

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

AUG 17 2009

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

HOBBSOCD

5. Lease Serial No.

NM-01135

6. Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

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

1. Type of Well

☒ Oil Well☐ Gas Well☐ Other

8. Well Name and No.

LUSK "33" FEDERAL # 6

9. API Well No.

30-025-39027

3a. Address TREELINE PARK SUITE 220

SAN ANTONIO, TEXAS 79802

3b. Phone No. (include area code)

210-226-6700

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

700' FNL & 330' FEL- SECTION 33 T19S-R32E LEA CO. NM

Unit-A

10. Field and Pool, or Exploratory Area

EAST LUSK-DELAWARE

11. County or Parish, State

LEA CO. NEW MEXICO

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

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other Perforate zone in upper Delaware

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 recompleat 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Frac/Stimulate

Perforate a zone in the upper Delaware and test for production.

4435-4465

SEE ATTACHED SHEETS FOR DETAIL
SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Joe T. Janica

Title

Permit Eng.

Signature

Date

07/31/09

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

AUG 3 2009

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

WESLEY W. INGRAM
PETROLEUM ENGINEER

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)

General Information

Lease:	SE Lusk 33 Federal	AFE Number:	
Well Number:	6	AFE Frac Cost:	69M
Field:	East Lusk Delaware	AFE Total:	
County:	Lea	WI:	
State:	NM	Section:	33
Rng:	32E	Twp:	19S
Ground Elevation:	3559'	RKB:	
BHT:	111"	BHP (8.65 grad)	.7 psi/ft
Rig Contractor:		Rig Number:	
TD Vertical:	5000	Proposed TD Horizontal:	N/A
API Number:	30-025-39027	Est. Completion Days:	5

Directions to Location (See accompanying map)

From NM:

- Intersection Hwy 243 and CR 126 N on CR 126 3.9 miles
- Turn right on Caliche Rd and go E for 1.1 miles
- At "T" turn right go 1.2 miles
- Turn left to location

Project Overview

To fracture stimulate the Delaware formation from 4434' – 4465'. Well will be turned over to production after cleanout.

Casing Data

13-3/8" SURFACE CASING						
Size	Wt./ft.	Grade	Conn	Top	Bottom	Length
13-3/8"	68	NLS	STC	0'	870'	870'
Casing Details – J55						
ID:	12.415	In		Collapse Rating:	1950 Psi	4.2 SF
Drift:	12.259	In		Burst Rating:	3450 Psi	7.4 SF
Connection OD:	14.375	In		Body Yield:	1069 K-lbs	
MU Torques:	6720	ft-lbs		Joint Strength:	675 K-lbs	11.4 SF

7-5/8" SURFACE CASING						
Size	Wt./ft.	Grade	Conn	Top	Bottom	Length
7-5/8"	26.4	N80	LTC	0'	1719'	1719'
7-5/8"	29.7#	L80	LTC	1719'	4275'	2556'
Casing Details – J55						
ID:	6.969/6.875	In		Collapse Rating:	3400/4790 Psi	1.7 SF
Drift:	6.844/6.750	In		Burst Rating:	6020/6890 Psi	3.1 SF
Connection OD:	8.500	In		Body Yield:	602/683 K-lbs	
MU Torques:	26.4# – 3680/4900/6130 ft-lbs 29.7# – 4250/5670/7090 ft-lbs			Joint Strength:	490/575 K-lbs	4.2 SF

4-1/2" PRODUCTION CASING						
Size	Wt./ft.	Grade	Conn	Top	Bottom	Length
4-1/2"	11.6	N80	LTC	0	5000'	5000'
Casing Details – L80						
ID:	4.000	In		Collapse Rating:	6350 Psi	2.7 SF
Drift:	3.875	In		Burst Rating:	7780 Psi	3.3 SF
Connection OD:	5.000	In		Body Yield:	267 K-lbs	
MU Torques:	2280	ft-lbs		Joint Strength:	223 K-lbs	3.8 SF

DIMENSIONS AND CAPACITIES

STRINGS			
	ID	DRIFT ID	CAPACITIES
4 1/2" 11.6# N80 LTC	4.000	3.875	.0155 bbl/ft 64.34 ft/bbl
2 3/8" 4.7# J55 8rd	1.995	1.908	.00387 bbl/ft 258.65 ft/bbl

SEE ATTACHED SUSPENDED DIAGRAM FOR ADDITIONAL DETAILS

COMPLETION PROCEDURE

Note: Check the pressure on all annuli before starting any work. Record all pressures and include daily pressure readings on every morning report. Bleed off all pressures prior to performing any work.

