

JOHN BEL EDWARDS GOVERNOR

Enclosures

State of Louisiana

THOMAS F. HARRIS
SECRETARY

DEPARTMENT OF NATURAL RESOURCES OFFICE OF CONSERVATION

MONIQUE M. EDWARDS

	OFFICE OF CONSERVATION	COMMISSIONER OF CONSERVATI
	, 2023	COMMISSIONER OF CONSERVATION
DENB 5851 L	TODD URY CARBON SOLUTIONS, LLC (D10126) LEGACY CIRCLE, SUITE 1200 D, TX 75024 *** APPROVAL TO CONSTRUCT ***	
	ALLINOVAL TO CONCINCT	
RE:	STRATIGRAPHIC TEST WELL – NEW WELL: DRACO IZM NO. 1 FIELD: WILDCAT-SO LA LAFAYETTE DIST PARISH: VERNON	APPLICATION NO. 44308 SERIAL NO API NO SEC/TWN/RNG: 8/2S/6W
Mr. To	dd:	
require	oplication by Denbury Carbon Solutions, LLC (D10126) to drill a Class V stratigements for permitting such a well. You are hereby granted approval to perfection. The approved work must be completed by, 2024.	
Carne	rry Carbon Solutions, LLC is to notify the Conservation Enforcement Specials at 225-405-7470, Monday through Friday, or by calling the Injection and Miningurs prior to commencement of work.	
	twenty (20) days after completion of the work, submit the documentation recements to the Injection and Mining Division. PLEASE READ THE ENCLOSURE	
	e be reminded that for future work on the well, a work permit approval must ing, stimulating, plugging, or otherwise working on this well.	be obtained from this office before
Yours	very truly,	
	ue M. Edwards nissioner of Conservation	
	en H. Lee, Director on and Mining Division	

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 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	0.000	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

OFFICE OF CONSERVATION

June 27, 2023

JUN **2 9** 2023

INJECTION & MINING DIVISION

Laura Sorey, P.G.
Louisiana Department of Natural Resources
Office of Conservation, Injection & Mining Division
617 North Third Street
Baton Rouge, LA 70802

RE: Class V Stratigraphic Test Well

Well Name: Draco IZM

Well No: 1

Section 8, T-2S, R-6W Vernon Parish, LA

Dear Ms. Sorey,

Denbury Carbon Solutions, LLC ("Denbury") respectfully submits the attached UIC-25 Stratigraphic Test Class V Well permit application as well as the Form IMD-1 Request to Expedite. 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 copies of electronic well logs of the nearest offset well showing the depths of the USDW and injection zones
- · Work prognosis for drilling, completing, and testing the well
- Wellbore and wellhead schematics
- P&A procedure, schematic, and a third-party estimate.

The fluid source for the injectivity test(s) will be a water source well drilled on location. A fluid source analysis from a LELAP accredited laboratory will be provided to the Injection & Mining Division (IMD) prior to any injection.

Denbury is currently working on financial security in the form of a performance bond. Once the third-party P&A estimate is approved by IMD, the financial surety will be finalized and submitted.

Please contact me at (972) 673-2238 or by email at cody.todd@denbury.com if you have any questions regarding this application.

Regards

Cody Todd, P.E.

CCUS Regulatory Compliance Specialist



B. ATTACHMENTS

B.1 ONE FORM UIC-25 WITH ORIGINAL SIGNATURE

044308

OFFICE OF CONSERVATION

JUN 2 9 2023

INJECTION & MINING DIVISION





UIC-25 Stratigraphic Test JUN 2 9 2023 CLASS-V WELL PERMIT APPLICATION

INJECTION & MINING DIVISION

WASCE TO THE PROPERTY OF THE P								
				LOUISIANA DEPARTMENT OF NATURAL				
DRILL AND COMPLETE NEW CLASS-1	V WELL		RESOURCES - OFFICE OF CONSERVATION				RVATION	
CONVERT AN EXISTING WELL TO CLASS-V			INJE	CTION & MININ	IG DI\	VISION		
OTHER (SPECIFY):				tion-Mining@la 342-5515	a.gov			
2. IDENTIFY WELL USE								
Drill a stratigraphic test well to acquire UIC Class VI Site Characterization for	e site specific data a r the Draco Storage	and validate Facility Ca	e prope arbon S	erties of a storage equestration Pro	complect.	lex to me	eet re	quirements of
3. OWNER/OPERATOR NAME				<u> </u>		4.	. oc c	PERATOR CODE
DENBURY CARBON SOLUTIONS, L	LC					D	1012	6
5. OWNER/OPERATOR MAILING ADDRESS				6. CITY, STATE, ZIF	CODE			
5851 LEGACY CIRCLE SUITE 1200				PLANO, TX 750	24			
7. TELEPHONE NO	- ·	8. E-MAIL A	DDBES	•				<u>.</u>
972-673-2238		Cody.Tod		-				
9. WELL NAME	······································	10. WELL N			O (Wal	Convers	iona C	Nerthe)
				11. WELL SERIAL NO (Well Conversions Only)			Ally)	
DRACO IZM		1						
12. FIELD NAME (if known) WILDCAT-SO LA LAFAYETTE DISTI	RICT					13. FIELD 9727	CODE	(if known)
14. PARISH NAME			!	15. SECTION	16. TO	OWNSHIP		17. RANGE
VERNON (58)				8	2S			6W
18. LOUISIANA COORDINATE ZONE (Check	One) OUTH ZONE		For Ite	n Numbers 19 Thr nate System 1927 an	ough 2 d 1983	4, Give C	Coordi	inates in Louisiana
19. LATITUDE (NORTH) NAD 1927	20. LONGITUDE (WES	T) NAD 1927		21. LOUISIANA LAN	BERT	(X-Y) COO	RDIN	ATES (NAD 1927)
30°54'11.51	93°00'36.32			x: 1,839,997		• • • • • • • • • • • • • • • • • • • •	3,417	
22. LATITUDE (NORTH) NAD 1983	23. LONGITUDE (WES	T) NAD 1983	}	24. LOUISIANA LAN	IBERT ((X-Y) COO	RDIN	ATES (NAD 1983)
30°54'12.18	93°00'36.89			x: 3,120,784		Y: 14	17,11	9
25. LIST PERMITS, LICENSES, OR APPROV APPLICANT'S LEGAL OR TECHNICAL ABIL OR, IF ISSUED, THE IDENTIFICATION NUME	ITY TO CARRY OUT TH	IE PROPOSE	D ACTI	VITY. INCLUDE IDEI	H SPEC	FIFICALLY ATION NUI	AFFE MBER	CT THE OF APPLICATIONS
Regulatory Program	or Agency		Pern	nits, Licenses, Cons	truction	n, Project A	Appro	val Identification
CORPS OF ENGINEERS			NATIC	NWIDE PERMIT	14 - F	ile # MV	N-20	22-00957-CG
 -		7						
								

OFFICE OF CONSERVATION 26. WELL CASING / CEMENT DATA CASING/LINER SETTING DEPTHS HOLE SIZE **CASING SIZE CASING SACKS** TYPE CEMENT/ CEMENT CASING GRADE (inches) (OD - inches) WEIGHT (lb/ft) TOP (feet) CEMENT BOTTOM (feet) TOP (feet) YIELD (ft3/sack INJECTIONS MINING DIVISION 20 20 94 H-40 A + additives(1.909/1.179) 17 1/2" 13 3/8" 54.5 J-55 4.916 3.220/590 Surface A/H+ additives(1.714/1.444) 12 1/4" 9 5/8" 47 L-80 ٥ 7.736 1.565/272 Surface 7,436 7.436 8 1/2" 5 1/2" 23 22Cr125 11,616 CO2 Res. (1.204) 1.295 27. BASE OF USDW 28. WELL TOTAL DEPTH 29. WELL PLUGBACK DEPTH 30. TUBING SIZE & DEPTH 31. PACKER SIZE & DEPTH 3.700 11.616 11,596 3 1/2" @ 10,873 10,863 34. WELL COMPLETION (Check One) 32. INJECTION ZONE DEPTHS (if applicable) 33. COMPLETION/PERFORATION DEPTHS (if applicable) OPEN HOLE PERFORATIONS Bottom: ~11.113 Top: 7,920 Bottom: 11,279 Top: ~10,913 SCREEN INJECTIVITY TEST INFORMATION (if applicable) 36. MAXIMUM TEST PRESSURE (psi): 35. TEST MATERIAL (e.g. nitrogen, brine, etc): 37. TOTAL INJECTION VOLUME: 2,800 psi Freshwater from water source well 3,300 bbls ***CO2 is prohibited as a Class V test material*** 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 **YES** 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? 40. AGENT OR CONTACT AUTHORIZED TO ACT ON BEHALF OF THE APPLICANT DURING THE PROCESSING OF THIS APPLICATION NAME: Cody Todd, P.E. MAILING ADDRESS: 5851 Legacy Circle, Suite 1200 CITY, STATE, ZIP CODE: Plano, TX, 75024 TELEPHONE NUMBER: 972-673-2238 FAX NUMBER: E-MAIL ADDRESS: Cody.Todd@denbury.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) Denbury Carbon Solutions, LLC Date 06/27/23 Signature of Well Owner/Operator oncy 1 Par

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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.

OFFICE OF CONSERVATION

- B. Include the following as applicable:
 - 1. One Form UIC-25 with original signature:

JUN 2 9 2023

- 2. Two original Form MD-10-R-A for each existing well to be converted (if conversion is proppsed TION & MINING DIVISION
- 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.
 - f. Wellhead showing all fittings,
 - g. Discharge line diameter and connection to wellhead,
 - h. Well house (if aπy).
 - **Schematics should be stamped and signed by a Louisiana-registered Professional Engineer (PE) as appropriate**

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 provided 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

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

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Denbury Carbon Solutions, LLC
Class V Stratigraphic Test Well Application
Vernon Parish, LA

JUN 2 9 2023

INJECTION & MINING DIVISION

B.2 TWO ORIGINAL FORM MD-10-R-A FOR EACH EXISTING WELL TO BE CONVERTED (IF CONVERSION IS PROPOSED)

Not Applicable - New Drill



Denbury Carbon Solutions, LLC Class V Stratigraphic Test Well Application Vernon Parish, LA

OFFICE OF CONSERVATION

JUN 2 9 2023

INJECTION & MINING DIVISION

B.3 ONE ORIGINAL CERTIFIED LOCATION PLAT SHOWING THE LOCATION OF THE CLASS-V WELL LOCATION



Denbury Carbon Solutions, LLC- Draco IZM No. 1 Well Surveyed June 9, 2023 as follows: DRACO IZM NO. 1 WELL X = 1,839,996.70 (NAD27 LEN) ICE OF CONSERVATION Y = 86,416.57 SURFACE LOCATION being 1918' from the North Line and 894' from the West Line of Section 8, located in Section 8, T2S-R6W, Vernon Parish, Louisiana. LAT. 30" 54' 11.51" N (NAD27) JUN **2 9** 2023 LONG, 93° 00' 36,32" W X = 3,120,784.21' (NAD83/2011 La N) NOTE: This plat is not a property boundary survey and as such does Y = 147,118.90° LAT. 30° 54' 12.18" N (NAD832011) TION & MINING DIVISION LONG. 93" 00' 36.89" W INJECTION & MINING DIVISION not comply with the "Standards of Practice for Property Boundary Surveys" as adopted by the Louisiana Professional Engineering and ELEV. 195.4' (NAVD88) Land Surveying Board; it is however in compliance with Statewide Order 29-B and 29-E. (Title 43 of the Louisiana Administrative Code) There are no residential or commercial structures, not owned by the LEGEND applicant, his lessor, or other predecessor in interest, within a 500' radius of the proposed location as of June 9, 2023. □ Proposed Well SCALE: 1"= 1000" Q. Water Well (Plugged) All bearings, distance, areas and coordinates refer to the North Plugged & Abandoned Well 500' 1000 American Datum of 1927, Louisiana North Zone, US survey feet. Elevations refer to the North American Vertical Datum of 1988 and are derived from static and kinematic GPS observations unless otherwise note. **R 6 W** Sec. 6 Sec. 5 Calculated Comer 1918 Pilot-Crosby Land & Resources SB Т **※** 1 233064 Pilot- (Rig Water) 115-9071Z S 1320 894 Crosby Land & Resources Sec. 8 SURFACE LOCATION: Denbury Carbon Solutions, LLC-Draco IZM Sec. 7 No. 1 WELL FOR THE EXCLUSIVE USE OF DENBURY CARBON SOLUTIONS, LLC. I, Danielle B, McMath, Professional Land Surveyor, certify that the well location depicted and described in this plat was staked and surveyed in the field by me C. H. Fenstermake of Lours & Associates, L.L.C or under my direction with accuracy and 135 Regency Sq. urrecision to the nearest foot. I have properly FENSTERMAKER Lafayette, LA 705 xamined this plat and have determined have it complies with existing local Ph. 337-237-2 WELL LOCATION PLAT Fax. 337-23 siana codes, and has been properly DRACO IZM 06/20/23 ite adapted to use in this area. REVISIONS ELLE B. MCMATH NO. 1 WELL icense No. 5297 DENBURY CARBON SOLUTIONS, LLC. SITUATED IN ROFESSIONAL SECTION 8, T2S-R6W DRAWN BY:DBM PROJ. MGR.:DBM Danielle B. McMath VERNON PARISH, LOUISIANA DATE:06/14/2023 Registration No. 5297 JOB#:2236398.00C SHEET 1 OF 1

044308

Denbury Carbon Solutions, LLC Class V Stratigraphic Test Well Application Vernon Parish, LA

OFFICE OF CONSERVATION

JUN 2 9 2023

B.4 INJECTION FLUID ANALYSIS

INJECTION & MINING DIVISION

Injection fluid source will be a water well drilled on location. A fluid source analysis from a LELAP accredited lab will be provided to LDNR - IMD prior to any injection.



Denbury Carbon Solutions, LLC Class V Stratigraphic Test Well Application OFFICE OF CONSERVATION Vernon Parish, LA

JUN 2 9 2023

INJECTION & MINING DIVISION

B.5 AN ANNOTATED COPY OF AN ELECTRIC WELL LOG OF THE NEAREST OFFSET WELL THAT SHOWS THE UNDERGROUND SOURCE OF DRINKING WATER (USDW)

See attached marked well log of the Crosby Land & Resources 8 No. 1 – SN 235977



OFFICE OF CONSERVATION

044308

JUN 2 9 2023

INJECTION & MINING DIVISION

B.6 AN ANNOTATED COPY OF AN ELECTRIC WELL LOG OF THE NEAREST OFFSET WELL THAT SHOWS THE PROPOSED INJECTION ZONE

See attached marked well log of the Crosby Land & Resources SB No. 1 – SN 233064



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DEPTH SUMMARY LISTING

Date Created 21 AUG 2007 5 33 20 Depth System Equipment **Depth Measuring Device Tension Device Logging Cable** Type IDW-B Туре CMTD-B'A Type 7-46 M18 XS Serial Number 3987 Senal Number 1396 Serial Number 2019 Calibration Date 28 MAY 2007 Calibration Date: dd-Mmm-yyyy Length 28900 UO FT Calibrator Serial Number 1 Calibrator Serial Number: 1365 Conveyance Method Wireline 7-460 Calibration Cable Type Calitiration Gain. 0 92 Rig Type LAND Wheel Correction 1 4 Calibration Offset 289.00 Wheel Correction 2 -4

Depth Control Parameters

Log Sequence: First Log In the Well

Rig Up Length At Surface 0 00 FT
Rig Up Length At Bottom 0 00 FT
Rig Up Length Correction 0 00 FT
Stretch Correction 2 00 FT
Tool Zero Check At Surface 0 40 FT

Depth Control Remarks

1. SLB DEPTH CONTROL POLICY FOLLOWED

2

3

4.

