U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

08/25/2023

Well Name: LUSK WEST DELAWARE UNIT

Well Location: T19S / R32E / SEC 21 / NWNW /

County or Parish/State: LEA / NM

Well Number: 104

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM103235

Unit or CA Name: LUSK WEST (DELAWARE) UNIT

Unit or CA Number: NMNM94514X

US Well Number: 3002530496

Well Status: Oil Well Shut In

Operator: SHACKELFORD OIL COMPANY

Notice of Intent

Sundry ID: 2747756

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 08/24/2023

Time Sundry Submitted: 09:49

Date proposed operation will begin: 09/05/2023

Procedure Description:
SET CIBP @ 5685' - 50' ABOVE OPEN PERFS 5735-5778' PUMP 25 SXS OF CLASS C CEMENT ON TOP OF CIBP @ 5685'. TAG CEMENT PUMP 50 SXS OF CLASS C CEMENT AT 4550' - TAG CEMENT PUMP 10 SXS OF CLASS C CEMENT AT 480' - TAG CEMENT PERF @ 60' - CIRC CEMENT TO SURFACE CUT OFF WELL HEAD/CASING 4' BELOW GROUND LEVEL RECLAIM LOCATION AND SEED

Surface Disturbance

Is any additional surface disturbance proposed?: No

Approval Subject to
General Requirements and
Special Stipulations
Attached

Well Name: LUSK WEST DELAWARE UNIT

Well Location: T19S / R32E / SEC 21 / NWNW /

County or Parish/State: LEA / NM

Well Number: 104

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM103235

Unit or CA Name: LUSK WEST (DELAWARE) UNIT

Unit or CA Number: NMNM94514X

US Well Number: 3002530496

Well Status: Oil Well Shut In

Operator: SHACKELFORD OIL COMPANY

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: BRADY SHACKELFORD

Signed on: AUG 24, 2023 09:49 AM

Name: SHACKELFORD OIL COMPANY

Title: Controller

Street Address: 11417 W COUNTY RD 33

City: MIDLAND **State:** TX

Phone: (432) 682-9784

Email address: BRADY@CHOCTAWSERVICES.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

PLUG AND ABANDONMENT
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Shackelford Oil Company**
LEASE NO.:	**NMNM103235**
WELL NAME & NO.:	**Lusk West Delaware Unit 104**
US Well Number:	3002530496
LOCATION:	Section 21, T.19 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico
Sundry ID:	**2747756**
Karst:	☒Low ☐Medium ☐High ☐Critical
Potash:	☐Secretary ☐R111P
Special Area:	☒Prairie Chicken ☒Capitan Reef

1) Set CIBP at 5685'. Leak Test CIBP. Spot 25 sxs on top. Class C. (Top of open perforations)

2) Spot cement from 4956' to 4806'. WOC and Tag. 25 sx Class C. (Squeezed perforations)

3) Spot cement from 4476' to 4331'. WOC and Tag. (Casing Patch) 15 sxs Class C.

4) Perforate and squeeze from 3023' to 2473'. WOC and Tag. (In 56 sxs/Out 74 sxs) (Capitan Reef, DV Tool, Yates, Base of Salt) Class C.

5) Perforate and squeeze from 1130' to surface. (In 115 sxs/Out 152 sxs) Verify at surface. Class C. (Top of Salt, Surface Shoe, Surface Plug)

6) ND BOP and cut off wellhead 5' below surface. RDMO PU, transport trucks, and pump truck.

