



May 12, 2022

State of Louisiana  
Department of Natural Resources  
Office of Conservation Injection & Mining Division  
617 North Third Street  
Baton Rouge, LA 70802-5428

RE: Class V Stratigraphic Well  
Well Name: Pelican MLR  
Well No: 4  
API: New Drill  
Section 35, T-5S, R-5E  
Livingston Parish, LA

To Mrs. Laura Sorey, Petroleum Scientist Supervisor:

Oxy Low Carbon Ventures, LLC. respectfully submits the attached UIC-25 Stratigraphic Test Class V- Well permit application. In support of this request, please find the following documentation:

- Form UIC-25 Stratigraphic Test
- Certified location plat showing the location of the Class V well
- Annotated copy of an electric well log of the nearest offset well showing the depths of the USDW and injection zones
- Work prognosis for drilling, completing, and testing the well
- Certified well schematic of the wellbore and wellhead (included in the prognosis). The schematics were certified by Robert X. Rodriguez PE, license No. 31545. The stamp is embossed in the original document and it's not clearly readable on the pdf.

The injection test fluid analysis will be provided once the source of fresh water has been identified and secured.

If you have any questions regarding this application, please contact me at 832-646-4450 or email Jose\_Gago@oxy.com.

Sincerely,

Jose Gago  
Regulatory Engineer

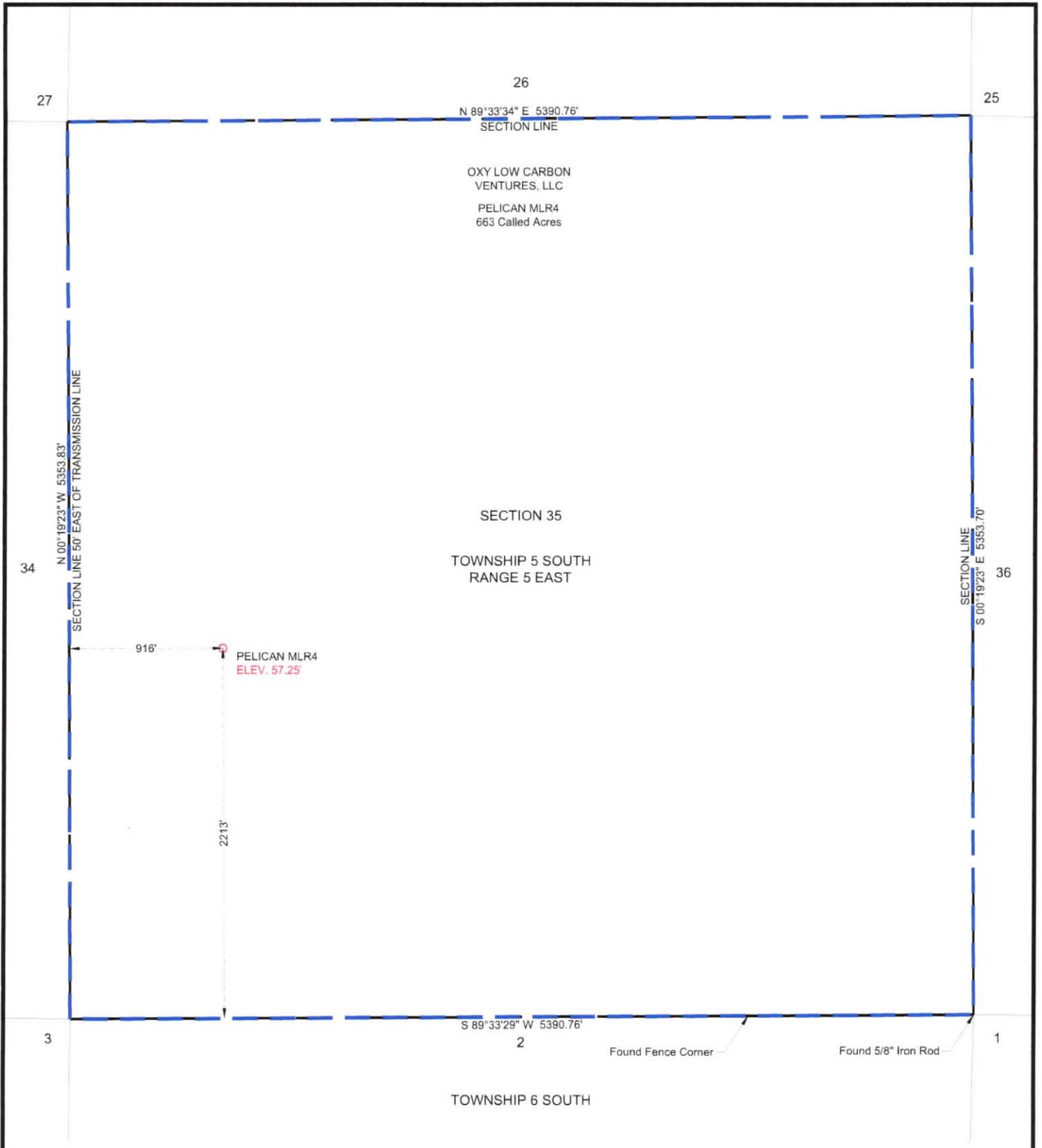


# UIC-25 Stratigraphic Test

## CLASS-V WELL PERMIT APPLICATION

<b>1. APPLICATION TYPE: (Check One)</b> <input checked="" type="checkbox"/> DRILL AND COMPLETE NEW CLASS-V WELL <input type="checkbox"/> CONVERT AN EXISTING WELL TO CLASS-V <input type="checkbox"/> OTHER (SPECIFY):		<b>LOUISIANA DEPARTMENT OF NATURAL RESOURCES - OFFICE OF CONSERVATION</b>  <b>INJECTION &amp; MINING DIVISION</b> Injection-Mining@la.gov (225) 342-5515		
