

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NM0175774 **103 234**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
SHACKELFORD OIL COMPANY

3a. Address
17417 W COUNTY RD 33
MIDLAND, TX 79707

3b. Phone No. (include area code)
(432) 682-9784

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2410 FSL & 330 FWL SEC 21 T19S R32E

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.
MOBIL FEDERAL #7

9. API Well No.
30-025-33548

10. Field and Pool or Exploratory Area

11. Country or Parish, State
LEA COUNTY, NM

HOBBS OCD

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE THE TYPE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Change Plans
	<input type="checkbox"/> Convert to Injection
	<input type="checkbox"/> Deepen Well
	<input type="checkbox"/> New Construction
	<input checked="" type="checkbox"/> Plug and Abandon
	<input type="checkbox"/> Plug Back
	<input type="checkbox"/> Production (Start/Resume)
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Water Disposal
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Well Integrity
	<input type="checkbox"/> Other

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RECEIVED

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

- 1.) SET CIBP AT 2565' PUMP 25 SXS OF CLASS C CEMENT
- 2.) TAG CEMENT AND PRESSURE TEST CASING TO 500 PSI
- 3.) PUMP 25 SXS PLUG AT 509' - 738' WOC TAG
- 4.) MIX 10 SXS CIRCULATE TO SURFACE FROM 60' - **Perforat 738' attempt to sqz cmt to 509' woc + Tag**
- 5.) DIG OUT AND CUT OFF WELL HEAD BELOW GROUND LEVEL. WELD BELOW GROUND LEVEL DRY HOLE MARKER TO CASING
- 6.) RECLAIM LOCATION AND SEED

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

LRC COAS Attached

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
Brady Shackelford

Title **CFO**

Signature *[Signature]* Date **6/12/19**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by **[Signature]** Title **SPE** Date **6/21/19**

Office **CFO**

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.

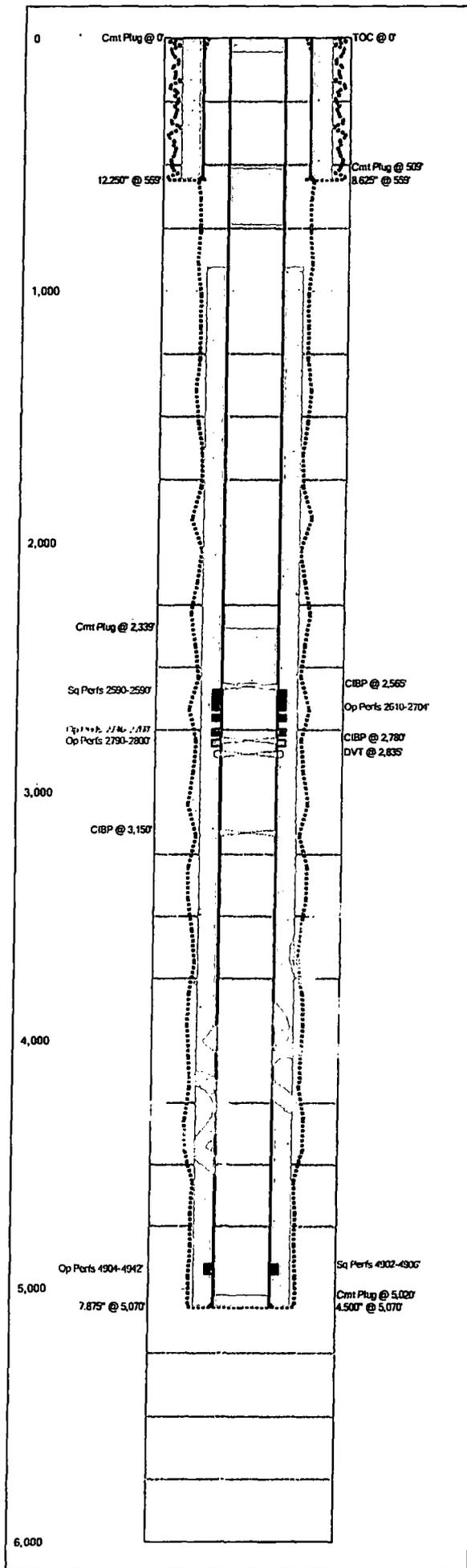
(Instructions on page 2)

XZ NMOC D

FOR RECORD ONLY

7-11-19

Last Updated: 6/11/2019 03:05 PM



Field Name	Lease Name	Well No.
Mobil	Mobil Federal	7
County	State	API No.
Lea	New Mexico	30025335480000

Version	Version Tag			
2	PROPOSED			
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
2410	FSL	330	FWL	
Prop Num	Spud Date	Comp. Date		