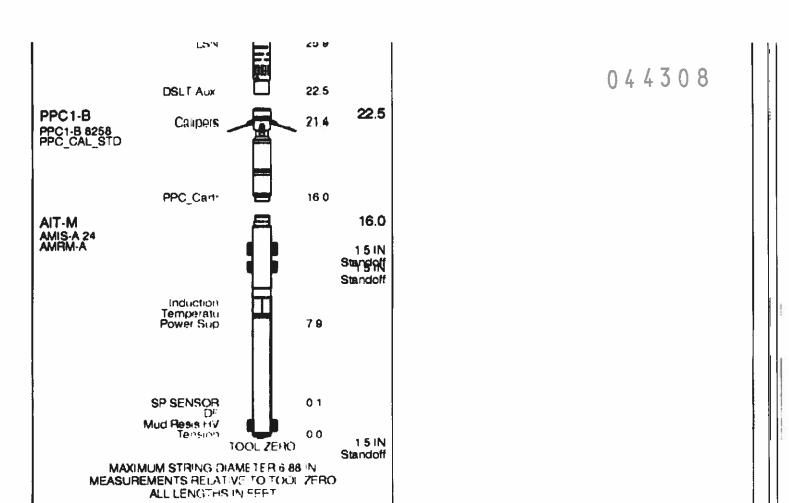
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DISCLAIMER

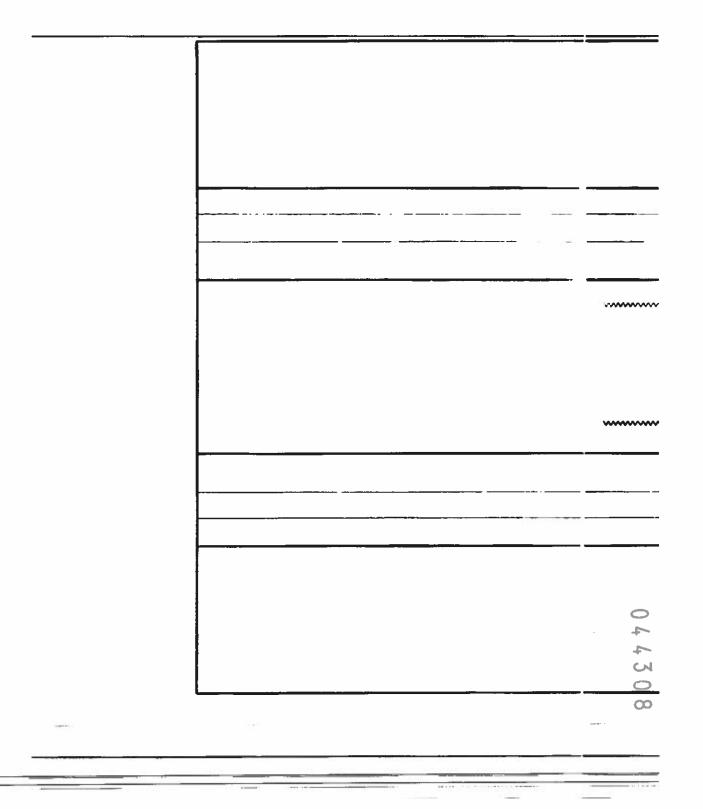
THE USE OF AND RELIANCE LIPUN THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY IAND ANY OF ITS AFFILIATES PARTNERS PEPPRESENTATIVES AGENTS, CONSULTANTS AND EMPLOYEES IS SUBJECT TO THE TERMS AND CONDITIONS AGREED. PON RETWEEN SCHLUMBERGER AND THE COMPANY INCLUDING TO RESTRICTIONS ON USE OF THE RECORDED PAYAL BUTS OF A MERS AND WAIVERS OF WARRANTIES AND REPORTED FOR ANOTHER PROPERTY OF THE RECORDED PAYAL BUTS OF THE RECORDED PAYAL BUTS OF THE RECORDED PAYAL AND THE RECORDED PAYAL OF THE SHELL DATA.

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Schlumberger

MAIN PASS 1"=100"

MAXIS Field Log

Output DLIS Files

DEFAULT

AIT_CAL_SONIC_012LUP

FN:8 FN:9

PRODUCER 21-Aug-2007 05:03

4903 5 FT

390.2 FT

PILOT

AIT_CAL_SONIC_012LUP

PRODUCER

21-Aug-2007 05:03

4903 5 FT

390 2 FT

OP System Version: 15C0-309

AIT-M

SRPC-3357-Q2_2007

DSLT-H DTC-H

15C0-309

15C0-309

PPC1-B SGT-N

15C0-309

15C0-309

PIP SUMMARY

Time Mark Every 60 8

AIT 90 Inch investigation Conductivity

(AFCO90)

(MM/M) 4000

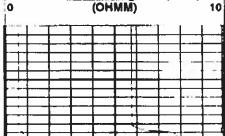
AIT 90 Inch investigation (AF90)

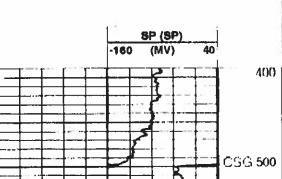
(OHMM)

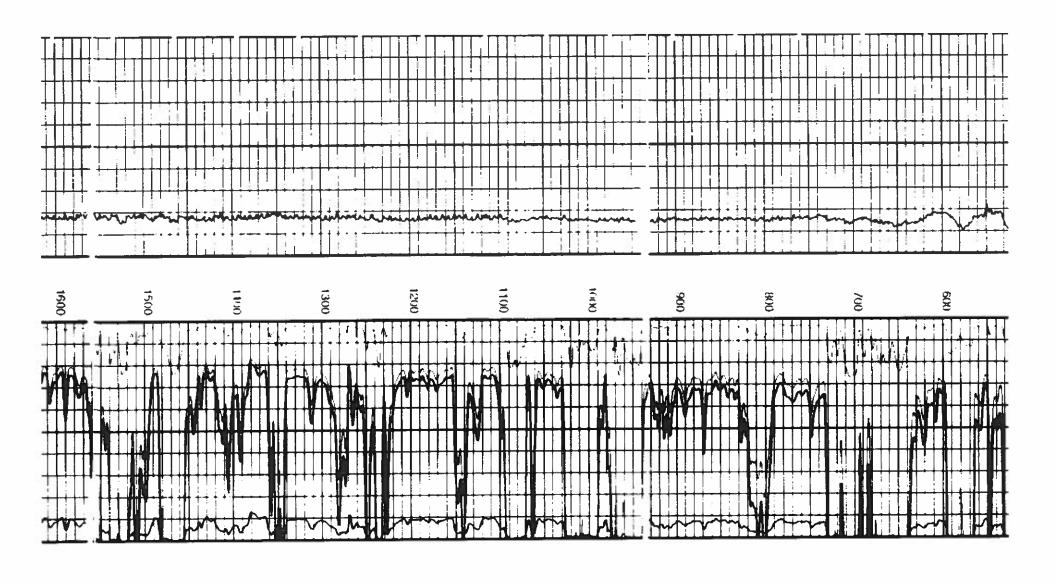
ArT 10 inch investigation ; (OHMM)

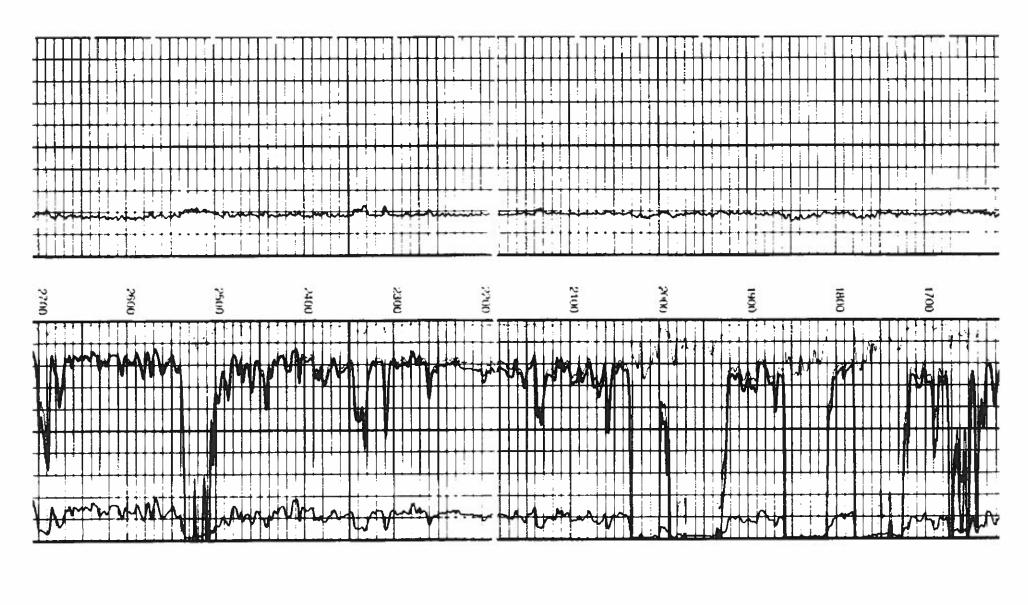
AIT 10 inch investigation (AF10)

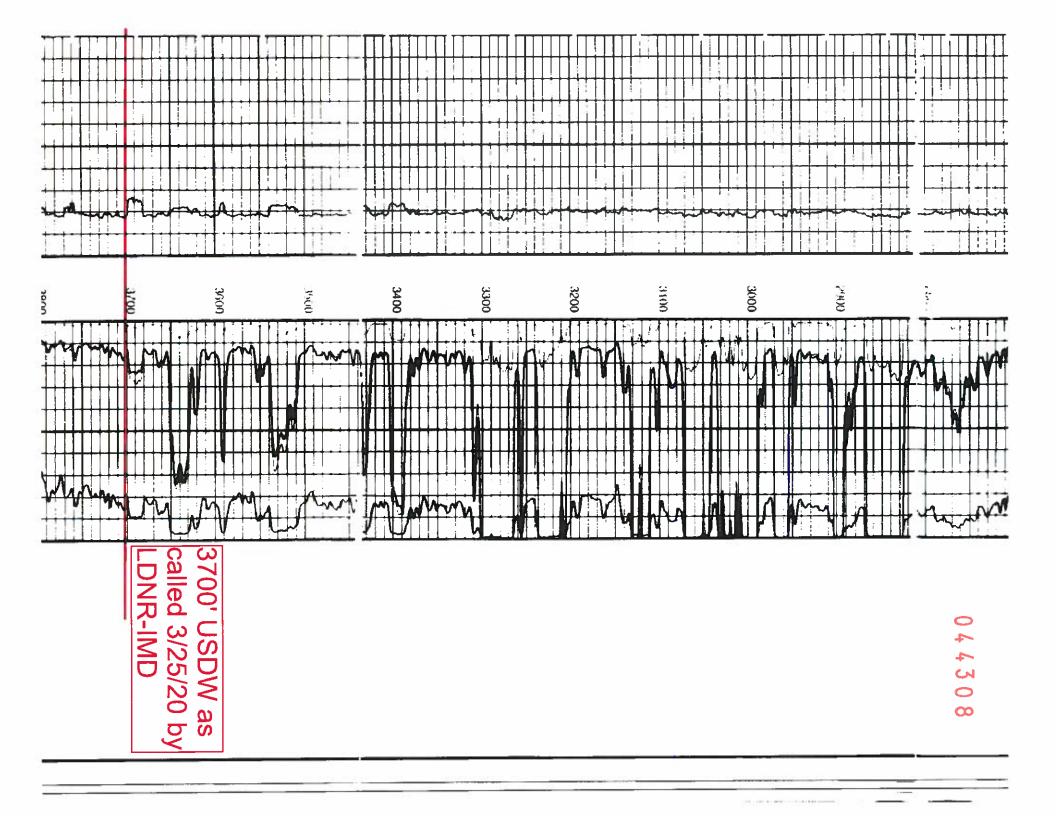
(OHMM)