<b>2. IDENTIFY WELL USE</b> Experimental Technologies LAC 43:XVII.103.C.5.o. After data collection it will be a monitoring well for a Carbon Dioxide geologic sequestration project.				
<b>3. OWNER/OPERATOR NAME</b> Oxy Low Carbon Ventures, LLC			<b>4. OC OPERATOR CODE</b> 60066	
<b>5. OWNER/OPERATOR MAILING ADDRESS</b> 5 Greenway Plaza, Suite 110			<b>6. CITY, STATE, ZIP CODE</b> Houston Texas, 77046	
<b>7. TELEPHONE NO</b> (713) 366-5785		<b>8. E-MAIL ADDRESS</b> jose_gago@oxy.com		
<b>9. WELL NAME</b> Pelican MLR		<b>10. WELL NO</b> 4	<b>11. WELL SERIAL NO (Well Conversions Only)</b>	
<b>12. FIELD NAME (if known)</b>			<b>13. FIELD CODE (if known)</b>	
<b>14. PARISH NAME</b> Livingston		<b>15. SECTION</b> 35	<b>16. TOWNSHIP</b> 5S	<b>17. RANGE</b> 5E
<b>18. LOUISIANA COORDINATE ZONE (Check One)</b> <input type="checkbox"/> NORTH ZONE <input checked="" type="checkbox"/> SOUTH ZONE		<b>For Item Numbers 19 Through 24, Give Coordinates in Louisiana Coordinate System 1927 and 1983</b>		
<b>19. LATITUDE (NORTH) NAD 1927</b> 30°34'05.35"	<b>20. LONGITUDE (WEST) NAD 1927</b> 90°40'56.79"	<b>21. LOUISIANA LAMBERT (X-Y) COORDINATES (NAD 1927)</b> X: 2204857.03      Y: 692060.84		
<b>22. LATITUDE (NORTH) NAD 1983</b> 30°34'06.03"	<b>23. LONGITUDE (WEST) NAD 1983</b> 90°40'57.14"	<b>24. LOUISIANA LAMBERT (X-Y) COORDINATES (NAD 1983)</b> X: 3485655.89      Y: 752770.42		
<b>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.</b>				
<b>Regulatory Program or Agency</b>		<b>Permits, Licenses, Construction, Project Approval Identification</b>		

