 CO2 ANALYZER				

Field or Area	Pool or Zone	Sampler's Company	Name of Sampler
CLIVE	NOT APPLICABLE	AGAT RED DEER	BB

Test Interval (mKB) From :	Test Interval (mKB) To:	Test Type	Test No.	Elevation (m) KB	Elevation (m) GRD	Pressure (kPa) Source	Pressure (kPa) Received	Temperature (°C) Source	Temperature (°C) Received
						7700	15000	-3	23

Date/Time Sampled	Date Received	Date Analyzed	Date Reported	Location - Approved By - Title
Apr 03, 2024 8:35	Apr 05, 2024	Apr 10, 2024	Apr 10, 2024	Calgary - Svetlana Nikolic - Reporter

Other Information : METER :090-FIT-100 (ENH 0202)

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0072	0.8676		0.0083
He	0.0000	0.0000		0.0000
N_2	0.0003	0.0361		0.0003
CO_2	0.9917	0.0000		0.9903
H_2S	0.0000	0.0000		0.0000
C_1	0.0007	0.0843		0.0008
C_2	0.0001	0.0120	0.4	0.0001
C_3	TRACE	TRACE	0.0	0.0002
iC_4	TRACE	TRACE	0.0	TRACE
nC_4	TRACE	TRACE	0.0	0.0000
iC_5	TRACE	TRACE	0.0	0.0000
nC_5	TRACE	TRACE	0.0	0.0000
C_6	TRACE	TRACE	0.0	0.0000
C_7+	TRACE	TRACE	0.0	0.0000
TOTAL	1.0000	1.0000	0.4	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross: Air Free as Received	Gross: Moisture & Acid Gas Free	Gross: C_7+ Moisture Free	Net: Air Free as Received	Net: Moisture & Acid Gas Free
0.12	14.34	0.00	**0.10**	12.46

Calculated Density

Relative: Moisture Free As Received	Relative: Moisture & Acid Gas Free	Relative: C_7+ Moisture Free	Absolute: C_7+ Density (kg/m³)	Absolute: Total Sample Density (kg/m³)
1.508	0.154	3.944	706.5	1.847

Calculated Pseudo Critical Properties

As Sampled: pPc (kPa)	As Sampled: pTc (K)	Acid Gas Free: pPc (kPa)	Acid Gas Free: pTc (K)
7329.8	302.0	1694.0	53.1

Hydrogen Sulfide (H_2S) (ppm)

Field Value: Stain Tube (GPA 2377)	Field Value: Tutweiler (GPA C1)	Laboratory Value: Other	Laboratory Value: GC-SCD (ASTM D5504)	g/m³
				0.00

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

Total Sample	C_7+ Fraction
43.7	114.2

Calculated Vapour Pressure

0.00 C_5+ (kPa)

Gas Compressibility

1.0002 @15 °C & 101.325 kPa

Disclaimer: The result in this report has been confirmed by a duplicate run.

GAS ANALYSIS

Version: 1

11000643B	EE041504024W4MFIT100G		000188887	24GR135412A	24GR144620B
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	METER 090-FIT-100(ENH0202)	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 CO2 ACTL 20 CO2 ANALYZER

Well Name | *Well License* | *Well Status* | *Well Fluid Status* | *LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BB
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	5200 Source	1500 Received	15 Source	23 Received

May 01, 2024 12:40	May 03, 2024	May 07, 2024	May 07, 2024	Calgary - Bernie Diep - Supervisor
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information :

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0066	0.8048		0.0072
He	0.0000	0.0000		0.0000
N_2	0.0008	0.0976		0.0003
CO_2	0.9918	0.0000		0.9917
H_2S	0.0000	0.0000		0.0000
C_1	0.0007	0.0854		0.0007
C_2	0.0001	0.0122	0.4	0.0001
C_3	TRACE	TRACE	0.0	TRACE
iC_4	TRACE	TRACE	0.0	TRACE
nC_4	0.0000	0.0000	0.0	TRACE
iC_5	0.0000	0.0000	0.0	TRACE
nC_5	0.0000	0.0000	0.0	TRACE
C_6	0.0000	0.0000	0.0	TRACE
C_7+	0.0000	0.0000	0.0	TRACE
TOTAL	1.0000	1.0000	0.4	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net		
0.11	13.65	0.00	**0.10**	11.87	
Air Free as Received	*Moisture & Acid Gas Free*	*C_7+ Moisture Free*	*Air Free as Received*	*Moisture & Acid Gas Free*	

Calculated Density

Relative			Absolute	
1.509	0.210	0.000	0.0	1.848
Moisture Free As Received	*Moisture & Acid Gas Free*	*C_7+ Moisture Free*	*C_7+ Density (kg/m³)*	*Total Sample Density (kg/m³)*

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7331.5	302.1	1827.5	59.0
pPc (kPa)	*pTc (K)*	*pPc (kPa)*	*pTc (K)*

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
				0.00
Stain Tube (GPA 2377)	*Tutweiler (GPA C1)*	*Other*	*GC-SCD (ASTM D5504)*	

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

43.7	0.0
Total Sample	*C_7+ Fraction*

Calculated Vapour Pressure

0.00 *C_5+ (kPa)*

Gas Compressibility

1.0002 *@15 °C & 101.325 kPa*

GAS ANALYSIS

Version: 1

00018962S	EE041504024W4MFIT100G		000188887	24GR144620B	24GR168639S
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	METER 090-FIT-100(ENH0202)	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 CO2 ACTL 20 CO2 ANALYZER

Well Name | *Well License* | *Well Status* | *Well Fluid Status* | *LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BB
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	5500 Source	7000 Received	1 Source	29 Received

Jul 02, 2024 11:00	Jul 04, 2024	Jul 10, 2024	Jul 10, 2024	Calgary - Bernie Diep - Supervisor
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information : FIELD H2S BY TUBE = 0ppm

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0173	0.9010		0.0066
He	0.0000	0.0000		0.0000
N_2	0.0007	0.0365		0.0008
CO_2	0.9808	0.0000		0.9918
H_2S	0.0000	0.0000		0.0000
C_1	0.0012	0.0625		0.0007
C_2	0.0000	0.0000	0.0	0.0001
C_3	0.0000	0.0000	0.0	TRACE
iC_4	0.0000	0.0000	0.0	TRACE
nC_4	0.0000	0.0000	0.0	0.0000
iC_5	0.0000	0.0000	0.0	0.0000
nC_5	0.0000	0.0000	0.0	0.0000
C_6	0.0000	0.0000	0.0	0.0000
C_7+	0.0000	0.0000	0.0	0.0000
TOTAL	1.0000	1.0000	0.0	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net		
0.26 Air Free as Received	13.14 Moisture & Acid Gas Free	0.00 C_7+ Moisture Free	**0.22** Air Free as Received	11.34 Moisture & Acid Gas Free	

