FACT SHEET

Applicant:	Onstream CO_2, LLC 333 Clay St., Suite 2900 Houston, TX 77002 (281) 878-0074
Project Proposal:	Permit to drill one Class V Stratigraphic Test Well
Type of Facility:	N/A
Well Names:	CLC Byrd et al 001
Project Location:	Section 021, Township 15 South, Range 13 West, of Cameron Parish
Facility Local Address:	N/A
Application No.:	44855
Docket No.:	IMD 2024-07

Project Summary: The following information is prepared according to the requirements of Statewide Order No. 29-N-1, (LAC 43:XVII, Subpart 1) to briefly set forth the principal facts and significant policy questions considered in preparing a draft permit concerning an application by Onstream CO_2, LLC to drill one Class V stratigraphic test well in Cameron Parish, Louisiana.

The application is for the drilling of one proposed Class V stratigraphic test well. The total depth of the well is at a depth of approximately 9500 feet below ground level.

The acquisition of geotechnical data is proposed to occur in the drilling of this well. No disposal of waste via injection will occur.

General Information: Onstream CO_2, LLC proposes to collect geotechnical cores, fluid samples, static pressure measurements, and other applicable information.

The base of the lowermost underground source of drinking water (USDW) is approximately 1255 feet below ground level. There are 84 registered water wells located within a one mile radius of the proposed well location. The principal regional aquifer in the area comprises of the Chicot Aquifer below.

The complete application consists of the application form (Form UIC-25 Stratigraphic Test); technical attachments describing the geology, hydrology, construction, completion, and financial responsibility estimate.

The draft permit conditions were based on applicable rules and regulations as set forth in Statewide Order No. 29-N-1 (LAC: 43:XVII, Subpart 1) as amended. Such rules provide for the protection and non-endangerment of USDW regarding the permitting, drilling, completing, operating and maintaining of Classes I (nonhazardous waste), III, IV, and V injection well operations in the State of Louisiana.

Application Locations: An application package is available for inspection at the Louisiana Office of Conservation, Injection and Mining Division, LaSalle Building, 617 North Third Street, Room 817, Baton Rouge, LA 70802 from 8:00 am until 4:30 pm, Monday through Friday. To view, please ask for the Onstream CO_2, LLC Class V Permit Application identified at the beginning of this document. The application package is also available at the Louisiana Department of Energy and Natural Resources, Class VI Carbon Sequestration website.

For information regarding the public hearing or any information concerning the application, refer to the Public Notice for Docket No. IMD 2024-07, or call Scott St. Romain at (225) 342-5517, Monday through Friday, between the hours of 7:00 a.m. to 3:30 p.m.

Comment Period: The public comment period officially commences August 8, 2024 at 8:00 a.m. and concludes, September 20, 2024 at 4:30 p.m. Submit all comments in writing to Scott St. Romain, Louisiana Office of Conservation, Injection and Mining Division, 617 N. 3rd St, Baton Rouge, LA 70802. Comments may also be e-mailed to info@la.gov. Please reference Onstream CO_2 Class V Permit, Application Number 44855, Docket No. IMD 2024-07.

Public Hearing: The public hearing will be held September 19, 2024, 6:00 pm at the Cameron Parish Police Jury West Annex Town Hall at 148 Smith Circle in Cameron, Louisiana.

JEFF LANDRY
GOVERNOR

TYLER PATRICK GRAY
SECRETARY

BENJAMIN C. BIENVENU
COMMISSIONER OF CONSERVATION

State of Louisiana

DEPARTMENT OF ENERGY AND NATURAL RESOURCES
OFFICE OF CONSERVATION

July 30, 2024

Bryan Saunders
Onstream CO_2, LLC (60072)
333 Clay St., Suite 2900
Houston, TX 77002

*** * * APPROVAL TO CONSTRUCT * * ***

RE: Stratigraphic Test Well – New Drill
CLC Byrd et al 001
Wildcat-SO-LA LAFAYETTE DIST
Cameron Parish

Application No. 44855
Serial No. _____
API No. _____

Dear Mr. Saunders:

The application by Onstream CO_2, LLC (60072) to drill a Class V stratigraphic test well has met the interim requirements for permitting such a well. The issuance of this Permit to Construct constitutes a final permit decision regarding the construction of this well. You are hereby granted approval to perform the work as described in the application. The approved work must be completed by _____ __, 2024.

Onstream CO_2, LLC is to notify the Conservation Enforcement Specialist (CES) for Cameron Parish, Billy Carnes at (225) 405-7470, Monday through Friday, or by calling the Injection and Mining Division at (225) 342-5515 at least 72 hours prior to commencement of work. At least 48 hours before the casing test of the long string, contact the CES to schedule a witnessed casing test.

Within twenty (20) days after completion of the work, submit the documentation requested in the enclosed Reporting Requirements to the Injection and Mining Division. PLEASE READ THE ENCLOSURES CAREFULLY.

Please be reminded that for future work on the well, a work permit approval must be obtained from this office before repairing, stimulating, plugging, or otherwise working on this well.

Yours very truly,

Benjamin C. Bienvenu
Commissioner of Conservation

Stephen H. Lee, Director
Injection and Mining Division

OFFICE OF CONSERVATION

IMD REPORTING REQUIREMENTS >> Class V Stratigraphic Test

Drilling and construction of the well must be completed within one (1) year from the date of the permit approval letter, otherwise, the permit will expire. **Before the expiration of the permit, the operator must notify the Injection and Mining Division (IMD) if a time extension will be requested or if well will not be drilled**.

The approved application describes how the well is to be constructed. Changes in the approved construction, such as well surface location, well depth, or casing setting depths, will require prior written approval from IMD. Failure to obtain prior written approval will be cause for revoking the permit.

At least forty-eight (48) hours prior to commencement of work, the appropriate Conservation Enforcement Specialist (CES) identified below must be contacted. If you are unable to reach the CES, please call the Injection and Mining Division at (225) 342-5515 between the hours of 8:00 a.m. and 4:30 p.m., Monday through Friday.

Application No.	**44855**	Serial No.	
CES Name	**Billy Carnes**	CES Phone No.	**(225) 405-7470**

Within twenty (20) days after completion of the well, the completion documents listed below must be filed with IMD for review and approval in compliance with the regulations. Please place the well's Serial Number on the log headings.

- A Class V Well History and Work Résumé Report (Form UIC-42 STRAT TEST) with an original signature from an authorized representative of the operating company and two photocopies of the form (front and back). The Form UIC-42 can be saved, filled-out, and printed by going to www.dnr.louisiana.gov/consforms >> Injection & Mining Division >> Form UIC-42.
- Two (2) copies of the wellbore schematic depicting the completed well.
- Two (2) copies of the electric log used to identify the USDW.
- Two (2) copies of the cement bond log for each respective casing string.
- An original AFFIDAVIT OF TEST OF CASING IN WELL (Form CSG-T) signed by a company representative and witnessed by a third party for each casing. Provide a copy of the properly labeled pressure chart if the Form CSG-T does not have a witnessed signature. Include the well name, well serial number, casing size, test start time and stop time, date of test, and signature of company representative**.** The Form CSG-T can be downloaded from www.dnr.louisiana.gov/consforms >> Injection & Mining Division >> Form CSG-T.

Send the above required documentation together in **ONE PACKAGE** to:

Office of Conservation- 9th Floor
Injection & Mining Division
617 North 3rd Street
Baton Rouge, LA 70802

APP No. 44855
REV 3 6-12-2024

CLASS V STRAT TEST WELL PERMIT APPLICATION

OFFICE OF CONSERVATION
INJECTION & MINING DIVISION
617 N. Third St., 9th FLOOR
BATON ROUGE, LA 70802

Injection-Mining@la.gov
(225) 342-5515

UIC-25 STRAT TEST | **PLEASE READ APPLICATION INSTRUCTIONS** | **TYPE ONLY**

1. APPLICATION TYPE: (Check One)

☐ DRILL AND COMPLETE NEW CLASS V WELL ☐ CONVERT AN EXISTING WELL TO CLASS V

☑ OTHER (SPECIFY): Drill stratigraphic test well and plug and abandon.

2. IDENTIFY WELL USE

Acquire geotechnical information for reservoir characterization; plug and abandon when finished.

3. IDENTIFY FUTURE WELL USE (i.e. Conversion to Class VI, monitor well, P&A, etc.)

P&A

4. OWNER/OPERATOR NAME	5. OC OPERATOR CODE
Onstream CO2, LLC	60072

6. OWNER/OPERATOR MAILING ADDRESS	7. CITY, STATE, ZIP CODE
333 Clay St., Suite 2900	Houston, TX 77002

8. TELEPHONE NO	9. E-MAIL ADDRESS
281-878-0074	NWaligura@castexenergy.com

10. WELL NAME	11. WELL NO	12. WELL SERIAL NO (Well Conversions Only)
CLC Byrd et al	001	

13. FIELD NAME	14. FIELD CODE
Wildcat-SO-LA LAFAYETTE DIST	9727

15. PARISH NAME	16. SECTION	17. TOWNSHIP	18. RANGE
Cameron	021	15S	13W

19. LOCATION COORDINATES (GCS, NAD 27)

LATITUDE:	29 °	45 MIN	31.97 SEC
LONGITUDE:	93 °	38 MIN	41.86 SEC

20. STATE PLANE COORDINATES (LAMBERT, NAD 27)

☐ NORTH ZONE ☑ SOUTH ZONE

X: 1266562.2 Y: 404575.65

21. LEGAL LOCATION DESCRIPTION (FROM LOCATION PLAT):

S84°09'18"E 18,174.55' from NGS Mon. "CRMSCS SM 08", falling in Section 21, T 15 S - R 13 W, Cameron Parish, Louisiana.

OFFICE OF CONSERVATION

JUN 21 2024

APP No. 44855
REV 3 6-12-2024

22. LIST PERMITS, LICENSES, OR APPROVALS THE APPLICANT HAS RECEIVED OR APPLIED FOR WHICH SPECIFICALLY AFFECT THE APPLICANT'S LEGAL OR TECHNICAL ABILITY TO CARRY OUT THE PROPOSED ACTIVITY. INCLUDE IDENTIFICATION NUMBER OF APPLICATIONS OR, IF ISSUED, THE IDENTIFICATION NUMBER OF THE PERMIT, LICENSE, OR OTHER APPROVALS.

Regulatory Program or Agency	Permits, Licenses, Construction, Project Approval Identification
LA DNR, Office of Coastal Management	CUP No. P20231022
NOD Corps of Engineers	NPR MVN-2024-0074-BC
Cameron Parish Police Jury	Letter of no objection

23. WELL CASING / CEMENT DATA

CASING SIZE (OD-INCHES)	HOLE DIAMETER (INCHES)	CASING WEIGHT (LB/FT)	CASING GRADE	CASING SETTING DEPTHS TOP	CASING SETTING DEPTHS BOTTOM	TOTAL SACKS	SACKS CEMENT (Lead/Tail)	TYPE (Lead/Tail)	YIELD (CU FT/SACK) (Lead/Tail)	CEMENT TOP
16 x 1/2	16	Conductor	Conductor	0	250'	0	0	Drive to refusal	N/A	N/A
9-5/8	12-1/4	36	J55 BTC	0	3200'	1070	775/295	Poz-A/A	2.24/1.18	Surface

ALL WELL DEPTHS SHOULD BE GIVEN IN MD

24. BASE OF USDW (FT):	25. REFERENCE E-LOG FOR USDW (SERIAL NUMBER):
1255	970849

26. WELL TOTAL DEPTH (FT):	27. PLUGBACK DEPTH (FT):	28. TUBING SIZE & DEPTH:	29. PACKER SIZE & DEPTH:
9500	9500	N/A	N/A

INJECTIVITY TEST INFORMATION (IF APPLICABLE)

30. INJECTION ZONE DEPTHS		31. COMPLETION/PERFORATION DEPTHS	
N/A	N/A	N/A	N/A
Top:	**Bottom:**	**Top:**	**Bottom:**

32. REFERENCE E-LOG FOR INJECTION ZONE INFO (SERIAL NUMBER): N/A

33. WELL COMPLETION ☑ OPEN HOLE ☐ PERFORATIONS ☐ SCREEN

34. TEST MATERIAL (e.g. nitrogen, brine, etc):	35. MAXIMUM TEST PRESSURE (psi):	36. TOTAL INJECTION VOLUME (bbls):
N/A	N/A	N/A
CO_2 is prohibited as a Class V test material		

37. Is the Well Located on Indian Lands or Other Lands Owned by or under the Jurisdiction or Protection of the Federal Government?	☐ YES ☑ NO
38. Is the Well Located on State Water Bottoms or Other Lands Owned by or under the Jurisdiction or Protection of the State of Louisiana?	☐ YES ☑ NO
39. If the proposed well is associated with a potential Class VI geologic sequestration project, does the applicant own the mineral rights at the proposed well locations?	☐ YES ☑ NO
40. If no, has written notification been provided to the mineral owner(s)?	☑ YES ☐ NO

OFFICE OF CONSERVATION

JUN 21 2024

INJECTION & MINING DIVISION

41. AGENT OR CONTACT AUTHORIZED TO ACT ON BEHALF OF THE APPLICANT DURING THE PROCESSING OF THIS APPLICATION

NAME: Jacqueline Gerst

COMPANY: CarbonVert

MAILING ADDRESS: 333 Clay St., Suite 2900, Houston, TX 77002

TELEPHONE NUMBER: 614-625-1690

E-MAIL ADDRESS: jackie@carbonvert.com

42. CERTIFICATION BY WELL OWNER/OPERATOR

I certify that as the owner/operator of the injection well, the person identified in Item No. 37 above is authorized to act on my behalf during the processing of this application, to submit additional information as requested, and to give oral statements in support of this application. I will grant an authorized agent of the Office of Conservation entry onto the property to inspect the injection well and related appurtenances as per LSA-R.S. 30:4. I agree to operate the well in accordance with Office of Conservation guidelines. I further certify under penalty of law that I have examined and am familiar with the information submitted in this document and all attachments and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment or both (LSA-R.S. 30:17).