26. WELL CASING / CEMENT DATA								
HOLE SIZE (inches)	CASING SIZE (OD - inches)	CASING WEIGHT (lb/ft)	CASING GRADE	CASING/LINER SETTING DEPTHS		SACKS CEMENT	TYPE CEMENT/ YIELD (ft <sup>3</sup> /sack)	CEMENT TOP (feet)
				TOP (feet)	BOTTOM (feet)			
12.25	9.625	40	K55	0	2380	784	G+additives/1.9	0
12.25	9.625	40	K55	2380	3380	540	G+additives/1.16	2380
8.5	5.5	17	L80	0	4700	790	G+additives/1.77	0
8.5	5.5	17	L80 Coated	4700	7800	750	CO2 Resistant/1.23	4700
27. BASE OF USDW 3280		28. WELL TOTAL DEPTH 7800		29. WELL PLUGBACK DEPTH 7800		30. TUBING SIZE & DEPTH N/A		31. PACKER SIZE & DEPTH N/A
32. INJECTION ZONE DEPTHS (if applicable) Top: 5350' 6250' Bottom: 5675' 7510'			33. COMPLETION/PERFORATION DEPTHS (if applicable) Top: 5350' 6250' Bottom: 5675' 7510'			34. WELL COMPLETION (Check One) <input type="checkbox"/> OPEN HOLE <input checked="" type="checkbox"/> PERFORATIONS <input type="checkbox"/> SCREEN		
INJECTIVITY TEST INFORMATION (if applicable)								
35. TEST MATERIAL (e.g. nitrogen, brine, etc): Fresh water  ***CO2 is prohibited as a Class V test material***			36. MAXIMUM TEST PRESSURE (psi): Estimated to be 2000 psi (at surface) Step rate test to find frac pressure.			37. TOTAL INJECTION VOLUME: Estimated to be 8000 barrels (volume for SRT in three zones)		
38. Is the Well Located on Indian Lands or Other Lands Owned by or under the Jurisdiction or Protection of the Federal Government?							<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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?							<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
40. AGENT OR CONTACT AUTHORIZED TO ACT ON BEHALF OF THE APPLICANT DURING THE PROCESSING OF THIS APPLICATION								
NAME: <u>Jose Gago</u>								
MAILING ADDRESS: <u>5 Greenway Plaza, Suite 110</u>								
CITY, STATE, ZIP CODE: <u>Houston, Texas, 77046</u>								
TELEPHONE NUMBER: <u>713-366-5785</u> FAX NUMBER: _____								
E-MAIL ADDRESS: <u>jose_gago@oxy.com</u>								
41. CERTIFICATION BY WELL OWNER/OPERATOR								
I certify that as the owner/operator of the injection well, the person identified in Item No. 46 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 Douglas Conquest					Print Title of Company Official (as applicable) VP Low Carbon Venture Services			
Signature of Well Owner/Operator 						Date 05/10/2022		



Application for Well No. #4  
6.0 miles Northeast of Livingston, LA.

**Location Coordinates for PELICAN MLR4**

NAD 27 X = 2204857.03  
 NAD 27 Y = 692060.84  
 NAD 27 LAT. = 30°34'05.35" / 30.568153  
 NAD 27 LONG. = -90°40'56.79" / -90.682443  
 NAD 83 X = 3485655.89  
 NAD 83 Y = 752770.42  
 NAD 83 LAT. = 30°34'06.03" / 30.568342  
 NAD 83 LONG. = -90°40'57.14" / -90.682538

I HEREBY STATE THAT THIS SURVEY WAS  
PERFORMED UNDER MY DIRECT SUPERVISION



**Driving Directions:**  
 From Livingston, LA (Int. of South Frost Road & Florida Boulevard) to well drive East on Florida Boulevard for 3.2 mi. Turn left onto Sidney Woods Road, and drive for 1.0 mi. Turn right onto Charles Holden Road and continue for 0.2 mi. Then turn left onto LA-1036 N and continue for 2.9 mi. Then turn right onto LA-442 E and continue for 0.4 mi. Then turn left onto an existing lease road and continue for 0.7 mi. The proposed PELICAN MLR4 location will be on the right-hand side of road.

