

UNITED STATES **Carlsbad Field Office**
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FORM APPROVED
BIA No. 004-0137
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 Signal No.
30-025-30329
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No.
2. Name of Operator SHACKELFORD OIL COMPANY		8. Well Name and No. LUSK WEST DELAWARE UNIT # 902
3a. Address 17417 W COUNTY RD 33 MIDLAND, TX 79707		9. API Well No. 30-025-30329
3b. Phone No. (include area code) (432) 682-9784		10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 990 FNL & 1900 FEL SEC 29 T18S R32E		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"/> Fracture Treat	<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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input 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.)

PLEASE SEE ATTACHED

HOBBS OCD
AUG 22 2019
RECEIVED



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 Petroleum Engineer Date JUL 24 2019
Office Carlsbad Field Office

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.

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.

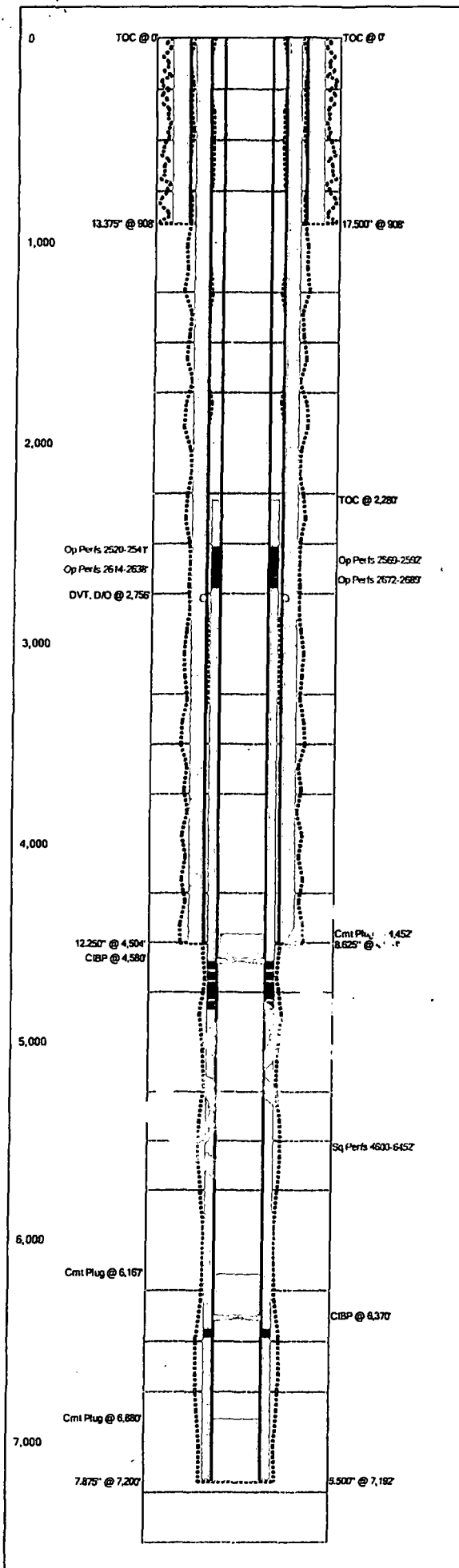
(Instructions on page 2)

[Handwritten initials]

PROPOSED PROCEDURES

- 1.) Set CIBP at 4580'
- 2.) Pump 25 sx plug. Tag top of cement and pressure test for 30 minutes, witness by BLM
- 3.) Perforate Yates as follows:
 - a. 2520 – 2522
2539 – 2541
Set Plug at 2550'
Set Packer at 2500', acidize w/ 2000 gals of acid
 - b. 2569 – 2571
2575 – 2580
2584 – 2586
2587 – 2589
2590 – 2592
Set Plug at 2608'
Set Packer at 2550', acidize w/ 2000 gals of acid
 - c. 2614 – 2622
2630 – 2638
Set Plug at 2650'
Set Packer at 2608', acidize w/ 2000 gals of acid
 - d. 2672 – 2677
2686 – 2689
Set Packer at 2650', acidize w/ 2000 gals of acid
- 4.) Test for production determine whether to frac

Last Updated: 6/12/2019 08:15 AM



Field Name		Lease Name		Well No.
Lusk West Delaware Unit		Lusk West Delaware Unit		902
County		State	API No.	
Lea		New Mexico	30025303290000	
Version	Version Tag			
3	PROPOSED			
GL (ft)	KB (ft)	Section	Township/Block	Range/Survey
		29	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
Prop Num		Spud Date	Comp. Date	

Additional Information
 Updated 01/02/2018
 By Brady Shackelford

Other 1	Other 2	Other 3	Other 4

Prepared By	Updated By	Last Updated
Shackelford	Shackelford	6/12/2019 8:15 AM

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	17.500	0	901	
	12.250	0	4,504	
	7.875	0	7,192	

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	908
	Intermediate Casing	8.625	32.00	J-55	0	4,504
	Production Casing	5.500	15.00	K-55	0	7,192