Print Name of Well Owner/Operator	Print Title of Company Official (as applicable)
Bryan Saunders/Onstream CO2, LLC	Technical Lead

Signature of Well Owner/Operator	Date
Bryan Saunders	6/18/2024

OFFICE OF CONSERVATION

JUN 21 2024

INJECTION & MINING DIVISION

Additional information related to boxes #39 & #40 responses on UIC-25

#39. If the proposed well is associated with a potential Class VI geologic sequestration project, does the applicant own the mineral rights at the proposed well locations? No.

The available answer boxes (Y/N) do not allow for an accurate response if the proposed well is not associated with a Class VI project. An unchecked box might be interpreted as an incomplete application.

The well proposed by this application is not associated with a potential Class VI geologic sequestration project that includes the pore space beneath the drill site. Additionally, the drill site lease does not share a common border with a potential Class VI project. The drill site and pore space beneath it is geographically and spatially separate from a potential Class VI geologic sequestration project. The test well location is located approximately 1.3 mi WNW from the NW corner of our potential Class VI project lease. The sole purpose of the test well is to gather the data required to evaluate the potential storage interval for geologic sequestration. This well will be plugged and abandoned once the required data is acquired. It has no future utility as an observation well and because it is not within the boundaries of our lease or our potential Class VI AOR volume, this drill site will never be in contact with a CO2 or pressure plume generated by a CO2 sequestration project. Therefore, it's not necessary to own mineral rights at the well location. While this wellbore has no future utility after data acquisition, the data obtained will become part of the public record as part of the DOE/CarbonSAFE program.

#40. If no, has written notification been provided to the mineral owner(s)? No.

Because the proposed well is not associated with a potential Class VI project, the operator has not sought and does not have mineral rights beneath the drill site. The operator does have contractual rights to drill the well and acquire data.

UIC-25 (Rev12/23), Section III, "IT" Decision Questions

The "IT Decision" involved a hazardous waste permit under the State's Hazardous Waste Management Plan consistent with the federal Resource Conservation and Recovery Act (RCRA). To meet its obligation under the "IT Decision", the LDEQ prepared a list of questions which addresses what LDEQ deemed necessary to make permit decisions. The main questions touch upon certain issues and considerations which would be applicable to Office of Conservation waste permit decisions.

In order to satisfy constitutional requirements (Article IX, section 1, of the Louisiana Constitution), the Office of Conservation must conduct the "balancing process" utilizing the information and data which will form part of the record supporting the decision on this application to permit the proposed activity. In this case, the proposed activity is to drill a stratigraphic test well (test well) to gather the geologic and engineering data necessary to evaluate whether a nearby carbon sequestration project is feasible. Existing geologic data overwhelmingly indicate that data gathered at the test well location will be representative of our proposed storage area even though the test well is not located within the nearby planned CO2 storage volume, expected pressure volume or the

CO2 lease boundary. Because the test well is not within the planned CO2 storage volume, there will be no CO2 injection, storage or monitoring of injection activities at this well. The test well will have no future utility to the storage project or anything else after the required data is gathered and it will be plugged and abandoned.

To help in the evaluation of this application, we must address the following "IT Decision" questions:

1. Have the potential and real adverse environmental effects of the proposed facility been avoided to the maximum extent possible?
2. Does a cost benefit analysis of the environmental impact costs balanced against the social and economical benefits of the proposed facility demonstrate the later outweighs the former?
3. Are there alternative projects which would offer more protection to the environment than the proposed facility without unduly curtailing non-environmental benefits?
4. Are there alternative sites which would offer more protection to the environment than the proposed facility site without unduly curtailing non-environmental benefits?
5. Are there mitigating measures which would offer more protection to the environment, than the facility as proposed, without unduly curtailing non-environmental benefits?

The purpose of the test well proposed by this permit application is preliminary testing to evaluate the suitability of the geology in order to determine whether a nearby carbon sequestration project can move forward. The test well will not experience CO2 injection or storage and is outside the lease boundary. Even if data acquired from the test well is favorable, the test well will be plugged and abandoned with no future utility of any kind and will not have contact with any planned Class VI project.

Nevertheless, the well program proposed in this application satisfies the criteria of the "IT Decision" questions. This project avoids the potential and real adverse environmental effects to the maximum extent possible. Alternative sites, alternative projects or other mitigating measures would not offer more protection for the environment than the project as proposed without unduly curtailing nonenvironmental benefits. A cost-benefit analysis of the environmental impact costs balanced against the social and economic benefits of the proposed project demonstrates that the latter outweigh the former.

The drilling plan for the proposed test well will protect USDWs. The test well is surrounded by many wellbore penetrations with well logs and they present consistent results for the USDW depth. The depth of the USDW is identified in the application and surface casing will be cemented from the base of casing up to surface to cover and protect freshwater zones. Regulatory requirements for plugging will ensure freshwater zones continue to be protected when operations on the test well are completed.

Onstream CO2 LLC applied for and received a Coastal Use Permit from the Louisiana Department of Natural Resources, Office of Coastal Management to conduct drilling operations on a land-based site within an existing permitted facility, i.e. the test well location. The test well site was selected to minimize surface impacts while at the same time acquiring the required geologic information for a potential Class VI permit. The test well location was chosen to acquire geologic data that is representative of a potential carbon sequestration site. Extensive, existing data

indicates this site is suitable for that purpose. The location is situated within an existing commercial facility. Because of this, no new roads will be required to access the location. Additionally, the site has a grassy cover that will be protected with a board location. Following plugging, restorative measures will be initiated to bring the site back to its prior vegetative state.

There is also existing, commercially available seismic data covering the test well location, so a new survey isn't required. For these reasons, we feel that this is the best site that meets technical objectives and has the least environmental impact.

Drilling operations will be zero-discharge. No cuttings, drill fluids or solids of any kind will be discharged into in-ground pits or on the surface. All cuttings and drilling fluids will be tested and disposed of as required to licensed disposal facilities.

Onstream CO2 LLC also has a well control emergency response plan in place that establishes a framework to manage all steps to regain control of the well in the event of an unexpected incident. Objectives of this plan include prevention of personal injury, minimization of environmental impacts, and notification and communication with all necessary parties. In the event of an unexpected incident, an emergency response plan will be implemented.

Appl No. 44855 (Comments from Patrick Regan 6/12/2024)

In the IT responses, please elaborate on the section regarding the cost-benefit analysis, particularly as it relates to the existing nearby penetrations and data. You should address the existing data and why it is not sufficient to characterize the target zones for your sequestration project.

Our proposed Class V permit strat well is designed to gather the necessary geologic and engineering data necessary to evaluate whether a carbon sequestration project, in an offshore (state waters) environment, is feasible. Our evaluation of potential sites considered several factors which include: whether the geology is representative of our potential storage volume, what is the confidence level that we will find geologically what we expect to find at that strat well location, is the site onshore or offshore, what is the relative impact of a strat well onshore sites with respect to current usage and the surrounding environment, and can we gather the necessary technical data economically.

There are several existing wellbores around our proposed strat well site. We are very confident, based on existing geologic data, that the geologic and engineering data our well plan proposes will be representative of our potential storage volume. We have prepared numerous geologic cross sections that support this conclusion. Useable core data was not acquired from existing wellbore penetrations in the nearby area and log data over our potential storage interval is essentially limited to resistivity-SP/GR logs. This may be due to the technology available at the time of drilling, but also because those exploring for hydrocarbons understood that the potential storage interval is not prospective for oil or gas development. Extensive formation evaluation programs are required for Class VI permit applications and a successful storage project. Most of that data is not available from existing wellbores. The proposed formation evaluation program at our proposed site will be extensive and an onshore location allows more operational flexibility, than if located offshore, to execute the required program to verify feasibility.

At a high level, we know that drilling operations are more expensive offshore than onshore. The proposed strat well site is located within an existing commercial operating site. Roads from public highways are already in place. The site has been in place since 1982 and the drill site surface is maintained with a grassy cover that is regularly mown. Additionally, the commercial site is an onshore gas separation facility site. Within a two-mile radius, most other development is also commercial. All of this helps meet site selection criteria to minimize surface impact. Environmentally, siting wells in the offshore environment should be done cautiously. By using the Johnson Bayou site, we will be optimizing the offshore locations and minimizing sea floor and shoreline disturbances. Data collected from the strat well is crucial to the design of the Cameron Parish project.

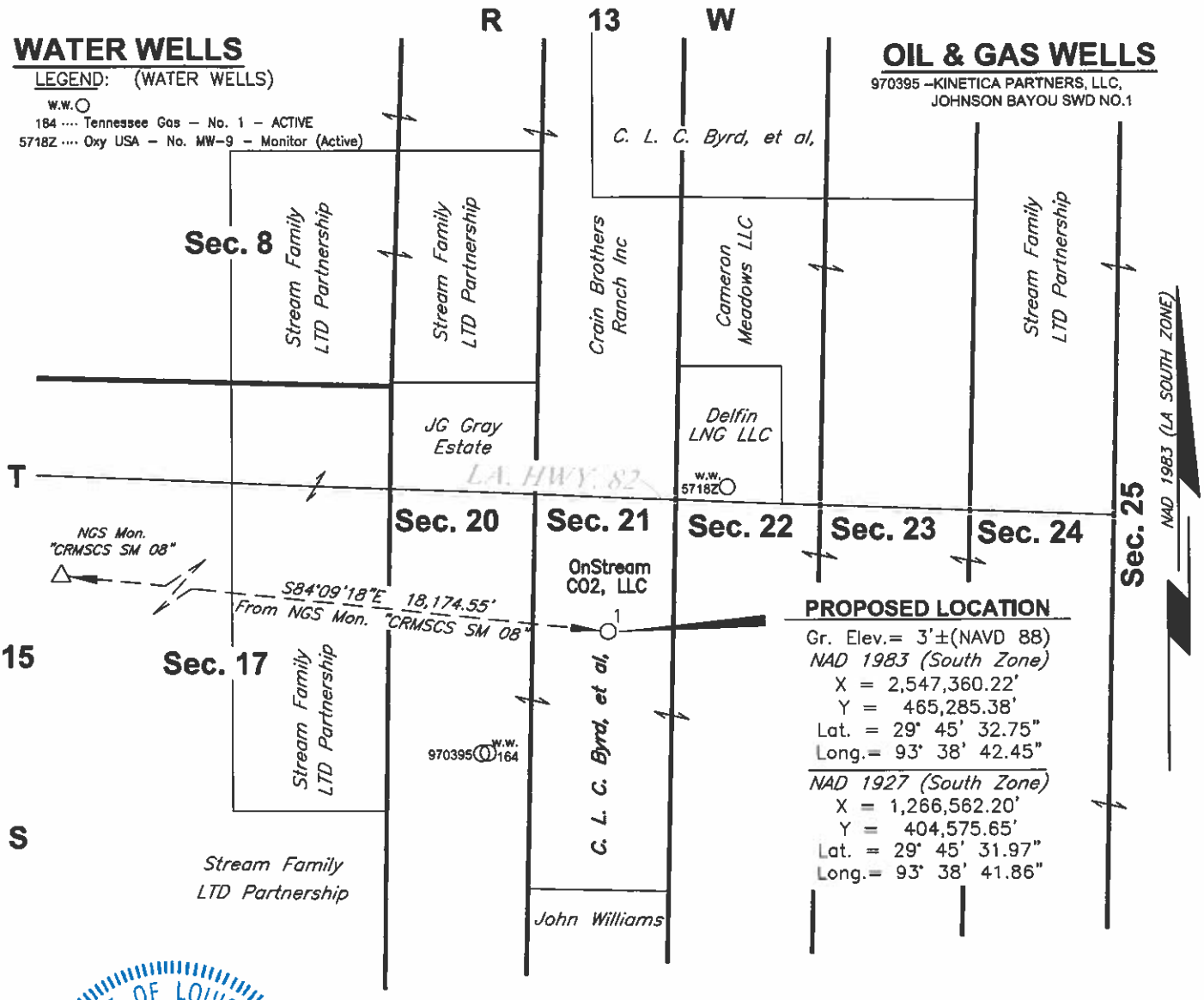
Because of these factors, the proposed site is the most favorable for our strat well. Therefore, a strat well, at the proposed location, helps mitigate risk associated with developing a carbon sequestration project with the least environmental impact when compared to other alternatives.