Calculated Density

Relative			Absolute	
1.493 Moisture Free As Received	0.133 Moisture & Acid Gas Free	0.000 C_7+ Moisture Free	0.0 C_7+ Density (kg/m³)	1.828 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7265.7 pPc (kPa)	299.2 pTc (K)	1580.0 pPc (kPa)	46.4 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
0 Stain Tube (GPA 2377)	Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	0.00

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

43.2	0.0
Total Sample	C_7+ Fraction

Calculated Vapour Pressure

0.00 C_5+ (kPa)

Gas Compressibility

1.0004 @15 °C & 101.325 kPa

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
Sampling performed by AGAT Laboratories is done according to Field Sampling Procedure Manual

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AGAT Laboratories

GAS ANALYSIS

Version: 1

13001521F	EE041504024W4MFIT100G		000249760	24GR168639S	24GR180207F
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	METER 090-FIT-100(ENH0202)	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 CO2 ACTL 20 CO2 ANALYZER

Well Name | *Well License* | *Well Status* | *Well Fluid Status* | *LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BB
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	6800 Source	8000 Received	-3 Source	23 Received

Aug 01, 2024 10:30	Aug 06, 2024	Aug 09, 2024	Aug 09, 2024	Calgary - Liming Zhao - Reporter
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information : TAKEN WITHOUT HEATER

COMPOSITION

Component	Mole Fraction		Liquid Volume mL / m³	Mole Fraction of Previous Analysis
	Air Free As Received	Air & Acid Gas Free As Received		
H_2	0.0065	0.8784		0.0173
He	0.0000	0.0000		0.0000
N_2	0.0003	0.0405		0.0007
CO_2	0.9926	0.0000		0.9808
H_2S	0.0000	0.0000		0.0000
C_1	0.0006	0.0811		0.0012
C_2	TRACE	TRACE	0.0	0.0000
C_3	0.0000	0.0000	0.0	0.0000
iC_4	0.0000	0.0000	0.0	0.0000
nC_4	0.0000	0.0000	0.0	0.0000
iC_5	0.0000	0.0000	0.0	0.0000
nC_5	0.0000	0.0000	0.0	0.0000
C_6	0.0000	0.0000	0.0	0.0000
C_7+	0.0000	0.0000	0.0	0.0000
TOTAL	1.0000	1.0000	0.0	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: C1

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net		
0.10 Air Free as Received	13.57 Moisture & Acid Gas Free	0.00 C_7+ Moisture Free	**0.09** Air Free as Received	11.74 Moisture & Acid Gas Free	

Calculated Density

Relative			Absolute	
1.509 Moisture Free As Received	0.145 Moisture & Acid Gas Free	0.000 C_7+ Moisture Free	0.0 C_7+ Density (kg/m³)	1.848 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7334.6 *pPc (kPa)*	302.2 *pTc (K)*	1649.8 *pPc (kPa)*	49.7 *pTc (K)*

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
0 Stain Tube (GPA 2377)	Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	0.00

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

43.7	0.0
Total Sample	*C_7+ Fraction*

Calculated Vapour Pressure

0.00 *C_5+ (kPa)*

Gas Compressibility

1.0004 *@15 °C & 101.325 kPa*

Disclaimer: The result in this report has been confirmed by a duplicate run.

AGAT Laboratories

GAS ANALYSIS

Version: 1

13001141F	EE041504024W4MFIT100G		000249760	24GR180207A	24GR190988F
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	METER 090-FIT-100(ENH0202)	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 CO2 ACTL 20 CO2 ANALYZER
Well Name

Well License | *Well Status* | *Well Fluid Status* | *LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BA
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	240 Source	200 Received	4 Source	23 Received

Sep 03, 2024 11:25	Sep 05, 2024	Sep 10, 2024	Sep 10, 2024	Calgary - Bernie Diep - Supervisor
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information : FIELD H2S BY TUBE = 0ppm

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0075	0.7979		0.0059
He	0.0000	0.0000		0.0000
N_2	0.0012	0.1277		0.0007
CO_2	0.9906	0.0000		0.9925
H_2S	0.0000	0.0000		0.0000
C_1	0.0006	0.0638		0.0005
C_2	0.0001	0.0106	0.4	TRACE
C_3	TRACE	TRACE	0.0	TRACE
iC_4	TRACE	TRACE	0.0	TRACE
nC_4	TRACE	TRACE	0.0	TRACE
iC_5	TRACE	TRACE	0.0	TRACE
nC_5	TRACE	TRACE	0.0	TRACE
C_6	0.0000	0.0000	0.0	TRACE
C_7+	0.0000	0.0000	0.0	0.0004
TOTAL	1.0000	1.0000	0.4	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net	
0.12 Air Free as Received	12.66 Moisture & Acid Gas Free	0.00 C_7+ Moisture Free	**0.10** Air Free as Received	10.97 Moisture & Acid Gas Free

Calculated Density

Relative			Absolute	
1.507 Moisture Free As Received	0.225 Moisture & Acid Gas Free	0.000 C_7+ Moisture Free	0.0 C_7+ Density (kg/m³)	1.846 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7324.7 pPc (kPa)	301.8 pTc (K)	1813.6 pPc (kPa)	58.0 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
0 Stain Tube (GPA 2377)	Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	0.00

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

43.7	0.0
Total Sample	C_7+ Fraction

Calculated Vapour Pressure

0.00 C_5+ (kPa)

Gas Compressibility

1.0002 @15 °C & 101.325 kPa

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
Sampling performed by AGAT Laboratories is done according to Field Sampling Procedure Manual

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AGAT Laboratories

GAS ANALYSIS

Version: 1

05004018B	EE041504024W4MFIT100G		000249760	24GR190988F	24GR203084B
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	METER 090-FIT-100(ENH0202)	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 CO2 ACTL 20 CO2 ANALYZER
Well Name

Well License	*Well Status*	*Well Fluid Status*	*LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BA
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	250 Source	240 Received	1 Source	23 Received

Oct 01, 2024 1	Oct 03, 2024	Oct 08, 2024	Oct 08, 2024	Calgary - Bernie Diep - Supervisor
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information : FIELD H2S BY TUBE = 0ppm

