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. **43668** Serial No. _____

CES Name **Eric Gauthreaux** CES Phone No. **209-406-2727**

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

UIC-25 Stratigraphic Test
CLASS-V WELL PERMIT APPLICATION

04 3668

1. APPLICATION TYPE: (Check One)	LOUISIANA DEPARTMENT OF NATURAL RESOURCES - OFFICE OF CONSERVATION
☐ DRILL AND COMPLETE NEW CLASS-V WELL ☐ CONVERT AN EXISTING WELL TO CLASS-V ☑ OTHER (SPECIFY):Drill stratigraphic test well and plug and abandon	**INJECTION & MINING DIVISION** **Injection-Mining@la.gov** **(225) 342-5515**

2. IDENTIFY WELL USE
Stratigraphic test well for geologic characterization; plug and abandon when finished.

3. OWNER/OPERATOR NAME	4. OC OPERATOR CODE
River Parish Sequestration, LLC	R1017

5. OWNER/OPERATOR MAILING ADDRESS	6. CITY, STATE, ZIP CODE
1333 West Loop South, Suite 830	Houston, TX 77027

7. TELEPHONE NO	8. E-MAIL ADDRESS
(832) 696-0052	andrew.chartrand@blueskyinfrastructure.com

9. WELL NAME	10. WELL NO	11. WELL SERIAL NO (Well Conversions Only)
Evan Belle ASMP RPN-S #1	1	

12. FIELD NAME (if known)	13. FIELD CODE (if known)
WILDCAT - SO LA LAFAYETTE	9727

14. PARISH NAME	15. SECTION	16. TOWNSHIP	17. RANGE
Assumption	87	T-12-S	R-14-E

18. LOUISIANA COORDINATE ZONE (Check One)	For Item Numbers 19 Through 24, Give Coordinates in Louisiana Coordinate System 1927 and 1983
☐ NORTH ZONE ☑ SOUTH ZONE	

19. LATITUDE (NORTH) NAD 1927	20. LONGITUDE (WEST) NAD 1927	21. LOUISIANA LAMBERT (X-Y) COORDINATES (NAD 1927)
30 02' 30.56"	91 02' 36.30"	X: 2091731 Y: 500183

22. LATITUDE (NORTH) NAD 1983	23. LONGITUDE (WEST) NAD 1983	24. LOUISIANA LAMBERT (X-Y) COORDINATES (NAD 1983)
30 02' 31.28"	91 02' 36.66"	X: 3372530 Y: 560890

25. 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
Louisiana Dept. of Natural Resources, Office of Coastal Mgmt.	Coastal Use Permit

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26. WELL CASING / CEMENT DATA

HOLE SIZE (inches)	CASING SIZE (OD - inches)	CASING WEIGHT (lb/ft)	CASING GRADE	CASING/LINER SETTING DEPTHS TOP (feet)	CASING/LINER SETTING DEPTHS BOTTOM (feet)	SACKS CEMENT	TYPE CEMENT/ YIELD (ft^3/sack	CEMENT TOP (feet)
12-1/4	9-5/8	40	J-55 BTC	0	2300	1100	35/65 Poz Type1 12 ppg/2.03	0
12-1/4	9-5/8	40	J-55 BTC	2300	2800	400	Type 1 15ppg /1.033	2300

27. BASE OF USDW	28. WELL TOTAL DEPTH	29. WELL PLUGBACK DEPTH	30. TUBING SIZE & DEPTH	31. PACKER SIZE & DEPTH
570	11100	11100	NA	NA

32. INJECTION ZONE DEPTHS (if applicable)	33. COMPLETION/PERFORATION DEPTHS (if applicable)	34. WELL COMPLETION (Check One)
Top: NA Bottom: NA	Top: NA Bottom: NA	☑ OPEN HOLE ☐ PERFORATIONS ☐ SCREEN

INJECTIVITY TEST INFORMATION (if applicable)

35. TEST MATERIAL (e.g. nitrogen, brine, etc):	36. MAXIMUM TEST PRESSURE (psi):	37. TOTAL INJECTION VOLUME:
NA ***CO2 is prohibited as a Class V test material***	NA	NA