The proposed well site is more than a mile from the northwest corner of our lease boundary. Purposely, a CO2/pressure plume at a potential storage site will be designed to stay within lease boundaries. The strat wellbore will never see a CO2 or pressure plume. Following the acquisition of the necessary data, the well will be plugged and surface restored to its prior condition.

044855

Part 3 – Original Certified Location Plat showing the Location of the Proposed Strat Test Well

044855



STATE OF LOUISIANA
C. L. JACK STELLY, JR.
REG No. 4940
REGISTERED LAND SURVEYOR

OFFICE OF CONSERVATION
DEC 29 2023
INJECTION & MINING DIVISION

NOTES:

1. I, C. L. Jack Stelly, Jr., Professional Land Surveyor, certify that the well location depicted and described in this plat was (staked or located) and surveyed in the field by me or under my direction with accuracy and precision to the nearest foot. I have properly examined this plat and have determined that it complies with existing local Louisiana codes, and has been properly site adapted to use in this area.
2. No Commercial or Residential Structures not owned by the Applicant, his Lessor, or other Predecessor in interest are located within a 500' radius of the well site.
3. Ground Elevation based upon Online Positioning User Service (OPUS) Solution to the nearest foot.
4. Survey Date of Well October 30, 2023.

I, C. L. Jack Stelly, Jr., hereby certify that the Loc'n of OnStream CO2, LLC's *C. L. C. Byrd, et al No. 1* is as follows: S84°09'18"E 18,174.55' from NGS Mon. "CRMSCS SM 08", falling in Section 21, T 15 S – R 13 W, Cameron Parish, Louisiana.

C. L. Jack Stelly

C. L. JACK STELLY, JR., P.L.S.
REGISTERED LAND SURVEYOR NO. 4940
STATE OF LOUISIANA
C. L. JACK STELLY & ASSOCIATES, INC.
143 WALL STREET, LAFAYETTE, LA 70506
PH. (337) 237-0746
FILE NO. 16248-20322-L1-R1.DWG

LOUISIANA OFFICE OF CONSERVATION

OnStream CO2, LLC

C. L. C. Byrd, et al, No. 1

CAMERON PARISH, LOUISIANA

0' 1,000' 2,000'

SCALE: 1" = 1,000'

DECEMBER 19, 2023

Part 4 – Injection is not being proposed, so there is not a part 4 enclosed

044855

Part 5 – Copy of the nearest offset well, having a Well Log showing the USDW

App. No. 44855
Attachment 2
Revised 4/18/2024

Williams Field Services Co.-UTOS/NHI SWD #1
Serial # 970849
API 17-023-88035
Sec 22-T15S-R13W
Closest well showing the USDW
Approximately 4,012' to location

OFFICE OF CONSERVATION

APR 19 2024

INJECTION & MINING DIVISION

CHARLENE
WELL SURVEYING COMPANY
ELECTRIC LOG

COMPANY LAYNE LOUISIANA, INC.

WELL TRANSCONTINENTAL GAS P.L. LINE CO. SWD. WELL #1

FIELD WATER WELL SN 970849

COUNTY CAMERON STATE LOUISIANA

Location CAMERON MEADOWS

Sec. 22 Twp. 15S Rge. 13W Ser. No. 970849

Other Services: SAME

Permanent Datum: GROUND LEVEL , Elev.
Log Measured From SAME Ft. Above Perm. Datum
Drilling Measured From

Elev.: K.B.
D.F.
G.L.

Date	9-23-77			
Run No.	ONE 1			
Depth—Driller	2530			
Depth—Logger	2530			
Btm. Log Inter.	2529			
Top Log Inter.	100			
Casing—Driller	16" @ 100'	@	@	@
Casing—Logger	100			
Bit Size	9 7/8			
Type Fluid in Hole	GEL CAUSTIC			
Dens. | Visc.	|	|	|	|
pH | Fluid Loss	| ml	| ml	| ml	| ml
Source of Sample	MUD PIT			
R_m @ Meas. Temp.	1.50 @ 76 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
Source: R_{mf} R_{mc}	|	|	|	|
R_m @ BHT	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	2 HOURS			
Max. Rec. Temp.	°F	°F	°F	°F
Equip. | Location	215 | MANV	|	|	|
Recorded By	GREEN			
Witnessed By	ARDOIN-WILLIAMS			

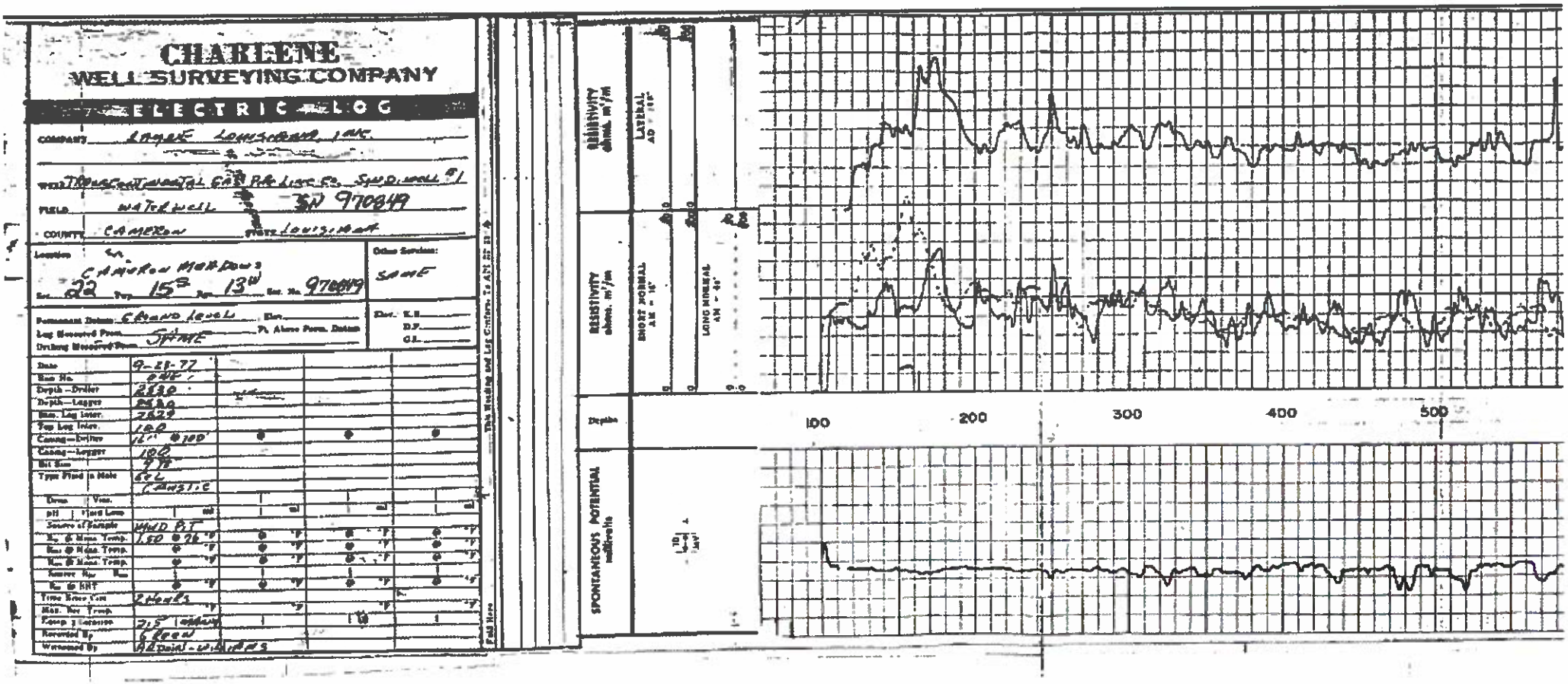
This Heading and Log Conform To API RP 31-A