- NOTES:**
- BEARINGS AND COORDINATES SHOWN HEREON ARE REFERENCED TO THE LOUISIANA COORDINATE SYSTEM OF 1983 (LOUISIANA SOUTH ZONE 1702).
  - LATITUDE & LONGITUDE ARE NAD 83 AND NAD 27 GEOGRAPHIC.
  - THIS IS AN EXHIBIT AND DOES NOT REPRESENT A TRUE BOUNDARY SURVEY. THIS SURVEY IS BASED ON OWNERSHIP AND EASEMENT INFORMATION PROVIDED BY OXY USA, INC. SURVEYOR DID NOT ABSTRACT SUBJECT TRACT AND THERE MAY BE EASEMENTS OR OTHER ENCUMBRANCES THAT AFFECT THE SUBJECT TRACT THAT ARE NOT SHOWN HEREON.

*Fred P. Langham 04/14/22*  
**FRED P. LANGHAM**  
 REGISTERED PROFESSIONAL LAND SURVEYOR  
 STATE OF LOUISIANA #04593

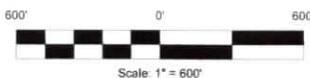
Date Surveyed April 9, 2022

OXY LOW CARBON VENTURES, LLC  
 PELICAN MLR4  
 2213' FSL & 916' FWL  
 Section 35  
 Township 5 South, Range 5 East  
 Livingston Parish, Louisiana

**LEGEND**

	DENOTES SURVEY BOUNDARY/TRACT LINE
	DENOTES LEASE TRACT
	DENOTES PROPOSED WELL LOCATION
	DENOTES PRODUCING WELL LOCATION
	DENOTES PERMITTED WELL LOCATION

**TRANSGLOBAL SERVICES LLC**  
 TBPELS FIRM# 10193740 / 19148  
 2129 S Great Southwest Parkway Suite 313  
 Grand Prairie, TX 75051  
 (817) 529-1180 - Fax (817) 529-1181



DRAWN BY: BAB	DATE: 04/12/2022
CHECKED BY: FPL	DATE: 04/12/2022
PAGE 1 OF 1	SCALE: 1" = 600'

DWG. NO. 10691_PELICAN MLR4_REV1	REVISION NO. 1
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COUNTY: LIVINGSTON  
FIELD: WILDCAT-NORTHEAST SATSUMA  
WELL: J. H. HAUBERG, ET AL. NO. 1  
NO. 1  
COMPANY: SHELL OIL COMPANY  
APR NO. 17-063-20043  
WELL: J. H. HAUBERG, ET AL. NO. 1  
FIELD: WILDCAT - NORTHEAST SATSUMA  
COUNTY: LIVINGSTON STATE: LOUISIANA  
LOCATION: 1000' ECL 6 2195' FEL SECT. 11  
STATIONING SEC. 11 TWP. 6S R. 1E  
FID: 658534  
LOG MEASURED FROM: SAME  
DATE: 22.0.0.0  
APPROX. FORM. DATE: 01.31.00  
RECEIVED: 01.22.00  
DATE: 01.22.00  
TIME: 10:00

WELL NAME: KEG/DJL The well name, location and borehole reference data were furnished by the customer.

Run No.	ONE	TWO
Service Order No.	148993	120414
Fluid Level	FULL	FULL
Speed F.P.M.	60	60
Salinity ppm of	900	900

Panel	DIP -	BB-72	BB-173
Cartridge	DIS -	DA-361	DA-485
Sonde	DIS -	EA-382	EA-560
Memorizer Panel	UP -	CSU	CSU
Centralizer Type		1 1/2	1 1/2
Stand-off - Inches		BB-65	BB-140
G.R. Panel		JC-2597	JC-2060
Sonic Panel No.	SIP -	DA-449	DA-556
Sonic Cart. No.	SIC -	FA-411	FA-444
Sonic Sonde No.	SIS -	SB-75	RC-1
Collar No.	MCD		

