FACT SHEET

<u>Applicant:</u>	DTM Louisiana Gathering, LLC 500 Woodward Ave Suite 2900 Detroit, MI 48226 734-276-4568
Project Proposal:	Permit to drill one Class V Stratigraphic Test Well
Type of Facility:	N/A
Well Names:	ALT Well No. 005
Project Location:	Section 31, Township 06 North, Range 10 West, of Sabine Parish
Facility Local Address:	N/A
Application No.:	44149
Docket No.:	N/A

<u>Project Summary</u>: 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 **DTM Louisiana Gathering, LLC** to drill one Class V stratigraphic test well in **Sabine 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 **9000** 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.

<u>General Information:</u> **DTM Louisiana Gathering, 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 1490 feet below ground level. There are **11** registered water wells located within a one mile radius of the proposed well location. The principal regional aquifers in the area comprise of the confined **Sparta** 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.

<u>Application Locations</u>: 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 **DTM Louisiana Gathering, LLC** Class V Permit Application identified at the beginning of this document. The application package is also available at the Louisiana Department of Natural Resources, Office of Conservation and Injection and Mining Division websites.

For information regarding any information concerning the application, refer to the Public Notice for Application No. 44149, or call **Holton Hinchliffe** at (225) 342-8936, Monday through Friday, between the hours of 8:00 a.m. to 4:30 p.m.

<u>Comment Period</u>: The public comment period officially commences **December 5, 2023** at 8:00 a.m. and concludes **January 4, 2024** at 4:30 p.m. Submit all comments in writing to **Holton Hinchliffe**, 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 DTM Louisiana Gathering, LLC, Class V Permit, Application Number 44149.



JOHN BEL EDWARDS GOVERNOR State of Louisiana department of natural resources OFFICE OF CONSERVATION

THOMAS F. HARRIS SECRETARY

MONIQUE M. EDWARDS COMMISSIONER OF CONSERVATION

_____, 2024

KATHERINE A. PANCZAK DTM LOUISIANA GATHERING, LLC (D1047) 500 WOODWARD AVE SUITE 2900 DETROIT, MI 48226

* * * APPROVAL TO CONSTRUCT * * *

RE:	STRATIGRAPHIC TEST WELL – NEW WELL: ALT WELL NO: 005
	FIELD: WILDCAT-NO LA SHREVEPORT DIST PARISH: SABINE

APPLICATION NO. 44149 SERIAL NO. _____ API NO. _____ SEC/TWN/RNG: 30/06N/10W

Ms. Panczak:

The application by DTM Louisiana Gathering, LLC (D1047) to drill a Class V stratigraphic test well has met the interim requirements for permitting such a well. You are hereby granted approval to perform the work as described in the application. The approved work must be completed by ______.

DTM Louisiana Gathering, LLC (D1047) is to notify the Conservation Enforcement Specialist (CES) for Sabine Parish, Rex Darden at 318-623-4925, Monday through Friday, or by calling the Injection and Mining Division at (225) 342-5515 at least 72 hours prior to commencement of work.

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,

Monique M. Edwards Commissioner of Conservation

Stephen H. Lee, Director Injection and Mining Division

Enclosures



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 <u>prior written approval</u> from IMD. Failure to obtain <u>prior</u> <u>written approval</u> 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.	44149	Serial No.	
CES Name	Rex Darden	CES Phone No.	318-623-4925

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 <u>www.dnr.louisiana.gov/consforms</u> >> 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 **<u>ONE PACKAGE</u>** to:

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

NOV 0 6 2023

 APPLICATION TYPE: (Check One) DRILL AND COMPLETE NEW CLASS-V CONVERT AN EXISTING WELL TO CLA OTHER (SPECIFY): IDENTIFY WELL USE Acquistion of Geotechnical Data and I OWNER/OPERATOR NAME 	LOUISIANA DEPARTMENT AND WATING ANISION RESOURCES - OFFICE OF CONSERVATION INJECTION & MINING DIVISION Injection-Mining@la.gov (225) 342-5515							
DTM Louisiana Gathering, LLC						D	1047	
5. OWNER/OPERATOR MAILING ADDRESS 500 Woodward Ave Suite 2900				6. CITY, STATE, ZIP 6 Detroit, MI 48226	CODE	:		
7. TELEPHONE NO 8. E-MA 734-276-4568 katheri				s ak@dtmidstream.co	om			
9. WELL NAME 10 Alt 5			0 11. WELL SERIAL NO (Well Conversions Only)					Dnly)
12. FIELD NAME (if known) Wildcat		1		·	·	13. FIELD N/A	CODE	if known)
14. PARISH NAME Sabine Parish				15. SECTION 31	16. T 6N	OWNSHIP		17. RANGE 10W
18. LOUISIANA COORDINATE ZONE (Check	One) OUTH ZONE		For Iter Coordii	n Numbers 19 Thro nate System 1927 and	ugh (1983	24, Give C	Coordi	nates in Louisiana
19. LATITUDE (NORTH) NAD 1927	20. LONGITUDE (WES	T) NAD 1927	;	21. LOUISIANA LAME	BERT	(X-Y) COO	RDIN	ATES (NAD 1927)
31°27'31.77" N	93°25'46.61" W			x: 1,710,138.321		Y: 28	89,38	8.727
22. LATITUDE (NORTH) NAD 1983	23. LONGITUDE (WES	T) NAD 1983		24. LOUISIANA LAME	BERT	(X-Y) COO	RDIN	ATES (NAD 1983)
31°27'32.41" N	93°25'47.23" W			x: 2,990,924.302		Y: 35	50,09	4.698
25. LIST PERMITS, LICENSES, OR APPROV APPLICANT'S LEGAL OR TECHNICAL ABIL OR, IF ISSUED, THE IDENTIFICATION NUMB	ALS THE APPLICANT I ITY TO CARRY OUT TH ER OF THE PERMIT, LI	HAS RECEIV IE PROPOSE ICENSE, OR	ED OR ACTIN	APPLIED FOR WHICH VITY. INCLUDE IDEN APPROVALS.	SPE(CIFICALLY ATION NUI	AFFE	CT THE OF APPLICATIONS
Regulatory Program or Agency				nits, Licenses, Constr	uctio	n, Project /	Аррго	val Identification
- <u></u>								