38. Is the Well Located on Indian Lands or Other Lands Owned by or under the Jurisdiction or Protection of the Federal Government? ☐ YES ☑ NO

39. 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

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

NAME: Andrew J. Chartrand

MAILING ADDRESS: 1333 West Loop South, Suite 830

CITY, STATE, ZIP CODE: Houston, TX 77027

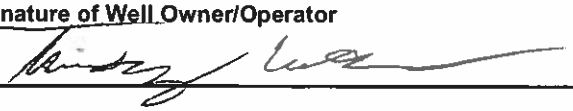
TELEPHONE NUMBER: (832) 696-0052 FAX NUMBER:

E-MAIL ADDRESS: andrew.chartrand@blueskyinfrastructure.com

41. CERTIFICATION BY WELL OWNER/OPERATOR

I certify that as the owner/operator of the injection well, the person identified in Item No. 40 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).

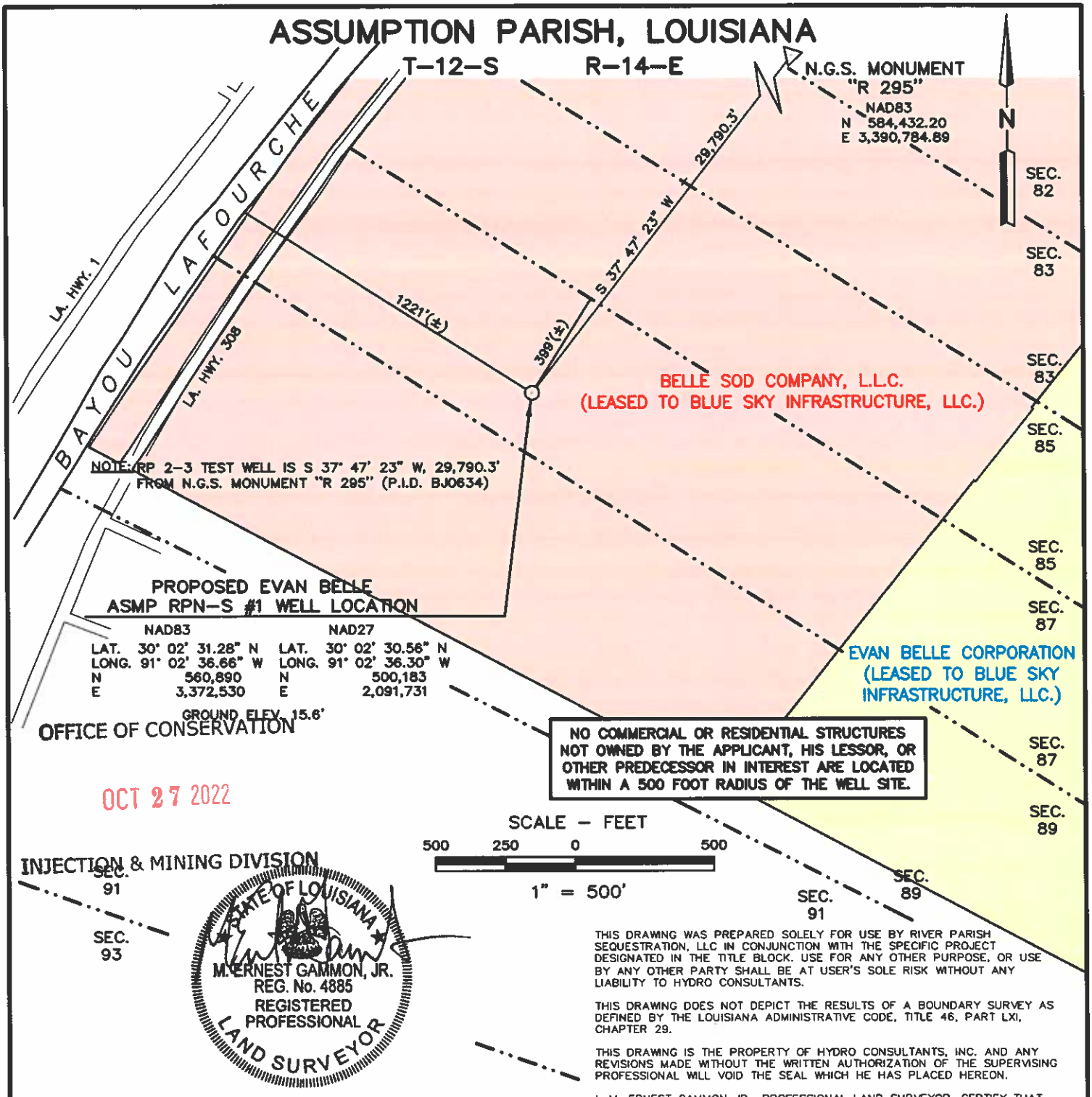
Print Name of Well Owner/Operator	Print Title of Company Official (as applicable)
Timothy Watson	Geologist