App. No. 44855
Attachment 2
Revised 4/18/2024

OFFICE OF CONSERVATION

APR 19 2024

INJECTION & MINING DIVISION

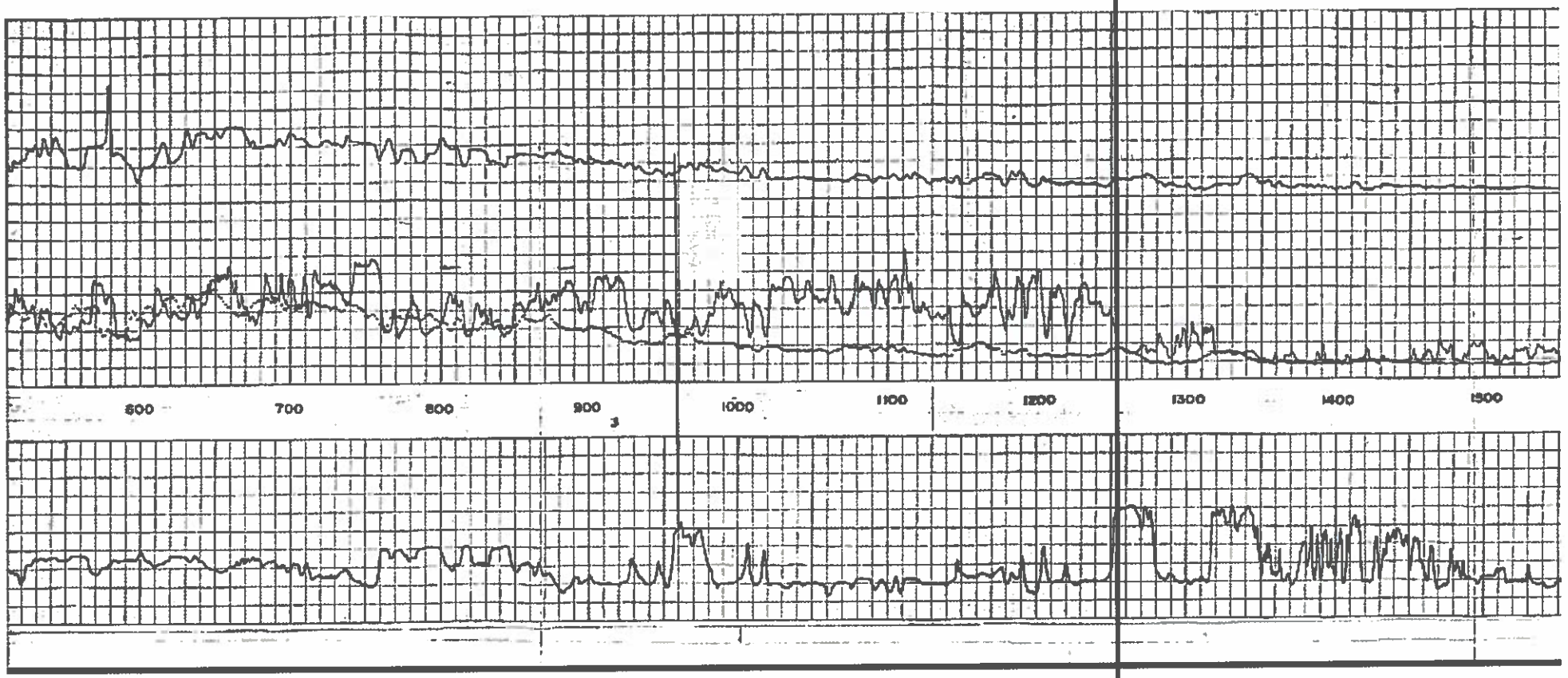


App. No. 44855
Attachment 2
Revised 4/18/2024

OFFICE OF CONSERVATION

APR 19 2024

INJECTION & MINING DIVISION

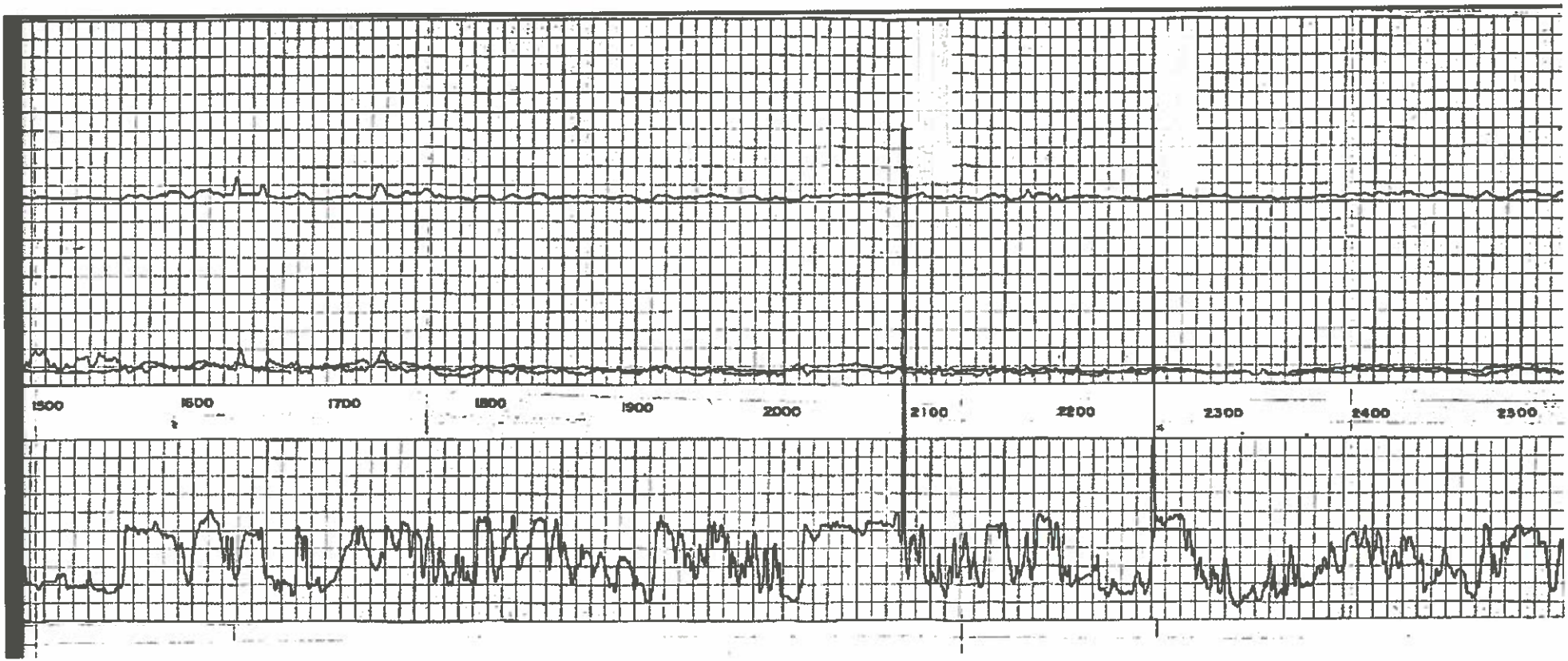


App. No. 44855
Attachment 2
Revised 4/18/2024

OFFICE OF CONSERVATION

APR 19 2024

INJECTION & MINING DIVISION

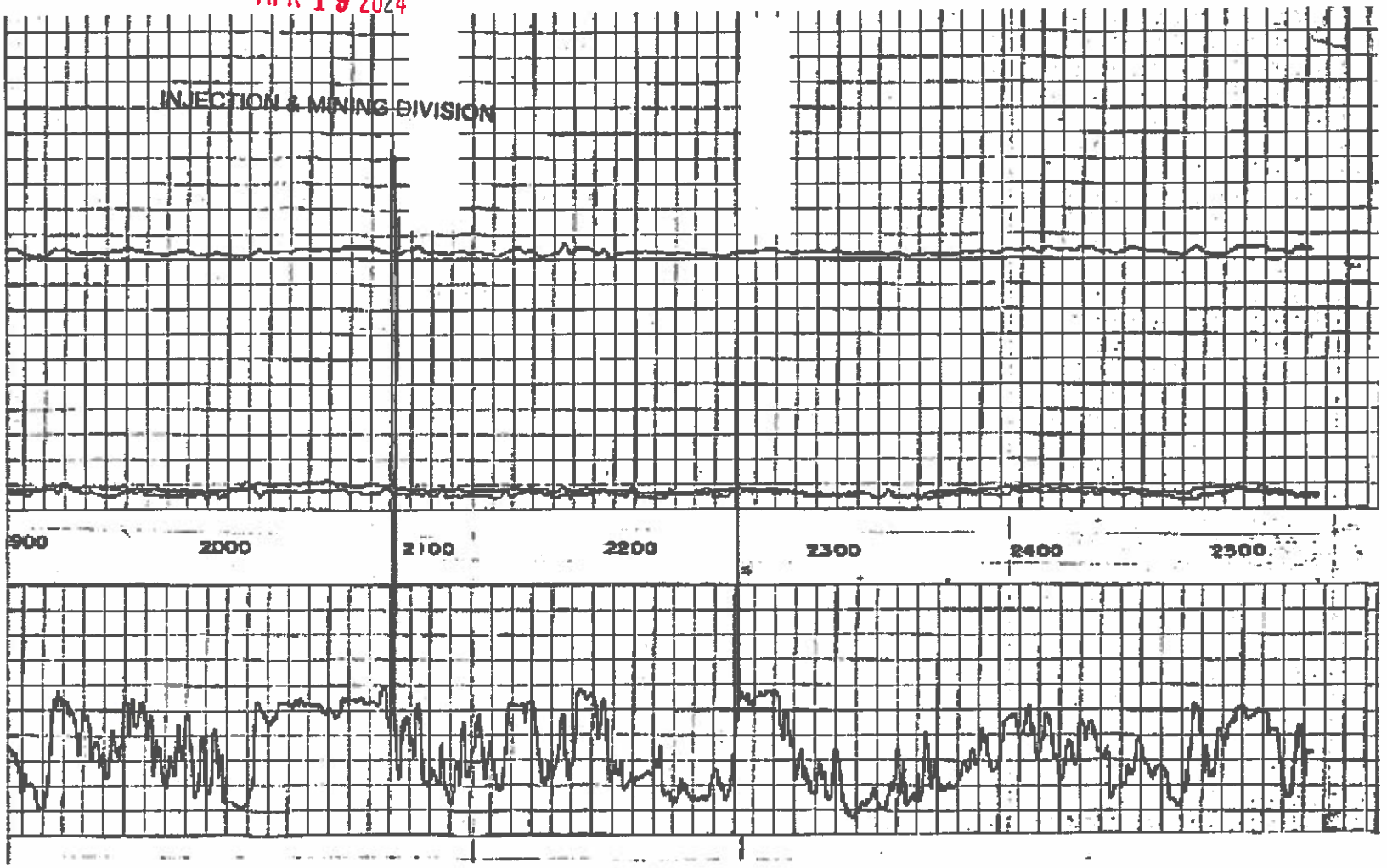


App. No. 44855
Attachment 2
Revised 4/18/2024

OFFICE OF CONSERVATION

APR 19 2024

INJECTION & MINING DIVISION



044855

Part 6 – Copy of Offset Well showing the proposed Storage Interval

044855

Annotated copy of an electric from the nearest offset well showing the proposed storage interval

Well Name: J.B. Erbelding #1

S-T-R: 17-15S-13W

API: 17-023-20902

Serial Number: 148043

Distance from proposed strat well: Approximately 3982 ft

148043

Schlumberger

ISF/SONIC

CONFIDENTIAL LOG Act 4.
1st Letter Request 4-5-75
1st Period 5-30 to 5-30-76
2nd Letter Request 5-1-76
2nd Period 5-30-76 to 5-30-77
Serial No. 148043

COMPANY GENERAL AMERICAN OIL CO. OF TEXAS

(6.) 17-023-20902

WELL J. B. ERBELDING NO. 1

FIELD WILDCAT - ~~JOHNSONS BAYOU~~

COUNTY CAMERON STATE LOUISIANA

Location: FNW/C SEC. 17. GO S 3132' & E 2310' TO LOC.
Sec. 17 Twp. 15S Rge. 13W

API Serial No. 148043

Other Services: HRD. RFT. ST

Permanent Datum BHF ; Elev.: NA
Log Measured From RKB 15 Ft. Above Perm. Datum
Drilling Measured From SAME

Elev.: K.B. NA
D.F. NA
G.L. NA

Date	4-11-75	4-15-75	5-6-75	5-16-75
Run No	ONE	TWO	THREE	FOUR
Depth—Driller	10500	10919	11714	12500
Depth—Logger	10503	10915	11709	12500
Btm. Log Interval	10496	10914	11700	12499
Top Log Interval	3197	10196	10896	11620
Casing—Driller	11 3/8 @ 3202	11 3/8 @ 3202	7 5/8 @ 10890	7 5/8 @ 10890
Casing—Logger	3197	3202	10896	10896
Bit Size	10 5/8"	9 5/8"	6 1/2"	6 1/2"
Type Fluid in Hole	RD-111	RD-111	RD-111	RD-111
Fluid Level	FULL	FULL	SURFACE	FULL
Dens. / Visc.	10.4+ / 39	12.3 / 36	13.3 / 45	13.8 / 46
pH / Fluid Los	8.5 / 9.2 ml	10.5 / 11.0 ml	9.5 / 5.2 ml	9.5 / 5 ml
Source of Sample	PIT	PIT	PIT	PIT
R_m @ Meas. Temp	0.506 @ 102 °F	0.28 @ 76 °F	0.47 @ 94 °F	.506 @ 98 °F
R_{mf} @ Meas. Temp.	0.63 @ 70 °F	0.28 @ 64 °F	0.26 @ 94 °F	.447 @ 72 °F
R_{mc} @ Meas. Temp.	1.26 @ 70 °F	- @ - °F	1.3 @ 94 °F	.95 @ 98 °F
Source: R_{mf} / R_{mc}	M / -	M / -	M / C	M / C
R_m @ BHT	.307 @ 168 °F	.1 @ 180 °F	0.22 @ 200 °F	- @ 212 °F
Time Since Circ.	4½ HRS.	0200	6 HRS.	5 HRS.
Max. Rec. Temp.	168 °F	180 °F	200 °F	212 °F
Equip. / Location	7687 / OPEL	7664 / OPEL	7652 / LCT	7687 / OPEL
Recorded By	WALSH	CRIBB-GROOME	WALKER	BLINTEN
Witnessed By	MESSRS: BARTON-MILLER	BOWMAN / MILLER-BARTON		BARTON-*

CONFIDENTIAL RELEASED TO PUBLIC

FOLD HERE JJ/WB

The well name, location and borehole reference data were furnished by the customer

CHANGES IN MUD TYPE OR ADDITIONAL SAMPLES

Date	Sample No.							
Depth - Driller								
Type Fluid in Hole								
Dens. / Visc.								
ph / Fluid Loss								
Source of Sample								
R_m @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F				
R_{mf} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F				
R_{mc} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F				
Source: R_{mf} / R_{mc}								
R_m @ BHT	@ °F	@ °F	@ °F	@ °F				
R_{mf} @ BHT	@ °F	@ °F	@ °F	@ °F				
R_{mc} @ BHT	@ °F	@ °F	@ °F	@ °F				

SCALE CHANGES

	Type Log	Depth	Scale Up Hole	Scale Down Hole
	SP	10470	15	10
	SP	10896	10	15
	SP	11680	15	10

LSN45241700000148043

OFFICE OF CONSERVATION

DEC 29 2023

INJECTION & MINING DIVISION

REMARKS

Service Order No. 26061

**3) MILLER 4) BARTON

***NO STAND-OFF USED DUE TO SMALL BOREHOLE (TAPE USED AROUND SONIC).

EQUIPMENT DATA

Run No.	ONE	TWO	THREE	FOUR
Ind Panel No.	UB 26	73	13	81
Mem. Panel No.	AB 100	62	29	100
Ind. Cart. No.	MA 81	75	53	93
ind Sonde No.	S 11	58	18	87
Sonic Panel No.	JF 448	111	389	448
Oscil. Panel No.	B 289	351	284	289
Sonic Cart No.	DD 443	DH-35	134	443
Sonic Sonde No.	QA X3	KB-43	KB-35,	QA-X3
GR Cart No.	-	-	-	-

TTR No. D	720	-	-	-
S.E	6.5	21	5.55	200
SBR	0.5	.5	.5	0.5
Cent. Device	YES	CS	CS	C
Stand off Inches	2	1½		
Time Const.-Sec.	-			
Speed-F.P.M.	-	4000	-	-

Velocity (feet per second) — 1,000 000 / Interval Transit Time (microseconds per foot)

[X] Surface determined sonde errors used for 6FF40.

[ ] 6FF40 conde error corrected for _____ inch borehole signal at R_m _____

[ ] 6FF40 zero set in hole at depth of _____ feet.