ILD Sonde Error	3.73	1.95
ILM Sonde Error	6.29	7.91
G.R. Background	13	13
G.R. Slope	1.73	1.73
T.C. Cal		AUTO

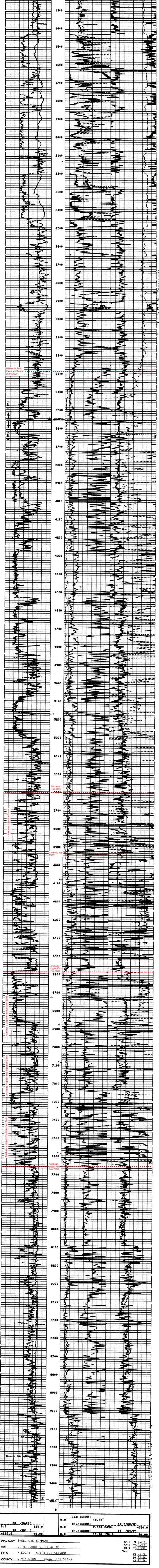
LOGGING DATA		
ILD Sonde Error	3.73	1.95
ILM Sonde Error	6.29	7.91
G.R. Scale per 100 Div.		0-120
G.R. - T.C. - Log		AUTO
LS-S	X	

REMARKS  
RUN 1) SONIC SPACING = 8'-10' & 10'-12', SONIC CENTRALIZERS = ONEZ  
LOG RUN IN SECTIONS TO ELIMINATE CYCLE SLIPS. SPLICES AT 415 AND 2105 TO ELIMINATE BAD DATA  
NO BHP INSTALLED ON THIS WELL AS OF THIS TIME  
CREW: NED-OLIVER  
RUN 2) CSU-LAND JOB.

PARAMETERS			PARAMETERS			PARAMETERS		
NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
DD		0.0	FNUM		0.6200	FEXP		2.150
FPHI		0.0	DTL		189.0	DTF		189.0
DTH	US	55.60	CDTS	US	100.0	MSEC	MM/M	3.440
SBR	DHMM	1.000	DSEC	MM/M	5.370	BS	INCH	6.290
								12.25

PARAMETERS			PARAMETERS			PARAMETERS		
NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
DD		0.0	FPHI		0.0	DTF	US	189.0
DTH	US	55.60	CDTS	US	100.0	MSEC	MM/M	3.440
SBR	DHMM	0.5000	DSEC	MM/M	5.370	BS	INCH	6.290

ILD (DHMM)	0.0	10.00	ILD (MM/M)	0.0	350.0
SFLA (DHMM)	0.0	2.000	2450.	SFLA (MM/M)	0.0
SFLA (DHMM)	0.0	10.00	150.0	DT (US/F)	50.00



ILD (DHMM)	0.0	10.00	ILD (MM/M)	0.0	350.0
SFLA (DHMM)	0.0	2.000	2450.	SFLA (MM/M)	0.0
SFLA (DHMM)	0.0	10.00	150.0	DT (US/F)	50.00

COMPANY: SHELL OIL COMPANY  
WELL: J. H. HAUBERG, ET AL. NO. 1  
FIELD: WILDCAT - NORTHEAST SATSUMA  
COUNTY: LIVINGSTON STATE: LOUISIANA

SCHL. FR 9482  
SCHL. TD 2422  
DLR TD 3500  
Elev: K8 74.9  
DF 23.9  
GL 51.9



## Pelican MLR-04 (Class V) Drilling, Completion and Testing

### a) General Well Information

Well Name	Pelican MLR-04
Well Classification	Class V
County , State	Livingston, Louisiana
Target Formation	Miocene, Anahuac, Frio
TVD / MD (ft)	7800 ft.
Trajectory	Vertical.

### b) Prognosis:

Intervals	TVD (ft)	Comments
Base of USDW	3280	
Mio- Seal	5140	Shale Seal.
Miocene – Injection Target	5350	Sandstone permeable zone.
Top of Anahuac - Seal	5675	Shale Seal.
Top of Anahuac – Injection Target	6250	Sandstone permeable zone.
Top of Frio – Injection Target	6500	Sandstone permeable zone. Main Target.
Top of Vicksburg	7510	Shale Seal.