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0014	0.6086		0.0075
He	TRACE	TRACE		0.0000
N_2	0.0006	0.2609		0.0012
CO_2	0.9977	0.0000		0.9906
H_2S	0.0000	0.0000		0.0000
C_1	0.0002	0.0870		0.0006
C_2	0.0001	0.0435	0.4	0.0001
C_3	TRACE	TRACE	0.0	TRACE
iC_4	TRACE	TRACE	0.0	TRACE
nC_4	TRACE	TRACE	0.0	TRACE
iC_5	TRACE	TRACE	0.0	TRACE
nC_5	TRACE	TRACE	0.0	TRACE
C_6	0.0000	0.0000	0.0	0.0000
C_7+	0.0000	0.0000	0.0	0.0000
TOTAL	1.0000	1.0000	0.4	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2
Exceeded compare limits: H2

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net		
0.03 Air Free as Received	13.43 Moisture & Acid Gas Free	0.00 C_7+ Moisture Free	**0.03** Air Free as Received	11.81 Moisture & Acid Gas Free	

Calculated Density

Relative			Absolute	
1.517 Moisture Free As Received	0.388 Moisture & Acid Gas Free	0.000 C_7+ Moisture Free	0.0 C_7+ Density (kg/m³)	1.858 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7365.3 pPc (kPa)	303.6 pTc (K)	2287.4 pPc (kPa)	83.0 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
0 Stain Tube (GPA 2377)	Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	0.00

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

43.9	0.0
Total Sample	C_7+ Fraction

Calculated Vapour Pressure

0.00 C_5+ (kPa)

Gas Compressibility

0.9998 @15 °C & 101.325 kPa

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
Sampling performed by AGAT Laboratories is done according to Field Sampling Procedure Manual

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GAS ANALYSIS

Version: 1

11000669G	EE041504024W4MFIT100G		000249760	24GR203084B	24GR218076G
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	METER 090-FIT-100(ENH0202)	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 CO2 ACTL 20 CO2 ANALYZER

Well Name | *Well License* | *Well Status* | *Well Fluid Status* | *LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BB
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	5100 Source	1500 Received	4 Source	23 Received

Nov 07, 2024 10:30	Nov 12, 2024	Nov 25, 2024	Nov 25, 2024	Calgary - Amy Wu - Reporter
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information : FIELD H2S = 0ppm/ LABH 2S = ND

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0056	0.8115		0.0014
He	0.0000	0.0000		TRACE
N_2	0.0003	0.0435		0.0006
CO_2	0.9931	0.0000		0.9977
H_2S	0.0000	0.0000		0.0000
C_1	0.0006	0.0870		0.0002
C_2	0.0001	0.0145	0.4	0.0001
C_3	TRACE	TRACE	0.0	TRACE
iC_4	0.0001	0.0145	0.4	TRACE
nC_4	TRACE	TRACE	0.0	TRACE
iC_5	TRACE	TRACE	0.0	TRACE
nC_5	TRACE	TRACE	0.0	TRACE
C_6	TRACE	TRACE	0.0	0.0000
C_7+	0.0002	0.0290	1.3	0.0000
TOTAL	1.0000	1.0000	2.1	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: H2

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net	
0.15 Air Free as Received	22.01 Moisture & Acid Gas Free	0.04 C_7+ Moisture Free	**0.14** Air Free as Received	19.65 Moisture & Acid Gas Free

Calculated Density

Relative			Absolute	
1.511 Moisture Free As Received	0.298 Moisture & Acid Gas Free	3.702 C_7+ Moisture Free	697.8 C_7+ Density (kg/m³)	1.851 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7338.5 pPc (kPa)	302.5 pTc (K)	1799.4 pPc (kPa)	75.4 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
0 Stain Tube (GPA 2377)	Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	0.00

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

43.8	107.2
Total Sample	C_7+ Fraction

Calculated Vapour Pressure

7.45 C_5+ (kPa)

Gas Compressibility

0.9944 @15 °C & 101.325 kPa

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
Sampling performed by AGAT Laboratories is done according to Field Sampling Procedure Manual

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AGAT Laboratories

GAS ANALYSIS

Version: 1

11002248F	EE041504024W4MFIT100G		000249760	24GR218076G	24GR226999F
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	METER 090-FIT-100(ENH0202)	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 CO2 ACTL 20 CO2 ANALYZER
Well Name

Well License | *Well Status* | *Well Fluid Status* | *LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BB
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	5700 Source	12000 Received	1 Source	23 Received

Dec 03, 2024 9:30	Dec 06, 2024	Dec 09, 2024	Dec 09, 2024	Calgary - Aubrey Calub - Condensate Lab
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information : FIELD H2S: 0 PPM

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0067	0.9178		0.0056
He	0.0000	0.0000		0.0000
N_2	0.0003	0.0411		0.0003
CO_2	0.9927	0.0000		0.9931
H_2S	0.0000	0.0000		0.0000
C_1	0.0003	0.0411		0.0006
C_2	0.0000	0.0000	0.0	0.0001
C_3	0.0000	0.0000	0.0	TRACE
iC_4	0.0000	0.0000	0.0	0.0001
nC_4	0.0000	0.0000	0.0	TRACE
iC_5	0.0000	0.0000	0.0	TRACE
nC_5	0.0000	0.0000	0.0	TRACE
C_6	0.0000	0.0000	0.0	TRACE
C_7+	0.0000	0.0000	0.0	0.0002
TOTAL	1.0000	1.0000	0.0	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net		
0.09	12.54	0.00	**0.08**	10.78	
Air Free as Received	*Moisture & Acid Gas Free*	*C_7+ Moisture Free*	*Air Free as Received*	*Moisture & Acid Gas Free*	

Calculated Density

Relative			Absolute	
1.509	0.126	0.000	0.0	1.848
Moisture Free As Received	*Moisture & Acid Gas Free*	*C_7+ Moisture Free*	*C_7+ Density (kg/m³)*	*Total Sample Density (kg/m³)*

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7334.2	302.2	1519.0	43.5
pPc (kPa)	*pTc (K)*	*pPc (kPa)*	*pTc (K)*

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
0				0.00
Stain Tube (GPA 2377)	*Tutweiler (GPA C1)*	*Other*	*GC-SCD (ASTM D5504)*	

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

43.7	0.0
Total Sample	*C_7+ Fraction*

Calculated Vapour Pressure

0.00
C_5+ (kPa)

Gas Compressibility

1.0005
@15 °C & 101.325 kPa

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
Sampling performed by AGAT Laboratories is done according to Field Sampling Procedure Manual

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AGAT Laboratories

GAS ANALYSIS

Version: 1

11005624A	EE041504024W4RECYCLEG		000250266	23GR098499B	23GR107980A
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	RECYCLE GAS	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 BATTERY				
Well Name	*Well License*	*Well Status*	*Well Fluid Status*	*LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BB/BA
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	3500 Source	4000 Received	14 Source	23 Received