CALIBRATION DATA

CALIBRATION:	BACKGND. CPS	SOURCE CPS.	GALV. INCR. DIVISION	SENS. TAP (FOR CAL.	SENS. TAP (RECORD)	TIME CONST
GAMMA RAY:						

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

SPONTANEOUS POTENTIAL
MILLIVOLTS

15

DEPTHS

RESISTIVITY
OHMS. M²/M

DEEP INDUCTION
R_{ILD}
0 — 10

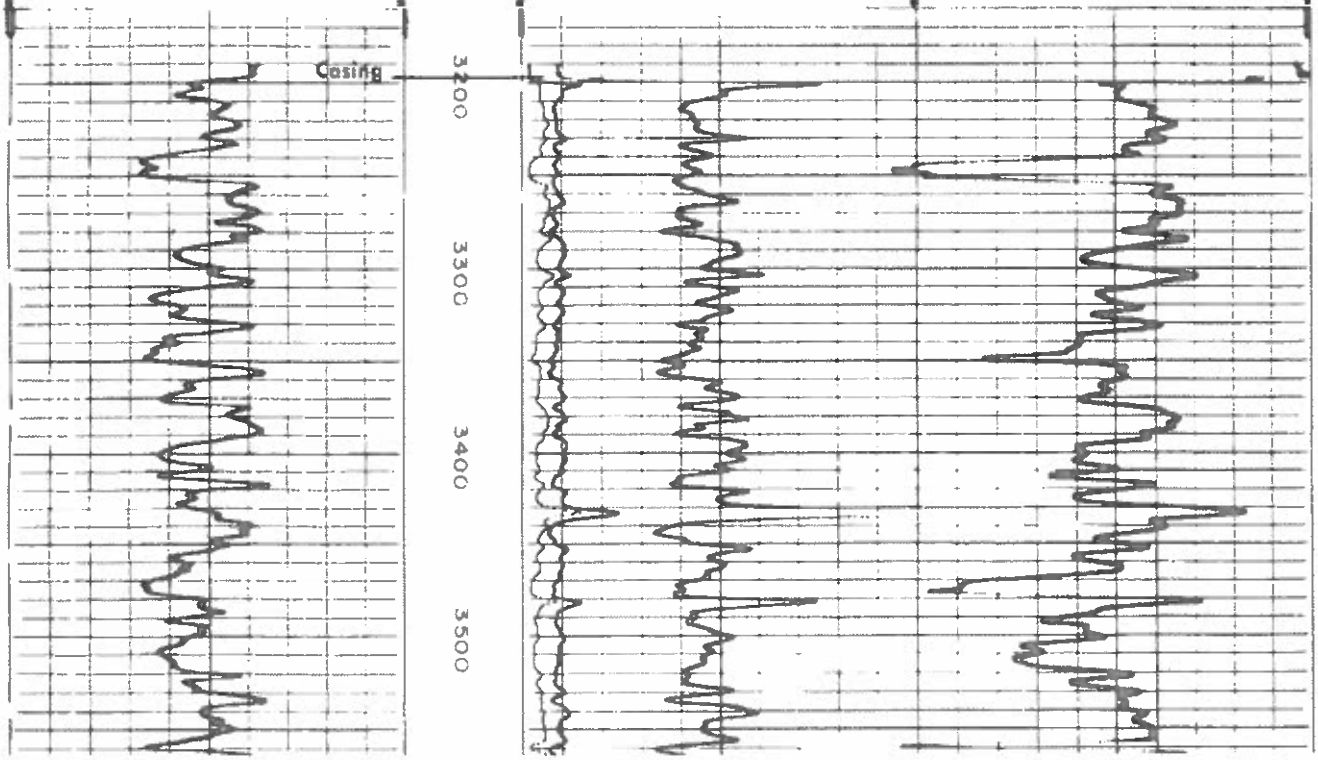
FOCUSED RESISTIVITY (SFL)
$R_{SFL\ Av.}$
8000 — 0

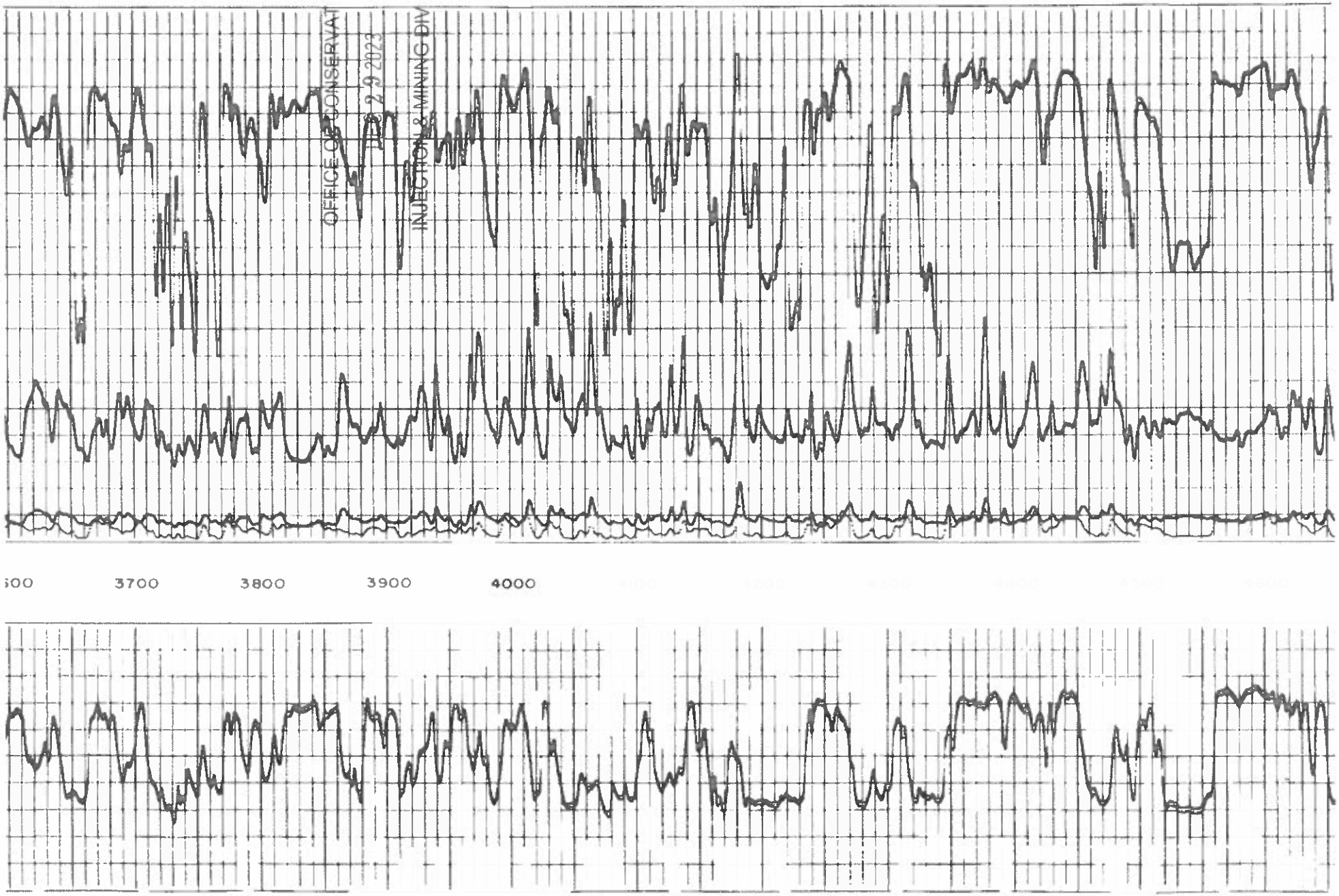
0 — 10

AMP. FOCUSED RESISTIVITY
$R_{SFL\ Av.}$
0 — 2

CONDUCTIVITY
4000 — 0

OFFICE OF CONSERVATION
DEC 29 2023
INJECTION & MINING DIVISION





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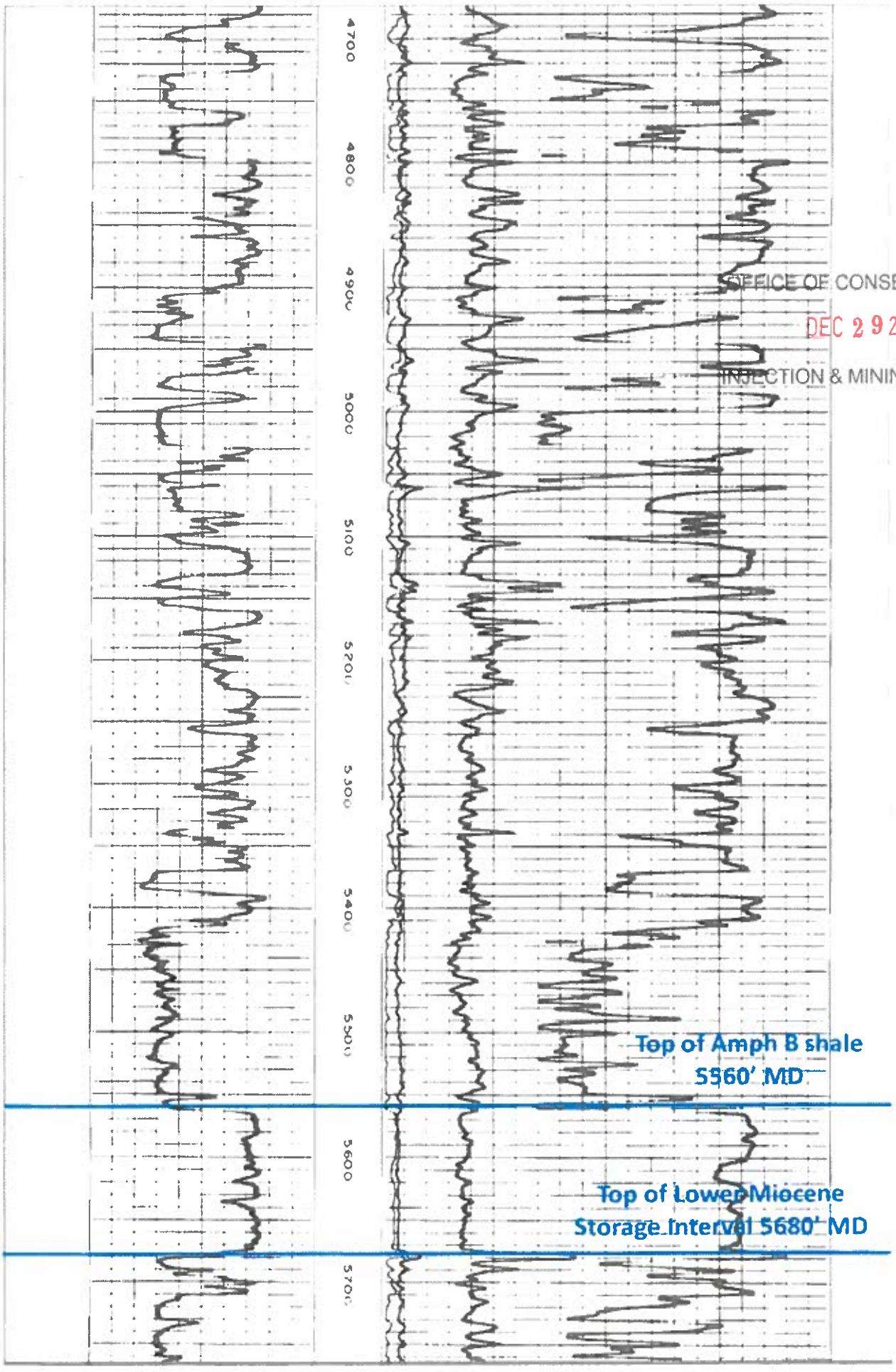
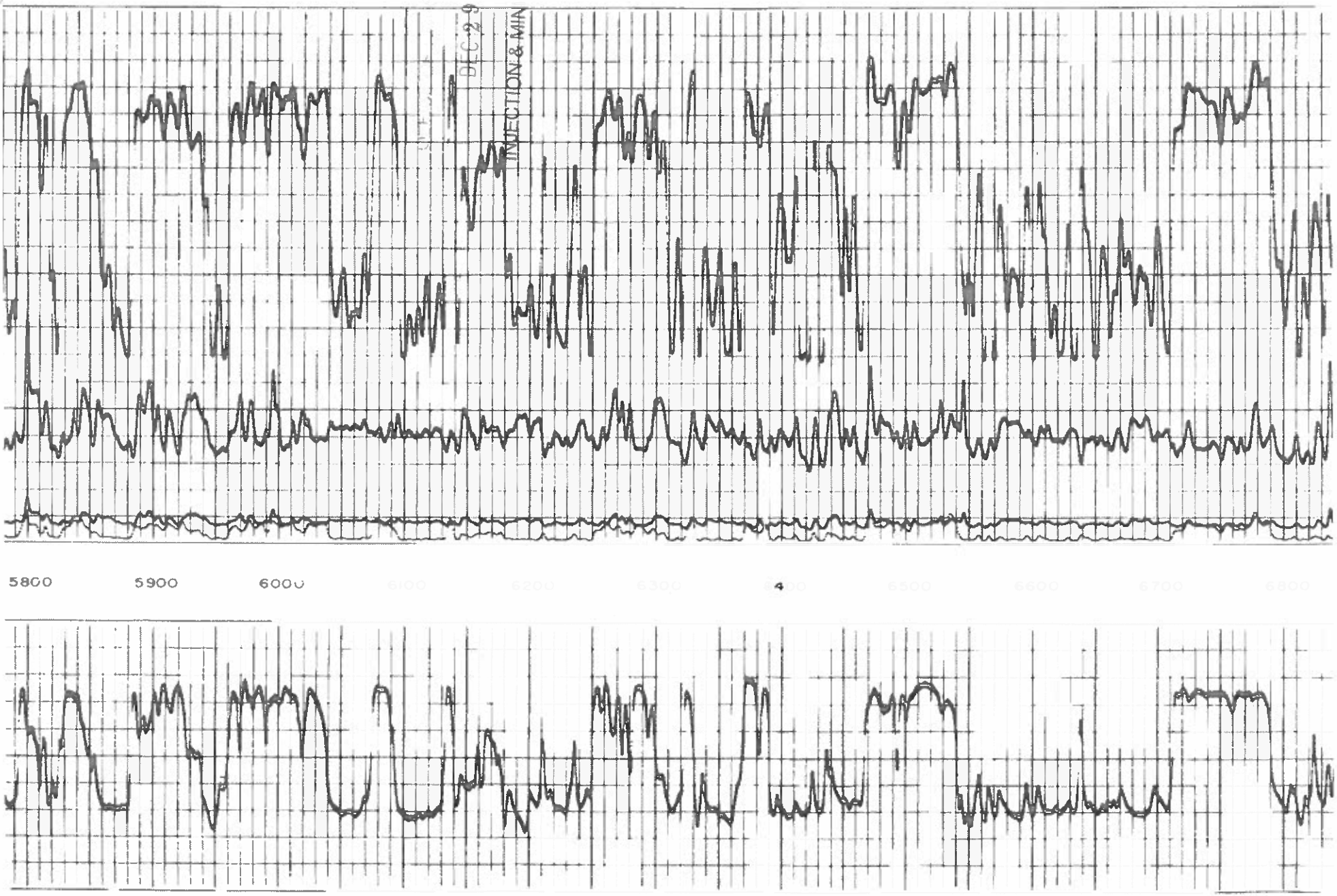
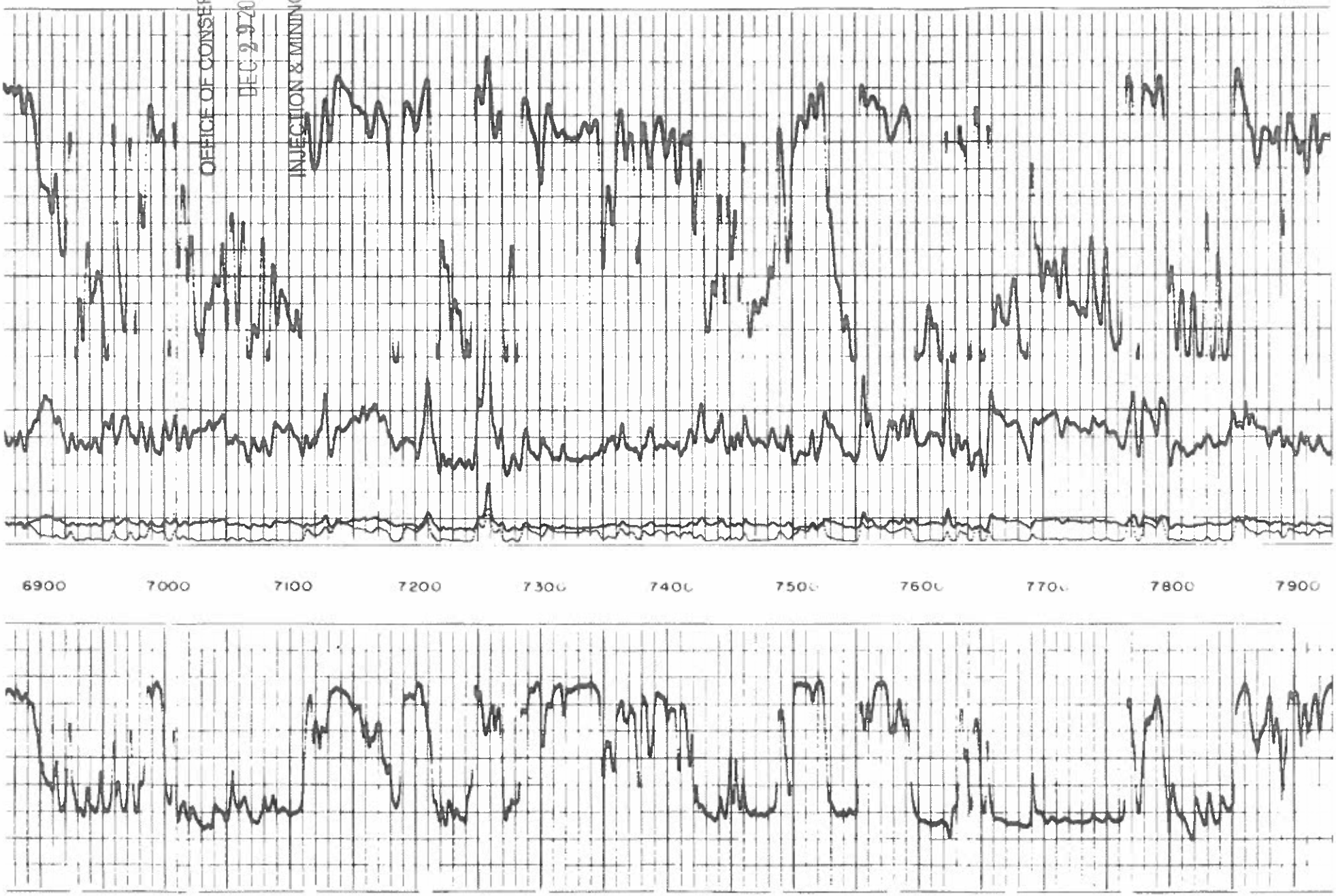



