

Form 3160-5  
(June 2015)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018**HOBBS OCD**  
**AUG 28 2019**  
**RECEIVED****GENERAL INSTRUCTIONS**  
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMLC070335
2. Name of Operator SHACKELFORD OIL CO.		6. If Indian, Allottee or Tribe Name
3a. Address 11417 W COUNTY RD 33 MIDLAND, TX 79707		7. If Unit of CA/Agreement, Name and/or No.
3b. Phone No. (include area code) (432) 682-9784		8. Well Name and No. LOOMIS FEDERAL #1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1980 FNL & 1980 FWL SEC 23 T20S R33E		9. API Well No. 30-025-01760
		10. Field and Pool or Exploratory Area TEAS YATES
		11. Country or Parish, State LEA COUNTY, NM

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE 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"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 recomplete 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.)

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

SEE ATTACHED

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) BRADY SHACKELFORD		CFO	
Signature <i>BR</i>		Date 07/26/2019	
<b>THE SPACE FOR FEDERAL OR STATE OFFICE USE</b>			
Approved by <i>W. Wells</i>		Title SPE	Date 8/2/19
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		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

8-27-19

SUBJECT TO LIKE  
APPROVAL BY BLM

FOR RECORD ONLY

#### Proposed Procedures for Plugging Loomis #1

1. Set packer above patch at 2340' pump 120 sxs Class C cement. Wait on cement for 4 hours. Tag top of cement at 2340'
2. Set balanced plug from 2340' to 1425', pump 100 sxs. Wait on cement for 4 hours. Tag top of cement.
3. Perforate at 350' mix 40 sxs circulate to surface
4. Dig out and cut off wellhead below ground level. Weld dry hole marker below ground level
5. Reclaim location and seed

# Calculation of Cement

1. Open hole 7 7/8" 3390-3416 = 26'

$$\begin{array}{rcl} \frac{.3382 \text{ cuft}}{1 \text{ ft}} & = & \frac{x}{26 \text{ ft}} \\ X & = & 8.7932 \text{ cuft} \end{array}$$

$$5 \frac{1}{2}" 14\# 2340-3390 = 1050'$$

$$\begin{array}{rcl} \frac{.1338 \text{ cuft}}{1 \text{ ft}} & = & \frac{x}{1050 \text{ ft}} \\ X & = & 145.74 \text{ cuft} \end{array}$$

$$\text{Total cuft} \quad \underline{154.53 \text{ cuft}}$$

Class C Cement

$$\text{Cuft/sack} \quad / \quad 1.35$$

$$\text{Total sacks Class C} \quad \underline{114.50} \quad \underline{120 \text{ sacks}}$$

2. 5 1/2" 14# 1425-2340 = 915'

$$\begin{array}{rcl} \frac{.1388 \text{ cuft}}{1 \text{ ft}} & = & \frac{x}{915 \text{ ft}} \\ X & = & 127 \text{ cuft} \end{array}$$

$$\text{Total cuft} \quad \underline{127 \text{ cuft}}$$

Class C Cement

$$\text{Cuft/sack} \quad / \quad 1.35$$

$$\text{Total sacks Class C} \quad \underline{94.07} \quad \underline{100 \text{ sacks}}$$

3. 5 1/2" 14# 0-350 = 350'