UIC-25 Stratigraphic Test CLASS-V WELL PERMIT APPLICATION

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26. WELL CASI	. WELL CASING / CEMENT DATA													
HOLE SIZE (inches)	CASIN (OD - i	G SIZE nches)	CASING WEIGHT (Ib/	ft) (CASING GRADE	CASING/LINER TOP (feet)	SETTING DEP BOTTOM (f	THS eet)	S, CE	ACKS EMENT	TYPE YIELD	CEMENT/ (ft ³ /sack	C T(EMENT OP (feet)
Driven	20			E	3	0	60		N/A		N/A N/A		0	
17.5	13 3/8		61	J	55	0	1875		133	7	1.18		0	
12 1/4	9 5/8		47	ι	.80	0	4700		116	4	1.1/1.	95	0	
8 1/2	5 1/2		17	L	.80	0	5600		132	3	1.18		56	300
8 1/2	5 1/2		17	1	3CrL80	5600	6550		207		1.11		56	300
27. BASE OF U 1490	SDW	28. WEL 9000	L TOTAL DEP	TH	29. WELL PLUC 6600	SBACK DEPTH	30. TUBING 2.875, 485	SIZE (50	& DEF	PTH 3	31 . PACK 5.5x2.87	E R SIZE & (5, 4800	DEF	TH
32. INJECTION	ZONE D	EPTHS ((if applicable)	33. C	OMPLETION/PE	RFORATION DEP	THS (if applic	able)	<u> </u>	34. WEL		ETION (C	hec	k One)
тор: N/A	Во	ottom: N	/A	Тор:	5068	Bottom: 50	88				N HOLE	🖸 PER	RFOR	RATIONS
											REEN			
INJECTIVITY T	EST INFO	ORMATIC	ON (if applicab	e)										
35. TEST MATI	ERIAL (e	.g. nitro	gen, brine, etc	;):	36. MAXIMUM T	EST PRESSURE	(psi):	37. 1	ΓΟΤΑΙ	L INJEC	TION VOL	UME:		
N/A					N/A			N/A						
CO2 is proh	ibited as	s a Clas:	s V test mater	ial			-							
38. Is the Well	Located	on Indiar	h Lands or Othe	er Lan	ds Owned by or u	Inder the Jurisdicti	ion or Protectio	on of t	he Fe	deral Go	vernment	? D YE	S	🗹 NO
39. Is the Well I	Located o	on State \	Nater Bottoms	or Oth	er Lands Owned b	y or under the Juri	sdiction or Prot	ection	n of the	e State of	f Louisiana	? 🗖 YE	s	🗹 NO
40. AGENT OF NAME, Zac	R CONTA	CT AUT	HORIZED TO	АСТ (ON BEHALF OF T	THE APPLICANT	DURING THE	PROC	urss Uff	NCE O	FCON	SERVA	TIO	N
MAILING AD	DRESS	1840 N	lacKenzie D	r						NI/	SE n c	1000		
CITY, STATI	E, ZIP CO		oper Arlingto	n, Ol	H 43220					130	14 00	2023		
TELEPHON		ER: 724	-712-1195			FAX N	UMBER: 703	-528-	-043	9 CTION				
E-MAIL ADD	RESS:	zfreund	@adv-res.co	om					nuci	GHUNT		IIING DIV	1210	IN .
41. CERTIFIC	ATION B	Y WELL	OWNER/OPE	RATO	R									
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)														
Katherine A	Panzak					VI	e Presi	U	nt	-				
Signature o	Well O	wner/O	perator					D	ate [/	13/20	773			
	- Cl	5							+	7				

I. SUBMIT THE FOLLOWING AS A COMPLETE APPLICATION PACKAGE FOR A CLASS-V WELL:

- A. Application Fee: Submit the non-refundable application fee for each well per LAC 43:XIX.Chapter 7.
- B. Include the following as applicable:
 - 1. One Form UIC-25 with original signature;
 - 2. Two original Form MD-10-R-A for each existing well to be converted (if conversion is proposed);
 - 3. One original Certified Location Plat showing the location of each Class-V well location;
 - a. Please be sure to comply with the requirements of the IMD-GS-10 Policy
 - 4. Injection test fluid analysis (if injection is proposed);
 - 5. An annotated copy of an electric well log of the nearest offset well that shows the Underground Source of Drinking Water (USDW);
 - 6. An annotated copy of an electric well log of the nearest offset well that shows the proposed injection zone (if injection is proposed);
 - 7. Work prognosis for drilling, completing, and testing the well;
 - 8. Schematic(s) of the Class-V well showing:
 - a. Casing diameter, specifications, material (PVC, steel, etc.), and depth,
 - b. Screen type, length, material, slot or opening size,
 - c. Injection tubing size inside casing (if any),
 - d. Hole diameter (bit size),
 - e. Amount and type of cement used and depths to top and bottom of cement, INJECTION AND MINING DIVISION
 - f. Wellhead showing all fittings,
 - g. Discharge line diameter and connection to wellhead,
 - h. Well house (if any).
 - **Schematics should be stamped and signed by a Louisiana-registered Professional Engineer (PE) as appropriate**

II. REQUIREMENTS OF A PERMIT APPLICATION FOR CLASS-V INJECTION WELL:

- A. Operating a Class-V well without a permit is a violation of Statewide Order No. 29-N-1 (LAC 43:XVII, Subpart 1) and may subject. the well owner to enforcement action including fines as provided by La. R.S. 30. No fines will be imposed on the owner of an existing unpermitted injection well <u>provided</u> the owner submits an application for a permit. However, repairing, stimulating, plugging or performing other work on a Class-V well without a work permit (Form UIC-17) may subject the well owner to a fine.
- B. After completing the Class-V well, a permanent, weather-proof sign not less than 1 foot by 2-foot in size must be erected within ten feet of the well, which, at a minimum shows the Well Name and Office of Conservation issued Well Serial Number. If the Class-V well is enclosed within a well house, the sign may be inside the well house, if it is prominently visible upon entering. After completing the Class-V well, complete and submit the Form UIC-42, Well History and Work Résumé Report.
- C. When abandoning, the well must be plugged in accordance with Office of Conservation guidelines in effect at the time of abandonment.