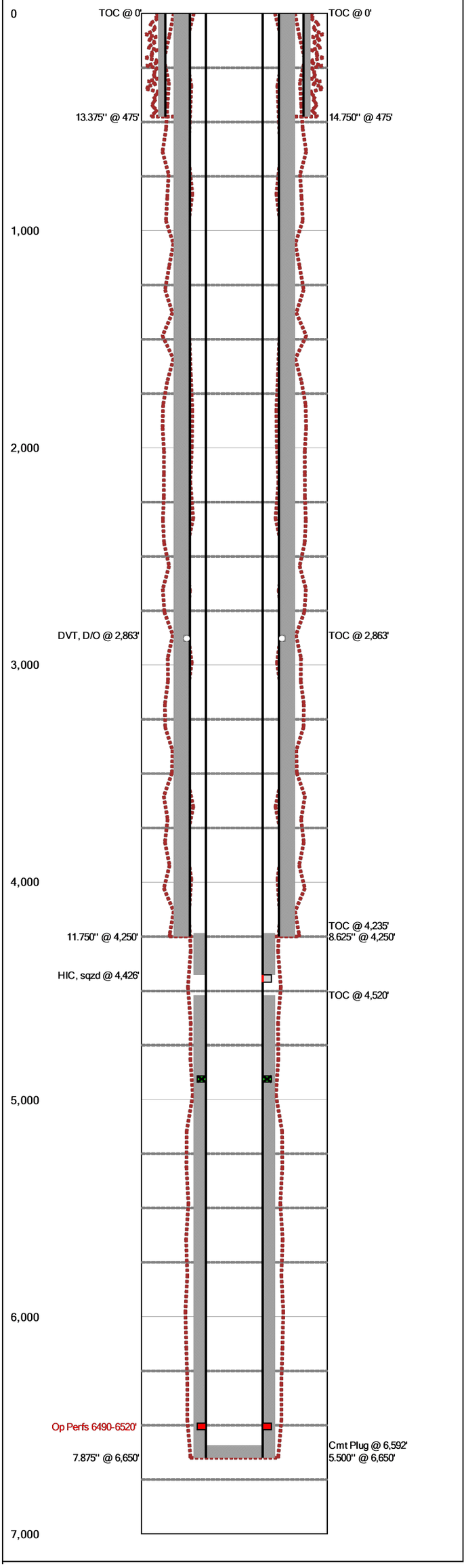
7) Set P&A marker.

Approval Subject to General Requirements and Special Stipulations Attached

- **No more than 3000 feet between cement plugs in cased hole.**
- **Wait on Cement and Tag Top of Cement Requirement:**

  1. Shoe, Top of Salt, Base of Salt, DV tool, Perforate and Squeeze, Open Perforation.

  2. Formation plug is optional if a solid base is established and confirmed.



Last Updated: 9/23/2022 10:12 AM

Field Name	Lease Name	Well No.
Lusk West Delaware	Lusk West Delaware Unit	104

County	State	API No.
Lea	New Mexico	30025304960000

Version	Version Tag
1	Current

GL (ft)	KB (ft)	Section	Township/Block	Range/Survey
		21	19S	32E

Operator	Well Status	Latitude	Longitude
Shackelford Oil Company			

Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From
660	FNL	330	FWL	

Prop Num	Spud Date	Comp. Date
	9/23/1988	10/22/1988

Additional Information

Currently well name is Lusk West Delaware Unit #104

Other 1	Other 2	Other 3	Other 4

Prepared By	Updated By	Last Updated
Shackelford	Shackelford	9/23/2022 10:12 AM

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	17.5	0	475	
	11	0	4,250	
	7.625	0	6,650	

Tubular Summary

Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
	Surface Casing	13.375	48	j-55	0	475
	Intermediate Casing	8.625		k-55	0	4,250
	Production Casing	5.500	15.50	j-55	0	6,650

Casing Cement Summary

C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
		475	13.375	0	475	
		1,490	8.625	0	2,863	TOC @ Surface
		660	8.625	2,863	4,250	
		200	5.500	4,235	4,426	Squeezed Casing Leak, est by CBL
		525	5.500	4,520	6,650	by CBL

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
	DVT, D/O	8.625	0.000	2,863	0
	HIC, sqzd	5.500	0.000	4,426	4,427