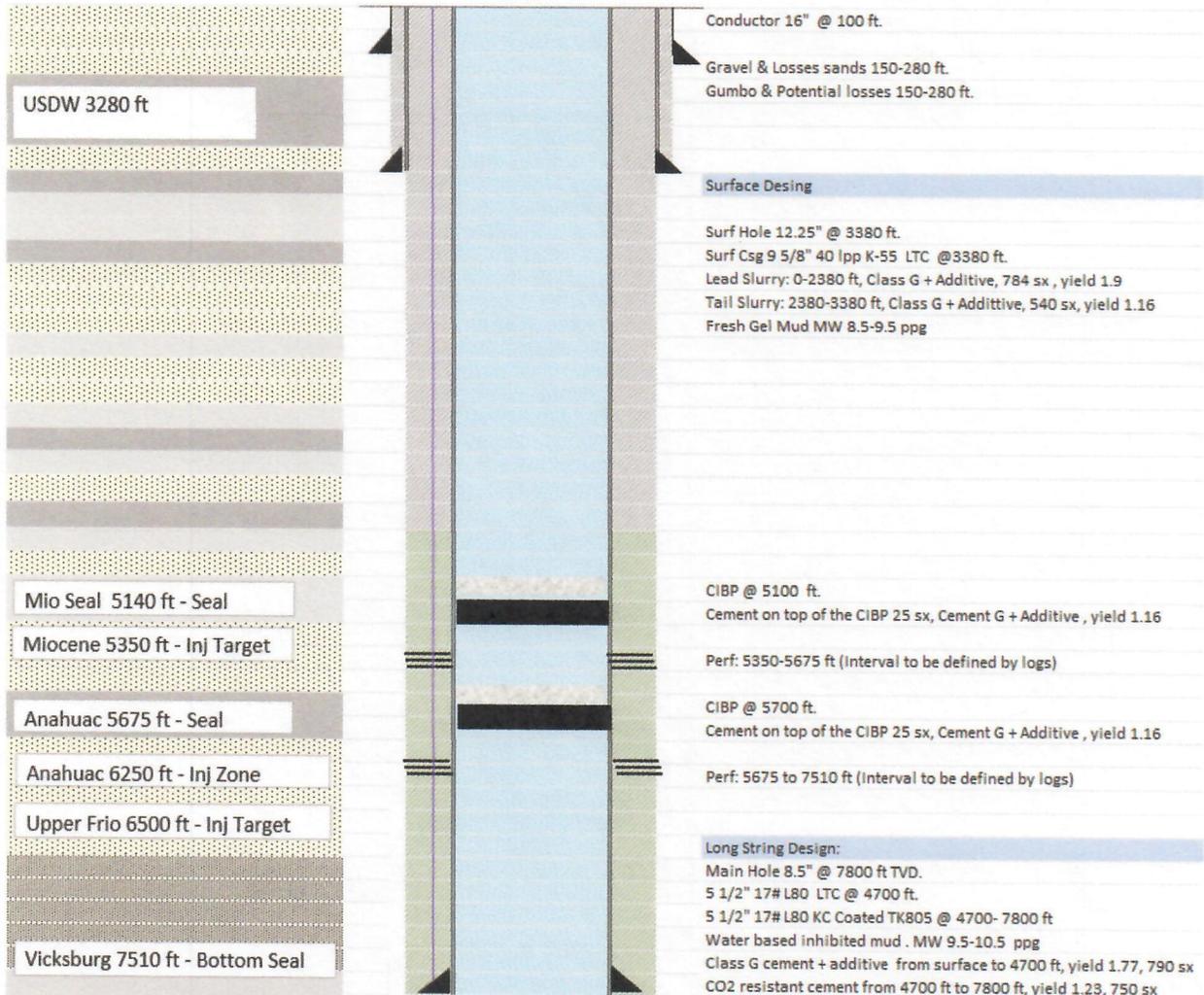


# Pelican MLR-04 (Class V) Drilling, Completion and Testing

## c) Proposed Well Schematic:



### Pelican