The Injection & Mining Division can be reached by telephone at 225-342-5515 or email Injection-Mining@la.gov.

You may submit the application with all required attachments online at www.sonris.com via the Online UIC Reporting Portal, or submit the completed application form with all required attachments to:

Mailing Address

Office of Conservation Injection & Mining Division 617 North Third Street Baton Rouge, LA 70802-5428

Street Delivery Address

Office of Conservation Injection & Mining Division LaSalle Building 617 North Third Street, Suite 817 Baton Rouge, LA 70802-5428

OFFICE OF CONSERVATION



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STATE OF LOUISIANA OFFICE OF CONSERVATION FORM MD-10-R-1 APPLICATION FOR PERMIT TO DRILL FOR MINERALS TYPE ONLY - FILE IN DUPLICATE

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	(Pri	int on Buff co	olor pape	f)	

	SERIAL NUMI	BER:	
Same Bata			
	DATE OF APPLICATION	٧:	
OPERATOR: DTM Louisia	na Gathering, LLC	CODE NO.	D1047
ADDRESS: 500 Woodwa	rd Ave Suite 2900		
Detroit, MI 48	226		
Vell Data			
PARISH: Sabine Paris	sh	CODE NO.	43
FIELD: Wildcat		CODE NO.	
WELL NAME: <u>Alt</u>		Well No.:	005
LOCATION: Section:	31 Township: 6N Range: 10W		-
LOCATION DESCRIPTION:	TV		
PRODUCT: OIL		New Well	Repermit
Proposed Total Depth:	9,000 feet - Measured Depth	Redrill	Straight
(and TVD, if applicable)	9.000 feet - True Vertical Depth	Dual	Directiona
Application Fee:	\$252.00 Check No.:	Lease	Horizonta
Application Fee: 6 Month	\$252.00 Check No.: 1 Year COMPLETION: Ozan SS	Lease Unit	Horizonta SPC Plar (on water)
Application Fee: 6 Month PROPOSED ZONE OF APPLICABLE CONSER SERIAL NUMBER OF R CONTACT DATA SEND PERMIT TO: ADDRESS: (If different than above)	\$252.00 Check No.: 1 Year	Lease	Horizonta SPC Plar (on water)
Application Fee: 6 Month PROPOSED ZONE OF APPLICABLE CONSER SERIAL NUMBER OF R CONTACT DATA SEND PERMIT TO: ADDRESS: (if different than above) FOR ADDITIONAL	\$252.00 Check No.: 1 Year	Lease Unit	Horizonta SPC Plar (on water)
Application Fee: 6 Month PROPOSED ZONE OF APPLICABLE CONSER SERIAL NUMBER OF R CONTACT DATA SEND PERMIT TO: ADDRESS: (if different than above) FOR ADDITIONAL INFORMATION,CONTACT:	\$252.00 Check No.: 1 Year	Lease	Horizonta SPC Plar (on water)
Application Fee: 6 Month PROPOSED ZONE OF APPLICABLE CONSER SERIAL NUMBER OF R CONTACT DATA SEND PERMIT TO: ADDRESS: (if different than above) FOR ADDITIONAL INFORMATION,CONTACT: Phone No.:	\$252.00 Check No.: 1 Year	Lease Unit	Horizonta SPC Plar (on water)
Application Fee: 6 Month PROPOSED ZONE OF APPLICABLE CONSER SERIAL NUMBER OF R CONTACT DATA SEND PERMIT TO: ADDRESS: (if different than above) FOR ADDITIONAL INFORMATION,CONTACT: Phone No.: APPLICANT SUBMITTED BY: K TO SIGNATURE: 4 A	\$252.00 Check No.: 1 Year	Lease Unit	Horizonta SPC Plar (on water)
Application Fee: 6 Month PROPOSED ZONE OF APPLICABLE CONSER SERIAL NUMBER OF R CONTACT DATA SEND PERMIT TO: ADDRESS: (if different than above) FOR ADDITIONAL INFORMATION,CONTACT: Phone No.: APPLICANT SUBMITTED BY: K SIGNATURE: AT DEFICE USE ONLY	\$252.00 Check No.: 1 Year	Lease Unit	Horizonta SPC Plar (on water)
Application Fee: 6 Month PROPOSED ZONE OF APPLICABLE CONSER SERIAL NUMBER OF R CONTACT DATA SEND PERMIT TO: ADDRESS: (if different than above) FOR ADDITIONAL INFORMATION,CONTACT: Phone No.: APPLICANT SUBMITTED BY: K TO SIGNATURE: 4 AT DFFICE USE ONLY FINANCIAL SECURITY REQUIR	\$252.00 Check No.: 1 Year	Lease Unit	Horizonta SPC Plar (on water)
Application Fee: 6 Month PROPOSED ZONE OF APPLICABLE CONSER SERIAL NUMBER OF R CONTACT DATA SEND PERMIT TO: ADDRESS: (if different than above) FOR ADDITIONAL INFORMATION,CONTACT: Phone No.: APPLICANT SUBMITTED BY: K SIGNATURE: AT DEFICE USE ONLY FINANCIAL SECURITY REQUIR DISTRICT APPROVAL:	\$252.00 Check No.: 1 Year	Lease Unit	Horizonta SPC Plar (on water)
Application Fee: 6 Month PROPOSED ZONE OF APPLICABLE CONSER SERIAL NUMBER OF R CONTACT DATA SEND PERMIT TO: ADDRESS: (if different than above) FOR ADDITIONAL INFORMATION,CONTACT: Phone No.: APPLICANT SUBMITTED BY: K SIGNATURE: AT DISTRICT APPROVAL: ISSUED BY:	\$252.00 Check No.: 1 Year	Lease Unit	Horizonta SPC Plar (on water)