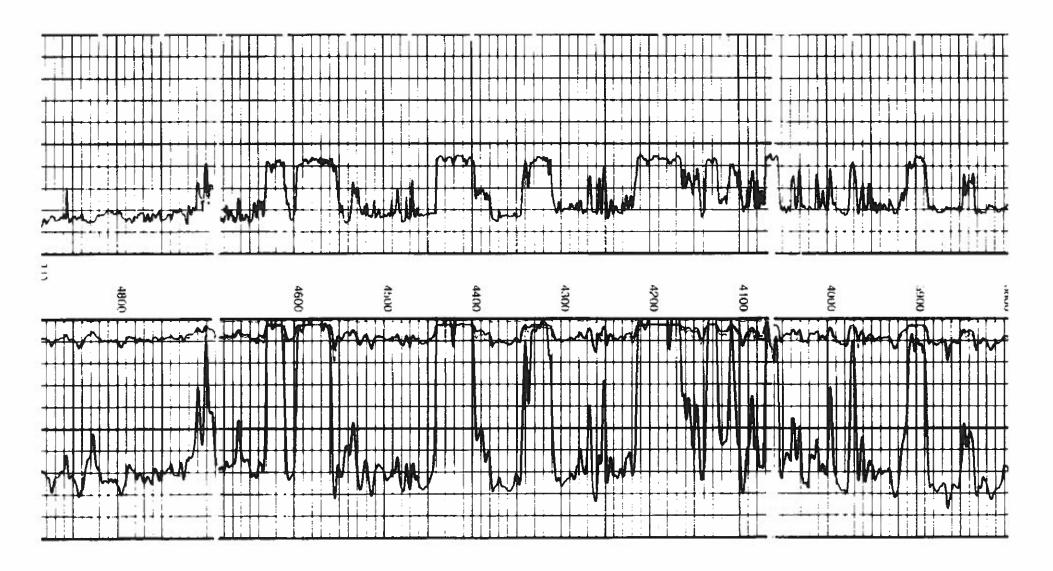












PIP SUMMARY

Time Mark Ev	ery 60 S	

DI 16	Mama	Description	Valu	_
	Name	•	Valu	•
.T	AIT-M: Array Inc	duction Tool · M	O Computation and	
ABHM		Array Induction Borehole Correction Mode	2_ComputeStandoff	
ABHV		Array Induction Borehole Correction Code Versio	n Number 900	
ABLM		Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV		Array induction Basic Logs Code Version Number		
ACDE		Array Induction Casing Detection Enable	Yes Centered	
ACEN		Arra Induction Tool Centering Flag (in Borehole)	(Sellieled	
ACRED		Array Induction Enable Sonde Error Tempa Pres	Corr Yes	
AETP AFRSV		Array induction Response Set Version for Four ft		
AIGS		Array Induction Select Akima Interpolation Gating	On	
AMRF		Array Induction Mud Resistivity Factor	, 0,1	
AORSV		Array Induction Response Set Version for One ft	•	
ARFV		Array induction Radial Profiling Code Version Nu		
ARPV		Array Induction Radial Parametrization Code Vers	sion Number 232	
ASTA		Array Induction Tool Standoff	1.5	IN
ATRSV		Array Induction Response Set Version for Two ft		
ATSE		Array Induction Temperature Selection(Sonde Eri	ror Correction) Internal	
AULV		Array Induction User Level Control	Normal	
BHT		Bottom Hole Temperature (used in calculations)	140	DEGF
FEXP		Form Factor Exponent	2	
FNUM		Form Factor Numerator	ī	
3CSE		Generalized Caliper Selection	HD1 PPC1	
BDEV		Average Angular Deviation of Borehole from Nors	mai 0	DEG
BORD		Geothermal Gradient	0.01	DF/F
RSE		Generalized Mud Resistivity Selection	CHART GEN 9	
TSE		Generalized Temperature Selection	LINEAR ESTIMATE	
BHT		Surface Hole Temperature	68	DEGF
BPNV		SP Next Value	Ŏ	MV
	SGT-N: Scintilla	ition Gamma Ray Tool - N		
BHT.		Bottom Hole Temperature (used in calculations)	140	DEGF
3CSE		Generalized Caliper Selection	HD1_PPC1	
3DEV		Average Angular Deviation of Borehole from Nort	mal "O	DEG
GARD		Geothermal Gradient	0.01	DF/F
3RSE		Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE		Generalized Temperature Selection	LINEAR_ESTIMATE	
BHT		Surface Hole Temperature	68	DEGF
	RWA: Apparent	Water Resistivity		
FEXP		Form Factor Exponent	2	
FNUM		Form Factor Numerator	1	
2-57	HOLEV: Integra	ited Hole Coment Volume		
BHT	_	Bottom Hole Temperature (used in calculations)	140	DEGF
GC8E		Generalized Caliper Selection	HD1_PPC1	
GDEV		Average Angular Deviation of Borehole from North		DEG
BORD		Geothermal Gradient	0.01	DF/F
BBRE		Generalized Mud Resistivity Selection	CHART GEN 9	
GTSE		Generalized Temperature Selection	LINEAR_ESTIMATE	
BHT		Surface Hole Temperature	68	DEGF
	System and Mic			
B\$_		Bit Size	7.875	IN.
DFD		Drilling Fluid Density	9.50	rB.a
DORL		Depth Offset for Repeat Analysis	0.0	<u>FT</u>
FLEV		Fluid Level	-50000.00	FT
M8T		Mud Sample Temperature	88.00	DEGF
TD .		Total Depth	4880	FT

OF System version: 1500-303

AIT-M DSLT-H DTC-H

SRPC-3357-Q2_2007

15C0-309

15C0-309

PPC1-B SGT-N

15C0-309

15C0-309

Output DLIS Files

DEFAULT PILOT

AIT_CAL_SONIC_012LUP AIT_CAL_SONIC_012LUP FN:8

PRODUCER

21-Aug-2007 05:03

FN:9

PRODUCER

21-Aug-2007 05:03

Schlumberger

MAIN PASS 2"=100"