Jan 02, 2024 9:10	Jan 04, 2024	Jan 10, 2024	Jan 10, 2024	Calgary - Liming Zhao - Reporter
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information : FIELD H2S BY TUT: 2.480%

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0063	0.0734		0.0062
He	0.0001	0.0012		0.0001
N_2	0.0062	0.0723		0.0069
CO_2	0.8894	0.0000		0.8803
H_2S	0.0248	0.0000		0.0196
C_1	0.0559	0.6514		0.0666
C_2	0.0068	0.0793	24.2	0.0079
C_3	0.0053	0.0618	19.5	0.0060
iC_4	0.0008	0.0093	3.5	0.0009
nC_4	0.0022	0.0256	9.3	0.0027
iC_5	0.0005	0.0058	2.4	0.0007
nC_5	0.0006	0.0070	2.9	0.0008
C_6	0.0004	0.0047	2.2	0.0006
C_7+	0.0007	0.0082	4.7	0.0007
TOTAL	1.0000	1.0000	68.7	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: H2S, C1, C2, C3

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net	
4.51 Air Free as Received	45.24 Moisture & Acid Gas Free	0.16 C_7+ Moisture Free	**4.08** Air Free as Received	41.17 Moisture & Acid Gas Free

Calculated Density

Relative			Absolute	
1.446 Moisture Free As Received	0.760 Moisture & Acid Gas Free	3.805 C_7+ Moisture Free	701.7 C_7+ Density (kg/m³)	1.771 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7144.3 pPc (kPa)	297.8 pTc (K)	4195.2 pPc (kPa)	210.4 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
Stain Tube (GPA 2377)	24800 Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	35.68

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

41.9	110.2
Total Sample	*C_7+ Fraction*

Calculated Vapour Pressure

69.63 *C_5+ (kPa)*

Gas Compressibility

0.9921 *@15 °C & 101.325 kPa*

Disclaimer: The result in this report has been confirmed by a duplicate run.

AGAT Laboratories

GAS ANALYSIS

Version: 1

11000003C	EE041504024W4RECYCLEG		000250466	23GR107980A	24GR118710C
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	RECYCLE GAS	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 BATTERY				
Well Name	*Well License*	*Well Status*	*Well Fluid Status*	*LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BA/BB
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	3850 Source	3900 Received	15 Source	23 Received

Feb 12, 2024 10:55	Feb 13, 2024	Feb 16, 2024	Feb 16, 2024	Calgary - Bernie Diep - Supervisor
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information : FIELD H2S BY TUT = 2.141%

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0064	0.0718		0.0063
He	TRACE	TRACE		0.0001
N_2	0.0054	0.0605		0.0062
CO_2	0.8894	0.0000		0.8894
H_2S	0.0214	0.0000		0.0248
C_1	0.0587	0.6581		0.0559
C_2	0.0071	0.0796	25.2	0.0068
C_3	0.0052	0.0583	19.1	0.0053
iC_4	0.0005	0.0056	2.2	0.0008
nC_4	0.0026	0.0292	10.9	0.0022
iC_5	0.0007	0.0078	3.4	0.0005
nC_5	0.0009	0.0101	4.4	0.0006
C_6	0.0007	0.0078	3.8	0.0004
C_7+	0.0010	0.0112	6.6	0.0007
TOTAL	1.0000	1.0000	75.6	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: H2S, C1

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net	
4.75 Air Free as Received	47.11 Moisture & Acid Gas Free	0.22 C_7+ Moisture Free	**4.30** Air Free as Received	42.90 Moisture & Acid Gas Free

Calculated Density

Relative			Absolute	
1.446 Moisture Free As Received	0.779 Moisture & Acid Gas Free	3.750 C_7+ Moisture Free	699.6 C_7+ Density (kg/m³)	1.771 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7128.8 pPc (kPa)	297.6 pTc (K)	4204.9 pPc (kPa)	214.5 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
Stain Tube (GPA 2377)	21410 Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	30.79

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

41.9	108.6
Total Sample	*C_7+ Fraction*

Calculated Vapour Pressure

68.62 *C_5+ (kPa)*

Gas Compressibility

0.9912 *@15 °C & 101.325 kPa*

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
Sampling performed by AGAT Laboratories is done according to Field Sampling Procedure Manual

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GAS ANALYSIS

Version: 1

07001204K	EE041504024W4RECYCLEG		000250466	24GR118710C	24GR127754K
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	RECYCLE GAS	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 BATTERY				
Well Name	*Well License*	*Well Status*	*Well Fluid Status*	*LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BB/BA
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	3600 Source	4100 Received	15 Source	21 Received

Mar 11, 2024 11:00	Mar 13, 2024	Mar 19, 2024	Mar 19, 2024	Calgary - Amy Wu - Reporter
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information : FIELD H2S BY TUT: 1.780% NORMAL OPERATIONS; LAB H2S BY GC = 1.6962%

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0073	0.0850		0.0064
He	0.0001	0.0012		TRACE
N_2	0.0059	0.0687		0.0054
CO_2	0.8963	0.0000		0.8894
H_2S	0.0178	0.0000		0.0214
C_1	0.0551	0.6414		0.0587
C_2	0.0067	0.0780	23.8	0.0071
C_3	0.0052	0.0605	19.1	0.0052
iC_4	0.0008	0.0093	3.5	0.0005
nC_4	0.0022	0.0256	9.3	0.0026
iC_5	0.0006	0.0070	2.9	0.0007
nC_5	0.0007	0.0081	3.4	0.0009
C_6	0.0005	0.0058	2.7	0.0007
C_7+	0.0008	0.0094	5.4	0.0010
TOTAL	1.0000	1.0000	70.1	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: H2S, C1

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net	
4.37 Air Free as Received	45.58 Moisture & Acid Gas Free	0.18 C_7+ Moisture Free	**3.95** Air Free as Received	41.49 Moisture & Acid Gas Free

Calculated Density

Relative			Absolute	
1.448 Moisture Free As Received	0.761 Moisture & Acid Gas Free	3.762 C_7+ Moisture Free	700.1 C_7+ Density (kg/m³)	1.774 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7129.1 pPc (kPa)	297.2 pTc (K)	4154.5 pPc (kPa)	209.8 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
Stain Tube (GPA 2377)	17800 Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	25.61

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

41.9	109.0
Total Sample	C_7+ Fraction

Calculated Vapour Pressure

70.21 C_5+ (kPa)

Gas Compressibility

0.9918 @15 °C & 101.325 kPa

Disclaimer: The result in this report has been confirmed by a duplicate run.