NOV 0 6 2023

STATE OF LOUISIANA OFFICE OF CONSERVATION FORM MD-10-R-1 APPLICATION FOR PERMIT TO DRILL FOR MINERALS TYPE ONLY - FILE IN DUPLICATE

OFFICEAUER ONLY	ING DIVISION	N	(Print on BL	ar color paper			(DEFICE USE
ייייה מאאראוטון					SERIAL N	UMBER:		
Company Data								
ODEDATOD.		• • • • • • • • • • • • •				ION:		
OPERATOR:		na Gathering,					CODE NO.	D104
ADDRESS:	500 Woodwa	rd Ave Suite 29	00					
_	Detroit, MI 48	226	<u>-</u> -					
Well Data	*******						******	
PARISH:	Sabine Paris	h					CODE NO.	43
FIELD:	Wildcat						CODE NO,	
WELL NAME:	Alt						Well No.	.:
LOCATION:	Section:	31 Towns	ship: 6N	Range:	10W			
LOCATION DESCRIPTION:								
						TYPE OF W		
				ER				Repermi
Proposed	d Total Depth:	9,000	teet - Measure	d Depth		- Rear	‴ <u> </u>	
(and TVD)	, if applicable)	9,000	feet - True Ver	rtical Depth	I	Duai	. -	
Applic	ation Fee:	\$252.00	Check No.:			Leas	e	
O IVH		i fear				Unit		SPC Pla
APPLICABI SERIAL NU		VATION ORDE EDRILL OR RE	RS:	plicable):				
SEND PE	ADDRESS:	500 Woodw	anczak ard Avenue Si	uite 2900				
(if diffen	ent than above)	Detroit, Mich	igan 48226					<u> </u>
FOR A INFORMATION	DDITIONAL ,CONTACT:	Katherine Par	nczak					
	Phone No.:	734-276-4568	3					
APPLICANT		a (19 22 –	–	•••••				
SOBM		Atherine A Pani RED NAME AND TITLE	zak, Vice Pres	sident				
SIG		PLICANT'S REPRESENT	TATUE					
OFFICE USE ONLY	· · · ·						(OFFICE USE
FINANCIAL SEC	URITY REQUIRE	ED PRIOR TO PER	MITTING:	Yes	No			
DISTRICT AP	PROVAL:					DA	TE:	
ISS	SUED BY:					DA	TE:	
	API No.:					E	xp.:	
							FORM MD	-10-R-1 (Rev 08



						Application No. 04414
red DEPTH	Formation	Top MD				
100	YWICDA			1 S		
200		8		X	Depth not accurate to scale	
300					20" Conductor Casing	
400					Dritled or drove until refusal	AFFIOE OF CONCEDVATE
500						OFFICE OF CONSERVAL
600				10 0		UTTION OF PETTE
700						
008	122 102 10 10			ALC: NOTE: N		11011 0.0.0000
1000						NEV IL 6 2023
1100						1101 0 0 2020
1200	-	1000		5		
1300						
1400	17300 AV	1000				INVERTICAL AND MUNINO DRAC
1500	Base Lowermost USDW	1490				INTECTION AND MINING DAVIS
1600	Wilcox Continued				SHADING IS NOT REFLECTIVE O	F ACTUAL LITHOLOGY
1700						
1800		0		X	the second s	
1900				~1875	13.375" Surface Casing 61# ISS BTO	CERW
2000					17.5" Open Hole	
2100					Cement to surface: Class A + additi	ives (15.6 lb/gal; 1.18 ft3/sack; 1337 sacks; 5.2 gal/sack)
2200						SAMMINING.
2300						
2500				Cement Stare (Collar	IN TEUP LUUISI III
2600				Fiber Optic Cab	le	WIA OF ANIL
2 700				Packer with P/1	Tgauges	N'S QUA Y'L
2800				Casing Shoe		いき (2) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2900				Non-CO2 Resist	tant Cement	ST WARN TE
3000				EverCRETE or S	imilar Cement	2 2
3100						
3200						= ANDREW DUGUID =
3300						E Licoppo No 19167 E
3400						E LICENSE INU. 4010/
3600	Midway Shale	3630		~3600	Cementing Stage Collar	Elhanna Darial E
3700						1 South Start
3800						11. Or WE IN
3900	12 - march and					TIL ESCIONNENGINI
4000	1 1 1 1 1 1 1 1 1					111, SIUNAL EN INIT
4100	- 1 A - 284					
4200						
4300	1993				Intermediate Casing 9.625" 47# L8	30 LTC Mild Steel ERW
4400	Ter Harry Contractor	11/0			12.25" Open Hole	of 175 forming addition (11) 5 mm 1 05 with leads 050 mm to 10 3 millionks
4500	Top Upper Cretaceous	4560		~4700, such	Cement Stage 2: 36001 to somace,	(65/35 Pointine + additives (12.5 ppg; 1.75 cult/sack; 650 sacks; 10.5 gal/sack)
4700	Annona Chalk	4750		~4800	Parker set depth	art poline sources and the bar and seen and seen and the second
4800	Ozan Chalk	4886		-4850	2.875" 180 Tubing	
4900						
5000	Ozan Sand	5068				
5100	tooten markete			~5068-5088	Oriented Peforations	
5200						
5300	All Contractions	and and a summer				
5400						
5500	Tókio	5454		ws cool	Concert to a de C CODIA da constance d	New Average of the fact of the
5600				2000	A S* Open Hole	nood w Landerikas (7210 millar) 7150 malografi 1273 sarrat sarrat Raharrat
5700	1				o.o open note	
5900	Austin Chalk	5980				
6000	A REAL PROPERTY AND INCOME.					
6100	Eagle Ford	6120				
6200						
6300	Washita-Fredericksburg	6341				
6400		1				
6500	Paluxy	6585			Long String Casing 5.5" 17# L80 Bl	EAR SMLS (Installed after openhole testing/ lower plugs)
6600				~6550'	Cement Tail: 6600ft to 5600ft; Eve	ercrete cement (15.8 ppg; 1.11 cutt/sack; 207 sacks; 3.43 gal/sack)
6700	Hanar Class Dava	6052	20 20	0000 5500	Olup #5 Everynate f1E 9 ener * **	nutrionale 245 nucles 2 43 nulleast
6800	upper ulen Kose	6633	Plue #5	7000 - 0000	ring ap overcrete (15.6 ppg; 1.11	routsers' tas servs' stas Eelisers'
7000						
7100				~7500 - 7000	Plug #4 Evercrete (15.8 ppg: 1.11	cult/sack; 307 sacks; 3.43 gal/sack)
7200			Dhare ind			
7300			PTUE #4			
7400	Mooringsport	7443	12			and the second
7500			Lines Dealer	~8000 - 7500	Plug #3 Evercrete {15.8 ppg; 1.11	cuft/sack; 307 sacks; 3.43 gal/sack)
7600			Diver #3			
7700			Phug #3			
7800			100000000000000000000000000000000000000			
1200			-	~8500 + 8000	Plug #2 Evercrete	Operator: DTM Lease:
8000			La Cara and		(15.8 ppg; 1.11 cuft/sack;	Country USA Well Type: CCS Monitorin
8000 8100			Plug #2		307 sacks; 3.43 gal/sack)	State: Louisiana Well Name: Alt
8000 8100 8200						County/Parish Sabine Well No. 5
8000 8100 8200 8300			Contraction of the			
8000 8100 8200 8300 8400		_				API No.:
8000 8100 8200 8300 8400 8500				~9000 - 8500	Plug #1 Evercrete	API No.: Drawn By: Date:
8000 8100 8200 8300 8400 8500 8500			The st	~9000 - 8500	Plug #1 Evercrete (15.8 ppg; 1.11 cuft/sack;	API No.: Drawn By: Date:
8000 8100 8200 8300 8400 8500 8600 8700			Plug #1	~9000 - 8500	Plug #1 Evercrete (15.8 ppg; 1.11 cuft/sack; 307 sacks; 3.43 gal/sack)	API No.: Drawn By:: Zach Freund 8/28/2023 Anoncover by: Date:
8000 8100 8200 8300 8400 8500 8600 8600 8700 8800 8800	Bezar Chaie	8970	Plug #1	~9000 - 8500 TD: 9000'	Plug #1 Evercrete (15.8 ppg; 1.11 cuft/sack; 307 sacks; 3.43 gal/sack) 8.5° Open Hole	API No.: Drawn By: Date: Zach Freund 8/28/2023 Approved by: Oate: International Inc.