Casing Cement Summary

Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	722	13.375	0	908	CIRC TO SURFACE
	800	8.625	0	4,504	CIRC TO SURFACE
	800	5.500	2,280	7,192	CEMENT BOND LOG

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	2,756	
	CIBP	5.500	0.000	4,580	
	CIBP	5.500	0.000	6,370	

Cement Plug Summary

Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	25	5.500	4,452	4,580	Pressure test to 500 psi, Witnessed by BLM (Pat McKelvey)
8/22/2014	25	5.500	6,167	6,370	Witnessed by BLM (Pat McKelvey)
8/15/2014	25	5.500	6,880	7,200	

Perforation Summary

C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	Shots
		Open	YATES	2,520	2,541	
		Open	YATES	2,569	2,592	
		Open	YATES	2,614	2,638	
		Open	YATES	2,672	2,689	
		Squeezed		4,600	6,452	81

Last Updated: 6/12/2019 08:15 AM

Field Name		Lease Name		Well No.	County	State	API No.
Lusk West Delaware Unit		Lusk West Delaware Unit		902	Lea	New Mexico	30025303290000
Version	Version Tag			Spud Date	Comp. Date	GL (ft)	KB (ft)
3	PROPOSED						
Section	Township/Block	Range/Survey	Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From
29	19S	32E					
Operator			Well Status		Latitude	Longitude	Prop Num
Shackelford Oil Company							
Other 1		Other 2		Other 3		Other 4	
Last Updated			Prepared By			Updated By	
06/12/2019 8:15 AM			Shackelford			Shackelford	

Additional Information
 Updated 01/02/2018
 By Brady Shackelford

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	17.500	0	908	
	12.250	0	4,504	
	7.875	0	7,200	

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	908	
	Intermediate Casing		8.625	32.00	J-55	0	4,504	
	Production Casing		5.500	15.00	K-55	0	7,192	

Casing Cement Summary

C	Date	No. Sx	Yield (ft ³ /sk)	Vol. (ft ³)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Descript.	Comments
		722	1.00	722	13.375	0	908		C TO SURFACE
		800	1.00	800	8.625	0	4,504		IRC TO SURFACE
		800	1.00	800	5.500	2,280	7,192		CEMENT BOND LOG

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	6		
	Cast Iron Bridge Plug	5.500	0.000	4	30		
	Cast Iron Bridge Plug	5.500	0.000	6	30		

Cement Plug Summary

Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	25	5.500	4,452	4,580	Pressure tested 100 Jpsi, Witnessed by BLM (Pat McKelvey)
8/22/2014	25	5.500	6,167	6,370	Witnessed by BLM (Pat McKelvey)
8/15/2014	25	5.500	6,880	7,200	

Perforation Summary

C	Date	Perf. Status	Formation	Comments			
		Squeezed					
		Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
		4,600	4,600		8		
		4,654	4,660	1	6		
		4,706	4,706	1	8		
		4,722	4,722		8		
		4,750	4,750	1	10		
		4,803	4,803	1	27		
		6,446	6,446	2	14		

Perforation Summary

C	Date	Perf. Status	Formation	Comments			
		Open	YATES	STAGE 4			
		Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
		2,520	2,522				
		2,539	2,541				

Perforation Summary

C	Date	Perf. Status	Formation	Comments			
		Open	YATES	STAGE 3			
		Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
		2,569	2,571				
		2,575	2,580				
		2,584	2,586				
		2,587	2,589				
		2,590	2,592				

Perforation Summary

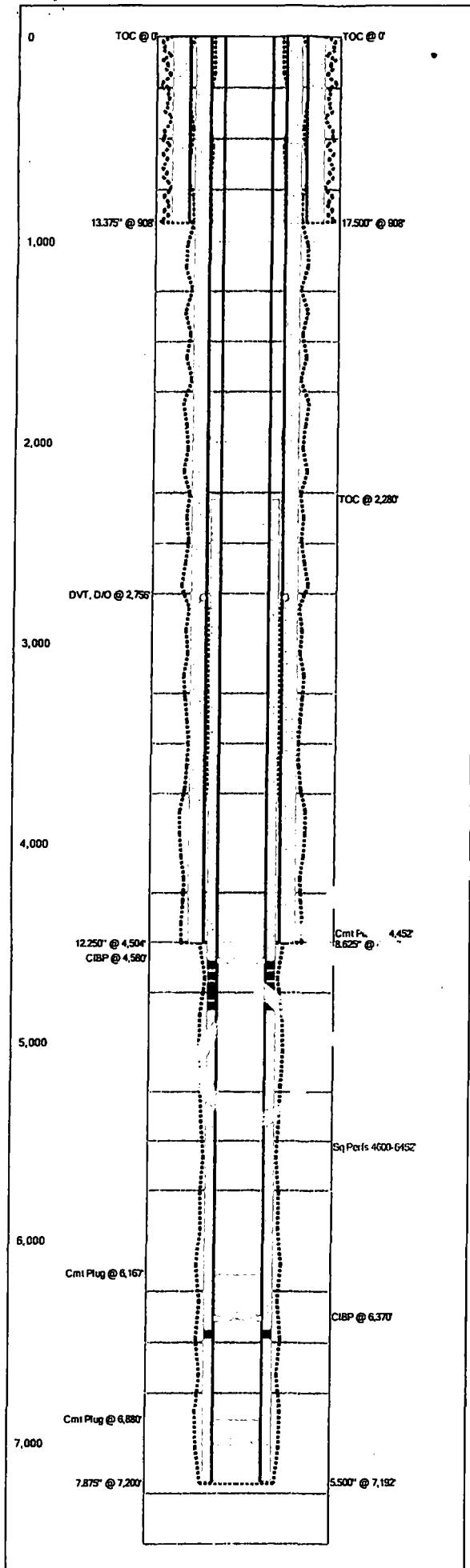
C	Date	Perf. Status	Formation	Comments
		Open	YATES	STAGE 2