Additional Information			
PLUG & ABANDON			
Other 1	Other 2	Other 3	Other 4

Prepared By	Updated By	Last Updated
Shackelford	Shackelford	6/11/2019 3:05 PM

Hole Summary				
Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	12.250	0	559	
	7.875	0	5,070	

Tubular Summary						
Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
	Casing	8.625	23.00		0	559
	Production Casing	4.500	10.50		0	5,070

Casing Cement Summary						
C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
			8.625	0	559	CIRCULATED
			4.500	900	5,070	CBL

Tool Problems Summary					
Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
	CIBP	4.500	0.000	2,565	
	CIBP	4.500	0.000	2,780	
	DVT	4.500	0.000	2,835	
	CIBP	4.500	0.000	3,150	

Cement Plug Summary					
Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	10	4.500	0	60	
	25	4.500	509	738	
	25	4.500	2,339	2,565	
		4.500	5,020	5,070	

Perforation Summary						
C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	Shots
		Squeezed		2,590	2,590	
	9/28/1998	Open		2,610	2,704	
		Open	YATES	2,746	2,760	
		Open	SEVEN RIVERS	2,790	2,800	
	8/22/1996	Squeezed		4,902	4,906	
	8/20/1996	Open		4,904	4,942	

Top of Salt ~ 750
 Base of Salt - 2353
 YFS - 2589
 Del - 4713

Last Updated: 6/11/2019 03:05 PM

Field Name		Lease Name		Well No.	County	State	API No.
Mobil		Mobil Federal		7	Lea	New Mexico	30025335480000
Version	Version Tag			Spud Date	Comp. Date	GL (ft)	KB (ft)
2	PROPOSED						
Section	Township/Block	Range/Survey	Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From
21	19S	32E	2,410	FSL	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	
06/11/2019 3:05 PM			Shackelford			Shackelford	

Additional Information

PLUG & ABANDON

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	12.250	0	559	
	7.875	0	5,070	

Tubular Summary

Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)	Comments
	Surface Casing		8.625	23.00		0	559	
	Production Casing		4.500	10.50		0	5,070	

Casing Cement Summary

C	Date	No. Sx	Yield (ft ³ /sk)	Vol. (ft ³)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
			1.00		8.625	0	559		CIRCULAR
			1.00		4.500	900	5,070		CBL

Tools/Problems Summary

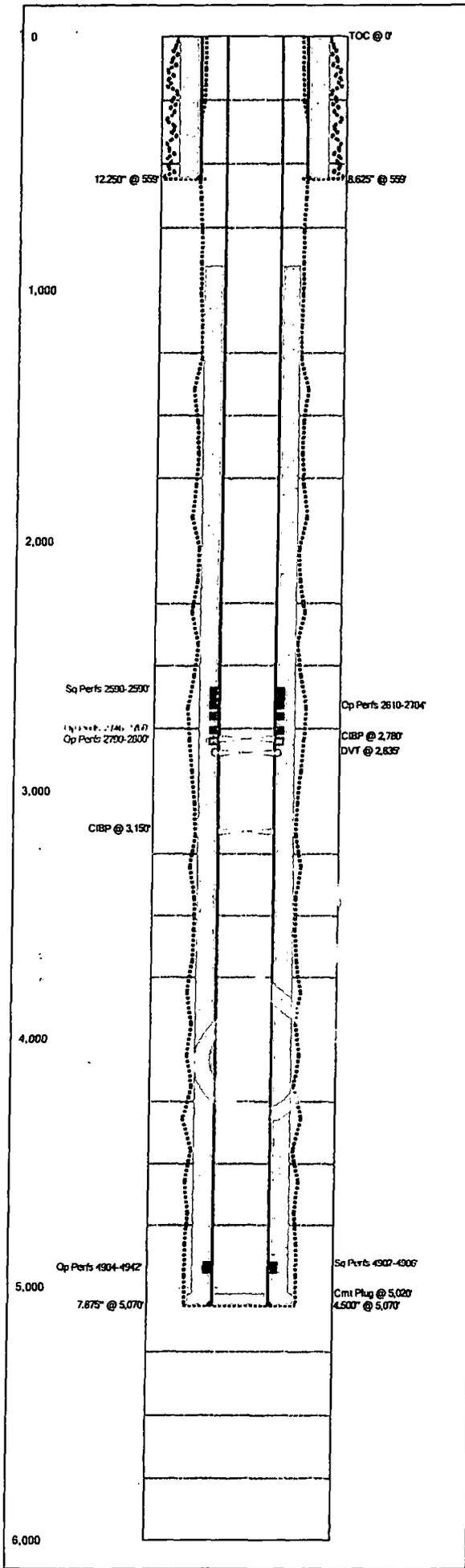
Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	Cast Iron Bridge Plug	4.500	0.000	2,565			
	Cast Iron Bridge Plug	4.500	0.000	2,780			
	DV tool	4.500	0.000	2,835	0		
	Cast Iron Bridge Plug	4.500	0.000	3,110			