MLR-04 (Class V)



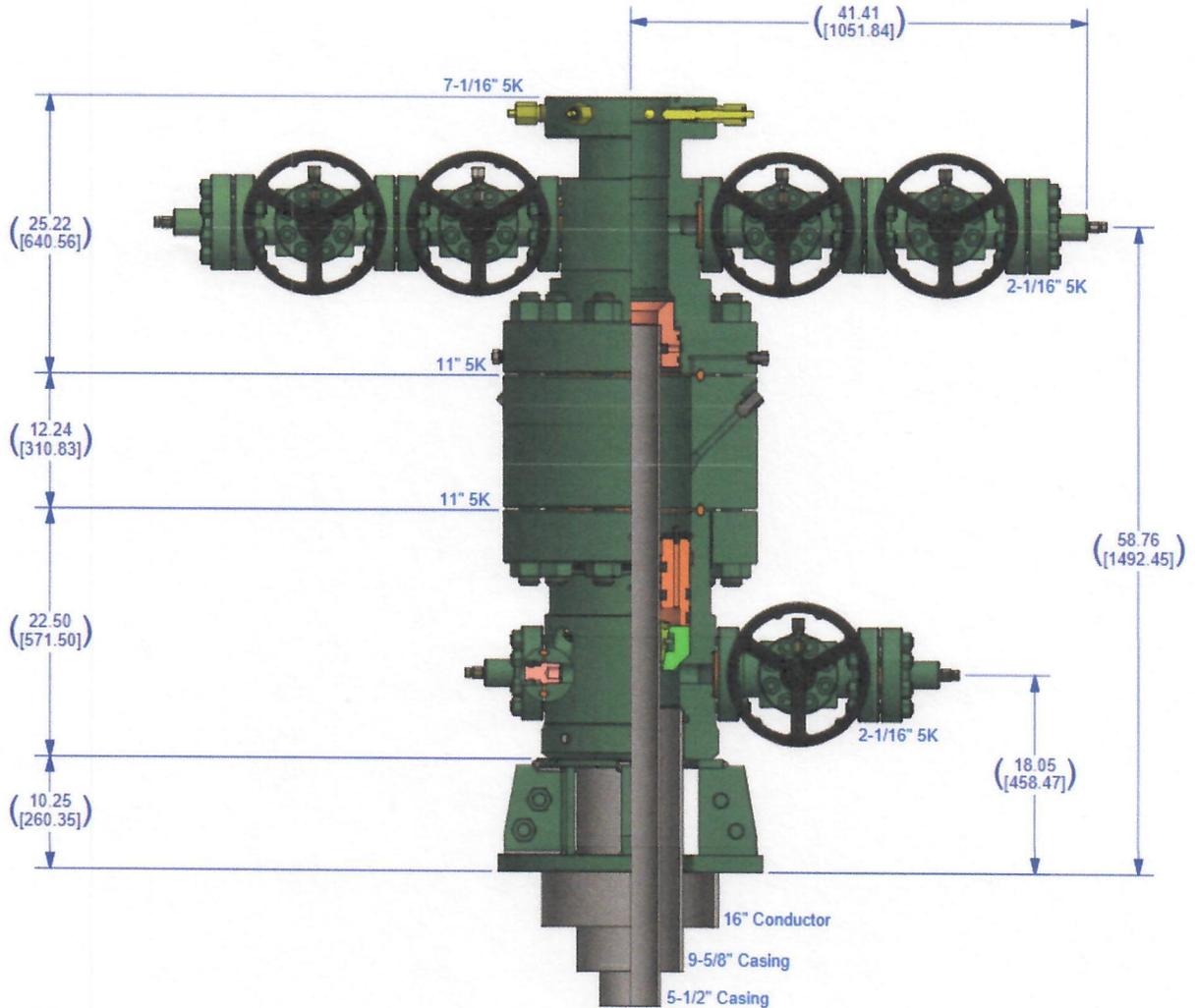
"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine, and/or imprisonment."