5800
5900
6000



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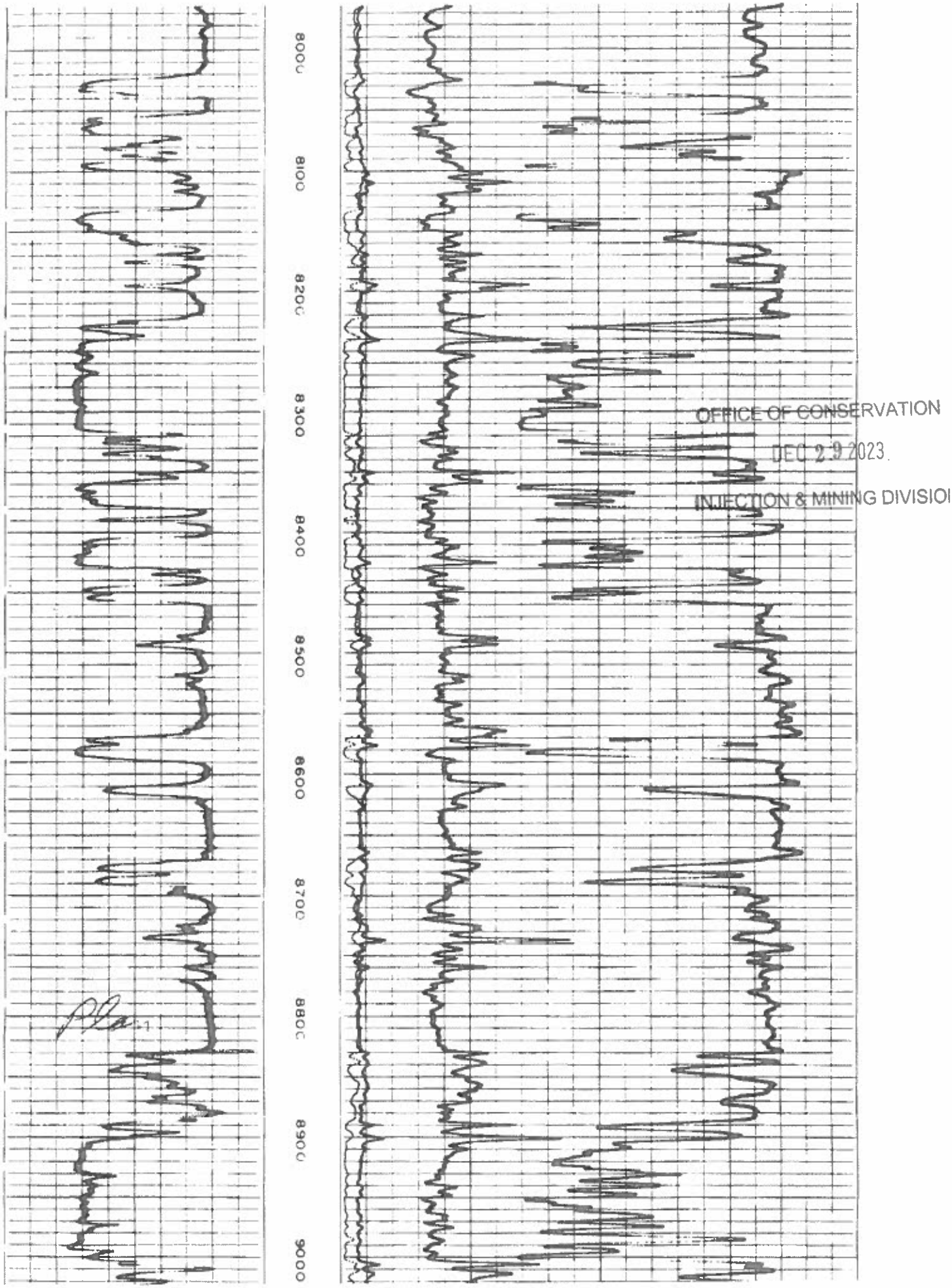

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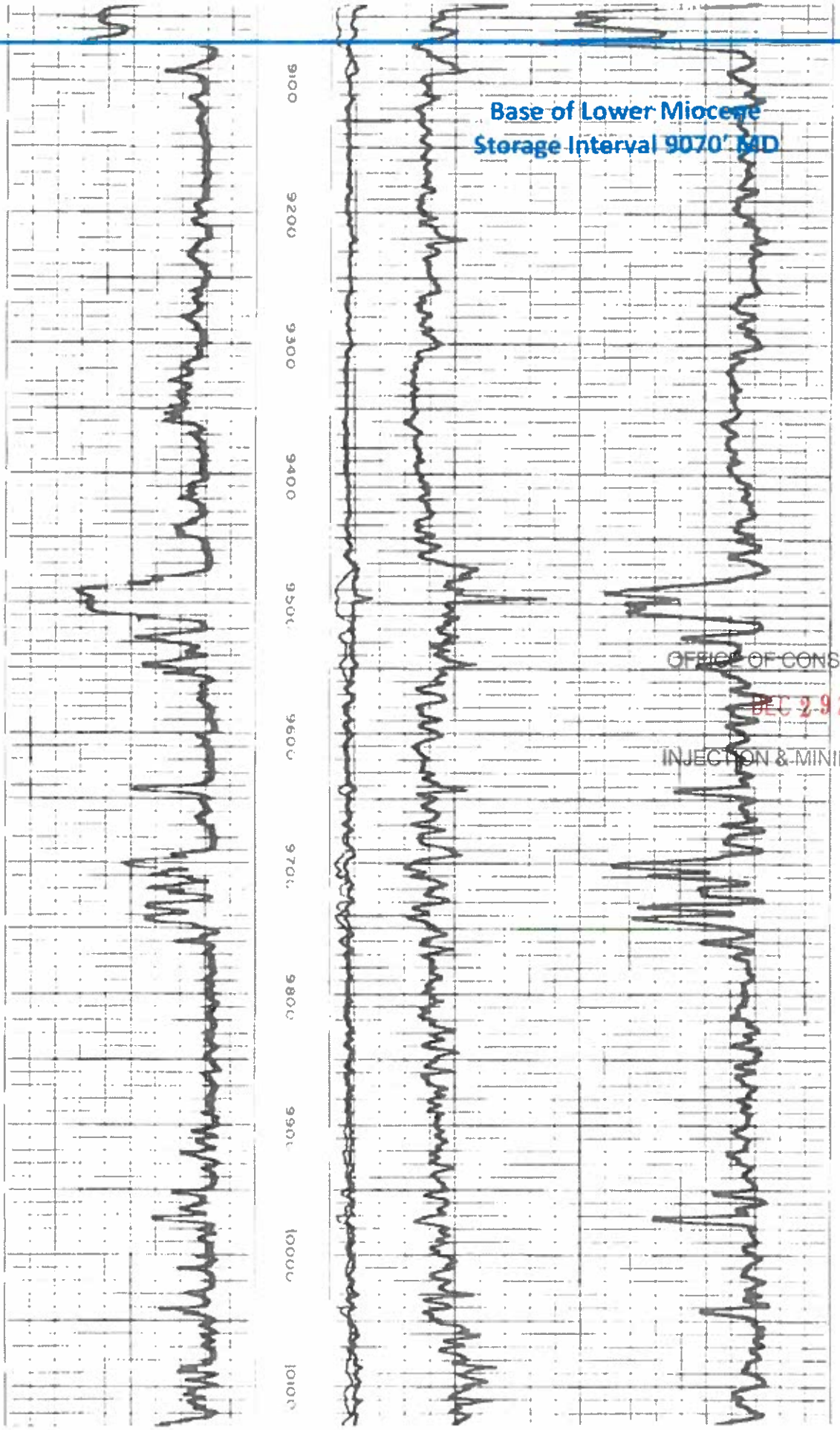
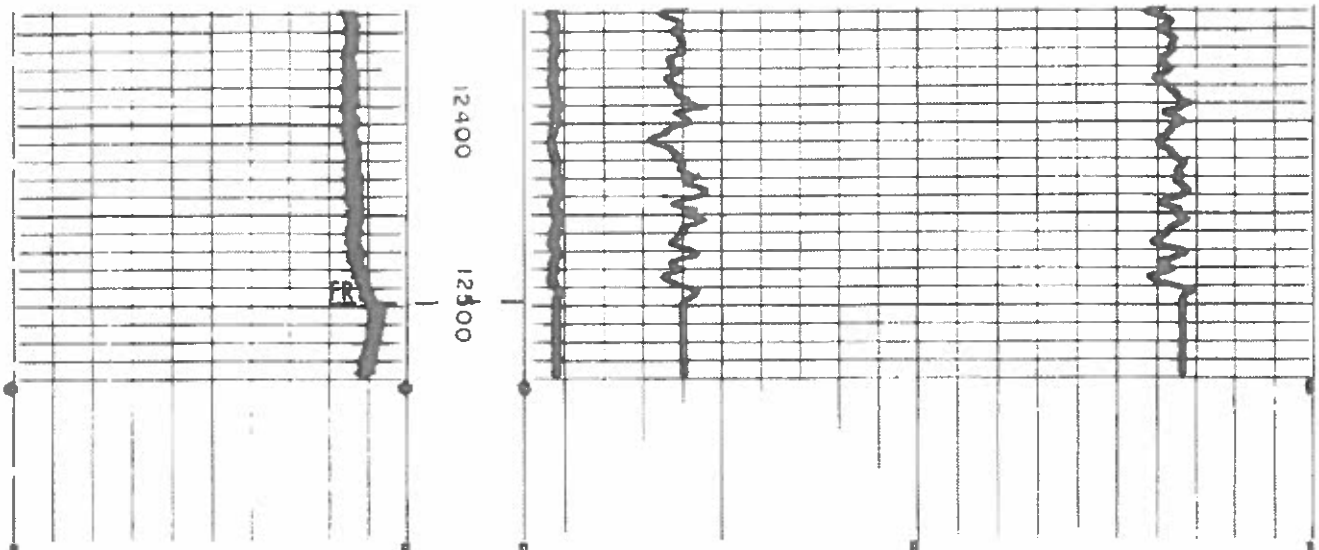