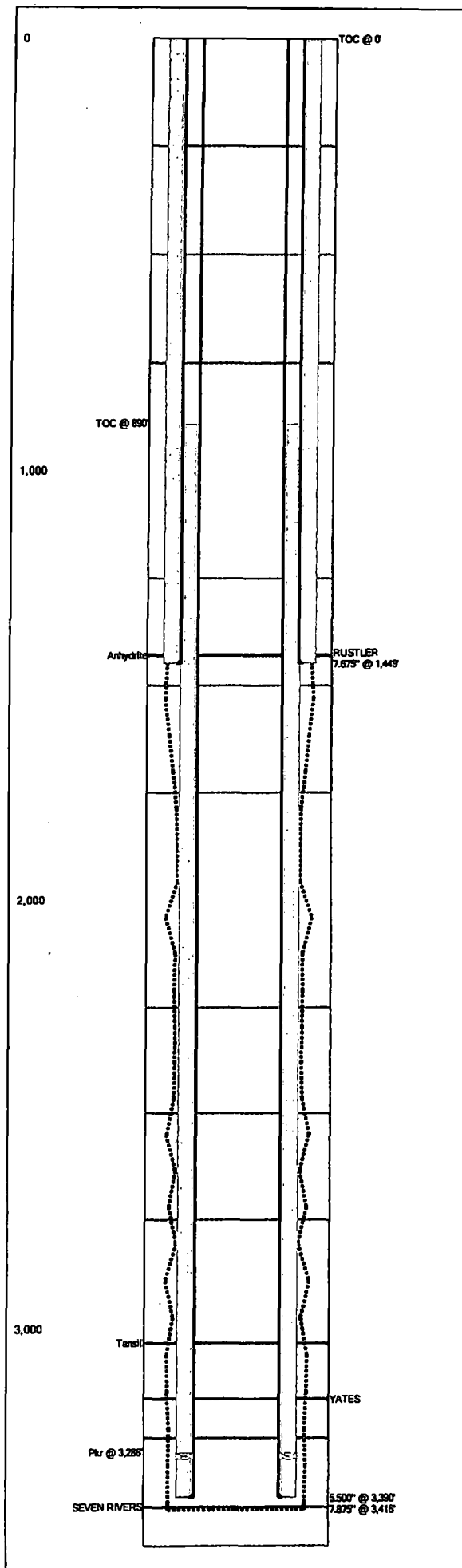
$$\begin{array}{rcl} \frac{.1388 \text{ cuft}}{1 \text{ ft}} & = & \frac{x}{350 \text{ ft}} \\ X & = & 48.58 \text{ cuft} \end{array}$$

$$\text{Total cuft} \quad \underline{48.58 \text{ cuft}}$$

Class C Cement

$$\text{Cuft/sack} \quad / \quad 1.35$$

$$\text{Total sacks Class C} \quad \underline{35.99} \quad \underline{40 \text{ sacks}}$$



Last Updated: 7/23/2019 09:40 AM

Field Name	Lease Name	Well No.
Yates	Loomis Federal	1
County	State	API No.
Lea	New Mexico	30025017600000

Version	Version Tag			
1 Current				
GL (ft)	KB (ft)	Section	Township/Block	Range/Survey
		23	20S	33E

Operator	Well Status	Latitude	Longitude	
Shackelford Oil Company				
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From
1980	FNL	1980	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	7/23/2019 9:40 AM

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	7.675	0	3,416	

Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
	Surface Casing	7.675		J-55	0	1,449
	Production Casing	5.500		J-55	0	3,390

C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
		350	7.675	0	1,449	
		285	5.500	890	3,390	

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
	Pkr	7.675	5.500	3,286	0

Formation	Top (TVD ft)	Comments
RUSTLER	1,428	
Anhydrite	1,430	
Tensil	3,033	
YATES	3,161	
SEVEN RIVERS	3,410	

Last Updated: 7/23/2019 09:40 AM

Field Name		Lease Name		Well No.	County	State	API No.	
Yates		Loomis Federal		1	Lea	New Mexico	30025017600000	
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	
23	20S	33E	1,980	FNL	1,980	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				
07/23/2019 9:40 AM		Shackelford		Shackelford				
Additional Information								

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	7.875	0	3,416	

Tubular Summary

Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)	Comments
	Surface Casing		7.875		J-55	0	1,449	
	Production Casing		5.500		J-55	0	3,390	

Casing Cement Summary

C	Date	No. Sx	Yield (ft <sup>3</sup> /sk)	Vol. (ft <sup>3</sup> )	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
		350	1.00	350	7.875	0	1,449		
		285	1.00	285	5.500	890	3,390		