AGAT Laboratories

GAS ANALYSIS

Version: 1

05005200A	EE041504024W4RECYCLEG		000250466	24GR127754J	24GR139473A
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	RECYCLE GAS	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 BATTERY				
Well Name	*Well License*	*Well Status*	*Well Fluid Status*	*LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BA
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	3650 Source	3600 Received	15 Source	23 Received

Apr 16, 2024 10:40	Apr 17, 2024	Apr 19, 2024	Apr 19, 2024	Calgary - Bernie Diep - Supervisor
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information : FIELD H2S BY TUT = 2.214%

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0062	0.0786		0.0076
He	TRACE	TRACE		0.0001
N_2	0.0055	0.0697		0.0070
CO_2	0.8990	0.0000		0.8944
H_2S	0.0221	0.0000		0.0165
C_1	0.0496	0.6284		0.0573
C_2	0.0064	0.0812	22.7	0.0093
C_3	0.0050	0.0634	18.4	0.0050
iC_4	0.0008	0.0101	3.5	0.0006
nC_4	0.0023	0.0292	9.7	0.0016
iC_5	0.0006	0.0076	2.9	0.0002
nC_5	0.0007	0.0089	3.4	0.0002
C_6	0.0004	0.0051	2.2	0.0001
C_7+	0.0014	0.0178	9.7	0.0001
TOTAL	1.0000	1.0000	72.5	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: H2S, C1, C2, NC4, C7

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net		
4.36	48.23	0.33	**3.95**	43.94	
Air Free as Received	*Moisture & Acid Gas Free*	*C_7+ Moisture Free*	*Air Free as Received*	*Moisture & Acid Gas Free*	

Calculated Density

Relative			Absolute		
1.456	0.808	3.978	707.7	1.783	
Moisture Free As Received	*Moisture & Acid Gas Free*	*C_7+ Moisture Free*	*C_7+ Density (kg/m³)*	*Total Sample Density (kg/m³)*	

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7158.8	298.7	4156.6	216.3
pPc (kPa)	*pTc (K)*	*pPc (kPa)*	*pTc (K)*

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
	22140			31.79
Stain Tube (GPA 2377)	*Tutweiler (GPA C1)*	*Other*	*GC-SCD (ASTM D5504)*	

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

42.2	115.2
Total Sample	*C_7+ Fraction*

Calculated Vapour Pressure

58.24
C_5+ (kPa)

Gas Compressibility

0.9867
@15 °C & 101.325 kPa

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
Sampling performed by AGAT Laboratories is done according to Field Sampling Procedure Manual

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AGAT Laboratories

GAS ANALYSIS

Version: 1

05005445B	EE041504024W4RECYCLEG		000250466	24GR144620A	24GR152151B
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	RECYCLE GAS	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 BATTERY				
Well Name	*Well License*	*Well Status*	*Well Fluid Status*	*LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BA
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	3600 Source	3800 Received	10 Source	23 Received

May 22, 2024 11:50	May 24, 2024	May 30, 2024	May 30, 2024	Calgary - Svetlana Nikolic - Reporter
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information : FIELD H2S BY TUT: 2.209%/LAB H2S BY GC: 1.431%

COMPOSITION

Component	Mole Fraction		Liquid Volume mL / m³	Mole Fraction of Previous Analysis
	Air Free As Received	Air & Acid Gas Free As Received		
H_2	0.0067	0.0811		0.0036
He	TRACE	TRACE		0.0001
N_2	0.0056	0.0678		0.0332
CO_2	0.8953	0.0000		0.8183
H_2S	0.0221	0.0000		0.0372
C_1	0.0541	0.6549		0.0742
C_2	0.0066	0.0799	23.5	0.0097
C_3	0.0047	0.0569	17.3	0.0098
iC_4	0.0007	0.0085	3.1	0.0020
nC_4	0.0020	0.0242	8.4	0.0060
iC_5	0.0005	0.0061	2.4	0.0017
nC_5	0.0006	0.0073	2.9	0.0019
C_6	0.0005	0.0061	2.7	0.0011
C_7+	0.0006	0.0072	3.9	0.0012
TOTAL	1.0000	1.0000	64.2	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: H2S, C1, C2, C3, IC4, NC4, C6, C7

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net	
4.26 Air Free as Received	44.81 Moisture & Acid Gas Free	0.13 C_7+ Moisture Free	**3.85** Air Free as Received	40.77 Moisture & Acid Gas Free

Calculated Density

Relative			Absolute	
1.448 Moisture Free As Received	0.747 Moisture & Acid Gas Free	3.621 C_7+ Moisture Free	694.7 C_7+ Density (kg/m³)	1.773 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7149.1 pPc (kPa)	297.7 pTc (K)	4183.9 pPc (kPa)	208.5 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
Stain Tube (GPA 2377)	22090 Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	31.79

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

41.9	104.9
Total Sample	*C_7+ Fraction*

Calculated Vapour Pressure

71.46 *C_5+ (kPa)*

Gas Compressibility

0.9933 *@15 °C & 101.325 kPa*

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
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GAS ANALYSIS

Version: 1

04001994F	EE041504024W4RECYCLEG		000250466	24GR152151B	24GR156821F
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	RECYCLE GAS	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 BATTERY				
Well Name	*Well License*	*Well Status*	*Well Fluid Status*	*LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BB
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	3550 Source	3750 Received	15 Source	23 Received

Jun 03, 2024 9:55	Jun 05, 2024	Jun 10, 2024	Jun 10, 2024	Calgary - Bernie Diep - Supervisor
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information : FIELD H2S BY TUT = 2.194%

COMPOSITION

Component	Mole Fraction		Liquid Volume mL / m³	Mole Fraction of Previous Analysis
	Air Free As Received	Air & Acid Gas Free As Received		
H_2	0.0064	0.0674		0.0067
He	TRACE	TRACE		TRACE
N_2	0.0052	0.0548		0.0056
CO_2	0.8831	0.0000		0.8953
H_2S	0.0219	0.0000		0.0221
C_1	0.0654	0.6883		0.0541
C_2	0.0070	0.0737	24.9	0.0066
C_3	0.0055	0.0579	20.2	0.0047
iC_4	0.0008	0.0084	3.5	0.0007
nC_4	0.0024	0.0253	10.1	0.0020
iC_5	0.0006	0.0063	2.9	0.0005
nC_5	0.0007	0.0074	3.4	0.0006
C_6	0.0004	0.0042	2.2	0.0005
C_7+	0.0006	0.0063	3.9	0.0006
TOTAL	1.0000	1.0000	71.1	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: C1, C3