Alt 5 Well Class V Application – NOD #1

Work Prognosis of Drilling, Testing, and Completion:

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1. General Well Information:

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eral Well Information:		
Well Name	Alt-5	COTION AND MIMING DIVISION
Well Classification	Class V	
County, State	Sabine Parish, Louisiana	
Target Formation	Mooringsport	
TVD / MD (ft)	9,000 ft	
Trajectory	Vertical	

2. Geologic Prognosis:

Interval Tops	TVD (feet)	
Ground Level	12	
Wilcox	12	
Midway	3630	
Top Upper Cretaceous	4560	
Annona Chalk	4750	
Ozan Chalk	4886	
Ozan Sand	5068	
Tokio	5454	
Austin Chalk	5980	
Eagle Ford Shale	6120	
Washita-Fredericksburg	6341	
Paluxy	6585	
Upper Glen Rose	6853	
Mooringsport	7443	
Bexar Shale	8970	

- 3. Work Prognosis of Drilling and Completion
 - 1. Survey location
 - Build location and cellar. Set 20" conductor to required depth (+/- 60ft) 2.
 - Hold pre-spud meeting at TBD location. 3.
 - Move in, rig up drilling rig. 4.
 - Nipple up and test BOP 5.
 - 6. Drill 17.5" hole to +1875 ft
 - 7. Notify CES at least 48 hours prior to anticipated casing test
 - RIH, circulate & condition hole for logging. TOH 8.
 - Run open hole surface logs. 9.

- 10. Submit logs confirming lowermost USDW and at least one non-USDW sand.
- 11. Upon approval of logs, set 13.375" casing at 1875 ft & cement with Class A blend to surface. (15.6 lb/gal; 1.18 ft3/sack; 1337 sacks; 5.2 gal/sack)
- 12. Wait on cement (WOC), to 500 psi compressive strength.
- 13. Run cased hole logs.
- 14. Nipple up and pressure test casing to a minimum of 600 psi for 30 minutes and test BOP. Document the results of the casing test on LDNR Form CSG-T.
- 15. Drill out shoe track and +/-10 feet of open hole. Perform FIT to 12 ppg equivalent.
- 16. Drill 12.25" hole to ± 4700 ft
- 17. Circulate & condition hole for logging. TOH
- 18. Log well with recommended logging suite.
- 19. RIH, circulate & condition hole for cementing. TOH
- 20. Run 9 5/8"; 47#/ft L-80 LTC casing to TD.
- 21. Cement 9.625" casing in two stages bringing cement system to surface. Circulate eight hours between stages.
 - Cement Stage 1: 4700 ft to 3600 ft; 50/50 Pozmix + additives (13.5 ppg; 1.1 ft3/sack; 314 sacks; 4.3 gal/sack)
 - Cement Stage 2: 3600 ft to surface; 65/35 Pozmix + additives (12.5 ppg; 1.95 ft3/sack; 850 sacks; 10.3 gal/sack)
- 22. WOC, to 500 psi compressive strength.
- 23. Run cement bond log 48 hours after wiper plug down.
- 24. Nipple up and pressure test Casing to a minimum of 1000 psi for a minimum of 30 minutes and test BOP. Document the results of the casing test on Form CSG-T.
- 25. Drill out casing after CBL.
- 26. Drill out shoe with 8.5" bit and 10 feet of new hole. Perform FIT to 12 ppg equivalent.
- 27. Drill 8.5" hole to first coring point (~6600') in the Paluxy. (Exact depth picked by wellsite geologist).
- Pick up 60 feet core barrel & 8.5" PDC core bit. TIH and core Paluxy f/ ±6600'-6660' (actual depths picked by well site geologist).
- 29. POH & lay down core.
- 30. Make hole conditioning trip if any hole problems encountered during coring operation.
- 31. TIH and drill to ± 7400 feet
- 32. Pick up 60' core barrel & 8.5" PDC bit. TIH and core f/ top of Mooringsport f/ ±7400'-7460' (actual depths picked by wellsite geologist)
- 33. POH & lay down core.
- 34. Make hole conditioning trip if any hole problems encountered during coring operation.