Signature of Well Owner/Operator	Date
	08/24/2023

U4 3008

ASSUMPTION PARISH, LOUISIANA

T–12–S R–14–E



OFFICE OF CONSERVATION

OCT 27 2022

INJECTION & MINING DIVISION

STATE OF LOUISIANA
M. ERNEST GAMMON, JR.
REG. No. 4885
REGISTERED PROFESSIONAL LAND SURVEYOR

THIS DRAWING WAS PREPARED SOLELY FOR USE BY RIVER PARISH SEQUESTRATION, LLC IN CONJUNCTION WITH THE SPECIFIC PROJECT DESIGNATED IN THE TITLE BLOCK. USE FOR ANY OTHER PURPOSE, OR USE BY ANY OTHER PARTY SHALL BE AT USER'S SOLE RISK WITHOUT ANY LIABILITY TO HYDRO CONSULTANTS.

THIS DRAWING DOES NOT DEPICT THE RESULTS OF A BOUNDARY SURVEY AS DEFINED BY THE LOUISIANA ADMINISTRATIVE CODE, TITLE 46, PART LXI, CHAPTER 29.

THIS DRAWING IS THE PROPERTY OF HYDRO CONSULTANTS, INC. AND ANY REVISIONS MADE WITHOUT THE WRITTEN AUTHORIZATION OF THE SUPERVISING PROFESSIONAL WILL VOID THE SEAL WHICH HE HAS PLACED HEREON.

I, M. ERNEST GAMMON JR., PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THE WELL LOCATION DEPICTED AND DESCRIBED IN THIS PLAT WAS STAKED AND SURVEYED IN THE FIELD BY ME, OR UNDER MY DIRECTION WITH ACCURACY AND PRECISION TO THE NEAREST FOOT.

NOTES:

NORTH ARROW AND COORDINATES REFER TO THE LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83). COORDINATES WERE DERIVED FROM RTK GPS OBSERVATIONS USING LSU C4G REAL TIME NETWORK CORRECTIONS.

ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD88), BASED ON RTK GPS OBSERVATIONS USING LSU C4G REAL TIME NETWORK CORRECTIONS AND GEOID MODEL "GEOID 18".

N.G.S. MONUMENT INFORMATION TAKEN FROM PUBLISHED N.G.S. DATA SHEETS.

DISTANCES IN FEET BY HORIZONTAL MEASUREMENT.

PARISH, SECTION, TOWNSHIP, AND RANGE SCALED FROM REFERENCED U.S. GEOLOGICAL SURVEY QUADRANGLE MAP. THE LOCATION OF ANY SECTION LINES DEPICTED HEREON SHALL BE CONSIDERED APPROXIMATE AND SHOULD BE USED SOLELY FOR ORIENTATION PURPOSES.

PROPOSED TEST WELL LOCATION FURNISHED BY PROJECT CONSULTING SERVICES, INC.

DATE OF FIELD SURVEY : JULY 26, 2022.

REFERENCES:

HYDRO FIELD BOOK No. 1684.

UNITED STATES GEOLOGICAL SURVEY QUADRANGLE MAP "BELLE ROSE, LA.", DATED 1974.