AMP. FOCUSED RESISTIVITY
0 $R_{SFL\ Av.}$ 2

FOCUSED RESISTIVITY (SFL)
$R_{SFL\ Av.}$
8000 4000 0

0 10

DEEP INDUCTION
0 R_{ILD} 10

10

OFFICE OF CONSERVATION
DEC 29 2023
INJECTION & MINING DIVISION

SPONTANEOUS POTENTIAL MILLIVOLTS	DEPTHS	RESISTIVITY OHMS. M²/M	CONDUCTIVITY

COMPANY GENERAL AMERICAN OIL CO. OF TEXAS

WELL J. B. ERBELDING NO. 1

FIELD WILDCAT - JOHNSONS BAYOU

COUNTY CAMERON STATE LOUISIANA

SCHL. FR 12499
SCHL. TD 12500
DRLR TD 12500
Elev:
KB NA
DF NA
GL NA

Part 7 – Work Prognosis for Drilling, Completing and Testing the Well

APP No. 44855
REV 2 - 6/7/2024

C.L.C. Byrd, et al #1 Stratigraphic Test Well Drilling Procedure

1. Drive conductor to ~250'.
2. MIRU and Spud well.
3. Drill 12-1/4" hole to 3,200'.
4. CCM and POOH.
5. Notify CES at least 48 hours prior to running casing test for opportunity to witness the test.
6. Run electric logs per Table 1.
7. Send electric logs to LDNR for confirmation of USDW base depth prior to running casing.
8. RU and run 9-5/8" casing to ~3,200'.
9. Cement 9-5/8" casing with cement returns to surface per Table 2.
10. Install wellhead.
11. NU BOP and test same.
12. Run cased hole logs per Table 1 (Can only log down to top of shoe track)
13. PU 8-3/4" BHA and TIH with same.
14. Test casing. Submit CSG-T affidavit to LDNR. See step 5, CES must be notified 48 hours prior to testing.
15. Drill out shoe and 10' formation. Get shoe test.
16. Drill 8-3/4" hole to 5560' (starting depth for core 1, Table3)
17. CBU. Establish hole is static. POOH.
18. Core 60' of formation to 5620' (TD core 1, Table 3). POOH and laydown core.
19. PU 8-3/4" BHA and TIH. Drill to 6910' (starting depth for core 2, Table 3).
20. Core 60' of formation to 6970' (TD core 2, Table 3). POOH and laydown core.
21. PU 8-3/4" BHA and TIH. Drill to 7670' TD (starting depth for core 3, Table 3).
22. Core 30' of formation to 7700' (TD core 3, Table 3). POOH and laydown core.
23. PU 8-3/4" BHA and TIH. Drill to 8910' TD (starting depth for core 4, Table 3).
24. Core 60' of formation to 8970' (TD core 4, Table 3). POOH and laydown core.
25. PU 8-3/4" BHA and TIH. Drill to 9500' TD.
26. C&C mud for logging and testing. POOH.
27. Run open hole logs and testing per Table 1. Perform clean out trips as necessary between logging runs. If a step rate/falloff test is performed, a procedure and fluid analysis must be submitted and approved by the state of Louisiana authority prior to injection.
28. C&C 10.5 ppg KWM mud to P&A.
29. Finish P&A per state requirements.
30. RD MOL.
31. Restore location as required.

STATE OF LOUISIANA
BLAIR P. LEBLANC
REG No. 29904
REGISTERED
PROFESSIONAL ENGINEER
6/7/24
PETROLEUM ENGINEERING

OFFICE OF CONSERVATION

JUN 11 2024

INJECTION & MINING DIVISION

Table 1 Logging Program

Section	Type	Depth
12-1/4" hole to surface casing depth (3200')	Open hole: Induction resistivity Density Neutron Dipole sonic Gamma ray SP Cased Hole: CBL Temperature	 Drive pipe depth – 3200' Drive pipe depth – 3200' Drive pipe depth – 3200' Drive pipe depth – 3200' Drive pipe depth – 3200' Drive pipe depth – 3200' Surface – 3200' Surface – 3200'
8-3/4" hole to TD (9500')	Open hole: Induction resistivity Density Neutron Dipole sonic Spectral GR Resistivity-Ultrasonic imaging CMR/NMR Elemental (TBD based on logging results) SWC (TBD pending whole core recovery) Formation tester-samples Formation tester-pressures Injection/Falloff testing program TBD	3200' – TD 3200' – TD 3200' – TD 3200' – TD 3200' – TD 3200' – TD T/Amph B shale (~5560')-TD T/Amph B shale (~5560')-TD T/Amph B shale (~5560')-TD 20 4 Max 10 Max

APP No. 44855
REV 2 - 6/7/2024

Table 2 Cementing Plan

Hole size	Casing Size	Casing weight	Casing Grade	Casing Depths		Cement Volume	Yield	Excess	Cement type	Est. Cement top
in	in	lb/ft		Top, ft	Bottom, ft	Sacks	cu ft/sk	%		ft
16	16x1/4"	Conductor		0	~250'	Driven	N/A	N/A	N/A	Driven
12-1/4"	9-5/8"	36#	J55 BTC	0	3,200'	Lead:775 Tail: 295	2.24 1.18	100 100	35/65 Poz A A	Surface

Table 3 Coring Program

Core Number	Formation	Lithology	Core Interval, ft	Barrel Lengths, ft	Start Depth, ft	End Depth, ft
1	Amph B	Shale	60	60	5560	5620
2	Lower Miocene	Sand	60	60	6910	6970
3	Lower Miocene	Sand	30	30	7670	7700
4	Lower Miocene	Sand	60	60	8910	8970

Table 4 Abandonment Cementing Plan

Plug Information	Plug #1	Plug #2	Plug #3	Plug #4
Hole Diameter (inches)	8.75	8.75/8.921	8.921	8.921
Depth of plug	5,200'-5,500'	3,100'-3,300'	1080'-1,280'	25'-125'
Sacks of cement	142	80	81	40
Slurry volume pumped (ft^3)	150.39	85.20	86.85	43.42
Slurry Weight (ppg)	16.4	16.4	16.4	16.4
Type of Cement	Class H + .01 gps PCFP-90L	Class H + .01 gps PCFP-90L	Class H + 2% CaCl + .01 gps PCFP-90L	Class H + 2% CaCl + .01 gps PCFP-90L
Method of Placement	Balanced	Retainer	Balanced	Balanced

044855

Part 8 – Wellbore Schematic

APP No. 44855
REV 2 - 6/7/2024

CASTEX

ORIGINAL: 11/15/2023
by GMC

C.L.C. Byrd, et al, #1
SERIAL #:
Johnson Bayou
Cameron Parish
000 / 000 / 000

SURFACE X: 1,266,562 20
SURFACE Y: 404,575 65
RKB - WH: Rig Dependent
RKB - MSL: Rig Dependent
WATER DEPTH: 0

EST BHP: 4,418 psi
EST SITP: 0 psi

PROPOSED DRILLING SCHEMATIC

INC.	MUD WEIGHT	MD feet
0.0		250
	USDW ~1,255'	
0 0	9.5 ppg WBM	3,200
	Top Amph B Shale Cap	5,560
	Top Lower Miocene Storage Interval	5,680
	Base Lower Miocene Storage Interval	9070'
0 00	10.5 ppg OBM	9,500

BHT	MD feet	CASING DESCRIPTION	CEMENT VOLUMES
	250	16" X 1/2" DRIVE PIPE ~250' penetration- driven to refusal	
		12-1/4" Surface Hole	
	3,200	9-5/8" 40# J-55 BTC	FIT=12 5
		Lead: 775 sks Poz A Gel + .01 gps PCFP-90L @ 12 ppg, 2 24 YLD *Tail: 295 sks Class A + .01 gps PCFP-90L @ 15 6 ppg, 1 18 YLD* *Cement to surface*	
		8-3/4" Hole to TD	
165	9,500		

OFFICE OF CONSERVATION

JUN 11 2024

INJECTION & MINING DIVISION

STATE OF LOUISIANA
BLAIR P. LEBLANC
REG No. 29904
REGISTERED
PROFESSIONAL ENGINEER
IN
PETROLEUM ENGINEERING

044855

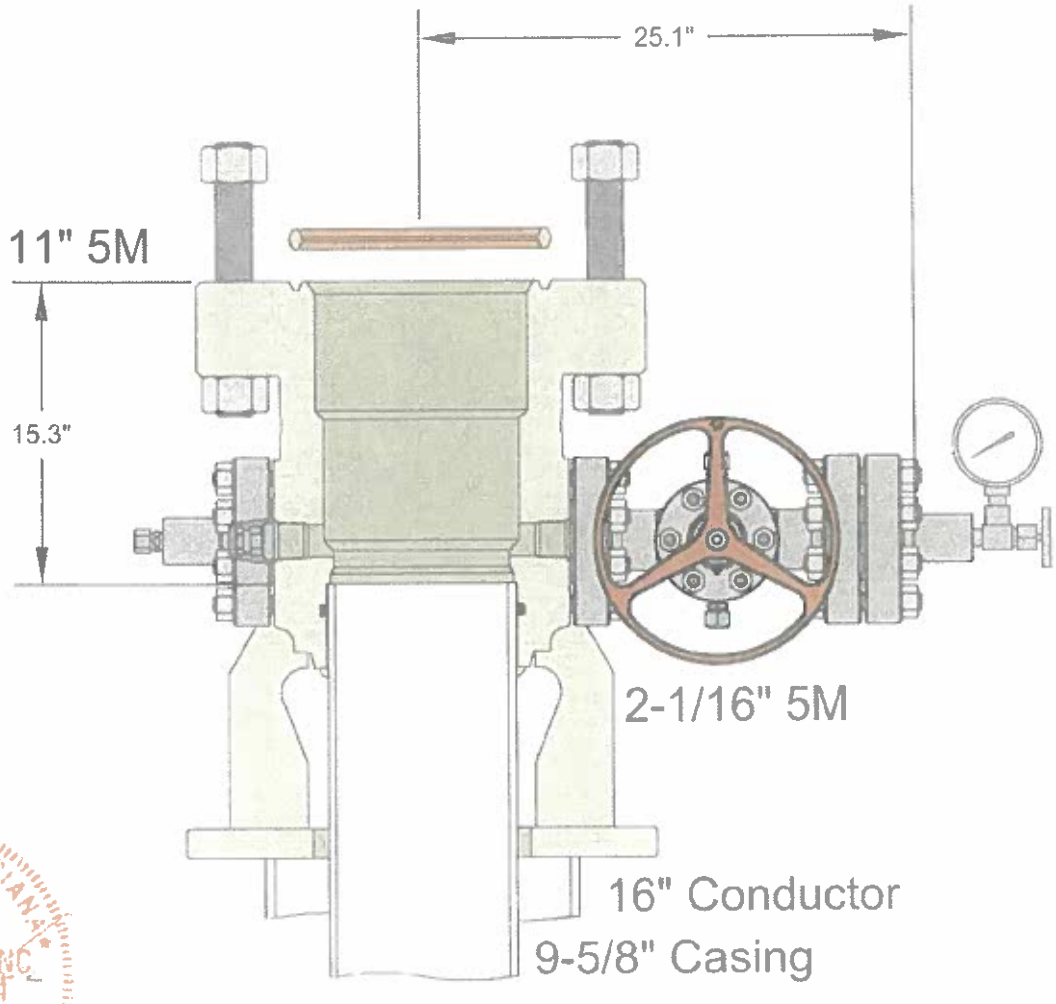
Part 8a – Casinghead Schematic

044855

OFFICE OF CONSERVATION

DEC 29 2023

INJECTION & MINING DIVISION



STATE OF LOUISIANA
BLAIR P. LEBLANC
REG. No. 29804
REGISTERED
PROFESSIONAL ENGINEER
IN
PETROLEUM ENGINEERING

VAULT PRESSURE CONTROL	Pressure Control
	11 5M X 9-5/8 SOW CONVENTIONAL CASING HEAD

DRAWN BY:	AH	DRAWING NO.	1003910
REVIEWED BY:		Rev. NC	Sht. 1 of 1
APPROVED BY:		DATE:	11/17/23

JOHNSON BAYOU STRAT

CASTEX ENERGY, INC

Part 9 – Financial Security Requirements

- Plugging and abandonment Procedure
- Proposed wellbore schematic
- Third party estimate

APP No. 44855
REV 2 - 6/7/2024

CLC Byrd et al #1 High-level P&A Procedure

(Detailed procedure will conform with specific State of Louisiana requirements prior to pumping.)