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- 35. TIH and drill to TD ± 9000 feet
- 36. Circulate & condition hole for logging. TOH
- 37. Log well with recommended logging suite.
- 38. Run MDT tools to desired depths (exact depths picked by wells HECTION INING DIVISION
- 39. Run SWC tool and core at selected intervals
- 40. TIH and circulate and condition hole for setting cement plugs.
- 41. Nipple up cementing equipment
- 42. Place cement plug #1 EverCRETE CO2 Resistant blend or similar (TD-8500')
 - 15.8 ppg; 1.11 ft3/sack; 307 sacks; 3.43 gal/sack
- 43. WOC
- 44. TIH and tag cement plug #, POH.
- 45. Place cement plug #2 EverCRETE CO2 Resistant blend or similar (8500' 8000')
 - 15.8 ppg; 1.11 ft3/sack; 307 sacks; 3.43 gal/sack
- 46. WOC
- 47. TIH and tag cement plug #2, POH.
- 48. Place cement plug #3 EverCRETE CO2 Resistant blend or similar (8000'-7500')
 - 15.8 ppg; 1.11 ft3/sack; 307 sacks; 3.43 gal/sack
- 49. WOC
- 50. TIH and tag cement plug #3, POH.
- 51. Place cement plug #4 EverCRETE CO2 Resistant blend or similar (7500'-7000')
 - 15.8 ppg; 1.11 ft3/sack; 307 sacks; 3.43 gal/sack
- 52. WOC
- 53. TIH and tag cement plug #4, POH.
- 54. Place cement plug #5 EverCRETE CO2 Resistant blend or similar (7000'-6600 feet)
 - 15.8 ppg; 1.11 ft3/sack; 245 sacks; 3.43 gal/sack
- 55. WOC

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- 56. TIH and tag cement plug #5, circulate, and condition hole for running casing.
- 57. POH laying down drill pipe & collars.
- 58. Run & set 5.5" casing at 6550 feet as follows. From 6550 to surface 5 ¹/₂' 17# L-80 Attach fiber optic DTS-DAS line to exterior of casing. Cement to surface in one stage with lead and tail system.
 - 5600 ft to surface; Class A + additives (15.6 lb/gal; 1.18 ft3/sack; 1323 sacks; 5.2 gal/sack)
 - Cement Tail: 6600ft to 5600ft; EverCRETE CO2 Resistant cement (15.8 ppg; 1.11 ft3/sack; 207 sacks; 3.43 gal/sack)
- 59. Nipple up and pressure test casing to a minimum of 1000 psi for a minimum of 30

minutes and test BOP. Document the results of the casing test on Form CSG-T.

- 60. WOC to 500 psi compressive strength.
- 61. Remove BOP

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- 62. Install Wellhead
- 63. Rig down and move out.
- 64. Move in completion rig with all equipment.
- 65. Nipple up BOP and test BOP and casing.
- 66. Run cement evaluation logs both sonic and ultra-sonic as well as other baseline cased hole logs.
- 67. Perforate using orientated perforating technique to protect fiber optic line the interval +/- 5068-5088.
- 68. Develop well as needed.
- 69. Install lower completion on 2 7/8" 6.5# L-80 tubing. Lower completion will consist of packer with pressure monitoring and sampling capability.
- 70. Rig down and move out all equipment.
- 71. Install surface equipment for continuous monitoring.

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4. Logging and Testing Program:

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- a. Mudlogging Requirements:
 - i. Once every 30 feet until the Eagle Ford Shale. Then once every 10 feet until total depth.
- b. Coring Requirements
 - i. One core at ±6600'-6660 feet in the Paluxy (Primary Seal)
 - ii. One core at \pm 7400'-7460 feet in the Mooringsport (Primary testing target)
 - iii. Sidewall Cores will be taken to supplement whole coring operations. Core points will be picked after open hole logging.
- c. Logging Program:

Section	Open Hole Log	Cased Hole Logging
		Cement Bond Log
Surface	Quad Combo	Temperature
Intermediate	Quad Combo	Cement Bond Log
	Sonic Scanner	
	Photo Electric	
	Spectral Gamma Ray	Ultrasonic Cement Image Tool
	Pulsed Neutron	Temperature
	Full-bore Formation Micro-imager	
	Combinable Magnetic Resonance	
	Elemental Capture Spectroscopy Sonde	
Production Hole	Quad Combo	Cement Bond Log
	Sonic Scanner	
	Photo Electric	
	Spectral Gamma Ray	
	Pulsed Neutron	Ultrasonic Cement Image Tool
	Full-bore Formation Micro-imager	Pulsed Neutron Capture
	Combinable Magnetic Resonance	Temperature
	Elemental Capture Spectroscopy Sonde	
	Modular Formation Dynamics Tester at selected intervals	

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Application No. 044149

Well Plugging and Site Closure Estimate

This estimate was completed for DTM Alt-5 well design by Advanced Resources International Inc.