BY	REVISION	DATE

RIVER PARISH SEQUESTRATION, LLC

PROPOSED EVAN BELLE ASMP RPN–S #1 WELL

ASSUMPTION PARISH, LOUISIANA

Hydro Consultants, inc.
10275 SIEGEN LANE – BATON ROUGE, LOUISIANA – (225) 766–4422

DRAWN WAM	CHECKED JEG	APPROVED MEG JR
DATE SEPTEMBER 15, 2022	DWG. NO. A06–470–02	

04 36 68

a) **General Well Information:**

Well Name	Evan Belle ASMP RPN-S #1
Well Classification	Class V
County, State	Assumption, Louisiana
Target Formation	Pliocene, Miocene
TVD / MD (ft)	11,100 ft
Trajectory	Vertical

b) **Prognosis:**

Intervals	TVD (ft)	Comments
Base of USDW	570	
Pliocene Shale	4,130	shale seal
Lower Pliocene Sand	4,650	permeable sandstone & shale sequence
Top Miocene	5,540	permeable sandstone & shale sequence
Bigenerina Humblei	7,240	permeable sandstone & shale sequence
Cibicides Opima	8,250	permeable sandstone & shale sequence
Operc	9,810	permeable sandstone & shale sequence
Marginulina Ascensionesis	10,880	shale seal

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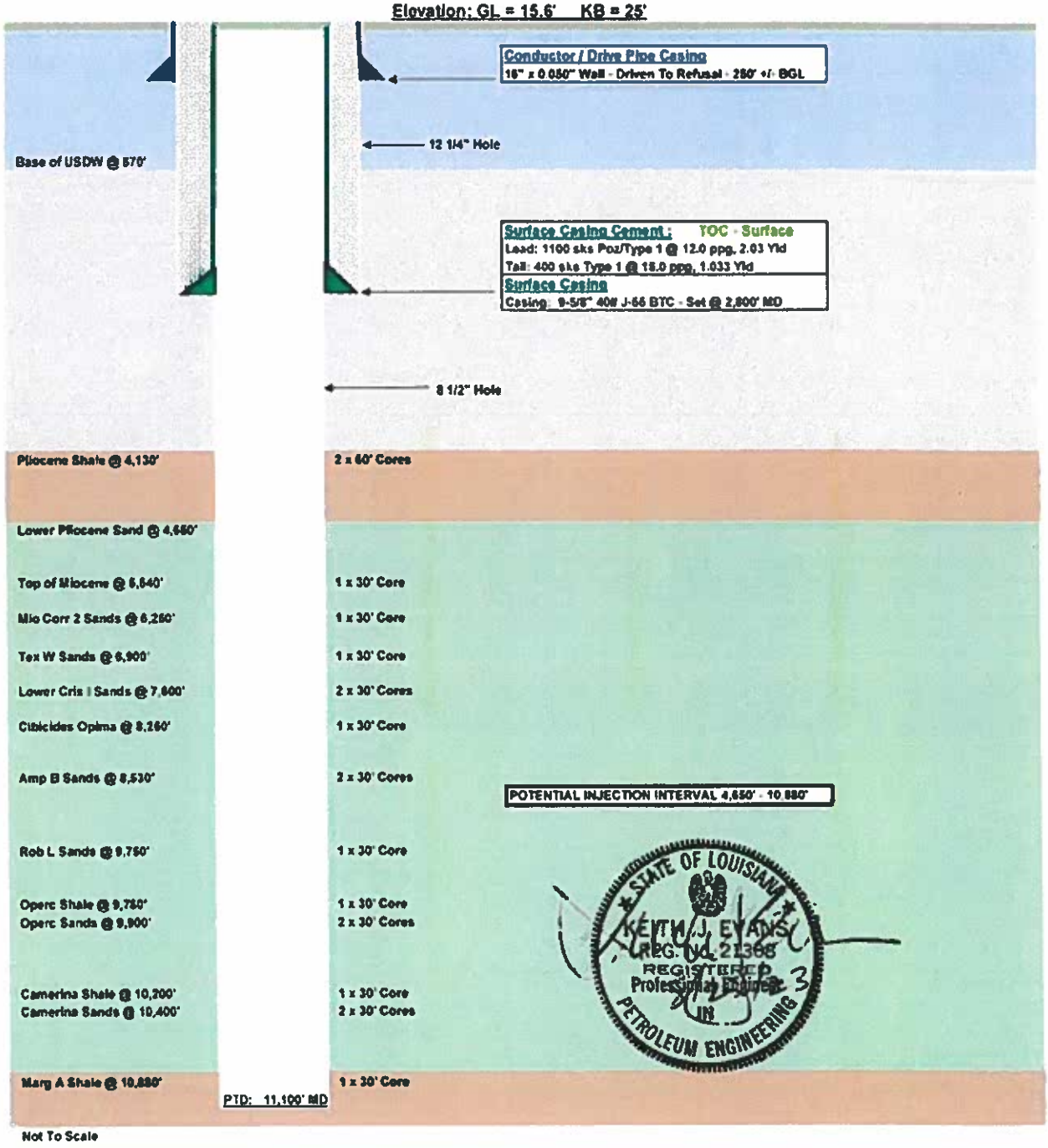
c) **Proposed Well Schematic:**