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net		
4.86	45.22	0.13	**4.39**	41.14	
Air Free as Received	*Moisture & Acid Gas Free*	*C_7+ Moisture Free*	*Air Free as Received*	*Moisture & Acid Gas Free*	

Calculated Density

Relative			Absolute		
1.438	0.741	3.621	694.7	1.761	
Moisture Free As Received	*Moisture & Acid Gas Free*	*C_7+ Moisture Free*	*C_7+ Density (kg/m³)*	*Total Sample Density (kg/m³)*	

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7115.1	296.7	4246.3	210.4
pPc (kPa)	*pTc (K)*	*pPc (kPa)*	*pTc (K)*

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
	21940			31.50
Stain Tube (GPA 2377)	*Tutweiler (GPA C1)*	*Other*	*GC-SCD (ASTM D5504)*	

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

41.6	104.9
Total Sample	*C_7+ Fraction*

Calculated Vapour Pressure

77.67
C_5+ (kPa)

Gas Compressibility

0.9936
@15 °C & 101.325 kPa

AGAT Laboratories

GAS ANALYSIS

Version: 1

08000457A	EE041504024W4RECYCLEG		000250466	24GR156821F	24GR168639A
Container Identification	*Sample Point Code*	*Meter Code*	*AGAT WDMS Number*	*Previous Number*	*Laboratory Number*

ENHANCE ENERGY INC	RECYCLE GAS	04-15-040-24W4
Operator Name	*Sampling Point*	*Unique Well Identifier*

ENHANCE CLIVE 4-15 BATTERY				
Well Name	*Well License*	*Well Status*	*Well Fluid Status*	*LSD*

CLIVE	NOT APPLICABLE	AGAT RED DEER	BB
Field or Area	*Pool or Zone*	*Sampler's Company*	*Name of Sampler*

Test Interval (mKB)				Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	Test Type	Test No.	KB	GRD	4200 Source	3800 Received	10 Source	29 Received

Jul 02, 2024 10:45	Jul 04, 2024	Jul 10, 2024	Jul 10, 2024	Calgary - Bernie Diep - Supervisor
Date/Time Sampled	*Date Received*	*Date Analyzed*	*Date Reported*	*Location - Approved By - Title*

Other Information : FIELD H2S BY TUT = 1.929%

COMPOSITION

Component	Mole Fraction		Liquid Volume mL / m³	Mole Fraction of Previous Analysis
	Air Free As Received	Air & Acid Gas Free As Received		
H_2	0.0066	0.0623		0.0064
He	TRACE	TRACE		TRACE
N_2	0.0194	0.1830		0.0052
CO_2	0.8747	0.0000		0.8831
H_2S	0.0193	0.0000		0.0219
C_1	0.0604	0.5698		0.0654
C_2	0.0070	0.0660	24.9	0.0070
C_3	0.0057	0.0538	20.9	0.0055
iC_4	0.0009	0.0085	3.9	0.0008
nC_4	0.0027	0.0255	11.4	0.0024
iC_5	0.0007	0.0066	3.4	0.0006
nC_5	0.0009	0.0085	4.4	0.0007
C_6	0.0005	0.0047	2.7	0.0004
C_7+	0.0012	0.0113	7.9	0.0006
TOTAL	1.0000	1.0000	79.5	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: H2S, C1, C7

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net	
4.88 Air Free as Received	41.32 Moisture & Acid Gas Free	0.27 C_7+ Moisture Free	**4.41** Air Free as Received	37.62 Moisture & Acid Gas Free

Calculated Density

Relative			Absolute	
1.438 Moisture Free As Received	0.809 Moisture & Acid Gas Free	3.742 C_7+ Moisture Free	699.3 C_7+ Density (kg/m³)	1.761 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7060.5 pPc (kPa)	294.8 pTc (K)	4095.1 pPc (kPa)	203.8 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
Stain Tube (GPA 2377)	19290 Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	27.76

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

41.6	108.4
Total Sample	*C_7+ Fraction*

Calculated Vapour Pressure

67.00 *C_5+ (kPa)*

Gas Compressibility

0.9921 *@15 °C & 101.325 kPa*

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
Sampling performed by AGAT Laboratories is done according to Field Sampling Procedure Manual

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AGAT Laboratories

GAS ANALYSIS

Version: 1

Container Identification	Sample Point Code	Meter Code	AGAT WDMS Number	Previous Number	Laboratory Number
05002941E			000249786	24GR168639A	24GR180207E

Operator Name	Sampling Point	Unique Well Identifier
ENHANCE ENERGY INC	RECYCLE GAS	04-15-040-24W4

Well Name	Well License	Well Status	Well Fluid Status	LSD
ENHANCE CLIVE 4-15 BATTERY				

Field or Area	Pool or Zone	Sampler's Company	Name of Sampler
CLIVE	NOT APPLICABLE	AGAT RED DEER	BB

Test Interval (mKB) From :	Test Interval (mKB) To:	Test Type	Test No.	Elevation (m) KB	Elevation (m) GRD	Pressure (kPa) Source	Pressure (kPa) Received	Temperature (°C) Source	Temperature (°C) Received
						275	240		23

Date/Time Sampled	Date Received	Date Analyzed	Date Reported	Location - Approved By - Title
Aug 01, 2024 9:35	Aug 06, 2024	Aug 09, 2024	Aug 09, 2024	Calgary - Liming Zhao - Reporter

Other Information : FIELD H2S BY TUT: 0.561%, Sample Point: SOUTH FIELD COMBINED RECYCLE GAS

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0062	0.1073		0.0066
He	TRACE	TRACE		TRACE
N_2	0.0063	0.1090		0.0194
CO_2	0.9366	0.0000		0.8747
H_2S	0.0056	0.0000		0.0193
C_1	0.0348	0.6020		0.0604
C_2	0.0037	0.0640	13.1	0.0070
C_3	0.0031	0.0536	11.4	0.0057
iC_4	0.0006	0.0104	2.6	0.0009
nC_4	0.0015	0.0260	6.3	0.0027
iC_5	0.0004	0.0069	2.0	0.0007
nC_5	0.0005	0.0087	2.4	0.0009
C_6	0.0003	0.0052	1.6	0.0005
C_7+	0.0004	0.0069	2.5	0.0012
TOTAL	1.0000	1.0000	41.9	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: H2S, C1, C2, C3, NC4, C7

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net	
2.60 Air Free as Received	42.30 Moisture & Acid Gas Free	0.08 C_7+ Moisture Free	**2.35** Air Free as Received	38.49 Moisture & Acid Gas Free