Last Updated: 6/12/2019 08:15 AM

C	Date	Perf. Status	Formation			Comments
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	2,614	2,622				
	2,630	2,638				

C	Date	Perf. Status	Formation			Comments
		Open	YATES			STAGE 1
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	2,672	2,677				
	2,686	2,689				

Last Updated: 6/12/2019 08:12 AM



Field Name		Lease Name		Well No.
Lusk West Delaware Unit		Lusk West Delaware Unit		902
County		State		API No.
Lea		New Mexico		30025303290000
Version	Version Tag			
2 Updated Current				
GL (ft)	KB (ft)	Section	Township/Block	Range/Survey
		29	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
Prop Num		Spud Date	Comp. Date	

Additional Information

Updated 01/02/2018
By Brady Shackelford

Other 1	Other 2	Other 3	Other 4

Prepared By: Shackelford
Updated By: Shackelford
Last Updated: 6/12/2019 8:12 AM

Hole Summary

Date	O.D. (in)	Tr (ft)	Bottom (MD ft)	Comments
	17.500	0	908	
	12.25	0	4,504	
	7.875	0	7,200	

Tubular Summary

Date	Description	O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
	Surface	13.375	54.00	J-55	0	908
	Intermediate Casing	8.625	32.00	J-55	0	4,504
	Production Casing	5.500	15.00	K-55	0	7,192

Casing Placement Summary

Date	J. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	722	13.375	0	908	CIRC TO SURFACE
	800	8.625	0	4,504	CIRC TO SURFACE
	800	5.500	2,280	7,192	CEMENT BOND LOG

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	2,756	0
	CIBP	5.500	0.000	4,580	0
	CIBP	5.500	0.000	6,370	0

Cement Plug Summary

Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	25	5.500	4,452	4,580	Pressure test to 500 psi, Witnessed by BLM (Pat Mckelvey)
8/22/2014	25	5.500	6,167	6,370	Witnessed by BLM (Pat Mckelvey)
8/15/2014	25	5.500	6,880	7,200	

Perforation Summary

C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)	Shots
		Squeezed		4,600	6,452	81

Last Updated: 6/12/2019 08:12 AM

Field Name		Lease Name		Well No.	County	State	API No.
Lusk West Delaware Unit		Lusk West Delaware Unit		902	Lea	New Mexico	30025303290000
Version	Version Tag			Spud Date	Comp. Date	GL (ft)	KB (ft)
2	Updated Current						
Section	Township/Block	Range/Survey	Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From
29	19S	32E					
Operator		Well Status		Latitude	Longitude	Prop Num	
Shackelford Oil Company							
Other 1		Other 2		Other 3		Other 4	
Last Updated		Prepared By			Updated By		
06/12/2019 8:12 AM		Shackelford			Shackelford		

Additional Information

Updated 01/02/2018
By Brady Shackelford

Hole Summary

Date	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	17.500	0	908	
	12.250	0	4,504	
	7.875	0	7,200	

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	908	
	Intermediate Casing		8.625	32.00	J-55	0	4,504	
	Production Casing		5.500	15.00	K-55	0	7,192	

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
		722	1.00	722	13.375	0	908		CIRC TO SURFACE
		800	1.00	800	8.625	0	4,504		CIRC TO SURFACE
		800	1.00	800	5.500	2,280	7,192		CEMENT BOND LOG

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	2,750			
	Cast Iron Bridge Plug	5.500	0.000	3,580	0		
	Cast Iron Bridge Plug	5.500	0.000	6,370	0		

Cement Plug Summary

Date	No. Sx	O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	25	5.500	4,452	4,580	Pressure test: 500 psi, Witnessed by BLM (Pat McKelvey)
8/22/2014	25	5.500	6,167	6,370	Witnessed by McKelvey
8/15/2014	25	5.500	6,880	7,200	

Perforation Summary

C	Date	Perf. Status	Formation	Comments	
		Squeezed			
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Chasing (deg)	Interval Comments
4,600	4,580	1	8		
4,654	4,600	1	6		
4,706	4,654	1	8		
4,722	4,730		8		
4,750	4,760	1	10		
4,803	4,830	1	27		
6,446	6,452	2	14		