Cement Plug Summary

Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
		5.500	6,592	6,650	

Perforation Summary

C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	Shots
		Squeezed		4,892	4,906	28
		Open		6,490	6,520	60

Last Updated: 9/23/2022 10:12 AM

Field Name	Lease Name	Well No.	County	State	API No.
Lusk West Delaware	Lusk West Delaware Unit	104	Lea	New Mexico	30025304960000

Version	Version Tag	Spud Date	Comp. Date	GL (ft)	KB (ft)
1	Current	9/23/1988	10/22/1988		

Section	Township/Block	Range/Survey	Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From
21	19S	32E	660	FNL	330	FWL	

Operator	Well Status	Latitude	Longitude	Prop Num
Shackelford Oil Company				

Other 1	Other 2	Other 3	Other 4

Last Updated	Prepared By	Updated By
09/23/2022 10:12 AM	Shackelford	Shackelford

Additional Information

Currently well name is Lusk West Delaware Unit #104

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	14.750	0	475	
	11.750	0	4,250	
	7.875	0	6,650	

Tubular Summary

Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)	Comments
	Surface Casing		13.375	54.00	j-55	0	475	
	Intermediate Casing		8.625		k-55	0	4,250	24-32#
	Production Casing		5.500	15.50	j-55	0	6,650	

Casing Cement Summary

C	Date	No. Sx	Yield (ft3/sk)	Vol. (ft3)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
		475	1.00	475	13.375	0	475	Class C	
		1,490	1.00	1,490	8.625	0	2,863	Class C	TOC @ Surface
		660	1.00	660	8.625	2,863	4,250	Class C	
		200	1.00	200	5.500	4,235	4,426		Squeezed Casing Leak, est by CBL
		525	1.00	525	5.500	4,520	6,650		by CBL

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	DV tool (drilled out)	8.625	0.000	2,863	0		
	Casing Leak (squeezed)	5.500	0.000	4,426	4,427		