Well Plugging and Site Closure						
Item	Cost (Dollars)	Notes				
Mobilization	\$50,000					
Rig Rates	\$65,550					
Hauling and Disposal	\$10,000					
Technical Services, Subsistence, and Travel	\$35,400					
Rentals	\$38,921					
Service Companies and Logging	\$200,000	USIT, CBL, and PNC logging				
Consumables	\$35,720					
Tubulars (Work string)	\$24,300					
Cementing						
CO2 Resistant Plugs	\$188,774	74 BBL @ \$2551/BBL				
Standard Cement Plugs	\$39,337	169 BBL @ \$233/BBL				
Total for Plugging	\$688,002					
Site Closure and Remediation	\$50,000					
Total For Plugging and Site Closure	\$738,002					

Plugging Procedure:

- 1. Notification of the intent to plug shall be given to the Louisiana DNR Injection and Mining Division in writing through form UIC-17.
- 2. After approval and work permit is issues, notify the appropriate oil and gas inspector a minimum of 12 hours prior to the beginning of plugging operations.
- 3. Mobilize rig and field staff to the facility and rig up.
- 4. Conduct and document a safety meeting to identify site-specific occupational hazards.
- 5. Record bottom hole pressure from down hole gauge and calculate kill fluid density.
- 6. Open up all valves on the vertical run of the tree and check pressures.
- 7. Test the pump and line to 2,500 psi. Fill tubing with kill weight brine (9.5 ppg or determined by bottom hole pressure measurement). Bleeding off occasionally may be necessary to remove all air

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from the system. Test casing annulus to 1000 psi and monitor. If there is pressure remaining on tubing, rig to pump down tubing and inject two tubing volumes of kill weight brine. Monitor tubing and casing pressure for 1 hour. If both casing and tubing are dead, then nipple up blowout preventers (NU BOP's). Monitor casing and tubing pressures.

- 8. If the well is not dead or the pressure cannot be bled off tubing, RU slickline and set plug in lower profile nipple below packer. Check pressure on well and dump kill fluid down tubing until the hydro-static on the profile plug is equal to the kill pressure under the plug. Nipple down tree, NU BOPs, and perform a function test. BOPs should have appropriately sized single pipe rams on top and blind rams in the bottom ram for tubing. Test pipe rams and blind rams to 250 psi low, 3,000 psi high. Test annular preventer to 250 psi low and 3,000 psi high. Test all Texas Iron Works (pressure valve), BOP's choke and kill lines, and choke manifold to 250 psi low and 3,000 psi high. NOTE: Make sure casing valve is open during all BOP tests. After testing BOPs, pick up tubing string and unlatch seal assembly from seal bore. Rig slick line and lubricator back to well and remove plug from well. Rig to pump via lubricator and circulate until well is dead.
- 9. Pull out of hole with tubing laying it down. NOTE: Pump down annulus as needed to insure the well is over-balanced with no flow through the packer from the formation pressure and there are at least 2 well control barriers in place at all times.
- 10. Lay down the-seal assembly, pick up work string, and trip in hole (TIH) with the packer retrieving tools. Latch onto the packer and pull out of hole laying down same.
 - a. Contingency: If unable to pull seal assembly, RU electric line and make cut on tubing string just above packer. Note: Cut must be made above packer at least 5-10 ft measured depth (MD). If unable to pull the packer, pull the work string out of hole and proceed to the next step. If problems are noted, update cement remediation plan (if needed) and execute prior to plugging operations.
- 11. TIH with work string to total depth (TD). Keep the hole full at all times. Circulate the well and prepare for cement plugging operations.
- 12. The lower section of the well will be plugged using CO₂-resistant cement from TD to around 500 ft above the top of the Paluxy Formation. This will be accomplished by placing plugs in 500 ft incremental lifts and using specific cement design. It is anticipated that 6 plugs of 500 feet in length will be necessary and a third 100 ft plug at the surface. No more than two plugs will be set before cement is allowed to set and plugs verified by setting work string weight down onto the plug.
- 13. Circulate the well and ensure it is in balance. Mix and spot 500 ft balanced plugs in 5.5" casing starting at the shoe and working up incrementally. Each plug must be tagged prior to placement of the next. Once first four plugs are placed, move up hole to upper plugs. Place tubing 500 ft. below the lowest identified base of USDW. Mix and spot 500 ft balanced plug in 5.5" casing. Pull out of plug and reverse circulate tubing. Repeat this operation until a total of 5 plugs have been set and 500 ft above the top of the USDW has been reached. If plugs are well balanced, then the reverse circulation step can be omitted until after each third plug. Lay down work string while pulling from well. If the rig is working daylights only then pull 10 stands above the last cement plug and rack back in derrick and reverse tubing before shutting down for night. After waiting overnight, trip back in hole and tag plug and continue. After the required plugs have been set, pull tubing from well and shut in for 12 hours. TIH with tubing and tag cement top. Pull tubing back out of well. Nipple down

BOPs and cut all casing strings below plow line (min 3 feet below ground level). Trip in well and set final cement plug. Lay down all work string, etc. Rig down all equipment and move out. Clean cellar to where a plate can be welded with well name onto lowest casing string at 3 feet.

14. The procedures described above are subject to modification during execution as necessary to ensure a plugging operation that protects worker safety and is effective to protect USDWs, and any significant modifications due to unforeseen circumstances will be described in the Well Plugging Report. Complete plugging forms (Form P&A) and send in with charts and all lab information to the regulatory agency within 20 days.