Cement Plug Summary

Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	10	4.500	0	60	
	25	4.500	509	738	
	25	4.500	2,339	2,565	
		4.500	5,020	5,070	

Perforation Summary

C	Date	Perf. Status	Formation	Comments
		Squeezed		10 shots
			SPF	Shots
		Top (MD ft)	Bottom (MD ft)	Phasing (deg)
		2,590	2,590	
				Interval Comments
C	Date	Perf. Status	Formation	Comments
	8/22/1996	Squeezed		
			SPF	Shots
		Top (MD ft)	Bottom (MD ft)	Phasing (deg)
		4,902	4,902	
				Interval Comments
C	Date	Perf. Status	Formation	Comments
	9/28/1998	Open		
			SPF	Shots
		Top (MD ft)	Bottom (MD ft)	Phasing (deg)
		2,610	2,613	
		2,640	2,670	
		2,690	2,704	
				Interval Comments
C	Date	Perf. Status	Formation	Comments
		Open	YATES	
			SPF	Shots
		Top (MD ft)	Bottom (MD ft)	Phasing (deg)
		2,746	2,760	
				Interval Comments
C	Date	Perf. Status	Formation	Comments
		Open	SEVEN RIVERS	
			SPF	Shots
		Top (MD ft)	Bottom (MD ft)	Phasing (deg)
		2,790	2,800	
				Interval Comments
C	Date	Perf. Status	Formation	Comments
	8/20/1998	Open		
			SPF	Shots
		Top (MD ft)	Bottom (MD ft)	Phasing (deg)
		4,904	4,942	
				Interval Comments



Field Name		Lease Name		Well No.
Mobil		Mobil Federal		7
County		State		API No.
Lea		New Mexico		30025335480000
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
2410	FSL	330	FWL	
Prop Num		Spud Date		Comp. Date

Additional Information

Other 1	Other 2	Other 3	Other 4
Prepared By		Updated By	Last Updated
Shackelford		Shackelford	6/11/2019 3:02 PM

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	12.250	0	559	
	7.875	0	5,070	

Tubular Summary

Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
	Surface Casing	8.625	23.00		0	559
	Production Casing	4.500	10.50		0	5,070

Casing Cement Summary

Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
		8.625	0	559	CIRCULATED
		4.500	900	5,070	CBL

Tool Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
	CIBP	4.500	0.000	2,780	
	DVT	4.500	0.000	2,835	
	CIBP	4.500	0.000	3,150	

Cement Plug Summary

Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
		8.625	5,020	5,070	

Perforation Summary

Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	Shots
	Squeezed		2,590	2,590	
9/28/1998	Open		2,610	2,704	
	Open	YATES	2,746	2,760	
	Open	SEVEN RIVERS	2,790	2,800	
8/22/1996	Squeezed		4,902	4,906	
8/20/1996	Open		4,904	4,942	

Last Updated: 6/11/2019 03:02 PM

Field Name		Lease Name		Well No.	County	State	API No.
Mobil		Mobil Federal		7	Lea	New Mexico	3002533548000
Version	Version Tag			Spud Date	Comp. Date	GL (ft)	KB (ft)
1	Current						
Section	Township/Block	Range/Survey	Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From
21	19S	32E	2,410	FSL	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		
06/11/2019 3:02 PM			Shackelford		Shackelford		
Additional Information							

Hole Summary				
Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	12.250	0	559	
	7.875	0	5,070	

Tubular Summary								
Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)	Comments
	Surface Casing		8.625	23.00		0	559	
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C	Date	No. Sx	Yield (ft ³ /sk)	Vol. (ft ³)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
			1.00		8.625	0	559		CIRCULATED
			1.00		4.500	900	5,070		CBL

Tools/Problems Summary								
Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments	
	Cast Iron Bridge Plug	4.500	0.000	2,780				
	DV tool	4.500	0.000	2,835	0			
	Cast Iron Bridge Plug	4.500	0.000	3,150	0			

Cement Plug Summary					
Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
		8.625	5,020	5,070	

Perforation Summary								
C	Date	Perf. Status	Formation			Comments		
		Squeezed	100' x					
			Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
			2,590	2,590				
C	8/22/1998	Squeezed	SEVEN RIVERS					
			Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
			4,902	4,902				
C	9/28/1998	Open	SEVEN RIVERS					
			Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
			2,610	2,613				
			2,640	2,670				
			2,690	2,704				
C		Open	YATES					
			Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
			2,746	2,760				
C		Open	SEVEN RIVERS					
			Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
			2,790	2,800				
C	8/20/1998	Open	SEVEN RIVERS					
			Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
			4,904	4,942				

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 575-393-3612.

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.

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