

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

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.
NMNM01135

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
Apache Corporation (873) /

3a. Address
303 Veterans Airpark Ln., Ste 3000
Midland, TX 79705

3b. Phone No. (include area code)
(432) 818-1015

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

8. Well Name and No.
Southeast Lusk 34 Federal (308904)

9. API Well No.
30-025-36439

10. Field and Pool or Exploratory Area
Lusk: Atoka, SE(G) (96326); Morrow, E(G) (80770)

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

1530' FNL & 40' FWL UL:E Sec:34 T:19S R:32E

11. County or Parish, State
Lea, 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 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 checked="" 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 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat 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.)

Apache would like to plugback the Atoka and Morrow and recompleat in the 2nd & 3rd Bone Spring per the attached procedure.

HOBBS OCD

FEB 19 2014

RECEIVED

<41460>
Lusk Bone Spring South

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Title Regulatory Tech II

Signature

Date 10/09/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

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)

FEB 20 2014

APACHE CORPORATION

8/13/2013

SOUTH LUSK 34 FED #1

COMPLETION PROCEDURE

HOBBS OCD

Casing: 5-1/2", 23 lb/ft, L-80

Tubing:

FEB 19 2014

Burst @ 87.5% = 10,560 psi; 80% = 9700 psi

RECEIVED

KB = 28 ft (AGL) PBTD = 12,710' KB TD = 12,850' KB

1. MIRU Pulling Unit. Load hole with Brine water. RU Coil Unit & POH w/Coil Tubing. Install BOP. PU & TIH W/4-3/4" bit, bit sub and tag CIBP @ 12,950'. POOH. Run CNL-GR-CCL Correlation log PBTD to surface.
2. Plug back Morrow perfs 12,304 – 12,789' with CIBP set at 12,204' with 35' cmt cap if meets BLM guidelines. Load & pressure test casing to 4000 psi for 10 min with 2% Kcl. TOH.
3. RU wireline. Perforate the 3rd Bone Spring zone per log analysis @ 10304, 24, 42, 70, 90, 10404, 20, 38, 48, 62, 74, 88, 10500, 21, 45, 62, 80, 95, 10606, 26, 44, 56, 69, 85 & 98 @ 1JSPF (25 holes) using a charge that generates a .37" - .42" diameter hole with a minimum 21" penetration.
4. TIH with 2 7/8" tubing w/SN & PKR. Spot acid across perfs. PU & set PKR 50' above top perf. Test backside to 1000 psi.
5. Acidize down tbg W/ 5,000 gals of 15% NEFE HCl W/additives using 40 ball sealers to divert evenly spaced throughout job at max rate but not exceeding 5000 psi surface pressure. Rlse PKR & knock balls off perfs. Reset PKR & swab perfs to cleanup. TOH W/tbg & PKR.
6. MIRU frac services. Frac the 3rd Bone Spring dn csg according to vendor recommended procedure. Flow back well until dead. RU reverse unit & swivel. TIH W/4-3/4" bit. CO well to PBTD. TOH.
7. Hydrotest in hole with W/tbg for production as specified by the Artesia office. TIH W/pump & rods as specified by the Artesia office. Production Test 3rd Bone Spring for 4 to 6 months.
8. MIRU and pull production equipment.
9. Run RTBP and set RTBP 50' above top perf in 3rd Bone Spring. Load hole & test RTBP to 3000 psi for 15 mins. Spot acid over 2nd Bone Spring. TOH.
10. RU wireline. Perforate the 2nd Bone Spring zone per log analysis @ 9135, 59, 79, 9202, 17, 38, 48, 63, 82, 97, 9320, 35, 54, 64, 78, 94, 9416, 28, 41, 50, 78, 90, 9507, 28, 46, 58, 88, 9604, 33, 56 & 80' @ 1JSPF (31 holes) using a charge that generates a .37" - .42" diameter hole with a minimum 21" penetration.
11. TIH with 2 7/8" tubing w/SN, Pkr & retrieving head. Set Pkr at 9100'. Test backside to 1000 psi.

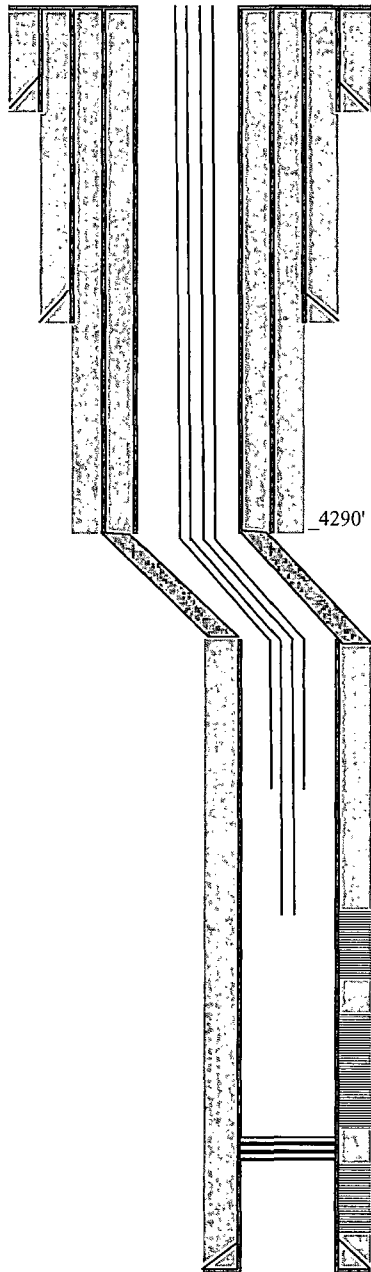
12. Acidize down tbg W/ 15,000 gals of 15% NEFE HCl W/additives using 40 ball sealers to divert evenly spaced throughout job at max rate but not exceeding 5000 psi surface pressure. Flow back immediately.
13. Based on flow back results TOH with Pkr and Acid Frac 2nd Bone Spring down casing if necessary. If not, retrieve BP & TOH with tools. (This 15,000 acid job in the 2nd Bone Spring may communicate with the Lusk 34 Fed. #1H 2nd Bone Spring completion and in that case a Frac on Southeast 34 #1 is not advisable).
14. Hydrotest in hole with W/tbg for production as specified by the Artesia office. TIH W/pump & rods as specified by the Artesia office. Commingle & production test 2nd & 3rd Bone Spring.