River Parish Sequestration, LLC - Evan Belle ASMP RPN-S #1
Proposed Wellbore Diagram

Elevation: GL = 15.6' KB = 25'



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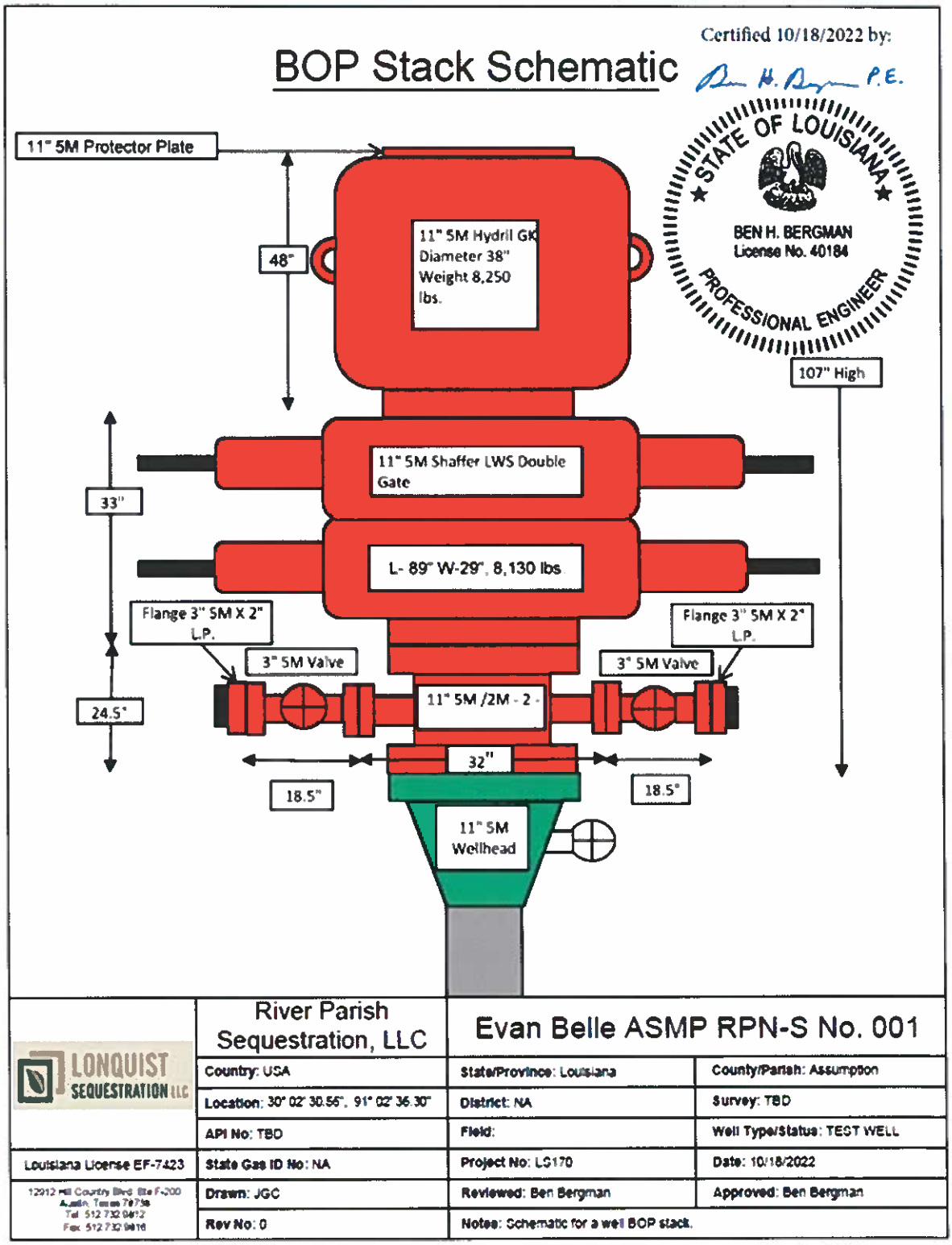
d) BOP Schematic:



LONQUIST SEQUESTRATION LLC	River Parish Sequestration, LLC	Evan Belle ASMP RPN-S No. 001	
	Country: USA	State/Province: Louisiana	County/Parish: Assumption
	Location: 30° 02' 30.56", 91° 02' 36.30"	District: NA	Survey: TBD
	API No: TBD	Field:	Well Type/Status: TEST WELL
Louisiana License EF-7423	State Gas ID No: NA	Project No: LS170	Date: 10/18/2022
12912 Hill Country Blvd Bld F-200 Austin, Texas 78738 Tel 512.732.9412 Fax 512.732.9416	Drawn: JGC	Reviewed: Ben Bergman	Approved: Ben Bergman
	Rev No: 0	Notes: Schematic for a well BOP stack.	

e) **Drilling Scope of work:**

04 3668

HIGH LEVEL WORK PLAN:
Location Preparation

1. Survey and prepare well location for drilling equipment.
2. Mobilize crane and hammer equipment
3. Drive 16" Drive Pipe to Refusal to +/-250'

Surface Hole

4. Mobilize drilling rig and related equipment
5. Rig up mud logging equipment and crew.
6. Pick up 12.25" drill bit appropriate bottom hole assembly and drill surface hole to 2,800'
7. Notify CES at least 48 hours prior to anticipated casing test, and CES will be provided the opportunity to witness the test.
8. Run open hole logs in surface hole
9. Submit log to IDM confirming base USDW and at least one non-USDW sand prior to setting casing
10. Upon approval from IDM, run and cement 2,800' of 9 5/8" Surface Casing (or deeper as determined by open hole logs)
11. Run and cement 2,800' of 9 5/8" Surface Casing
12. Wait on Cement
13. Install 11" X 9 5/8" 5K casing head
14. Nipple up and pressure test BOP assembly
15. Pressure test the casing to DNR specifications (The casing test will be pressured to at least 600 psi for at least 30 minutes and pressure loss will not exceed 5% to be considered a successful test and reported on form CSG-T)