Calculated Density

Relative			Absolute	
1.473 Moisture Free As Received	0.746 Moisture & Acid Gas Free	3.581 C_7+ Moisture Free	693.0 C_7+ Density (kg/m³)	1.804 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7193.3 pPc (kPa)	298.5 pTc (K)	4040.8 pPc (kPa)	200.4 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
5610 Stain Tube (GPA 2377)	Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	8.06

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

Total Sample	C_7+ Fraction
42.7	103.7

Calculated Vapour Pressure

77.54 C_5+ (kPa)

Gas Compressibility

0.9936 @15 °C & 101.325 kPa

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
Sampling performed by AGAT Laboratories is done according to Field Sampling Procedure Manual

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AGAT Laboratories

GAS ANALYSIS

Version: 1

Container Identification	Sample Point Code	Meter Code	AGAT WDMS Number	Previous Number	Laboratory Number
00018903B			000249842	24GR189613A	24GR190988B

Operator Name	Sampling Point	Unique Well Identifier
ENHANCE ENERGY INC	RECYCLE GAS	04-15-040-24W4

Well Name	Well License	Well Status	Well Fluid Status	LSD
ENHANCE CLIVE 4-15 BATTERY				

Field or Area	Pool or Zone	Sampler's Company	Name of Sampler
CLIVE	NOT APPLICABLE	AGAT RED DEER	BA

Test Interval (mKB) From :	Test Interval (mKB) To:	Test Type	Test No.	Elevation (m) KB	Elevation (m) GRD	Pressure (kPa) Source	Pressure (kPa) Received	Temperature (°C) Source	Temperature (°C) Received
						4600	3500	21	23

Date/Time Sampled	Date Received	Date Analyzed	Date Reported	Location - Approved By - Title
Sep 03, 2024 11:40	Sep 05, 2024	Sep 10, 2024	Sep 10, 2024	Calgary - Bernie Diep - Supervisor

Other Information : FIELD H2S BY TUT = 1.786%

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0065	0.0897		0.0067
He	TRACE	TRACE		TRACE
N_2	0.0053	0.0732		0.0053
CO_2	0.9097	0.0000		0.9037
H_2S	0.0179	0.0000		0.0165
C_1	0.0454	0.6273		0.0519
C_2	0.0058	0.0801	20.6	0.0063
C_3	0.0045	0.0621	16.5	0.0048
iC_4	0.0007	0.0097	3.1	0.0007
nC_4	0.0020	0.0276	8.4	0.0021
iC_5	0.0005	0.0069	2.4	0.0004
nC_5	0.0006	0.0083	2.9	0.0006
C_6	0.0004	0.0055	2.2	0.0004
C_7+	0.0007	0.0096	4.6	0.0006
TOTAL	1.0000	1.0000	60.7	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: C1

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net		
3.76 Air Free as Received	45.64 Moisture & Acid Gas Free	0.15 C_7+ Moisture Free	**3.40** Air Free as Received	41.55 Moisture & Acid Gas Free	

Calculated Density

Relative			Absolute	
1.459 Moisture Free As Received	0.766 Moisture & Acid Gas Free	3.667 C_7+ Moisture Free	696.5 C_7+ Density (kg/m³)	1.787 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7171.5 pPc (kPa)	298.5 pTc (K)	4137.2 pPc (kPa)	210.0 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
Stain Tube (GPA 2377)	17860 Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	25.75

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

Total Sample	C_7+ Fraction
42.3	106.2

Calculated Vapour Pressure

70.08 C_5+ (kPa)

Gas Compressibility

0.9926 @15 °C & 101.325 kPa

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
Sampling performed by AGAT Laboratories is done according to Field Sampling Procedure Manual

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GAS ANALYSIS

Version: 1

Container Identification	Sample Point Code	Meter Code	AGAT WDMS Number	Previous Number	Laboratory Number
13001191A			000249842	24GR203084D	24GR214956A

Operator Name	Sampling Point	Unique Well Identifier
ENHANCE ENERGY INC	RECYCLE GAS	04-15-040-24W4

Well Name	Well License	Well Status	Well Fluid Status	LSD
ENHANCE CLIVE 4-15 BATTERY				

Field or Area	Pool or Zone	Sampler's Company	Name of Sampler
CLIVE	NOT APPLICABLE	AGAT RED DEER	BB

Test Interval (mKB) From :	Test Interval (mKB) To:	Test Type	Test No.	Elevation (m) KB	Elevation (m) GRD	Pressure (kPa) Source	Pressure (kPa) Received	Temperature (°C) Source	Temperature (°C) Received
						3750	4000	10	20

Date/Time Sampled	Date Received	Date Analyzed	Date Reported	Location - Approved By - Title
Oct 30, 2024 12:10	Nov 01, 2024	Nov 06, 2024	Nov 06, 2024	Calgary - Bernie Diep - Supervisor

Other Information : FIELD H2S BY TUT = 1.724%

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0070	0.0875		0.0064
He	TRACE	TRACE		TRACE
N_2	0.0053	0.0663		0.0062
CO_2	0.9028	0.0000		0.9429
H_2S	0.0172	0.0000		0.0082
C_1	0.0522	0.6521		0.0282
C_2	0.0061	0.0763	21.7	0.0027
C_3	0.0045	0.0563	16.5	0.0022
iC_4	0.0012	0.0150	5.2	0.0005
nC_4	0.0019	0.0238	8.0	0.0012
iC_5	0.0005	0.0063	2.4	0.0003
nC_5	0.0005	0.0063	2.4	0.0004
C_6	0.0003	0.0038	1.6	0.0004
C_7+	0.0005	0.0063	3.2	0.0004
TOTAL	1.0000	1.0000	61.0	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: H2S, C1, C2, C3, IC4, NC4

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net	
4.00 Air Free as Received	44.51 Moisture & Acid Gas Free	0.11 C_7+ Moisture Free	**3.61** Air Free as Received	40.50 Moisture & Acid Gas Free

Calculated Density

Relative			Absolute	
1.451 Moisture Free As Received	0.740 Moisture & Acid Gas Free	3.653 C_7+ Moisture Free	696.0 C_7+ Density (kg/m³)	1.777 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7147.9 pPc (kPa)	297.5 pTc (K)	4164.1 pPc (kPa)	207.2 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
Stain Tube (GPA 2377)	17240 Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	24.74

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

Total Sample	C_7+ Fraction
42.0	105.8

Calculated Vapour Pressure

76.96 C_5+ (kPa)

Gas Compressibility

0.9936 @15 °C & 101.325 kPa

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
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AGAT Laboratories