Cement Plug Summary

Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
		5.500	6,592	6,650	

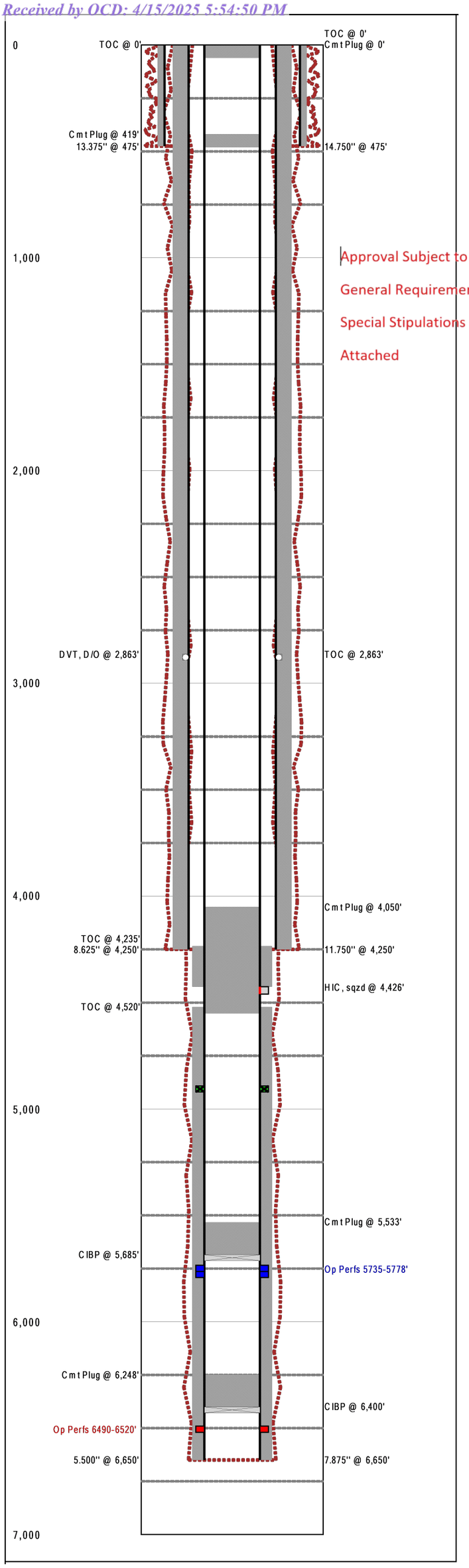
Perforation Summary

C	Date	Perf. Status	Formation	Comments
		Open		

Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
6,490	6,520	2	60		

C	Date	Perf. Status	Formation	Comments
		Squeezed		

Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
4,892	4,906	2	28		



Last Updated: 8/14/2023 10:40 AM

Field Name	Lease Name	Well No.
Lusk West Delaware	Lusk West Delaware Unit	104

County	State	API No.
Lea	New Mexico	30025304960000

Version	Version Tag
3	PROPOSED PLUGGING

GL (ft)	KB (ft)	Section	Township/Block	Range/Survey
		21	19S	32E

Operator	Well Status	Latitude	Longitude
Shackelford Oil Company			

Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From
660	FNL	330	FWL	

Prop Num	Spud Date	Comp. Date
	9/23/1988	10/22/1988

Additional Information

Currently well name is Lusk West Delaware Unit #104
Workover 09/2015

Other 1	Other 2	Other 3	Other 4

Prepared By	Updated By	Last Updated
Shackelford	Shackelford	8/14/2023 10:40 AM

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	14.750	0	475	
	11.750	0	4,250	
	7.875	0	6,650	

Tubular Summary

Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
	Surface Casing	13.375	54.00	j-55	0	475
	Intermediate Casing	8.625		k-55	0	4,250
	Production Casing	5.500	15.50	j-55	0	6,650

Casing Cement Summary

C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
		475	13.375	0	475	
		1,490	8.625	0	2,863	TOC @ Surface
		660	8.625	2,863	4,250	
		200	5.500	4,235	4,426	Squeezed Casing Leak, est by CBL
		525	5.500	4,520	6,650	by CBL

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
	DVT, D/O	8.625	0.000	2,863	0
	HIC, sqzd	5.500	0.000	4,426	4,427
	CIBP	5.500	0.000	5,685	0
	CIBP	5.500	0.000	6,400	0

Cement Plug Summary

Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
		5.500	0	60	CIRCULATE TO SURFACE
	10	5.500	419	480	
	50	5.500	4,050	4,550	
	25	5.500	5,533	5,685	
9/25/2015	25	5.500	6,248	6,400	

Perforation Summary

C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	Shots
		Squeezed		4,892	4,906	28
	9/21/2015	Open		5,735	5,778	
		Open		6,490	6,520	60

Last Updated: 8/14/2023 10:40 AM

Field Name	Lease Name	Well No.	County	State	API No.
Lusk West Delaware	Lusk West Delaware Unit	104	Lea	New Mexico	30025304960000

Version	Version Tag	Spud Date	Comp. Date	GL (ft)	KB (ft)
3	PROPOSED PLUGGING	9/23/1988	10/22/1988		

Section	Township/Block	Range/Survey	Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From
21	19S	32E	660	FNL	330	FWL	

Operator	Well Status	Latitude	Longitude	Prop Num
Shackelford Oil Company				

Other 1	Other 2	Other 3	Other 4

Last Updated	Prepared By	Updated By
08/14/2023 10:40 AM	Shackelford	Shackelford

Additional Information

Currently well name is Lusk West Delaware Unit #104
Workover 09/2015

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	14.750	0	475	
	11.750	0	4,250	
	7.875	0	6,650	