Main Hole

1. Drill ahead with 8-1/2" bit to 4,150' (Core Point #1)
2. Core from 4,150' – 4,210' TVD and POOH (Core #1)
3. Ream through cored interval (Core #1) then Drill ahead with 8.5" bit to 4,590' (Core Point #2)
4. Core from 4,590' – 4,650' TVD and POOH (Core #2)
5. Ream through cored interval (Core #2) then Drill ahead with 8.5" bit to 5,540' (Core Point #3)
6. Core from 5,540' – 5,570' TVD and POOH (Core #3)
7. Ream through cored interval (Core #3) then drill ahead with 8.5" bit to 6,250' (Core Point #4)
8. Core from 6,250' – 6,280' TVD and POOH (Core #4)
9. Ream through cored interval (Core #4) then drill ahead with 8.5" bit to 6,900' (Core Point #5)
10. Core from 6,900' – 6,930' TVD and POOH (Core #5)
11. Ream through cored interval (Core #5) then drill ahead with 8.5" bit to 7,600' (Core Point #6)
12. Core from 7,600' – 7,630' TVD and POOH (Core #6)
13. Core from 7,630' – 7,660' TVD and POOH (Core #7)
14. Ream through cored interval (Core #6 & 7) then drill ahead with 8.5" bit to 8,250' (Core Point #8)
15. Core from 8,250' – 8,280' TVD and POOH (Core #8)
16. Ream through cored interval (Core #8) then drill ahead with 8.5" bit to 8,530' (Core Point #9)
17. Core from 8,530' – 8,560' TVD and POOH (Core #9)
18. Core from 8,560' – 8,590' TVD and POOH (Core #10)
19. Ream through cored interval (Core #9 & #10) then drill ahead with 8.5" bit to 9,750' (Core Point #11)
20. Core from 9,750' – 9,780' TVD and POOH (Core #11)
21. Core from 9,780' – 9,810' TVD and POOH (Core #12)
22. Ream through cored interval (Core #11 & Core #12) then drill ahead with 8.5" bit to 9,900' (Core Point #13)
23. Core from 9,900' – 9,930' TVD and POOH (Core #13)

24. Core from 9,930' – 9,960' TVD and POOH (Core #14)
25. Ream through cored interval (Core #13 & #14) then drill ahead with 8.5" bit to 10,200' (Core Point #15)
26. Core from 10,200' – 10,230' TVD and POOH (Core #15)
27. Ream through cored interval (Core #15) then drill ahead with 8.5" bit to 10,400' (Core Point #16)
28. Core from 10,400' – 10,430' TVD and POOH (Core #16)
29. Core from 10,430' – 10,460' TVD and POOH (Core #17)
30. Ream through cored interval (Core #16 & #17) then drill ahead with 8.5" bit to 10,910' (Core Point #18)
31. Core from 10,910' – 10,940' TVD and POOH (Core #18)
32. Ream through cored interval (Core #18) then drill ahead with 8.5" bit to TD (11,100')
33. Circulate hole clean and prepare for logging operation
34. Run open hole logs
35. Collect formation fluid samples
36. Perform mini-frac in Pliocene Shale
37. Collect Sidewall Cores
38. Run cased hole logs
39. Plug and abandon wellbore (See high level cementing procedures)
40. Rig down and move out drilling rig and rentals.
41. Turn over location to Blue Sky

04 3668

f) **P&A Scope of work:**

HIGH LEVEL WORK PLAN:

1. Form UIC-17 will be submitted to IMD for review and approval prior to plugging and abandonment of well.
2. Move in and rig up cementing equipment
3. RIH with pipe open ended to 4,700'
4. Circulate and condition 11.2 ppg mud adding corrosion inhibiter

First Cement Plug

5. Pump 600' balanced plug from 4,700' to 4,100'

Second & Third Cement Plug

6. Pull 10 stands, circulate hole clean, checking for cement
7. Wait on cement
8. RIH and tag cement for confirmation
9. Pull up to 2,900' for Surface Casing Shoe Plug
10. Pump 200' balanced plug from 2,900' to 2,700'
11. Rack back 10 stands and circulate to clear cement from string
12. Wait on cement
13. RIH and tag cement for confirmation
14. Pressure test surface casing shoe plug to LDNR specification
15. Pull up to 1,000' for USDW Plug
16. Pump 300' balanced plug from 1,000' to 700'
17. Pull up to 500' and circulate to clear cement from string
18. Wait on cement
19. RIH and tag cement for confirmation

Surface Cement Plug

20. Pull workstring open ended to 105' BGL
21. Pump 100' balanced plug from 105' to 5' BGL
22. Pull out of the hole
23. Top off cement for tubing displacement
24. Rig down cementing equipment
25. Cut all casings 5' BGL. Weld a steel plate on top of casing stub with Well Serial # welded on top of steel plate.