MAXIS Field Log

Output DLIS Files

DEFAULT

AIT_CAL_SONIC_012LUP

AIT_CAL_SONIC_012LUP

FN:8

PRODUCER

21-Aug-2007 05:03

4903.5 F1

390 2 FT

PILOT

FN:9

PRODUCER

21-Aug-2007 05:03

4903.5 FT

390.2 FT

OP System Version: 15C0-309

AIT-M

SRPC-3357-02 2007

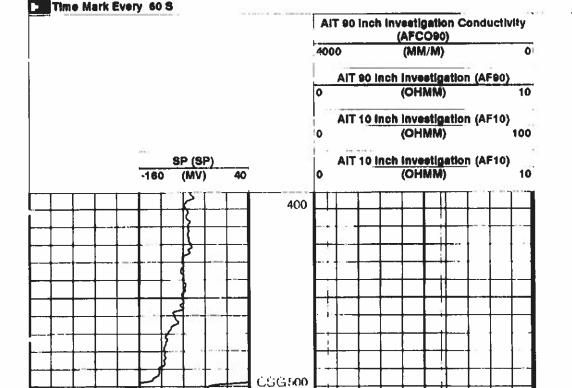
DSLT-H DTC-H

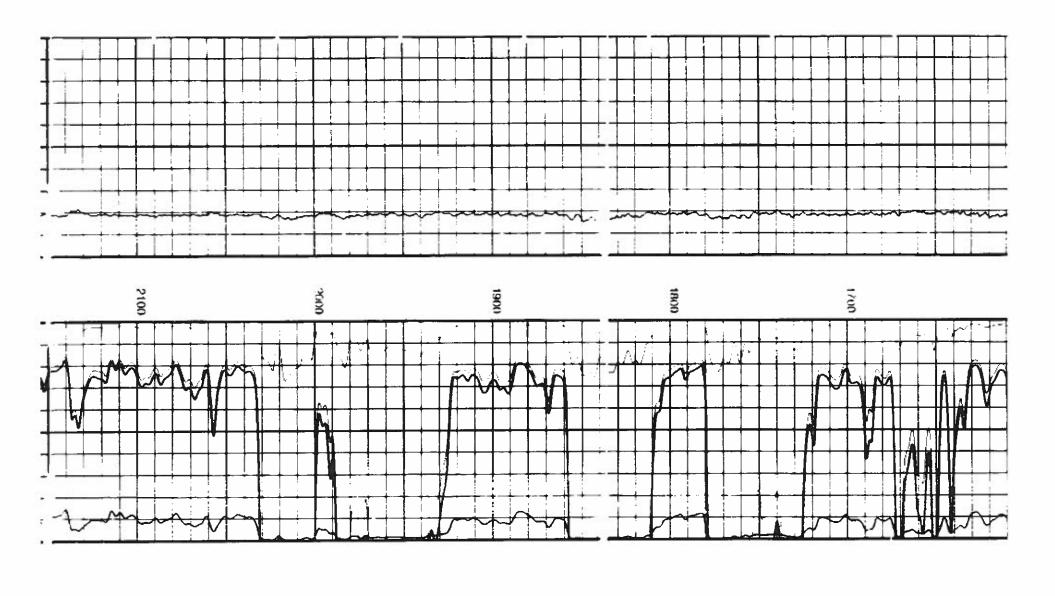
15C0-309 15C0-309 PPC1-B SGT-N

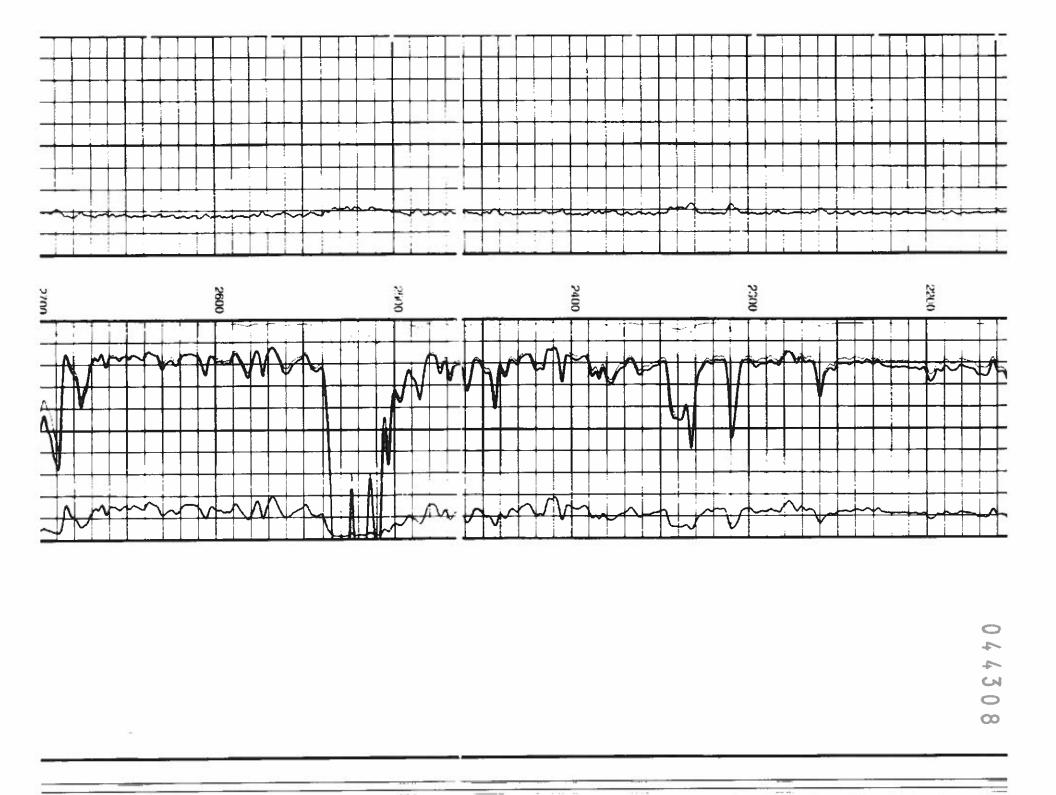
15C0-309

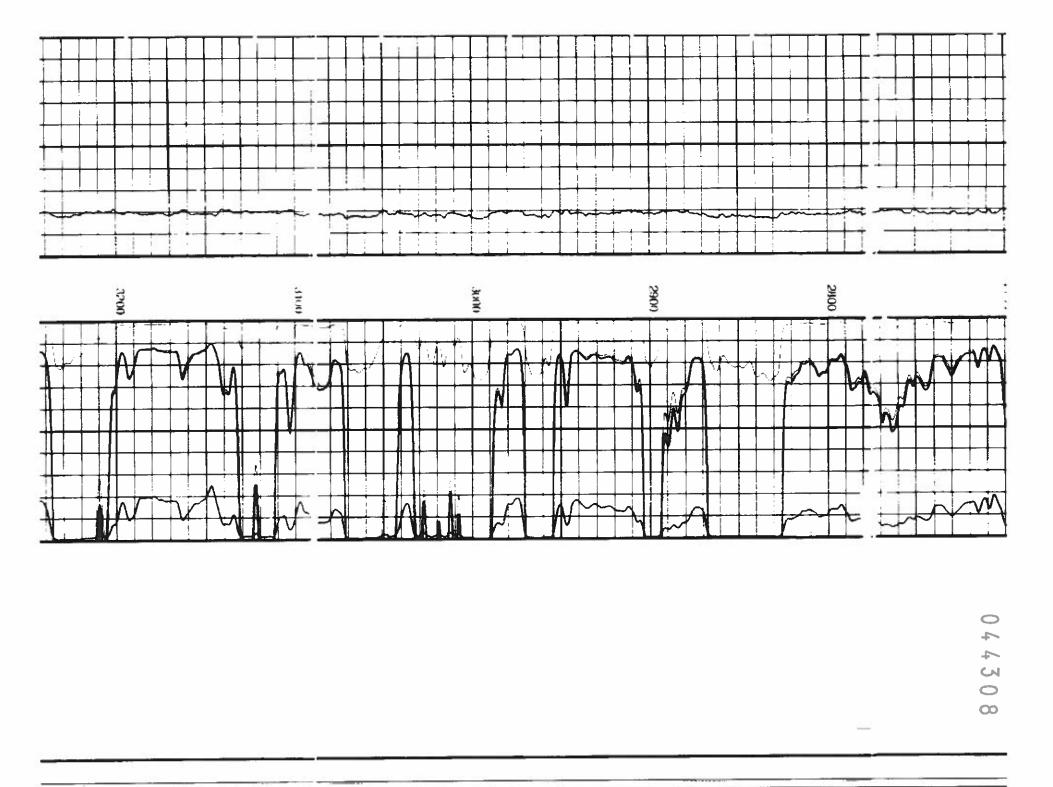
15C0-309

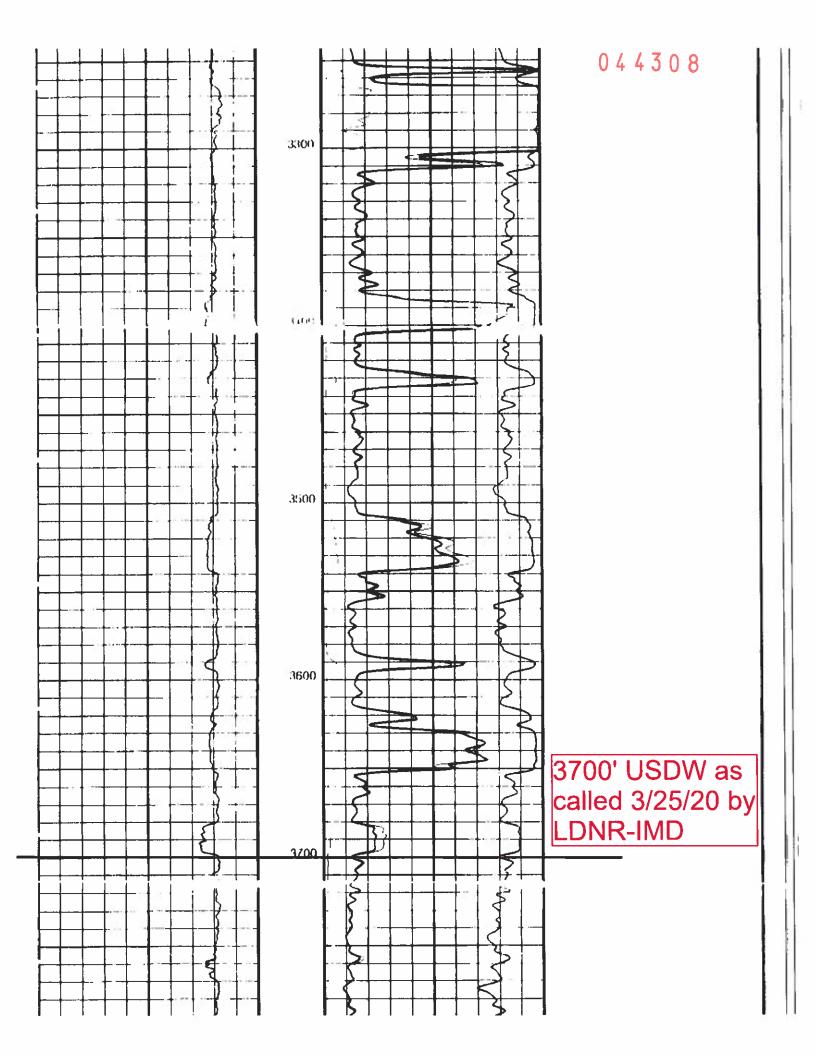
PIP SUMMARY

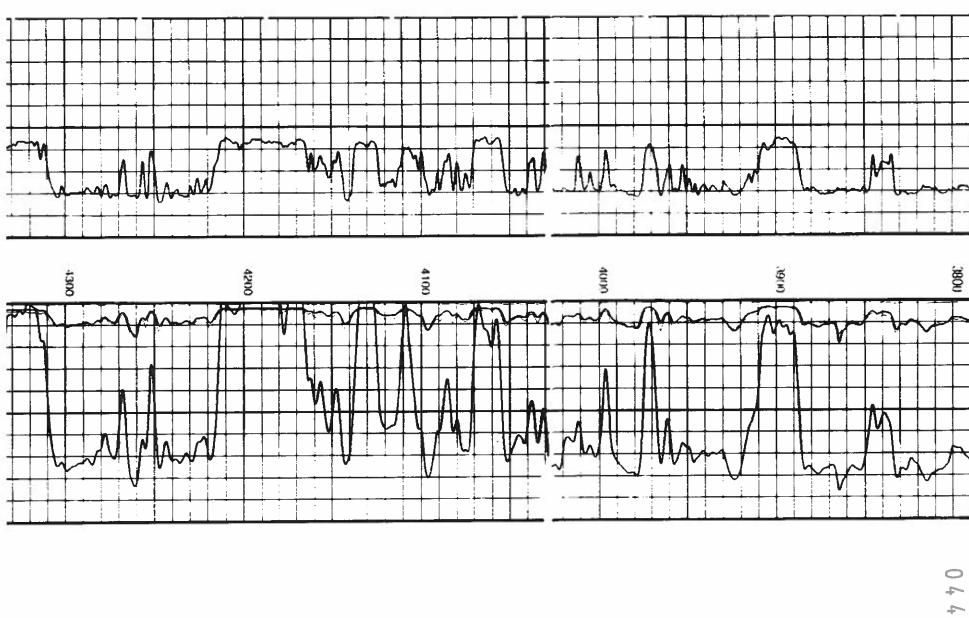


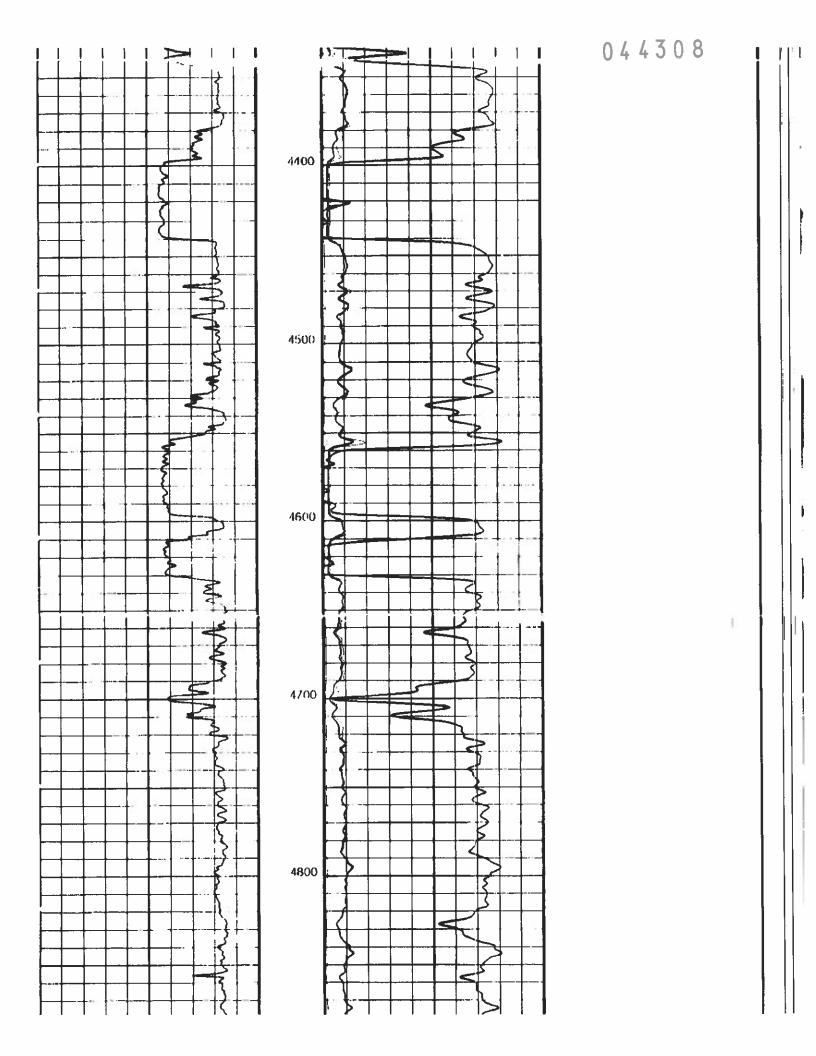


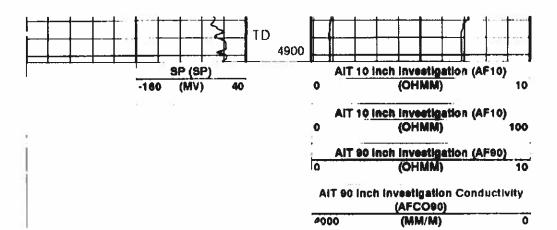












PIP SUMMARY

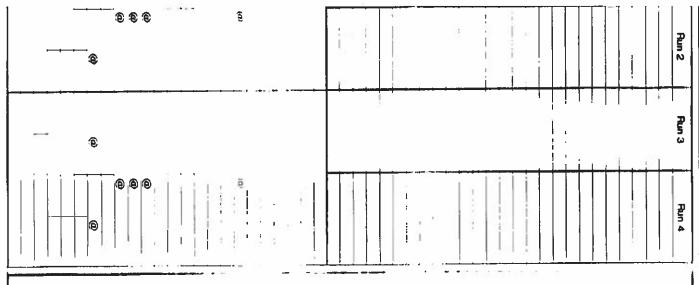
#000

Time	Mark	Every	60 S

		Parameters		
DLIS	Name	Description	Valu	•
	AIT-M: Array Inc	duction Tool - M		
ABHM		Arrey induction Borehole Correction Mode	2_ComputeStandoff	
ABHY		Array Induction Borehole Correction Code Version	n Number 900	
ABLM		Array Induction Basic Logs Mode	6_One_Two_end_Four	
ABLV		Array Induction Basic Loge Code Version Number		
ACDE		Array Induction Casing Detection Enable	Yes	
ACEN		Array Induction Tool Centering Flag (in Borehole)	Centered	
ACSED		Array Induction Casing Shoe Estimated Depth	-50000	FT
AETP		Array Induction Enable Sonde Error Temp&Pres C	orr Yee	
AFRSV		Array Induction Response Set Version for Four ft		
AIGS		Array Induction Select Akima Interpolation Gating	On	
AMRE		Array Induction Mud Resistivity Factor	1	
AORSV		Array Induction Response Set Version for One file	Resolution 41, 70, 24, 20	
ARFV		Array Induction Radial Profiling Code Version Nu	n ber 701	
ARPV		Array Induction Radial Parametrization Code Vers	ion Number 232	
ASTA		Array Induction Tool Standoff	1.5	IN
ATREV		Array Induction Response Set Version for Two ft F	Resolution 41.70.24.20	
ATSE		Array Induction Temperature Selection(Sonde Err	or Correction) Internal	
AULV		Array Induction User Level Control	Normal	
BHT		Bottom Hole Temperature (used in calculations)	140	DEGF
FEXP		Form Factor Exponent	2	
FNUM		Form Factor Numerator	1	
GCSE		Generalized Caliper Selection	HD1_PPC1	
GDEV		Average Angular Deviation of Borehole from Norm		DEG
GGRD		Geothermal Gradient	0.01	DF:F
GRSE		Generalized Mud Resistivity Selection	CHART GEN 9	
GT8E		Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT		Surface Hole Temperature	68	DEGF
8PNV		SP Next Value	0	MV
	BGT-N: Scintilla	ation Gamma Ray Tool N	4.44	DE0*
BHT		Bottom Hole Temperature (used in calculations)	140	DEGF
GC8E		Generalizari Caliper Selection	HD1_PPC1	050
GDEV		Average Angular Deviation of Borehole from Norm		DEG
CGRD		Cartimore de Partebille Calculton	0.01	THE F
GRSE		Generalized id Resistivity Selection	LHANI GEN 9	
GTBE		Generalized Temperature Selection	LINEAR_ESTIMATE	DEAL
SHT		Surface Hole Temperature	68	DEGF
	HWA: Apparent	t Water Resistivity	•	
FEXP		Form Factor Exponent	2	
FNUM		Form Factor Numerator	1	
	HOLEY: Integra	sted Hole:Cement Volume	440	DEAF
BHT		Bottom Hole Temperature (used in calculations)	140	DEGF
GCSE		Generalized Caliper Selection	HD1_PPC1	050
GDEV		Average Angular Deviation of Borehole from Norr		DEG
GGRD		Geothermal Gradient	0.01	DF F
GRSE		Generalized Mud Resistivity Selection	CHART GEN 9	
GTSE		Generalized Temperature Selection	LINEAR_ESTIMATE	DECE
SHT		Surface Hole Temperature	68	DEGF
= 2	System and Mi			
B8_		Bit Size	7.875	IN .
DFD		Drilling Fluid Deneity	9.50	LB/G
DORL		Depth Offset for Repeat Analysis	0.0	<u>FT</u>
FLEV		Fluid Level	-50000.00	FT
MST		Mud Sample Temperature	88.00	DEGF
TD		Total Depth	4880	FT

NJECTION & MINING DIVISION

233064 Run 1 Schlumberger go PILOT RESOURCES, INC. CROSBY LAND & RESOURCES SB #1 33064 Zone SUGARTOWN **VERNON** State LOUISIANA CROSBY LAND & RESOURCES AITH/TLD/MCFL/CNL/LSS Ñ Marked Injection PLATFORM EXPRESS SN PILOT HESOURCES, INC 1219 FML & 781 FWL LONG SPACE SONIC Offset Well away 1219 FN_ 8 781 FW. 2164 SUGALITICATA 143 -VERNON 208 -Permanent Datum GROUND LEVEL Eev 193 ft 53 Log Measured From KELLY BUSHING 16.0 ft above ≃erm. Datum KELLY BUSHING **Drilling Measured From** Location 0 Well API Seria: No Section םורפחשם" Range 233064 25 WC. Logging Date 12-May-2006 Logging Date Bith Number Fur Number Date: One: **50.35 11618 # Unberger Depth Sumumberger Death 11616 ft Bodom Log Interval Log 'nterva' Top Log Inten 5086 ft 1 nterva Casing Erlier 344 9 625 r . Onlier Size or Depth Casing Schlumberti-5066 ft. Contra Schlumberger B1 Size 9 500 in Br Size FRES- WATER NUC Type Fluid In Hole Type Fluid in Hole Viscosity 10.5 lbm ga. Density Density VISCOSRY Fluid Loss PH 8 cm3 Fluid Loss Source Of Sample Source Of Sample AIT MUD SENSOR RM @ Measured Temperature 0.901 ohm.m RM @ Measured Temperature RMF @ Measured Temperature RMF @ Measured Temperature 0.675 ohm.m RMC @ Measured Temperature 91 degf RMC @ Measured Temperature 1 352 ohm.m Source RMF RMC Source RMF RMC CALCULATED CALCULATED RMF (2) MFT RM @ MRT FIM @ MRT RMF @ MRT **@** (12) Maximum Recordes Temperatures Maximum Recorded Temperatures Circulation Stopped 11-May-2006 18:00 Circulation Stopped Time Time Logger On Bottom Time 12-May-2006 Logger On Bottom 4:00 Time **Unit Number** Unit Number NATCHEZ, MS Location Location Recorded By **BRAD PINKSTAFF** Recorded By Witnessed By SEE REMARKS Witnessed By



DEPTH SUMMARY LISTING

Date Created: 12-MAY-2006 1:31:34

Depth System Equipment

Depth Measuring	Device	Tension De	vice	Logging Cable		
Type: Serial Number: Calibration Date:	IDW-B 6515 7-FEB-2006	Type SecoloNichier Calibration Date	CMTD-B A 2562 dd-Mmm-yyvyy	Type Serial Number Length:	7-46 M18 XS 2019 27000.00 FT	
Calibrator Serial Number. Calibration Cable Type: Wheel Correction 1: Wheel Correction 2:	33 7-46NT-XS -4 -3	Cat Letor Serial Number: Cade ation Gain:	111.	Conveyance Method: Rig Type	Wireline LAND	

Depth Control Parameters

Log Sequence:

First Log In the Well

165 00 FT Rig Up Length At Surface: 165 00 FT Rig Up Length At Bottom: Rig Up Length Correction 0 00 FT 500 FT Stretch Correction: 0.40 FT Tool Zero Check At Surface

Depth Control Remarks

1. SCHLUMBERGER DEPTH POLICY FOLI OWED

2

3

4

5.

6.

TOTSCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED DEATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS REPORTED TO THE TERMS AND CONDITIONS AGREED UPON FEW HEIGHTS AND THE COMPANY INCLUDING BY RESTRICTIONS ON USE OF THE RECORDED DATA. (IN DISCLA AND SAND WAIVERS OF WARFAND SON REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE HECORDED DATA, AND (I) CHISTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED DATA.