Tubular Summary

Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)	Comments
	Surface Casing		13.375	54.00	j-55	0	475	
	Intermediate Casing		8.625		k-55	0	4,250	24-32#
	Production Casing		5.500	15.50	j-55	0	6,650	

Casing Cement Summary

C	Date	No. Sx	Yield (ft3/sk)	Vol. (ft3)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
		475	1.00	475	13.375	0	475		
		1,490	1.00	1,490	8.625	0	2,863		TOC @ Surface
		660	1.00	660	8.625	2,863	4,250		
		200	1.00	200	5.500	4,235	4,426		Squeezed Casing Leak, est by CBL
		525	1.00	525	5.500	4,520	6,650		by CBL

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	DV tool (drilled out)	8.625	0.000	2,863	0		
	Casing Leak (squeezed)	5.500	0.000	4,426	4,427		
	Cast Iron Bridge Plug	5.500	0.000	5,685	0		50' ABOVE OPEN PERFS
	Cast Iron Bridge Plug	5.500	0.000	6,400	0		

Cement Plug Summary

Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
		5.500	0	60	CIRCULATE TO SURFACE
	10	5.500	419	480	
	50	5.500	4,050	4,550	
	25	5.500	5,533	5,685	
9/25/2015	25	5.500	6,248	6,400	

Perforation Summary

C	Date	Perf. Status	Formation	Comments
		Open		

Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
6,490	6,520	2	60		

C	Date	Perf. Status	Formation	Comments
		Squeezed		

Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
4,892	4,906	2	28		

C	Date	Perf. Status	Formation	Comments
	9/21/2015	Open		09/21/2015

Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
5,735	5,744				
5,764	5,778				

Well History Summary

Date	Comments
10/8/2015	Pro Petro - Frac well @ 18 bpm @ 3050 psi w/ slick water and crosslink gel

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Permanent Abandonment of Federal Wells
Conditions of Approval (LPC Habitat)

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

2. **Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-689-5981.**

3. Blowout Preventers: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. Mud Requirement: Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

5. Cement Requirement: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours. Tagging the plug means running in the hole with a string of tubing or drill pipe and placing sufficient weight on the plug to ensure its integrity. Other methods of tagging the plug may be approved by the BLM authorized officer or BLM field representative.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10th day, the BLM is to be contacted with justification to receive an extension for completing the cut off.** Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.

Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:
From March 1st through June 15th annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 E. Greene St.
Carlsbad, New Mexico 88220-6292
www.blm.gov/nm

In Reply Refer To: 1310

Reclamation Objectives and Procedures

Reclamation Objective: Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo "interim" reclamation in order to minimize the environmental impacts of development on other resources and uses. At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any/all contaminants, scrap/trash, equipment, pipelines and powerlines (**Contact service companies, allowing plenty of time to have the risers and power lines and poles removed prior to reclamation, don't wait till the last day and try to get them to remove infrastructure)**. Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip (across the slope and seed as specified in the original APD COA. **This will apply to well pads, facilities, and access roads**. Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.

2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.

3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.

4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you

have issues or concerns, contact a BLM specialist to assist you. It would be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation equipment to ensure that it meets BLM objectives. Upon conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a specialist to inspect the location to verify work was completed as per approved plans.

5. The approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been reestablished. If the BLM objectives have not been met the operator will be notified and corrective actions may be required.

6. It is the responsibility of the operator to monitor these locations and/or access roads until such time as the operator feels that the BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the BLM objectives have been met submit a Final Abandonment Notice (FAN), Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.