*[Handwritten Signature]*  
5/11/2022



# Pelican MLR-04 (Class V) Drilling, Completion and Testing

## d) Wellhead Schematic:



Note: the well will be TA with a night cap flange.

"I certify under penalty of law that I have personally 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, and/or imprisonment."

  
5/11/2022



## Pelican MLR-04 (Class V) Drilling, Completion and Testing

### e) Drilling Scope:

- Pre-set 16" conductor to 100 ft.
- Mobilized rig to location.
- Pick up surface BHA.
- Drill 12 ¼" surface hole to 3380 ft.
- Run surface logs by program.
- Run surface casing to 3380 ft.
- Cement surface casing.
- Install and tested BOP.
- Pick up directional BHA.
- Test casing 1000 psi for 30 min.
- Performed FIT/LOT at the shoe.
- Drill 8 ½" hole to TD , following coring program proposed.
- Run logs by program.
- Run long string casing with fiber optic attached to the exterior.
- Cement long string casing to surface.
- Nipple down BOP .
- Install surface equipment and section.
- Demobilized rig.

### f) Completion and testing procedure:

- Mobilized workover rig.
- Nipple up BOP (Blow Out Preventer).
- Pick up work string and bit to clean cement.
- Run in the hole and tag float collar or top of cement.
- Test casing for 30 min with 1000 psi.
- Drilled out cement to float collar (if needed).
- Pull BHA out of the hole.
- Run cement bond evaluation.
- Perforate first testing zone (Frio).
- Perform Step Rate Test and Fall Off Test.
- Perforate second testing zone (Anahuac).
- Perform Step Rate Test and Fall Off Test.
- Set cast iron bridge plug (CIBP) and 25 sx of cement to Temporary Abandonment(TA).
- Perforate third testing zone (Miocene).
- Set CIBP and 25 sx of cement to TA.
- Displace well with inhibited packer fluid.
- Pull out of the hole work string.
- Nipple down BOP.
- Install wellhead.
- Rig down equipment.



## Pelican MLR-04 (Class V) Drilling, Completion and Testing

### g) Logging & Testing Program:

#### 1. Mudlogging Requirements:

- a. Collect samples from surface to final TD, every 30 ft maximum.

#### 2. Coring Requirements:

No	Formation	Depth (ft)	Length (ft)
1	Mio - Seal	5200	60
2	Miocene - Injection Zone	5400	60
3	Anahuac - Seal	5700	60
4	Anahuac - Injection Zone	6300	60
5	Frio - Injection Zone	6600	90
6	Frio - Injection Zone	6690	90
7	Vicksburg	7600	60



## Pelican MLR-04 (Class V) Drilling, Completion and Testing

### 3. Logging Program:

Section	Log	Int/Sample
12.25 " @ 3300 ft	Open Hole Logs:	
	Resistivity	0-3380
	Neutron	0-3380
	Density	0-3380
	Gamma Ray	0-3380
	SP	0-3380
	4/6 arm caliper	0-3380
	Sonic Scanner	0-3380
	Cased Hole Logs:	
CBL-VDL-CCL	0-3380	
8 1/2" @ TD	Open Hole Logs:	
	Resistivity	3380-TD
	Density	3380-TD
	Neutron	3380-TD
	Spectral GR	3380-TD
	Sonic Scanner	3380-TD
	High Definition Image	3380-TD
	4/6 arm Caliper	3380-TD
	NMR / CMR	3380-TD
	Lithoscanner	3380-TD
	MDT Pressure	15
	SWC	50
	Fluid Samples	10
	MDT Mini Frac	6
	Cased Hole Logs & Test:	
CBL-VDL, USIT, Temp Log	0-TD	



## Pelican MLR-04 (Class V) Drilling, Completion and Testing

### 4. Testing Program:

Testing	Formation	Test
1	Miocene – Injection Zone	SRT, Fall Off
2	Anahuac – Injection Zone	SRT, Fall Off
3	Frio – Injection Zone	SRT, Fall Off