- 1) MIRU PU. Spot (3) frac tanks. Fill tanks as per attached frac procedure. Kill well if necessary. ND WH. NU BOP. Take well off pump jack. Lock out/tag out unit.
- 2) Unseat pump. POOH w/ rods + pump. Send pump in for repairs. Unset TAC. POOH w/ tbg.
- 3) TIH w/ bit + casing scraper to 100' past perms. Space out scraper to not run into perms. POOH.
- 4) NU frac valve.
- 5) RU Halliburton frac crew and stimulate Delaware zone (4434' – 4465') down 4 ½" casing as per attached frac procedure. Max pressure 5000#. Record ISIP, 5 min, 10 min and 15 min. Record total fluid pumped, proppant, avg rate, avg pressure, max rate and max pressure. RD frac crew.
- 6) Flow back well immediately. If well will not flow.
- 7) PU WS w/ 20 jts 2 3/8" tbg for cavity + hydrostatic bailer + 2 3/8" tbg. RIH and tag for fill. Bail sand and change out cavity as necessary. If well flowing sand, pull up and wait for 1-2 hrs. RIH and continue bailing. POOH.
- 8) Run back in hole with production equipment. ND BOP. NU WH. Start well pumping. RD PU. Turn to production.

APPENDIX

1. Current Wellbore Diagram
2. Frac Design

330' FEL
700' FNL
Sec 33
Twp 19
R32E

PURE ENERGY
SE Lusk 33 Fed #6
Lea County, NM
API: 30-025-39027
Current/Proposed Wellbore

KB: '
GL: 3559'
Surface Location
Lat: 32.622072 N
Long: 103.763161 W

Cement & Casing Details

Conductor Detail (Preset w/ rathole rig)
20" @ 40'
W/
9 sx

Surface Detail
13-3/8" 68# NLS STC @ 885'
W/
Lead: 500 sx 35/65 Poz:C +
6% Bentonite + 2% CaCl₂ + .25 #/sx Celloflake
Tail: 200 sx "C" + 2% CaCl₂

Circ 50 sx

Intermediate Detail
7-5/8" 26.4# N80 LTC @ 0' - 1719'
7-5/8" 29.7# L80 LTC @ 1719' - 4275'
W/
Lead: 1290 sx 50/50 Poz:C + 10% Bentonite + 5% NaCl
+ 1% LCM-1 + .25 #/sx Celloflake
Tail: 200 sx Premium "C"

Perforate @ 2270' and pump 3000 sx "C" + .25% R-38
Circ 200 sx

Production Detail
4-1/2" 11.6# N80 LTC @ 5000'
W/
Lead: 320 sx 50/50 Poz:C + 10% Bentonite
Tail: 150 sx Premium "C" + .62% FL-62

Circ to surface

Perf @ 2270' (4 holes)
Perf @ 2350' (4 holes)
unable to pump into

Rustler @ 835'

Top Salt @ 968'

Bottom Salt @ 2430'

Capitan Reef @ 2700'

Perf @ 4434-65' (2 jsf)

Delaware @ 4700'

WFT RBP @ 4833'
w/ 2 sx sand

Perf @ 4857-62' (3 jsf)

FC @ 4953'

TD 5000'

Production Tbg Detail
1- jt 2 3/8" Mud Anchor @ 4547'
1- jt 2 3/8" Perf Sub
SN @ 4512'
6- jts 2 3/8" tbg
TAC @ 4318'
133- jts 2 3/8" tbg

Rod Detail
2" x 1.5" RHBC pmp
65- 3/4" rods
113- 7/8" rods
1- 7/8 x 8' pony sub
1- 1 1/4" x 26' PR