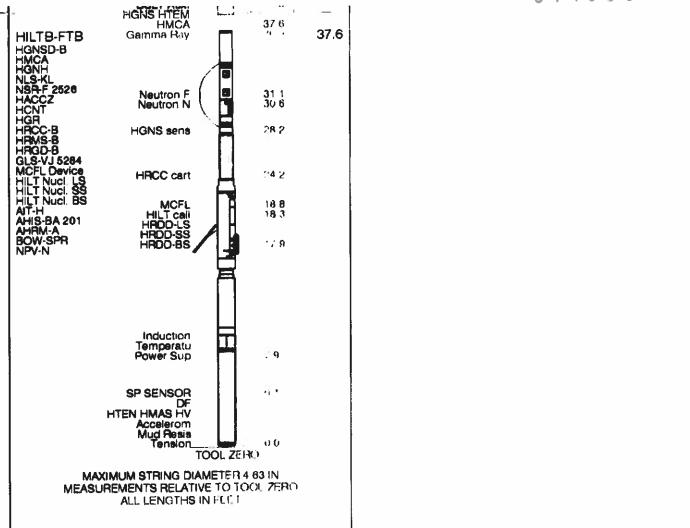
OTHER	SERVICES 1
091	CST

092

OTHER SERVICES2

051 092 093

OS4:					O94 O95.
OS5: REMARKS: RUN NU	UMBER 1 STONE MATRIX 2 65	 		i	REMARKS RUN NUMBER 2
	IES RUN AS PER CL		 اقاد د	0000	
WITNESSES WERE		20223		200	
	T, PRICE, AND STE	VART			
YOUR CREW TODA	Y WAS ND GENE BRASHIER	777	• •	-	
Rig: Crown DBL #2			NATUREŽÍ	MSI	
	RUN 1		11269833	<u> </u>	RUN 2 SERVICE ORDER #.
SERVICE ORDER # PROGRAM VERBIO FLUID LEVEL:	N:		1000 300		PROGRAM VERSION: FLUID LEVEL:
LOGGED INT	ERVAL S	TART	S'O	P	LOGGED INTERVAL START STOP
-					
		_ EQ	UIPMI	ENÍ	DESCRIPTION
	RUN 1				RUN 2
GSR-U/Y	SURFACE EQU WITM (DTS) A	IPMEN			
NCT-B CNB-AB NCS-VB					
	OWNHOLE EQ	UIPME	NT		
LEH-Q LEH-Q				66.6	
DTC-H	CTEM		63 5	64.5	
ECH-KC DTCH0-A	TelStatus ToolStatu	L	61.5		
DSLT-FTB DSLC-B		摄		61.5	
DSLC-B ECH-KH SLS-Z		#			
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	LLF ULN		48 9 47 9		
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Schlumberger MAIN PASS 1" = 100' MAXIS Field Log Input DLIS Files 5008.0 FT PRODUCER 12-May-2006 04:22 11634.0 FT **DEFAULT** AIT_TLD_MCFL_CNL_018LUP **Output DLIS Files** 5012.0 FT PRODUCER 12-May-2006 06:40 11634.0 FT FN:20 AIT_TLD_MCFL_CNL_021PUP **DEFAULT** OP System Version: 13C0-300 MCM SRPC-3097-FEB_2006_b DSLT-FTB 8RPC-3097-FEB_2006_b HILTB-FTB SRPC-3097-FEB_2006_b DTC-H PIP SUMMARY Time Mark Every 60 8

AIT-H 90 Inch Investigation Conductivity (AHFC090)

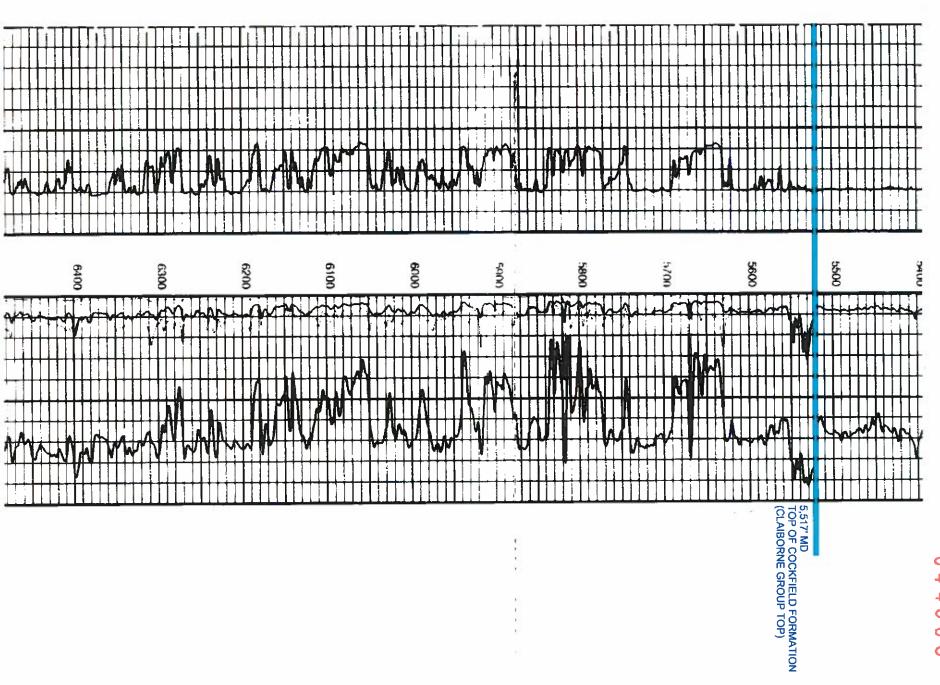
4000 (MM/M) 0

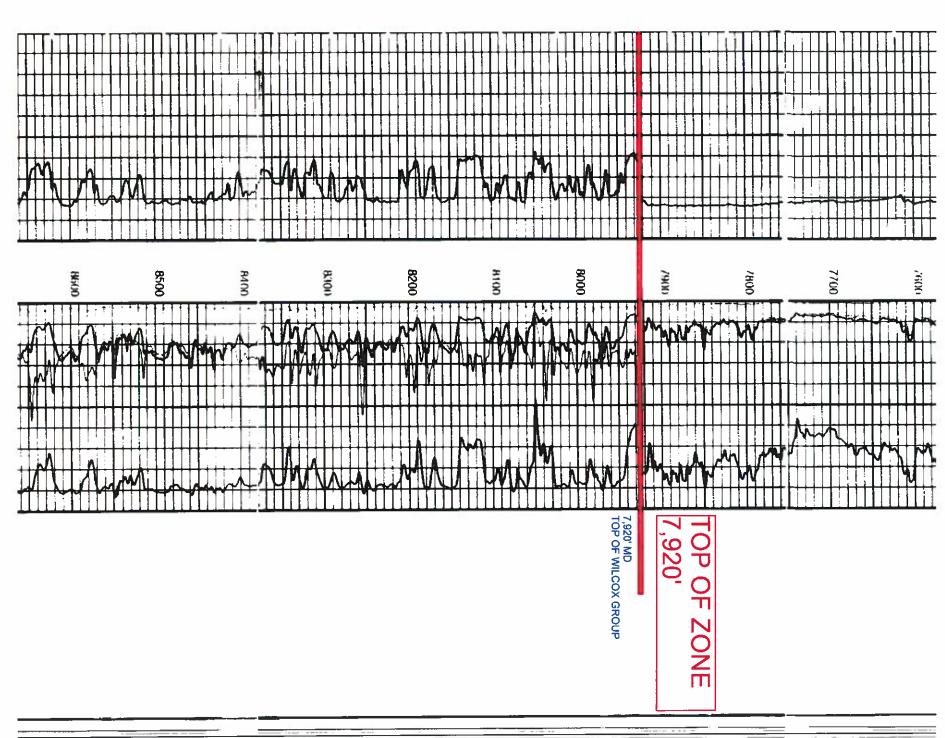
AIT-H 90 Inch Investigation (AHF90)
0 (OHMM) 10

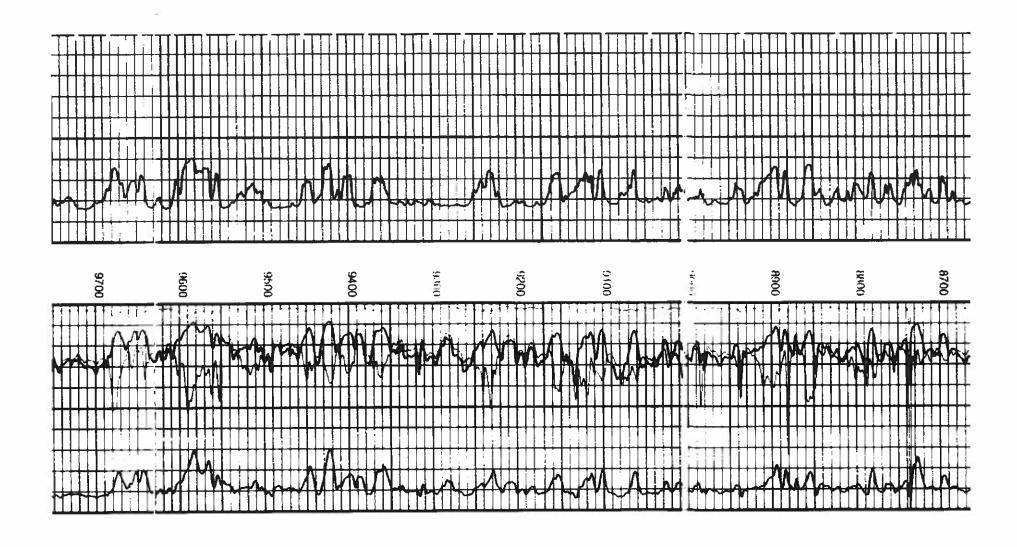
AIT-H 10 Inch Investigation (AHF10)
0 (OHMM) 100

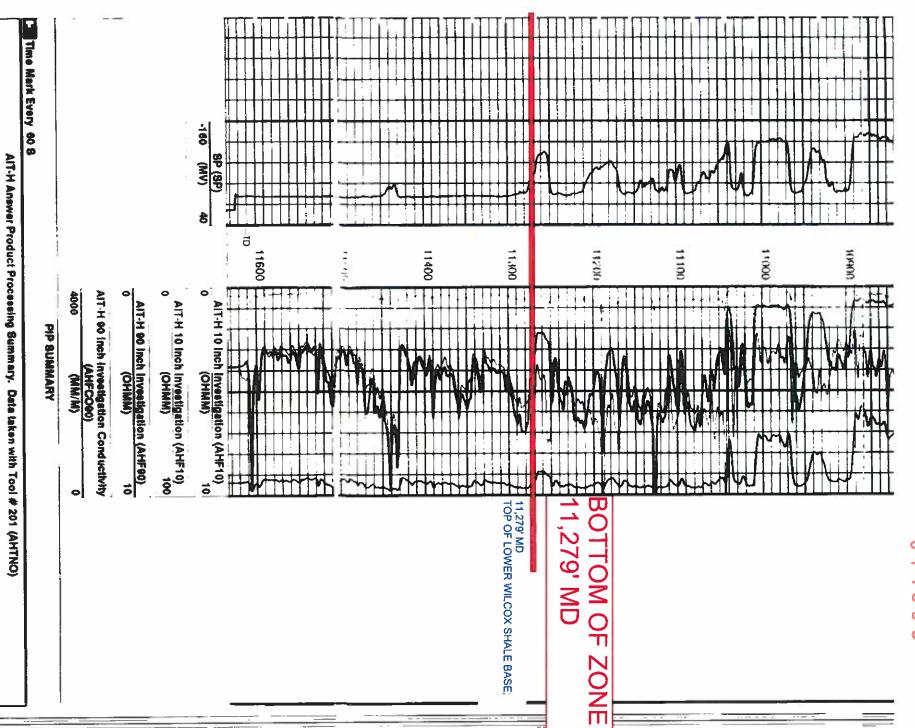
SP (SP)
-160 (MIV) 40 0 (OHMM) 10

(SP (SP)
-160 (MIV) 40 0 (OHMM) 10









...Acquired data from HILT/HAIT

***** Borahala Correction ****

OFFICE OF CONSERVATION

JUN 2 9 2023

044308

INJECTION & MINING DIVISION

B.7 WORK PROGNOSIS FOR DRILLING, COMPLETING, AND TESTING THE WELL





044308

DRILLING PLAN FOR 'DRACO IZM #1' Denbury Carbon Solutions, LLC

WELL INFORMATION

Well Name: Draco IZM #1

Location: Lat: 30° 54′ 11.51" N (NAD 27)

Long: 93° 00' 36.32" W (NAD 27)

(Section - 8; Township - 2S; Range - 6W; Vernon Parish; Louisiana)

Elevations: Ground Level = 195.4' MSL, Drill Floor Height = 20'; KB Elevation = 215'

Unless otherwise noted depths in this document are referenced to KB Elevation.

Objective: A vertical stratigraphic test well to acquire site specific data and validate properties of a

storage complex to meet requirements of UIC Class VI Site Characterization for the Draco

Storage Facility Carbon Sequestration Project.

Project Sponsor: Denbury Carbon Solutions, LLC

5851 Legacy Circle, Suite 1200

Plano, Texas 75024

Office: (972) 673-2690

Land Owner: Crosby Land & Resources, L.L.C.

Address 601 Poydras Street, Suite 1720 New Orleans, Louisiana 70130



Projected depths were based on a combination of data from 3D seismic and publicly available well datasets from the Louisiana Department of Natural Resources (LDNR).

Formation	Estimated feet (TVD)
Ground Level	0
Base of Underground Source of Drinking Water (USDW, <10,000 mg/l)	3,700
Vicksburg	4,715
Claiborne (Cockfield Sand)	5,517
Cook Mountain	6,500
Sparta	7,108
Cane River	7,454
Upper Wilcox	7,920
Lower Wilcox	10,281
Lower Wilcox Shale Base	11,279

Cuttings Sample Program (or as directed by Wellsite Geologist)

- Start 30' samples at 1,000'
- Collect 30' samples to TD or as directed by Wellsite Geologist
- Keep two small dry bags and two large wet bag samples tied in separate 100' bundles (one bundle for LDNR and one for Denbury).
- Gas Detector installed at 1,000' to TD.

Coring Program

4" whole core will be collected from the following intervals:

(Actual intervals to be determined by wellbore conditions and confirmed by Wellsite Geologist).

- 60' Cane River Formation from $\pm 7.846'$ -7.906'
- 60' Lower Wilcox Formation from ±10,826'-10,886'

Approximately ~50 sidewall cores will be collected to characterize reservoir properties at various depths throughout the Wilcox Group Sidewall cores may be collected from select shallower strata as desired.



DRILLING SUMMARY

INJECTION & MINING DIVISION

A vertical stratigraphic test well to a planned total depth (TD) of approximately 11, 616'. Depths in procedure referenced to Kelly Bushing (KB) Elevation (215' MSL).

Notify the Louisiana Department of Natural Resources, Oil and Gas Division, at least 24 hours in advance of cementing casing.

All casing tests will be charted and recorded on LDNR Form CSG-T (Casing Test affidavit). Notify LDNR-Injection and Mining Division (IMD), at least 48 hours in advance of any expected casing tests, in the event that the staff wishes to witness such tests.

Deviation Surveys

Vertical Well. Take surveys every connection.

As a minimum, run MWD in 12-1/4" and 8-1/2" hole sections. Max. DLS 2 deg/100'.

Drilling Fluid

<u>Depth</u>	Type Mud	Weight, ppg	Viscosity, sec
0' - 4,916'	Fresh water spud mud	8.6 - 9.0	40 - 45
4,916' - 7,736'	Fresh water mud	8.6 - 9.5	50 - 55
7736' – TD	Fresh water mud	8.8 - 10.5	60 - 65
Logging	Fresh water mud	8.8 - 10.5	60 - 65

Hazard: Lost circulation is possible during drilling operations. Have plenty of Lost Circulation Material (LCM) products on location. Losses need to be healed to facilitate lifting cement to the surface.

Check and report mud weight and viscosity at regular intervals as operations dictate, post via Pason.

Drill Cuttings and Waste Drilling Fluid

A closed loop system will be used to separate drilling fluids from the cuttings. The cuttings and mud waste will be stored, profiled, and hauled off to disposal site as non-hazardous waste.