7. At this time the BLM specialist will inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability of the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos
Supervisory Petroleum Engineering Tech/Environmental Protection Specialist
575-234-5909 (Office), 575-361-2648 (Cell)

Arthur Arias
Environmental Protection Specialist
575-234-6230

Crisha Morgan
Environmental Protection Specialist
575-234-5987

Jose Martinez-Colon
Environmental Protection Specialist
575-234-5951

Mark Mattozzi
Environmental Protection Specialist
575-234-5713

Robert Duenas
Environmental Protection Specialist
575-234-2229

Doris Lauger Martinez
Environmental Protection Specialist
575-234-5926

Jaden Johnston
Environmental Protection Asst. (Intern)
575-234-6252

Sundry ID **2747756**

Plug Type	Top	Bottom	Length	Tag	Sacks	Cement Class	Notes
Surface Plug	0.00	100.00	100.00	Tag/Verify			
Shoe Plug	395.50	500.00	104.50	Tag/Verify			
Top of Salt @ 1080	1019.20	1130.00	110.80	Tag/Verify	267.00	C	Perforate and squeeze from 1130' to surface. (In 115 sxs/Out 152 sxs) Verify at surface across all casing.
Base of Salt @ 2549	2473.51	2599.00	125.49	Tag/Verify			
Yates @ 2679	2602.21	2729.00	126.79	If solid			
DV tool plug	2784.37	2913.00	128.63	Tag/Verify			
Capitan Reef @ 2973	2893.27	3023.00	129.73	If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations	130.00	C	Perforate and squeeze from 3023' to 2473'. WOC and Tag. (In 56 sxs/Out 74 sxs)
Shoe Plug	4157.50	4300.00	142.50	Tag/Verify	34.00	C	Perforate and squeeze from 4300' to 4157'. WOC and Tag. (In 15 sxs/Out 19 sxs)
Casing Patch @ 4426	4331.74	4476.00	144.26	If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations	15.00	C	Spot cement from 4476' to 4331'. WOC and Tag.
Delaware @ 4820	4721.80	4870.00	148.20	If solid			

Perforations Plug (If No CIBP)	4806.94	4956.00	149.06	Tag/Verify	25.00	C	Spot cement from 4956' to 4806'. WOC and Tag.
CIBP Plug	5650.00	5685.00	35.00	If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations	25.00	C	Set CIBP at 5685'. Spot 25 sxs on top. Leak test CIBP.
Perforations Plug (If No CIBP)	5670.22	5828.00	157.78	Tag/Verify			
Perforations Plug (If No CIBP)	6404.80	6570.00	165.20	Tag/Verify			
Shoe Plug	6533.50	6700.00	166.50	Tag/Verify			

No more than 2000' is to be allowed between plugs in open hole, and no more than 3000' between plugs in cased hole.
Class H >7500'
Class C<7500'
Fluid used to mix the cement in R111P shall be saturated with the salts common to the section penetrated, and in suitable proportions, but not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.

Medium, Secretary: Top of salt to surface If no salt take the deepest fresh water or Karst Depth

High, Critical: Bottom of Karst to surface or Deepest fresh water, whichever is greater
R111P: 50 Feet from Base of Salt to surface.

Class C: 1.32 ft^3/sx
Class H: 1.06 ft^3/sx

Onshore Order 2.III.G Drilling Abandonment Requirements: "All formations bearing usable-quality water, oil, gas, or geothermal resources, and/or a prospectively valuable deposit of minerals shall be protected.

Cave Karst/Potash Cement	**Low**		
Shoe @	**450.00**		
Shoe @	**4250.00**		
Shoe @	**6650.00**	**TOC @**	**4235.00**
Perforatons Top @	**6490.00**	**Perforations**	**6520.00**
Perforatons Top @	**4892.00**	**Perforations**	**4906.00**
Perforatons Top @	**5735.00**	**Perforations**	**5778.00**
DV Tool @	**2863.00**	**CIBP @**	**5685.00**

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SHACKELFORD OIL CO 11417 W County Rd 33 Midland, TX 79707	OGRID: 20595
	Action Number: 452488
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
loren.diede	This well was plugged and abandonded September 2023 without notification to or approval by NMOCD. This submission is approved, however NMOCD may evaluate this P&A for enforcement at it's descretion.	5/6/2025