GAS ANALYSIS

Version: 1

Container Identification	Sample Point Code	Meter Code	AGAT WDMS Number	Previous Number	Laboratory Number
13001004A			000249842	24GR190988B	24GR219672A

Operator Name	Sampling Point	Unique Well Identifier
ENHANCE ENERGY INC	RECYCLE GAS	04-15-040-24W4

Well Name	Well License	Well Status	Well Fluid Status	LSD
ENHANCE CLIVE 4-15 BATTERY				

Field or Area	Pool or Zone	Sampler's Company	Name of Sampler
CLIVE	NOT APPLICABLE	AGAT RED DEER	BB

Test Interval (mKB) From :	Test Interval (mKB) To:	Test Type	Test No.	Elevation (m) KB	Elevation (m) GRD	Pressure (kPa) Source	Pressure (kPa) Received	Temperature (°C) Source	Temperature (°C) Received
						4200	4200	8	23

Date/Time Sampled	Date Received	Date Analyzed	Date Reported	Location - Approved By - Title
Nov 12, 2024	Nov 13, 2024	Nov 19, 2024	Nov 19, 2024	Calgary - Svetlana Nikolic - Reporter

Other Information : FIELD H2S BY TUT: 1.459%/LAB H2S BY GC: 1.499%

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0067	0.0905		0.0065
He	TRACE	TRACE		TRACE
N_2	0.0049	0.0662		0.0053
CO_2	0.9110	0.0000		0.9097
H_2S	0.0150	0.0000		0.0179
C_1	0.0477	0.6446		0.0454
C_2	0.0058	0.0784	20.6	0.0058
C_3	0.0042	0.0567	15.4	0.0045
iC_4	0.0007	0.0095	3.1	0.0007
nC_4	0.0018	0.0243	7.6	0.0020
iC_5	0.0004	0.0054	2.0	0.0005
nC_5	0.0006	0.0081	2.9	0.0006
C_6	0.0003	0.0041	1.6	0.0004
C_7+	0.0009	0.0122	6.0	0.0007
TOTAL	1.0000	1.0000	59.2	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: H2S, C1

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net	
3.75 Air Free as Received	45.40 Moisture & Acid Gas Free	0.20 C_7+ Moisture Free	**3.39** Air Free as Received	41.32 Moisture & Acid Gas Free

Calculated Density

Relative			Absolute	
1.458 Moisture Free As Received	0.755 Moisture & Acid Gas Free	3.782 C_7+ Moisture Free	700.8 C_7+ Density (kg/m³)	1.785 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7162.2 pPc (kPa)	298.1 pTc (K)	4145.7 pPc (kPa)	208.5 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
Stain Tube (GPA 2377)	Tutweiler (GPA C1)	Other	14990 GC-SCD (ASTM D5504)	21.58

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

Total Sample	C_7+ Fraction
42.2	109.6

Calculated Vapour Pressure

62.34 C_5+ (kPa)

Gas Compressibility

0.9914 @15 °C & 101.325 kPa

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
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GAS ANALYSIS

Version: 1

Container Identification	Sample Point Code	Meter Code	AGAT WDMS Number	Previous Number	Laboratory Number
13001199B			000249842	24GR219672A	24GR229106B

Operator Name	Sampling Point	Unique Well Identifier
ENHANCE ENERGY INC	RECYCLE GAS	04-15-040-24W4

Well Name	Well License	Well Status	Well Fluid Status	LSD
ENHANCE CLIVE 4-15 BATTERY				

Field or Area	Pool or Zone	Sampler's Company	Name of Sampler
CLIVE	NOT APPLICABLE	AGAT RED DEER	BB

Test Interval (mKB) From :	Test Interval (mKB) To:	Test Type	Test No.	Elevation (m) KB	Elevation (m) GRD	Pressure (kPa) Source	Pressure (kPa) Received	Temperature (°C) Source	Temperature (°C) Received
						3800	3600	15	23

Date/Time Sampled	Date Received	Date Analyzed	Date Reported	Location - Approved By - Title
Dec 06, 2024	Dec 09, 2024	Dec 14, 2024	Dec 14, 2024	Calgary - Arpita Misra - Reporter

Other Information : FIELD H2S BY TUT: 1.462%, LAB H2S BY GC:1.1586%

COMPOSITION

Component	Mole Fraction: Air Free As Received	Mole Fraction: Air & Acid Gas Free As Received	Liquid Volume mL / m³	Mole Fraction of Previous Analysis
H_2	0.0062	0.0682		0.0067
He	TRACE	TRACE		TRACE
N_2	0.0056	0.0616		0.0049
CO_2	0.8945	0.0000		0.9110
H_2S	0.0146	0.0000		0.0150
C_1	0.0572	0.6293		0.0477
C_2	0.0069	0.0759	24.5	0.0058
C_3	0.0057	0.0627	20.9	0.0042
iC_4	0.0010	0.0110	4.4	0.0007
nC_4	0.0030	0.0330	12.6	0.0018
iC_5	0.0009	0.0099	4.4	0.0004
nC_5	0.0012	0.0132	5.8	0.0006
C_6	0.0010	0.0110	5.5	0.0003
C_7+	0.0022	0.0242	14.7	0.0009
TOTAL	1.0000	1.0000	92.8	1.0000

WDMS Data Verification Check

Exceeds normal limits: CO2, H2
Exceeded compare limits: C1, C2, C3, NC4, C6, C7

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa *(MJ/m³)*

Gross			Net	
5.07 Air Free as Received	51.59 Moisture & Acid Gas Free	0.49 C_7+ Moisture Free	**4.60** Air Free as Received	47.05 Moisture & Acid Gas Free

Calculated Density

Relative			Absolute	
1.454 Moisture Free As Received	0.857 Moisture & Acid Gas Free	3.790 C_7+ Moisture Free	701.1 C_7+ Density (kg/m³)	1.781 Total Sample Density (kg/m³)

Calculated Pseudo Critical Properties

As Sampled		Acid Gas Free	
7108.9 pPc (kPa)	297.9 pTc (K)	4166.6 pPc (kPa)	224.7 pTc (K)

Hydrogen Sulfide (H_2S) (ppm)

Field Value		Laboratory Value		g/m³
Stain Tube (GPA 2377)	14620 Tutweiler (GPA C1)	Other	GC-SCD (ASTM D5504)	21.00

Calculated Molecular Weight (Moisture Free as Received) (g/mol)

Total Sample	C_7+ Fraction
42.1	109.8

Calculated Vapour Pressure

57.51 C_5+ (kPa)

Gas Compressibility

0.9861 @15 °C & 101.325 kPa

Results relate to only items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.
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