Hole & Casing Program

Bit Diameter	<u>Casing</u>	Type	Depth KB, ft
Driven	20", 94 lb/ft, H-40, Welded	Conductor	0' to ~100'
17-1/2"	13-3/8", 54.5 lb/ft, J-55, BTC	Surface	0' to ~4,916'
12-1/4"	9-5/8", 47 lb/ft, L-80, BTC	Intermediate	0' to ~7,736'
8-1/2"	5-1/2", 23 lb/ft, 22Cr125, VAM TOP Li	ner Protection	7,336' to ~11,616'



INJECTION & MINING DIVISION

- Notify contractor to perform underground utility location to digging the cellar and driving the conductor. Coordinate or ensure that Louisiana Department of Natural Resources (LDNR) is notified, and the underground utility inspection is performed before digging the cellar or drilling or auguring the conductor, rathole, or mousehole
- Rig up and drive 20-inch, 94 lb/ft conductor to refusal, estimated to be at approximately 100 feet below 2. ground level, using a casing hammer. Cut casing 2' above ground level, leave casing remnant on location (minimum 20'). If possible, install mouse hole and if necessary, install rat hole for the drilling rig. Rig down and demobilize conductor equipment.
- Notify LDNR upon intent to spud the well a minimum of 24 hours before the planned spud time. 3.
- Weld on a flange, install spool, flow diverter & 21-1/4" 2M annular BOP for drilling surface section. Rig 4. to gas buster and choke manifold. Test BOP's.
- Contact the cement provider and ensure they have 300 lbs of sugar and 1" tremie line with 100 sacks of 5. excess cement to fill short fall (top off) in cement top.
- Spud the well, drill 17-1/2" hole to +/-4,916 ft. The 17-1/2" wellbore will be drilled to match the casing 6. length. BHA 2-8" drill collars on bottom, ~6-6 1/2" collars for weight, 4 $\frac{1}{2}$ " drill pipe.
- Circulate the hole clean and make a wiper trip to the surface. Pull out of hole with 17-1/2" BHA. 7.
- Circulate & condition the hole for logging. Notify LDNR in advance with 24-hour prior notification to log. 8.
- Rig up wireline logging equipment and run the following open-hole logs from bottom-hole to the surface: 9. Triple Combo, spectral gamma, and dipole sonic. Note: Cement integrity logs will be run following intermediate section (Sonic Scanner CBL)

Surface Open Hole Logging Run: Surface to 4,916'

Logging Run/ Equipment	Hole Size (inch)	Interval Depth (feet)	Individual Logging Tools	Interval
Run #1:			Gomma Pay Pogiativity Dangity	
Caliper	17-1/2	0 – 4,916	Gamma Ray, Resistivity, Density Neutron-Porosity, Spontaneous Potential, and Caliper Logs	Surface (Open Hole)
Spectral GR		4,510	Spectral Gamma, Dipole Sonic	
Dipole				

Note: The open-hole logs will be submitted to LDNR for USDW determination and minimum surface casing setting depth requirement prior to setting the surface casing to ensure adequate isolation and protection of the USDW.

- 10. Circulate & condition hole for cementing. Perform wiper trip to conductor.
- Trip out of hole. Make sure the hole stays full. Strap, clean and drift casing.
- Hold pre-job safety meeting and fill out JSA. MIRU casing crew and install ~4,916 ft of 13-3/8, 54.5 lb/ft, 12. J-55, BTC casing, float collar and float shoe. 13-3/8" Surface Casing and Cementing Equipment



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		INJECTION & MINING DIVISION
Item No.	Units	Description
1.	1	13-3/8" BTC Guide/Float Shoe
2.	1	13-3/8", 54.5 lb/ft, J-55, BTC Casing
	2	Steel spring centralizers: 1 - 10 feet above the shoe and $1 - 10$ feet
		below the collar
3.	1	13-3/8" BTC Float Collar
4.	То	Steel spring centralizers, 1 on the connections between joints 2 & 3,
	surface	and then on every 3 rd connection to surface beginning with the connection between joints 5&6 (Estimate of 43 total centralizers)

13. Rig down the casing crew and rig up cementers (single stage if no losses, staged job if losses). Pressure test surface lines to 2,000 psi. Cement the 13-3/8" casing to surface in a single stage. The calculated volume plus 100% excess will be pumped. Displace cement using freshwater. The proposed cement slurries are presented below, but the final slurries and volumes will be based on wellbore conditions:

Slurry Specifications:

Lead: Light weight lead cement with additives

3220 sk Lead Slurry Light Weight cement similar to Halliburton Light with additives

Water requirements: 10.29 gal/sack 1.909 ft³/sack Yield: Density: 12.7 ppg

Tail: 590 sk Class A with additives

Water requirements: 5.21 gal/sack 1.179 ft³/sack Yield: Density: 15.6 ppg

Displace with plug and bump plug with 500 psi over, not to exceed 80% of burst pressure (~2,184 psi). Hold for 5 minutes, release and test float. If the float leaks, reapply pressure for 10 minutes and hold, and then retest the float.

14. If the cement is not circulated to surface, the tremie method will be used to top up the annulus with Class A cement from the top of cement to surface. If necessary, a temperature survey will be used to locate the top of cement in the annulus.

Notify LDNR immediately if cement is not circulated to the surface, prior to conducting cement top up.

- Nipple down 21-1/4" annular BOP and pick up the 13-5/8" annular.
- Rig up the BOP tester. RIH with test plug for pressure testing BOP. Function test accumulator, BOP rams and annular, 250 psi low to 2400 psi high. Remove test plug. RIH with wear bushing.
- Pick up 12-1/4" Roller Cone bit with open jets. Trip in the hole (TIH) with BHA to the top of the 13-3/8" float collar. Drill out cement found on top of the float collar as necessary. Ensure the hole stays full. TOH. Lay down the 12-1/4" roller cone bit BHA.



- 18. Pressure test the casing to a minimum of 600 psi for 30 minutes.
 - a. A maximum of 5% pressure loss is allowed over the 30-minute test period.
 - b. The pressure test will be charted and recorded on form CSG-T (Casing Test affidavit) and submitted to LDNR.
 - c. Notify LDNR-IMD, at least 48 hours prior to conducting the pressure test event, in case a staff wishes to witness the test.
- 19. Throughout the entire drilling program, functions test BOPs every 48 hours and blind rams every TOH per LDNR regulations. Record on Pason and in the Daily Drilling Report (DDR).
- 20. Drill out the float collar, shoe track and float shoe plus at least 10 feet of new formation. Perform a formation integrity tests to either the formation leak-off pressure or to a pressure equivalent to 0.5ppg above the anticipated drilling fluid weight at the setting depth of the next casing string.
- 21. Continue drilling 12-1/4" hole 12-1/4" hole **SLOWLY** to intermediate hole section TD at approximately $\pm 7,336$ '. Exact depth to be picked by wellsite geologist.
- 22. Log well with per the Intermediate Open Hole Logging Program as presented below:

Intermediate Open Hole Logs & Wellbore Integrity Logs for Surface:

Logging	Hole	Interval	Individual	Interval
Run/	Size	Depth	Logging	
Equipment	(inch)	(feet)	Tools	
Run #2: Triple Combo Spectral GR	12-1/4 0-7,736		Gamma Ray, Resistivity, Density Neutron-Porosity, Spontaneous Potential, Spectral Gamma	Intermediate (Open Hole)
Run #3: Sonic Scanner Lithoscanner			Sonic Scanner (Gyro/Directional;-XY caliper), Lithoscanner	Intermediate (Open Hole)
Run #3:	17-1/2	0 –	Sonic Scanner Cement Mode	Surface Casing
CBL		4,916	CBL	(cement integrity)

- 23. Contact the cement provider and ensure they have 300 lbs of sugar and 1" tremie line with 50 sacks of excess cement to fill any short fall in cement top.
- 24. Run and set 9-5/8", 47 lb/ft, L-80 BTC casing to ± 7,736' according to the casing program below. Thread lock will be used for connections on the float shoe, float collar, and cement the 9-5/8" casing in a single



stage. The threads on these items will be thoroughly cleaned with an appropriate type of degreaser solvent before applying the thread lock material.

9-5/8" Intermediate Casing and Cementing Equipment

Item No.	Units	Description
1.	1	9-5/8" BTC Guide/Float Shoe
2.	1	9-5/8", 47 lb/ft, L-80, BTC Casing
	2	Steel spring centralizers: $1 - 10$ feet above the shoe and $1 - 10$ feet below the collar. Use stop collars above and below each centralizer.
3.	1	9-5/8" BTC Float Collar
4	To Surface	Steel spring centralizers, 1 on the connections between joints 2 & 3, and every joint to surface.

Rig up cementers to cement the 9-5/8" casing per the Intermediate Cementing Program. The calculated caliper log volume plus 10-25% excess will be pumped. Set up pump to straw bale corral and pipe to divert excess cement and wash up.

Note: LDNR utilizes a 50% open-hole washout factor to calculate the volume of excess cement to pump, where caliper logs are not available.

26. Pressure test lines to 5000 psi.

Slurry Specifications:

Lead: Light weight lead cement with additives.

1565 sk Lead Slurry Light Weight cement similar to Halliburton Light with additives

Water requirements:

8.96 gal/sack

Yield:

1.714 ft³/sack

Density:

12.5 ppg

Tail: 272 sk Class H with additives

Water requirements:

5.50 gal/sack

Yield:

1.444 ft³/sack

Density:

16.2 ppg

- Displace with plug and bump plug with 500 psi over, not to exceed 80% of burst pressure (~5,496 psi). Hold for 5 minutes, release and test float. If the float leaks, reapply pressure for 10 minutes and hold, and then retest the float.
- 28. Test BOPs using test plug to 250 low to 2,500 psi.
- Pressure test the casing to a minimum of 1000 psi for 30 minutes.
 - a. A maximum of 5% pressure loss is allowed over the 30 minutes test period.
 - b. The pressure test will be charted and recorded on form CSG-T (Casing Test affidavit) and submitted to LDNR.

Denbury 6

- c. Notify LDNR-IMD, at least 48 hours prior to conducting the pressure test event, in case a staff wishes to witness the test.
- Drill out the float collar, shoe track and float shoe plus at least 10 feet of new formation. Perform a formation integrity tests to either the formation leak-off pressure or to a pressure equivalent to 0.5ppg above the anticipated drilling fluid weight at the setting depth of the next casing string.
- Continue to drill 8-1/2" hole to Cane River Formation core point at ±7.846'. Ream each stand prior to wiping hole for core assembly.
- 32. Wiper trip to intermediate casing.
- 33. Circulate bottoms up before tripping out. TOH. Check PDC bit with gauge.
- Pick up coring 8-1/2" PDC core head per coring procedure. TIH and core Cane River Formation from \pm 7,846'-7,906'. Note each core point will be picked by the project geologist.
- POH & lay down core. Grade the core bit. 35.
- Continue drilling with 8-1/2" PDC bit & BHA; drill to the next core point in the Wilcox formation \pm 10,826'.
- Pick up 60' of 8-1/2" OD core barrel with 8-1/2" PDC core head. TIH and core Wilcox Group from $\pm 10,826$ -10,886'.
- 38. POH & lay down core. Grade the core bit.
- TIH, safety ream core interval. Drill 8-1/2" hole section to TD \pm 11,616'. Circulate until shakers are clean. 39.
- Log well per Production Open Hole logging program included below: 40.

Production Open Hole Logs & Intermediate Cased Logs

Logging Run/ Equipment	Hole Size (inch)	Interval Depth (feet)	Individual Logging Tools	Interval
Run #4: Triple Combo Spectral GR	8-1/2	7,736' – 11,616'	Gamma Ray, Resistivity, Density, Neutron, Spontaneous Potential Spectral GR	Production (Open Hole)
Run #5: Sonic Scanner Lithoscanner			Sonic Scanner (Gyro/Directional;-XY caliper), Lithoscanner	Production
Run #5: CBL	12- 1/4	4,916-7,736'	Sonic Scanner Cement Mode CBL	Intermediate (cement integrity)
Run #6: Sidewall Cores	8-1/2	7,736' – 11,616'	Sidewall Coring Tool	Production



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Run#7:	8-1/2	7,736' – 11,616'	C * 1 CPI	
CBL Isolation Scanner			Conventional CBL + Isolation Scanner Tool	Production

- 41. After open hole logs, Rig down and release the logging company.
- 42. Run and cement 5-1/2" 23 lb/ft, 22Cr125, Vam Top from ± 7,436' 11,616'per casing program presented below:

5-1/2" Production Casing and Cementing Equipment

Item No.	Units	Description
110.		
1.	1	5-1/2" Guide/Float Shoe
2.	1	5-1/2", 23 lb/ft, 22Cr125, Vam Top Casing
	2	Steel spring centralizers: 1 - 10 feet above the shoe and $1 - 10$ feet
		below the collar
3.	1	5-1/2" Float Collar
4.	To Liner	5-1/2", 23 lb/ft, 22Cr125, Vam Top
	Hanger +	
	Packer	
8.	Top of Liner	Steel spring centralizers, 1 per joint to top of Liner.

43. The 5-1/2" Protection Liner will be cemented in a single stage according to the Cementing Company recommendation.

1295 sk CO₂ Resistant cement with additives

Water requirements:

5.22 gal/sack

Yield:

1.204 ft³/sack

Density:

14.5 ppg

Note: A minimum of 25% excess over the open hole caliper will be used or 50% excess over the theoretical (if no caliper).

Note: The final cement slurry designs and volumes will be based on hole conditions and recommendations from the cementing company.

- 44. Rig down and move the drilling rig off the well location.
- 45. Clean up the location.

(Note the logging Run #7 (CBL & Isolation Scanner) will be captured after the drilling rig has been released).



INJECTION & MINING DIVISION

Formation Testing Program: Draco IZM #1 Denbury Carbon Solutions, LLC

Rig Up, Drill out Float Collar and Shoe

- 1. Mobilize and rig-up workover rig and ancillary equipment.
- 2. ND tree NU BOP.
- 3. Pick up 4-3/4" bit and six (6) 3-1/2" drill collars on workstring and trip in the hole breaking circulation every 1,000 ft and circulate a minimum of 10 bbls.
- 4. Rig up power swivel and continue lowering the drilling assembly to the top of the 5-1/2" float collar at ~ 11,536 feet. Circulate hole clean (2 bottoms up) and displace fresh water with filtered brine.
- 5. POOH laying down workstring, drill collars, and bit.
- 6. Pick up bit and scraper for 5-1/2" 23 lb/ft on workstring:
 - a. Run-in hole to plugged back total depth (PBTD) held up depth (~11,596 ft).
 - b. Circulate hole clean, pull out of hole with bit and scraper.
 - c. Displace hole with filtered KCl water.
 - d. POOH.
- 7. ND BOPE, NU tree.
- 8. RDMO workover rig.

Conduct Cement Bond Log/Temperature Survey Log

- 9. RU electric line.
- 10. Notify LDNR-IMD, at least 48 hours prior to conducting the casing pressure test.