g) **Proposed P&A Schematic:**

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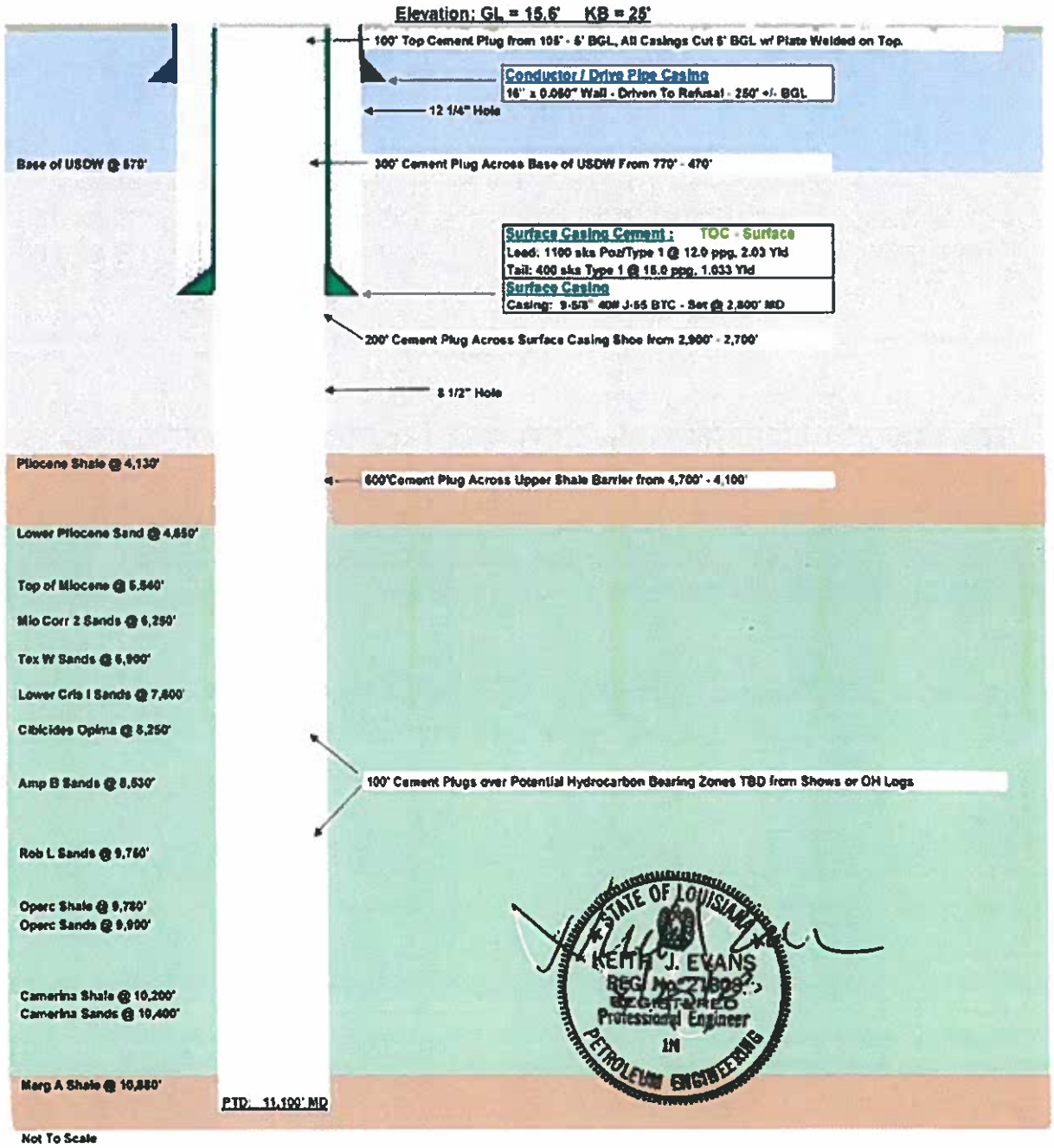
River Parish Sequestration, LLC - Evan Belle ASMP RPN-S #1
Proposed P&A Wellbore Diagram



STATE OF LOUISIANA
KEITH J. EVANS
REG. No. 21809
REGISTERED
Professional Engineer
IN
PETROLEUM ENGINEERING

h) **Logging & Testing Program:**

1) **Mudlogging Requirements:**
   a. Sample every 30 ft from surface to TD.

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