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Ad DEPTH	Engenation	Ton MD		Appikation Inc. 044149
ed ULPTH	Wilcox			Plug #9 Class A + Additives (15.6 lb/gal; 1.18 ft3/sack; 44 sacks; 5.2 gal/sack)
100	a v li			Depth not accurate to scale
300				
400				Drilled or drove until refusal
500				
500	ALC: NO DALLA			
800				NOV 0.5 2023
900				1404 0 0 2023
1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
1100				
1200				INTECTION AND MINING DIVISION
1400				INDECTION AND MINING DIVISION
1500	Base Lowermost USDW	1490	82	
1600	Wilcox Continued		Plug	SHADING IS NOT REFLECTIVE OF ACTUAL LITHOLOGY
1700				
1900		-20		~1875' 13.375" Surface Casine 61# ISS BTC FRW
2000				17.5" Open Hole
2100				Cement to surface: Class A + additives {15.6 tb/gal; 1.18 ft3/sack; 1337 sacks; 5.2 gal/sack}
2200				Plug #8 Class A + Additives (15.6 lb/gal; 1.18 ft3/sack; 569 sacks; 5.2 gal/sack)
2300				
2400			E E	Compart State Collins
2600				Certer Stage Collar
2700				Packer with P/T gauges
2800				Casing Shoe
2900				Non-CO2 Resistant Cement
3000				EverCRETE or Similar Cement
3100			L L	
3300				
3400				E License No. 48167
3500				
3600	Midway Shale	3630		-3600 Cementing Stage Collar Windruck and Stage Collar
3700		1		TI PO
3900		S-120 1		The FEOD WORKING
4000				11/10SIONAL ENVILLE
4100		100		Plug #7 Class A + Addritves (15.6 lb/gal; 1.18 ft3/sack; 438 sacks; 5.2 gal/sack)
4200		1.5		
4300				Intermediate Casing 9.625" 47# L80 LTC Mild Steel ERW
4400	Tan Lingas Castagonus	45.60		12.25° Open Hole
4500	Top Opper Cretateous	4300		*4700-surface Coment State 1:4700ft to \$600ft;505 Poznik + edditives [13:5 ppg, 1:55 cutry acts, job sates, jo
4700	Annona Chaik	4750		
4800	Ozan Chalk	4886		
4900			2	
5000	Ozan Sand	5068		
5200				Squeezed Perorations
5300		1000000		
\$400				Plug #6 Evercrete {15.B ppg; 1.11 cuft/sack; 460 sacks; 3.43 gal/sack}
5500	Tokio	S454		
5600				*5600' Cement Lead: 5600ft to surface; Class A + additives (15.6 lb/gal; 1.18 ft3/sack; 1323 sacks; 5.2 gal/sack)
5700				6.5' Open Hole
5800	Austin Chalk	5980		The second se
6000	French Lard Sch 100175	a sub	9	
6100	Eagle Ford	6120	N 19	
6200	the contractory of		E.	
6300	Washita-Fredericksburg	6341		
6400	Datum	65.9C		Long String Coving 5 5" 1781 90 85 AB 5885 (Installed after anothele testing Laure about
6600	reauty	0363		*6550' Cement Tail: 6600ft to 5600ft; Evercrete cement (15.8 ppg: 1.11 cuft/sack: 207 sacks: 3.43 gal/sack)
6700			a a	an a
6800	Upper Glen Rose	6853	1-11-11-11-11	~7000 - 6600 Plug #5 Evercrete (15.8 ppg; 1.11 cuft/sack; 245 sacks; 3.43 gal/sack)
6900			Plug #5	
7000				77500 - 7000 - Blue ## Eugeneets (15.9 mms.) 11 2019/
/100			1282	7500 - 7000 Priug ## tvercrete (15.0 ppg; 1.11 curt/sack; 307 sacks; 3.95 gaUsack)
7300		8 0	Plug #4	
7400	Mooringsport	7443		
7500			28532	*8000 - 7500 Pfug #3 Evercrete (15.8 ppg; 1.11 cuft/sack; 307 sacks; 3.43 gal/sack)
7600			Phun #3	
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8100			1.0000	{15.8 ppg: 1.11 cuft/sack; Country USA Well Type: CCS Mondoring
8200			Plug #2	307 sacks; 3.43 gal/sack) State: Louisiana Well Name: Alt
8300			Sec. Set	County/Parish Sabine Well No. 5
8500			- Contractor	~9000 - 8500 Plue #1 Evercrete Drawn By: Date:
8600			Contraction of the	(15.8 ppg; 1.11 cuft/sack;
8700			Plug #1	307 sacks; 3.43 gal/sack) Zach Freund 11/2/2023
0000				Approved by: Date: Advanced Resources
8800	De la Alla	0071	-	

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COMPANY: JU	STISS OIL C	CO., INC.		1		
WELL: BO	ISE SOUTH	ERN 31-	13 #1			
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PARISH: SA	BINE	STATE:	LOUIS	IANA	225032	
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PARISH Field: Vveit Company	Measured From. KEL API Serial No 1708521955	LY BUSHING SECTION 31	TOWNSHIP	RANGE	· · · · · · · · · · · · · · · · · · ·	
Logging Date Run Number Depth Driller, Schlumberger Depth Bottom Log Interval Top Log Interval Casing Driller Size @ Depth Casing Schlumberger Bit Size Type Fluid In Hole Density Viscosity Fluid Loss PH Source Of Sample RM @ Measured Temperatur RMF @ Measured Temperatur RMF @ Measured Temperatur RMC @ Measured Temperatur RMC @ MRT RMC Source RMF RMC Source RMF RMC Source In Becorded Temper Circulation Stopped Logger On Bottom Unit Number Recorded By Witnessed By	4-DEC-2000 ONE 1900 ft 1900 ft 1900 ft 0 ft 7.875 in Fresh Water Disi 9.2 lbm/gal Mud Pit 4 5.295 ohn.m Ure 10 590 of m Calculated HT 3.903 (c) 114 degF Time 4-DEC 2000 3080 Shrewe Mike McConnett Mr, Brtl Ress	@ @ 45 s SHM @ 60 degF @ 60 degF @ 60 degF Calculated 2.927 114 114 112 00 14.30 port, LA	O 6 200, O 6 200, DONT IA PONT IA E C E IV E EB 0 8 2001 OGICAL DIVIC	(e) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f	Logging Date Bun Number Depth Driller Schlumberger Bottom Log Interv Casing Driller Casing Schlum Bit Size Type Fluid In H Density Fluid Loss Source Of Sar RM @ Measurd RMC @ Measurd RMC @ Measurd RMC @ Measurd RMF @ Measurd Source RMF RM @ MRT Maximum Recc Circulation Stop Logger On Both Unit Number Recorded By Witnessed By	Depth erval al Size @ Depth berger ole Viscosity PH nple d Temperature red Temperature red Temperature RMC RMF @ MRT orded Temperatures opped Time iom Time

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