 NOTE: LDNR-IMD will be contacted to schedule the pressure test of the 5-1/2" long string test in the event the CES or staff wish to witness the casing test.
- 11. Pressure test the 5-1/2" Liner to a minimum of 1000 psi for 30 minutes. A maximum of 5% pressure loss is allowed over the 30 minutes test period. The pressure test will be charted and recorded on form CSG-T (Casing Test Affidavit) and submitted to LDNR.
- 12. Run differential temperature survey, isolation scanner, cement bond log (CBL) tools with Gamma Ray and CCL on the electric line, lower in well, and run CBL on the 5-1/2" liner from PBTD to Liner Hanger top.
- 13. Pull out of hole and lay down. Submit CBL to LDNR-IMD for confirmation of good cement prior to any injection into the well.
 - a. The CBL must show evidence of the minimum required interval of 60% bonded cement in the isolating shale immediately above top of zone.
 - b. If CBL does not show good bond, perform cement squeeze and re-run CBL.



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Perforate Wilcox Group

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- 14. RIH with RBP on wireline. Set RBP in the 5-1/2" 23# liner 50' below anticipated bottom perforation depth. POOH. Pressure test RBP to 500 psi for 30 minutes.
- 15. RIH with perforation guns on wireline and perforate a 10 ft interval in the Wilcox per Denbury Geologist in the 5-1/2" liner (actual perforation interval depths and footages will be determined by the open hole logs of the well itself, but perforations should fall within the 10,913' - 11,113' interval listed on page 2 on the Form UIC-25 STRA TEST).
- 16. Run pressure gauge on e-line and record bottom hole pressure.
- 17. RD and release the logging unit.

Fluid Sample and BHP measurement of the Wilcox Group

NOTE: If fluid sample recovery was unsuccessful during the open-hole program due to borehole conditions, a fluid sample will be recovered from the perforated interval

- 18. Rig-up workover rig.
- 19. ND tree NU BOP.
- 20. RIH with test packer for 5-1/2" 23# liner and a nipple profile below packer on the 3-1/2" workstring.
- 21. Set Packer 50 feet above the Wilcox top perforation at 10,863'. At no point will the packer be set above the minimum required interval of 60% bonded cement in the isolating shale immediately above top of zone or greater than 150' above top of zone.
- 22. Contact LDNR 48 hours prior to perform CES witnessed MIPT.
- 23. Collect formation sample and send it off to the lab for analysis.
- 24. Stimulate formation.

Testing of the Wilcox Group

- 25. Rig up e-line and run pressure gauge and record bottom hole pressure in real-time during the Step Rate Test (ISRT) inside the 3-1/2" workstring.
- 26. Perform ISRT of the Wilcox perforations. The ISRT will consist of 15 minutes steps with identical rate steps. The injection rate step size will be determined, but it is assumed at 0.25 BPM. The test will be continued until the pump limit is reached or the formation fracture pressure is determined.
- 27. End ISRT and allow the formation pressure to bleed off overnight. Close valve on pump-in sub to isolate well from injection pumps.
- 28. Begin constant rate injection test at the designed injection rate with filtered fluids. The constant rate injection test will be maintained for 10 hours with an assumed rate of 2 bpm. Filtered brine or fresh water with KCL substitute will be used for the injection fluid.
- 29. At end of 10 hours injection period, conduct a hard shutdown and begin pressure falloff test. The pressure falloff test duration will be by the formation pressure bleed off, but 36 hours is assumed.
- 30. Confirm that the well is dead.
- 31. Release pack-off and POOH with wireline the pressure gauge.
- 32. Release and POOH the 5-1/2" packers, nipple profile and workstring.
- 33. Retrieve RBP out of the hole.
- 34. RD and release the logging unit.

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Temporarily Abandon Well

- 35. RIH with workstring and set a CIBP 50' above Wilcox top perforation. Spot 100 lbs. of sand on top of CIBP. POOH. Pressure test plug to 300 psi for 30 minutes without losing more than 5% pressure.
- 36. Run 5000' of kill string.
- 37. Nipple down BOPs and install wellhead tree assembly.
- 38. Rig down workover rig and equipment and move off location.

Denbury Carbon Solutions, LLC
Class V Stratigraphic Test Well Application
OFFICE OF CONSERVATION Vernon Parish, LA

HIN 2 9 2023

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B.8 SCHEMATIC OF THE CLASS V-WELL SHOWING:

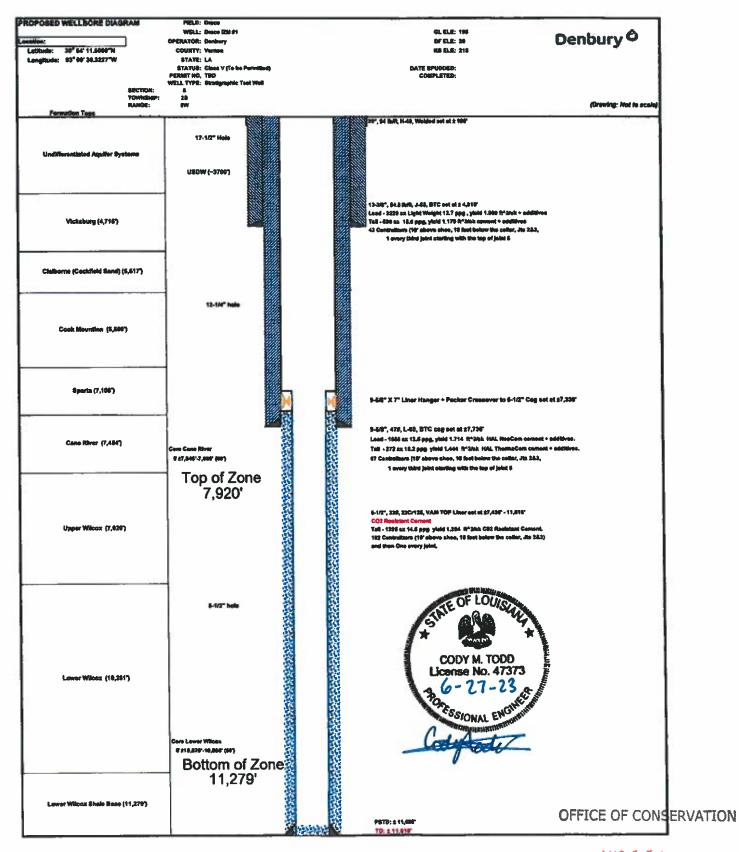
- a. Casing diameter, specifications, material (PVC, steel, etc.) and depth,
- b Screen type, length, material, slot or opening size,
- c. Injection tubing size inside casing (if any)'
- d. Hole diameter (bit size),
- e. Amount and type of cement used and depths to top and bottom of cement,
- f. Wellhead showing all fittings,
- g. Discharge line diameter and connection to wellhead,
- h. Well house (if any).

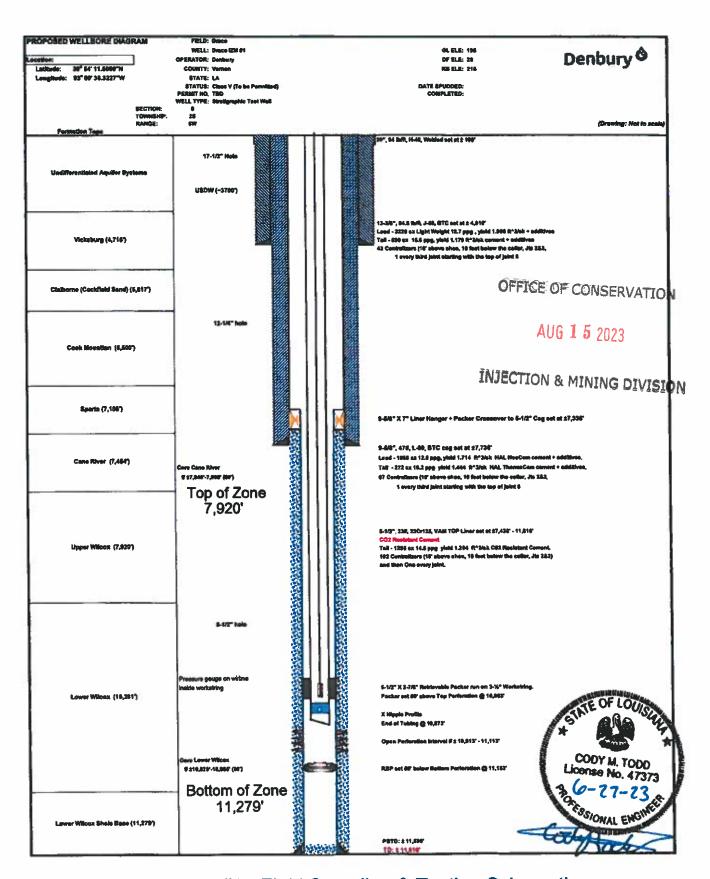
Three separate wellbore schematics are attached.

- 1. Schematic as the well will look post drill
- 2. Schematic as the well will look at the time of injectivity testing
- 3. Schematic as the well will looked once Temporarily Abandoned

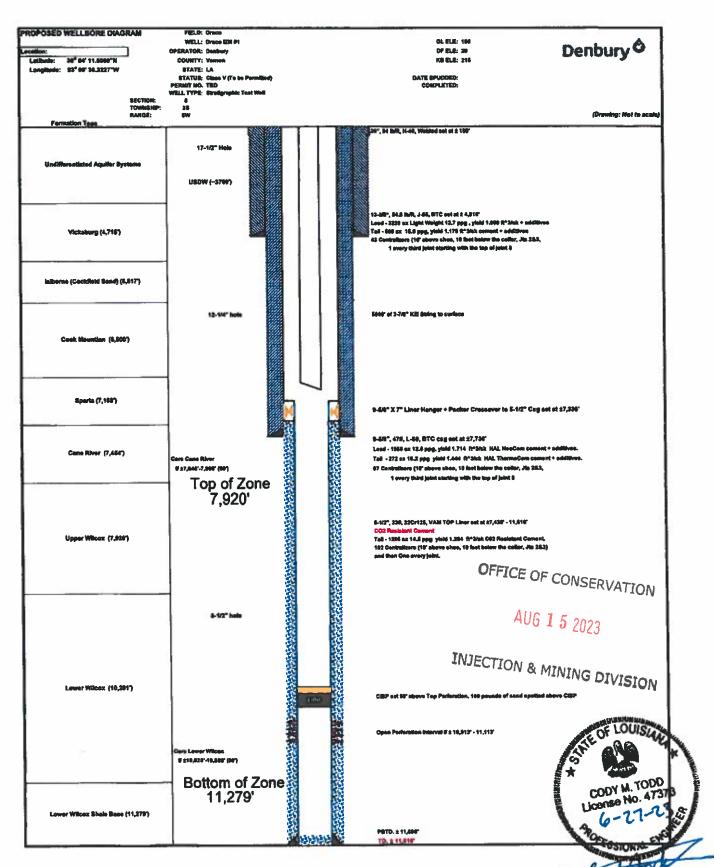


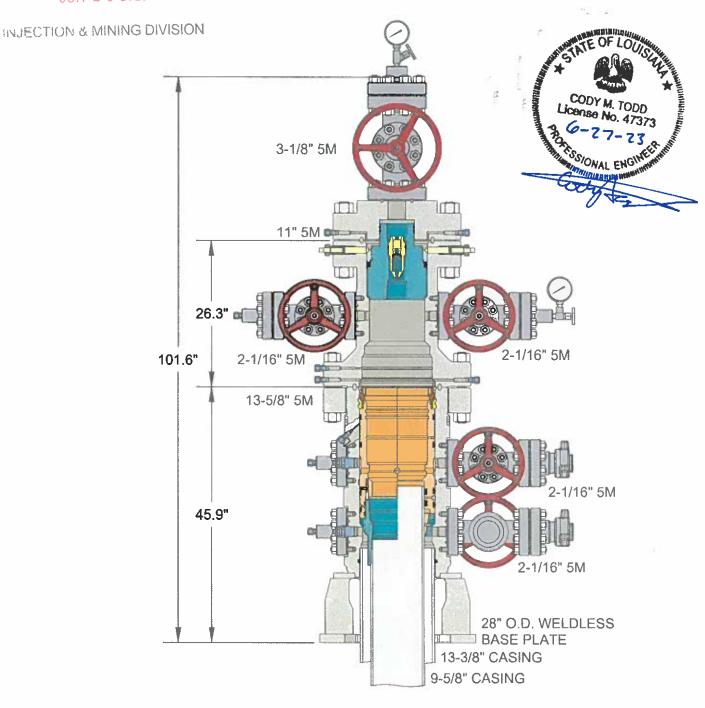
^{**}The schematics are stamped and signed by a Louisiana-registered Professional Engineer (PE)**





Draco IZM #1 - Fluid Sampling & Testing Schematic







13-3/8" X 9-5/8" X 5-1/2" 5M RSH-2N WELLHEAD ASSEMBLY, WITH T-EBS-F TUBING HEAD, AND A5PEN ADAPTER FLANGE

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Denbury Carbon Solutions, LLC Class V Stratigraphic Test Well Application Vernon Parish, LA

OFFICE OF CONSERVATION

JUN 2 9 2023

INJECTION & MINING DIVISION

ADDITIONAL ATTACHMENTS

AOR DETAIL WELL REPORT FOR SN 233064

P&A PROCEDURE

P&A SCHEMATIC

THIRD PARTY P&A ESTIMATE





Well Status:

Louisiana Department of Natural Resources (DNR)

SONRIS/2000

SRCN4188 WELLS -- WELLS IN AREA OF REVIEW (AOR)

Well Num: 001

Report run on: Jun 15, 2023 8:37 AM

Well Serial Num: 233064

CROSBY LAND & RESOURCES SB Well Name:

DRY AND PLUGGED

Class Type: Classification:

Distance Between: 652 ft

Casing					Carly shirt					Spirit Samuel		
Completion Date	Casing Size	Well	bore Size	С	asing Weig	ht	Upper	Lowe	900	acks Of	Casing	СТОС
							Set Depth	100	Depth C	ement	Pulled	
06/27/2006	14			0			0	85				0
06/27/2006	9.625	12.2	5	40	0		0	5080	1.	505	2000.20.00	1300
Cement Plugs		Plug Type	Sacks Of 0	Cement 🧾	Slurry We	ight	Uppe	er Plug De	epth Lo	wer Plug D	epth	
Completion Date:	06/27/2006		100		15.6		5900)	51	80		
Completion Date :			25		15.6		5		60			
Surface Coordinates												
Received Date	Coordinate Source Code	Coordinate System Code	Lambert X	Lambert \	Y Zon	Ground Elevation	Latitude Degrees	Latitude Minutes	Latitude Seconds	Longitude Degrees	Longitude Minutes	Longitude Seconds
03/17/2006	02	01	1473946	817829	S		30	54	17.8	93	0	37.8

For injectivity testing purposes:

- Well Serial No. 233064 is the only well within a 1/4 mile of the proposed Draco IZM #1.
- Surface casing is set at 5,080' which is below the ~3,700' USDW & cemented with 1205 sx of 2.55 yield Lead & 300 sx of 1.1 ON & MINING DIV tail (CTOC @ surface).
- Well was plugged 6/21/2006 with 100 sx from 4,900' 5,180' & 25 sx from 5' 60'
- USDW is fully isolated from proposed injection zone for injectivity tests

Note: Wellbore sizes with an asterisk symbol (*) next to it are assumed values based on the casing size and these assumed values have been substituted in place of a null (or zero) value everywhere a null (or zero) value previously existed as the wellbore size.