Tools/Problems Summary

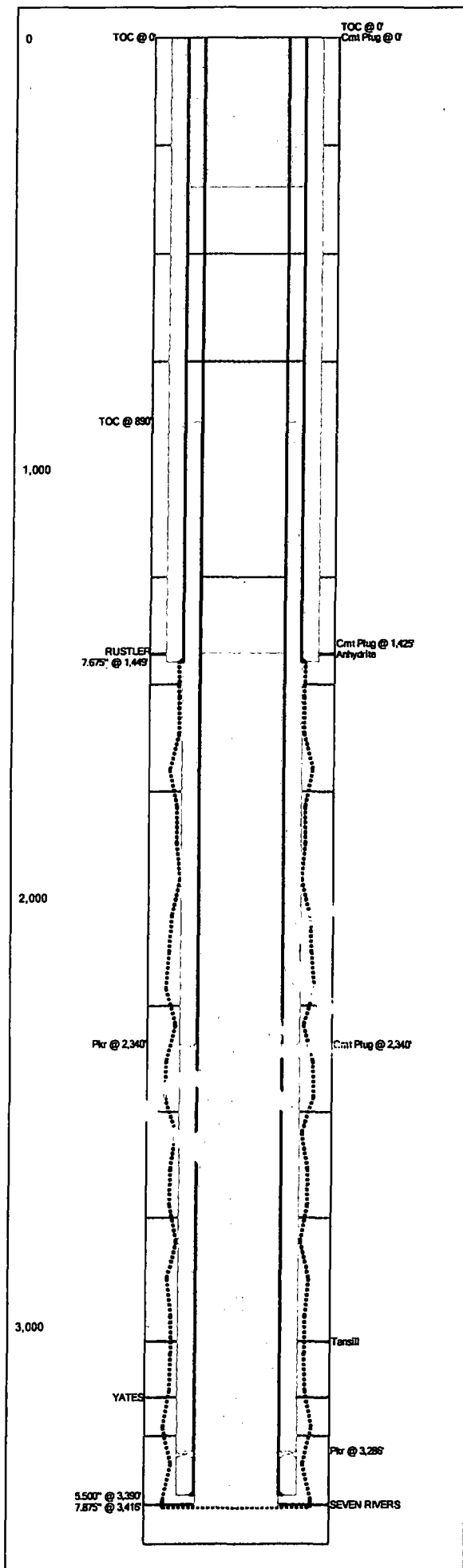
Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	Packer	7.875	5.500	3,286	0	PERMANENT PACKER	

Formation Top Summary

Formation Name	Top(TVD ft)	Comments
RUSTLER	1,428	
Anhydrite	1,430	
Tansill	3,033	
YATES	3,161	
SEVEN RIVERS	3,410	

Well History Summary

Date	Comments
1/1/2016	CASING PATCH @ 2351 - 2600



Last Updated: 7/26/2019 02:02 PM

Field Name		Lease Name		Well No.
Yates		Loomis Federal		1
County		State	API No.	
Lea		New Mexico	30025017600000	
Version	Version Tag			
2 PROPOSED				
GL (ft)	KB (ft)	Section	Township/Block	Range/Survey
		23	20S	33E
Operator		Well Status	Latitude	Longitude
Shackelford Oil Company				
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From
1980 FNL		1980 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	7/26/2019 2:02 PM	

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	7.875	0	3,41	

Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
	Surface casing	7.875		J-55	0	1,449
	Production casing	5.500		J-55	0	3,390

C	Date	No.	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
		35	7.875	0	1,449	
			5.500	0	350	
		35	5.500	890	3,390	

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
	Pkr	7.875	5.500	2,340	0
	Pkr	7.875	5.500	3,286	0

Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	40	5.500	0	350	
	100	5.500	1,425	2,340	BALANCED PLUG
	120	5.500	2,340	3,416	

Formation	Top (TVD ft)	Comments
RUSTLER	1,428	
Anhydrite	1,430	
Tansill	3,033	
YATES	3,161	
SEVEN RIVERS	3,410	

Last Updated: 7/26/2019 02:02 PM

Field Name		Lease Name		Well No.	County	State	API No.	
Yates		Loomis Federal		1	Lea	New Mexico	30025017600000	
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	
23	20S	33E	1,980	FNL	1,980	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			
07/26/2019 2:02 PM		Shackelford			Shackelford			
Additional Information								

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	7.875	0	3,416	

Tubular Summary

Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)	Comments
	Surface Casing		7.675		J-55	0	1,449	
	Production Casing		5.500		J-55	0	3,390	

Casing Cement Summary

C	Date	No. Sx	Yield (ft3/sk)	Vol. (ft3)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
		350	1.00	350	7.675	0	1,449		
			1.00		5.500	0	350		
		285	1.00	285	5.500	890	3,390		

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	Packer	7.875	5.500	2,340			
	Packer	7.875	5.500	3,286		PERMANENT PACKER	

Cement Plug Summary

Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	40	5.500	0	350	
	100	5.500	1,425	2,340	BALANCED PLUG
	120	5.500	2,340	3,416	

Formation Top Summary

Formation Name	Top(TVD ft)	Comments
RUSTLER	1,428	
Anhydrite	1,430	
Tansill	3,033	
YATES	3,161	
SEVEN RIVERS	3,416	

Well History Summary

Date	Comments
1/1/2016	CASING PATCH @ 2351 - 2600

**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 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> 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 10<sup>th</sup> 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 1<sup>st</sup> through June 15<sup>th</sup> 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