1. Notification of the intent to plug shall be given to the Louisiana DNR Injection and Mining Division in writing via Form UIC-17 prior to performing any P&A work.
2. Ensure the wellbore is in a pressure balanced condition. C&C 10.5 ppg KWM from TD to surface.
3. The following plugs are typical of approved plugging procedures and will be refined with procedures specifically for this well and approved by state regulatory authority prior to actual plugging. This well is not located within a CO2 sequestration area and standard oilfield cement and additives will be sufficient.
4. 5,200'-5,500'
    a. POOH to ~5,500' and spot a 300' open hole plug.
    b. Mix and pump 142 sxs 16.4 ppg Class H cement.
    c. Tag plug to confirm TOC.
5. 3,100'-3,300'
    a. POOH and PU 9-5/8" cement retainer.
    b. Set retainer ~3,200'.
    c. Mix and pump 80 sxs 16.4 ppg Class H cement.
    d. Squeeze 100' cement below the retainer and spot 100' cement on top of the retainer.
    e. Perform a 30 minute pressure test at 300 psi minimum on plug.
6. 1,080'-1,280'
    a. Spot 200' cement plug across the USDW from 1,080'-1,280'.
    b. Mix and pump 81 sxs 16.4 ppg Class H cement.
    c. Tag plug to confirm TOC.
7. 25'-125'
    a. Spot 100' cement plug from 25'-125'.
    b. Mix and pump 40 sxs 16.4 ppg Class H cement.
8. Cut and pull 9-5/8" and 16" casing at least 5' BGL.
9. Weld a steel plate with serial number on top.

OFFICE OF CONSERVATION

JUN 11 2024

INJECTION & MINING DIVISION

APP No. 44855
REV 2 - 6/7/2024

CASTEX

ORIGINAL: 11/15/2023 by GMC

C.L.C. Byrd, et al, #1
SERIAL #:
Johnson Bayou
Cameron Parish
000 / 000 / 000

SURFACE X: 1,286,562 20
SURFACE Y: 404,575 65
RKB - WH: Rig Dependent
RKB - MSL: Rig Dependent
WATER DEPTH: 0

EST BHP: 4 418 psi
EST SITP: 0 psi

PROPOSED ABANDONMENT SCHEMATIC

INC.	MUD WEIGHT	MD feet
0 0		250
	USDW ~1,255'	
0 0	9.6 ppg WBM	3,200
	Top Amph B Shale Cap	6,560
	Top Lower Miocene Storage Interval	6,680
	Base Lower Miocene Storage Interval	9070'
0 00	10.5 ppg OBM	9,500

10 5 ppg KWM
10 5 ppg KWM
10 5 ppg KWM
10 5 ppg KWM

BHT	MD feet	CASING DESCRIPTION	CEMENT VOLUMES
		Cut and pull 9-5/8" and 16" at least 5' BML Spot 100' plug ~25'-125' *40 sxs Class H + 2% CaCl + .01gps PCFP-90L @ 16 4ppg, 1 08 YLD*	
	250	16" X 1/2" DRIVE PIPE ~250' penetration- driven to refusal	
		Spot 200' cement plug across USDW 1080'-1,280' *81 sxs Class H +2% CaCl + 01gps PCFP-90L @ 16.4ppg, 1 07 YLD*	
	3,200	9-5/8" 36# J-55 BTC	FIT=12 5
		Set cement retainer ~3,200' Squeeze 100' cement below retainer Spot 100' cement on top retainer *80 sxs Class H + 01 gps PCFP-90L @ 16 4 ppg, 1 06 YLD*	
		8-3/4" Production Hole	
		Spot 300' plug ~5,200'-5,500' (Pump 20% excess) *142 sxs Class H + 01 gps PCFP-90L @ 16 4 ppg, 1 06 YLD*	
165	9,500		

STATE OF LOUISIANA
BLAIR P. LEBLANC
REG No. 29904
REGISTERED PROFESSIONAL ENGINEER
IN
4/3/24
PETROLEUM ENGINEERING

OFFICE OF CONSERVATION
JUN 11 2024
INJECTION & MINING DIVISION

12/19/23

Johnson Bayou Field ~ Cameron Parish
Plug & Abandonment

Johnson Bayou Field

CLC Byrd et al #1

12 Hour Operations
Land
Budgetary Day Rate Calculations

Supreme Services Crew & Equipment

Supreme Services ~ P&A Crew ~ 5-man *(12-hr)*	$	4,950
Personnel include:		
P&A ~ 1 - Supervisor, 1 - Pump Operator, 1 - E-Line Operator, 1 - S-Line Operator (or combo-hand), 1 - Helper		
P&A Crew ~ Over Time *(2-hrs)*	$	1,080
Personnel Subsistence		
Meals & Lodging @ $150 per man	$	750
Supreme Services ~ P&A Equipment	$	2,465
Plug & Abandonment Equipment Package ~ 5k WP		
Anticipated Rentals	$	5,286
(See Below for itemized listing)		
Supreme Crane w/ Operator *(w/ 2-hrs OT)*	$	1,400
Personnel Subsistence	$	250
Total Anticipated Spread Rate	$	**16,181**

~ Crew Over Time ~ per 5-man Crew *(charged as needed)*	$	540	*per hour*
~ Crane Operator Over Time *(charged as needed)*	$	100	*per hour*

P&A Equipment Package (5k)

Rough Rider 500 (10,000-psi) w/ Pop-Off	*Hydraulic Power Pack*	*(2) Chart Recorder ~ 5k*
Tank ~ 100-bbl w/ Gas Buster	*Lubricator Basket*	*Cement Blender*
Hose Basket w/ 5k HP Hoses, suction hoses	*E/L & S/L Tool Boxes*	*Cement Screen*
Std Duty 5k Double Drum S/L - E/L Unit	*P&A Tool Box*	*Oxygen & Acetylene Rack*

12/19/23

Johnson Bayou Field ~ Cameron Parish
Plug & Abandonment

12 Hour Operations
Land
Budgetary Day Rate Calculations

Additional Rental Equipment "Available Upon Request"

Note: *Items quantified below are what might be required for a 'typical' job. Actual usage & quantities are to be determined after information gathering & discussion.*

Supreme Rental Items

No	Item	Qty	Description	Rate	UOM	Totals
1	Pup Jts *(1-1/4" thru 2-3/8" CS ~ 12' or less)*	1	ea @	$35.00	/day	$35.00
2	Connection *(1502 x 1-1/4" CS Pump-In Sub)*	1	ea @	$39.00	/day	$39.00
3	Bowl & Slips - Manual *(1-1/4" thru 3-1/2")*	1	ea @	$65.00	/day	$65.00
4	Tubing Clamp ~ 1-1/4"	1	ea @	$38.50	/day	$38.50
5	Elevators	1	ea @	$40.00	/day	$40.00
6	Slings	1	ea @	$61.50	/day	$61.50
7	Elevators *(2-3/8" thru 3-1/2")*	1	ea @	$63.00	/day	$63.00
8	Tubing Clamp *(2-3/8", 2-7/8", 3-1/2")*	1	ea @	$53.90	/day	$53.90
9	Landing Jt *(2-3/8", 2-7/8", 3-1/2")*	1	ea @	$28.00	/day	$28.00
10	Tree Connection ~ 10m	0	ea @	$77.00	/day	$0.00
11	Specialty Tools & Hot Bolt Equipment Pkg	1	ea @	$500.00	/day	$500.00
12	50' - 1" Air Hose *(additional)*	4	ea @	$9.75	/day	$39.00
13	Diaphragm Pump	2	ea @	$65.00	/day	$130.00
14	2" CamLoc Discharge Hose *(50' Sections)*	4	ea @	$15.60	/day	$62.40
15	Open-Hole Safety Barricades	0	ea @	$52.50	/day	$0.00
16	Lay-Down Plate	0	ea @	$67.90	/day	$0.00
17	Pipe Racks	2	ea @	$69.00	/day	$138.00
18	2 x 2 Plug Valve *(additional)*	0	ea @	$91.00	/day	$0.00
19	2 x 1 Plug Valve *(additional)*	4	ea @	$65.00	/day	$260.00
20	Supply Basket *(any size)*	2	ea @	$48.00	/day	$96.00
21	Air Compressor *(185-cfm min)*	1	ea @	$150.00	/day	$150.00
22	Overboard Water Pump *(10hp, 230v, 3 phase, 28maj*	0	ea @	$159.25	/day	$0.00
23	Torque Pkg	1	ea @	$750.00	/day	$750.00
24	Shooting Nipple ~ 11" 5m	0	ea @	$299.00	/day	$0.00
25	Companion Flange *(2-9/16" 5m)*	0	ea @	$71.50	/day	$0.00
26	Light Stands / Handrail Lights	2	ea @	$65.00	/day	$130.00
27	Light Plant *(Explosion Proof)*	1	ea @	$161.00	/day	$161.00
28	Squeeze Manifold	1	ea @	$313.30	/day	$313.30
29	Tree Connection – 5m *(1 13/16", 2 1/16", 2 9/16")*	1	ea @	$77.00	/day	$77.00
30						

Additional Rental Equipment

No	Item	Qty	Description	Rate	UOM	Totals
1	Gas Detector	1	ea @	$39.00	/day	$39.00
2	NORM Meter	1	ea @	$56.00	/day	$56.00
3	Radios *(2 per set)*	3	ea @	$60.00	/day	$180.00
4	1-1/4" - 2-3/8" *(500' minimum)*	1	ea @	$150.00	/day	$150.00
5	1-1/4" - 2-3/8" *(additional footage)*	5100	per foot @	$0.30	/day	$1,530.00
6	Additional Rentals	1	ea @	$100.00	/day	$100.00
7	Wiper Ball Launcher ~ 2-7/8" 8rd EUE	0	ea @	$187.85	/day	$0.00

044855

12/19/23

Johnson Bayou Field ~ Cameron Parish
Plug & Abandonment

12 Hour Operations
Land
Budgetary Day Rate Calculations

CLC Byrd et al #1

Line Item Pricing ***(Consumables / Expendables)***

No	Item	Qty	Description	Rate	UOM	Totals
1	P&A Crew & Equipment Pkg Spread	9	charge(s) @	$16,180.60	/day	$ 145,625
2						
3	**1 ~ Cement** ~ Class H *(in Super Sx)*	126	sx @	$28.00	/sack	$ 3,528
4						
5	Gauge Ring/ Junk Basket Run *(for Csg Set CIBPs)*	1	charge(s) @	$315.00	/run	$ 315
6	CICR ~ 9-5/8" Csg	1	plug(s) @	$3,034.00	/plug	$ 3,034
7	Cement Retainer Stinger	1	run(s) @	$702.00	/run	$ 702
8	Slow Set Power Charge	1	charge(s) @	$260.00	/run	$ 260
9	CIBP / CICR Setting Charge *(Electric Line Set)*	1	charge(s) @	$1,040.00	/run	$ 1,040
10	**2 ~ Cement** ~ Class H *(in Super Sx)*	105	sx @	$28.00	/sack	$ 2,940
11						
12	**3 ~ Cement** ~ Class H *(in Super Sx)* **USDW**	105	sx @	$28.00	/sack	$ 2,940
13						
14	**4 ~ Cement** ~ Class H *(in Super Sx)* **Surface**	63	sx @	$28.00	/sack	$ 1,764
15						
16	RF Safe Fire System *(Electric Line Set - if requested)*	1	charge(s) @	$800.00	/run	$ 800
17	Cement Additive ~ Retarder	1	pail(s) @	$305.00	/5-gal pail	$ 305
18						
19	Abrasive Cut Charge	1	cut(s) @	$6,100.00	/cut	$ 6,100
20	Abrasive Equipment Pkg Differential	1	charge(s) @	$495.00	/day	$ 495
21						
22						
23						
24						
25						
26	Crew Travel ~ Time *(Round Trip per 10-man Crew)*	14	hr(s) @	$560.00	/ 10-man crew	$ 7,840
27	Crew Travel ~ Mileage *(Round Trip per 5-man crew)*	1100	miles @	$3.00	/ mile	$ 3,300
28						
29						
30	Mobilization/De-mobilization	1	charge(s) @	$1,560.00	/well	$ 1,560
31	Well Supplies	1	charge(s) @	$2,080.00	/well	$ 2,080
32	Pump Redress Charge	1	charge(s) @	$1,105.00	/well	$ 1,105
33	Environmental Charge	1	charge(s) @	$158.00	/ job	$ 158
34						
35	Thru-Tubing Setting Tool *(per tool)*	2	each per mth @	$840.00	/tool /month	$ 1,680
					Anticipated Summary Total	***$ 187,571***

Charges TBD *(Round Trip from/to Harvey)*		*(Loadout Location TBD)*			
Crew Travel ~ Time *(Round Trip per 3-man Crew)*	0	hr(s) @	$168.00	/ 3-man crew	$ -
Crew Travel ~ Mileage *(Round Trip per 3-man crew)*	0	miles @	$3.00	/ mile	$ -