DENBURY – DRACO IZM #1 – CLASS V PERMIT APPLICATION P&A PLAN, CLOSURE PLAN, AND COST ESTIMATE ENGINEERING CERTIFICATE

I, Russell Bellard, Jr., Licensed Professional Engineer

certify under penalty of the law that the DRACO IZM #1 CLASS V Well Permit Application pages listed below were prepared under my direction in accordance with the Plug & Abandon Rules governed by the State of Louisiana. Based on my inquiry of the person or persons directly responsible for gathering the information, recommendations, and specifications submitted are, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature

Date 08 03 20 2 3

Document pages covered by Engineering Certification include the following:

Pages 3 thru 9 - P&A - Closure Procedure, Proposed P&A Schematic, & P&A-Closure Cost

Estimate, white

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AUG 07 2023

INJECTION & MINING DIVISION

State of Louisiana, Registered Professional Engineer #27640

Plugging Procedure and Closure Plan Draco IZM #1

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Location: Lat: 30° 54° 11.51" N (NAD 27) Long: 93° 00° 36.32" W (NAD 27)

(Section - 8; Township - 2S; Range - 6W; Vernon Parish; Louisiana)

Elevations: Ground Level = 196' MSL, Drill Floor Height = 20'; KB Elevation = 216'

Unless otherwise noted depths in this document are referenced to KB Elevation.

Objective: The primary objective is a stratigraphic test of the Wilcox Group formation as part of Denbury

Carbon Solutions, LLC, Vernon Parish Carbon Sequestration project.

Project Sponsor:

Land Owner:

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GEOLOGICAL PROGNOSIS

Projected depths were based on a combination of data from 3D seismic and publicly available well datasets from the Louisiana Department of Natural Resources (LDNR).

Formation	Estimated feet TVD
Ground Level	o
Base of Underground Source of Drinking Water (USDW, <10,000 mg/l)	3,700
Vicksburg	4,715
Claiborne (Cockfield Sand)	5,517
Cook Mountain	6,500
Sparta	7,108
Cane River	7,454
Upper Wilcox	7,920
Lower Wilcox	10,281
Lower Wilcox Shale Base	11,279

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PART 1: CLOSURE PLAN

1.1 DETAILS OF CEMENT PLUG PLACEMENT

The details of the placement plugs used to plug and abandon the well is included in the plugging and abandonment wellbore schematic (Figure 1) and in the detailed Plugging and Abandonment Procedure (Part 2).

A summary of the cement plug materials for the well is provided below:

Plug #	Bottom of Plug (ft)*	Top of Plug (ft)*	Plug Column (ft)	Cement Volume (bbls)	Plug Material	Plug Type
						Set CICR and
					CO2 resistant @ 16.4	squeeze Cement to
1	11113	10820	293	6	ppg	cover perforations
2	7786	7636	150	3	Class H @ 16.4 ppg	Balanced plug
					CO2 resistant @ 16.4	
3	7336	7236	100	7	ppg	Balanced plug
						Balanced plug
4	4966	4866	100	7	Class H @ 16.4 ppg	+CIBP @ 4,966
5	3750	3650	100	7	Class H @ 16.4 ppg	Balanced plug
6	150	50	100	7	Class H @ 16.4 ppg	Balanced plug
-	15	5	10	1	Sacked concrete	Concrete

Table 1: Draco IZM#1 - Cement Plug Materials and Placement

1.2 DETAILS OF CASING LEFT IN WELL

At least the top five feet of each casing string will be cut-off during the plugging and abandonment of the well to install the steel plate over the well (Environmental plug/coverage).

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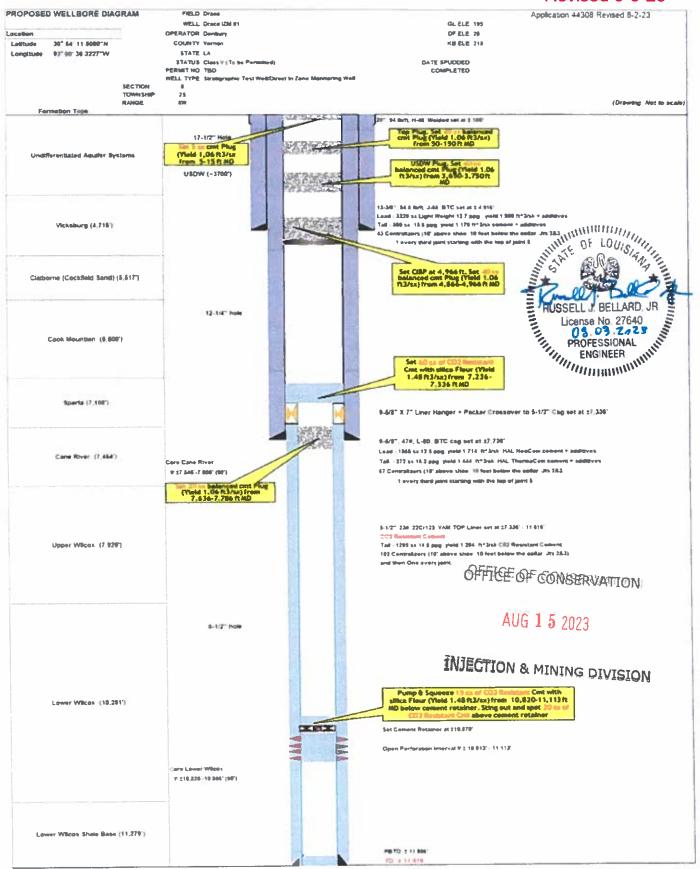


Figure 1: Draco IZM #1Well - P&A Wellbore Diagram

PART 2: PLUGGING AND ABANDONMENT PROCEDURE

Provide the Office of Conservation a minimum of 60-day notice of intent to plug the well with the final plugging plan sealed with a P.E. certification. Identify any known or anticipated geologic or economic conditions that may affect the plugging and identify any material intended to be left in the well. The plugging plan must be approved by the Office of Conservation prior to implementing any site activity.

The plugging method will utilize a Cast Iron Cement Retainer Plug (CICR) to be run and set inside the 5-1/2" casing about 50 ft from the top of perforation. Afterwards, a cement plug will be positioned and set on top of the CIBP. The well will then be filled to the surface with cement plugs by setting a series of balanced plugs, and each plug will be tagged, and/or pressure tested to 300 psi for 30 minutes before setting the next plug. All casing strings will be cut-off 5 feet below ground level, and a ½ inch steel cap will be welded over the outermost casing string with the serial number of the well and the plugging and abandonment date inscribed on the top of the plate.

Below is a workover procedure to plug and abandon Draco IZM #1:

- Submit a Work Permit Request (Form UIC-17) to the Louisiana Department of Natural Resources, Injection. and Mining Division (LDNR) to perform mechanical Integrity tests.
- 2. After receiving a Work Permit Number from LDNR, notify the appropriate Louisiana Office of Conservation Enforcement Specialists at least 48 hours prior to initiating any site activity.
- 3. Rig up a wireline unit. Move in and rig up the required number of frac tanks to store saturated brine for pressurizing the well to the required surface pressure for mechanical integrity testing. Inject brine into the well until the surface pressure is near the required test pressure. Move in a nitrogen unit and a wireline unit. Rig up digital pressure gauges to the well and initiate a nitrogen/brine mechanical integrity test. At the conclusion of the test, bleed off the nitrogen and brine pressures. Prepare a mechanical integrity report with Well History and Work Resume Report (Form WH-1) and submit to the Louisiana Department of Natural Resources, Injection and Mining Division (LDNR) and wait for final approval to initiate closure activities.
- 4. After receiving a Work Permit Number from LDNR, notify the appropriate Louisiana Office of Conservation Enforcement Specialist at least at least 48 hours prior to initiating plugging and abandonment field activities.
- 5. Prepare the well location for a workover rig by removing all wellhead valves, surface facilities piping, and instrumentation connected to the wellhead. Replace all well head valves with blind flanges. Maintain an annular outlet and valve for fluid displacement from the well, if required.
- 6. Move in and rig up a workover rig and associated equipment.
- 7. Open well and check for pressures. Bleed off any pressures. Record same.
- 8. Kill well by bull heading with field salt water (9.5 ppg). Ensure that hole is completely filled at all times.
- 9. Rig up wireline and lubricators (BOPs), Test BOPs 250 psi low and 5000 psi high.
- 10. Set Retrievable Bridge plug or back pressure valve.
- Remove the upper wellhead assembly and install an annular blowout preventer (BOP) to the upper spool. Function test the BOP.
- 12. Retrieve retrievable bridge plug or back pressure valve.
- 13. Rig up wireline (E-line) and standard lubricator.
- 14. Make a 4.5" gauge ring/junk basket run in the 5-1/2" liner to ± 10,870 feet MD. Pull out of hole. **OFFICE** OF CONSERVATION

Page 5/8

Denbury Carbon Solutions, LLC

- 15. Pick up a 4.24" CICR, run in hole and set the CICR at ± 10.870 feet MD.
- 16. Mix and squeeze cement through the CICR from 10,870 11,113 feet MD, mixing and pumping cement from 10,820 10,870 feet on top of the cement retainer,
- 17. Rig down wireline (E-line).
- 18. Rig up a digital pressure recorder and pressurize the casing to approximately 300 pounds per square inch (psi) and conduct a 30-minute pressure test. Bleed off the pressure and rig down the pressure recorder.

(Note: LDNR requires a pressure drop of not more that 5% within the 30 minutes interval for the pressure test to be accepted). If pressure test bleeds off over 5%, contact the Denbury's Operation Engineer immediately.

- 19. Run in hole with workstring to the top of cement on the CICR.
- Circulate and fill wellbore with 9.0 ppg WBM. Establish circulation through the workstring up the protection casing annulus, up to 2 workstring volumes.
- 21. Pull the workstring to 7,786 feet MD. Mix and pump a 150 feet (20 sacks) 16.4 lb/gal cement of balanced cement plug from 7,636-7,786 feet MD. After allowing enough time for the cement to harden, lower the work string and tag the top of the cement plug. Record results.
- 22. Rig up a digital pressure recorder and pressurize the casing to approximately 300 pounds per square inch (psi) and conduct a 30-minute pressure test. Bleed off the pressure and rig down the pressure recorder.

(Note: LDNR requires a pressure drop of not more that 5% within the 30 minutes interval for the pressure test to be accepted). If pressure test bleeds off over 5%, contact the Denbury's Operation Engineer immediately.

- 23. Rig up a cementing unit and spot the remainder of the balanced plugs as shown in the wellbore diagram using 16.4 ppg Class H cement. Pull the work string above the estimated cement top and reverse out. Pull two additional stands of the work string and wait for the cement to cure for at least four hours.
- 24. Tag the top of cement and pressure test the casing to 300 psi for 30 minutes and record the test with a digital pressure gauge.
- 25. Continue spotting balanced cement plugs up the wellbore until reaching 5 feet to the surface using 16.4 ppg Class H cement on all cement plugs.
- 26. Tag the top of cement and pressure test the casing to 300 psi for 30 minutes and record the test with a digital pressure gauge.
- 29. Nipple down the BOP and remove the remaining wellhead equipment.
- Rig down and move out the workover rig and associated equipment.
- 29. Excavate around the well and cut-off all casings at least 5 feet below ground level.
- 30. Top-off the well to 5 feet with concrete.
- 36. Weld a ½ inch thick steel plate over the 20-inch conductor casing with the following inscriptions welded on the plate: 1) LDNR Serial Number, and 2) P&A Date.
- Install a survey monument on the top of the ½ inch thick steel plate that extends to the original ground level. Backfill the excavated area around the well. Survey the elevation of the new marker.
- 33. Restore the location and haul off for disposal any waste material generated from the plugging and abandonment operation.

After plugging and abandonment, Denbury will prepare a Closure Report for submittal to LDNR within 30 days after completing closure operations which includes the following information:

a) detailed procedures of closure operation;

- b) original copy of LDNR Form UIC-P&A and
- c) any additional information pertinent to the closure activity, including testing and monitoring data.

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AUG 07 2023

PART 3 CLOSURE AND POST-CLOSURE COST ESTIMATE

Description		Cost Estimate (\$)
Rig Mob/Demob with Trucking	2 @ \$6,500/day	13,000
Workover Rig	5 days @ \$6500/day	26,000
Workstring Rental	5 days @ \$100/day	5,000
Rental Equipment & Tanks	6 days @ \$1,000/day	6,000
Miscellaneous Trucking	5 loads @ \$1,500/load	7,500
Drilling mud	\$19/bbl	5,700
CO2 Resistant Cement	LumpSum	25,000
Class H Cement	\$28/bbl	1,148
Cement Pumping Services	6 jobs @ \$14,000/job	84,000
Wireline Logging	2 @ \$15,000	30,000
Mechanical Integrity Test	1 @ \$25,000	25,000
Welding/Casing Cutting	1 @ \$5,000	5,000
Waste Management/Disposal/Vacuum	1 @ \$15,000	15,000
Surface Restoration/Remediation	5%	14,901
Field Supervision Expenses	6 days@ \$1,500	9,000
Project Management and Report	Job	8,000
	Subtotal	280,249
Project Contingency	10%	28,025
	Project Total	308,274

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044308

Denbury Carbon Solutions, LLC Class V Stratigraphic Test Well Application Vernon Parish, LA

OFFICE OF CONSERVATION

JUN 2 9 2023

ANJECTION & MINING DIVISION

FINANCIAL SURETY

Financial Surety in the form of a performance bond covering the third party estimated P&A cost will be submitted to LDNR prior to a permit to construct being issued.



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Publisher of THE ADVOCATE

PROOF OF PUBLICATION

The hereto attached notice was published in THE ADVOCATE, a daily newspaper of general circulation published in Baton Rouge, Louisiana, and the Official Journal of the State of Louisiana, City of Baton Rouge, and Parish of East Baton Rouge or published daily in THE TIMES-PICAYUNE/THE NEW ORLEANS ADVOCATE, in New Orleans Louisiana or published daily in THE ACADIANA ADVOCATE in the following issues:

7/15/2023

of Newman Public Notices Representative

Sworn and subscribed before me, by the person whose signature appears above

19 Jul 2023

M. Monic McChristian,

Notary Public ID#88293

State of Louisiana

My Commission Expires: Indefinite

MONIC MCC.

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AUG 07 2023

INJECTION & MINING DIVISION

Ad No: 46636

PUBLIC NOTICE

LEGAL NOTICE

Department of Natural Resources Office of Conservation Injection & Mining Division

Denbury Carbon Solutions, LLC Wildcat - So LA Lafayette District Field, Vernon Parish

District Field, Vernon Parish

Pursuant to LAC 43:XIX. Chapter 47 et seq., Denbury Carbon Solutions, LC, 585.0 Legacy Circle, 585.0 Legacy, Ci

Stephen H. Lee, Director Injection and Mining Division Office of Conservation P.O. Box 94275 Baton Rouge, LA 70804-9275 Attn: Melissa Ashour

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AUG 07 2023