Apache Corp.

Current

GROUP:	Permian North	DATE:	Oct. 10, 2013
FIELD:	Lusk (Mariner)	BY:	Lucas Emmett
LEASE/UNIT:	Southeast Lusk 34 Federal	WELL:	#1
COUNTY:	Lea	STATE:	New Mexico
API NUMBER:	30-025-36439		

GL = 3357'



18 5/8" 87.5# J-55 Set @ 870'
CMT W/ 1805 SXS (TOC = SURF)

13 3/8" 68# P-110 Set @ 2540'
CMT W/ 1435 SXS (TOC = SURF)

9 5/8" 43.5# N-80 Set @ 4300'
CMT W/ 1240 SXS (TOC = SURF)

9097'

2 7/8" 4.6# N-80 TUBING @ 9904'

2" (1.688" ID) Coil Tubing @ 12,300'

ATOKA

5/05: 12304'-12314'

MIDDLE MARROW

10/04: 12739'-12741' (4 JSPF)

10/04: 12780'-12789' (4 JSPF)

10/04: CIBP @ 12950'

LOWER MARROW

10/04: 12964'-12984' (4 JSPF)

TD = 13180'

PBD = 12908'

5 1/2" 23# L-80 Set @ 13180'

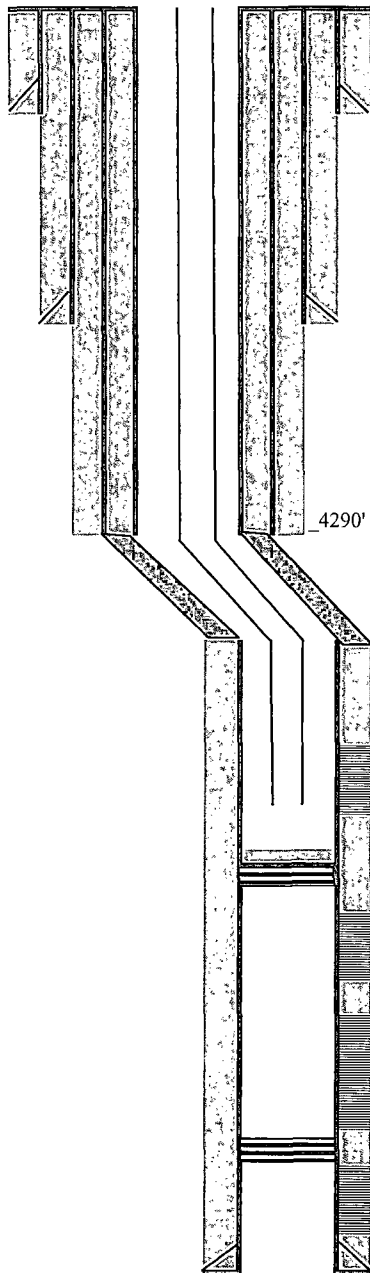
CMT W/ 1680 SXS (TOC = SURF)

Apache Corp.

Proposed

GROUP:	Permian North	DATE:	Oct. 10, 2013
FIELD:	Lusk (Mariner)	BY:	Lucas Emmett
LEASE/UNIT:	Southeast Lusk 34 Federal	WELL:	#1
COUNTY:	Lea	STATE:	New Mexico
API NUMBER:	30-025-36439		

GL = 3357'



18 5/8" 87.5# J-55 Set @ 870'
CMT W/ 1805 SXS (TOC = SURF)

13 3/8" 68# P-110 Set @ 2540'
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9 5/8" 43.5# N-80 Set @ 4300'
CMT W/ 1240 SXS (TOC = SURF)

9097'

2 7/8" 4.6# N-80 TUBING @ 10700'

3rd Bone Springs

Proposed: 10304' - 10698' (1 JSPF) (25 holes)

Proposed: CIBP @ 12,204' w/ 35' cmt cap

ATOKA

5/05: 12304'-12314'

MIDDLE MARROW

10/04: 12739'-12741' (4 JSPF)

10/04: 12780'-12789' (4 JSPF)

10/04: CIBP @ 12950'

LOWER MARROW

10/04: 12964'-12984' (4 JSPF)

TD = 13180'

PBTD = 12908'

5 1/2" 23# L-80 Set @ 13180'

CMT W/ 1680 SXS (TOC = SURF)

**Southeast Lusk 34 Federal 1
30-025-36439
Apache Corporation
January 25, 2014
Conditions of Approval**

Notify BLM at 575-393-3612 a minimum of 24 hours prior to commencing work.

Work to be completed by April 15, 2014.

- 1. Operator shall set a CIBP at 12,689' and place 25 sx Class H cement on top. Tag required.**
- 2. Operator shall set a CIBP at 12,254' and place 25 sx Class H cement on top. Tag required.**
- 3. Operator shall set a balanced Class H cement plug from 10,744'-10,539' to seal the Wolfcamp formation.**
- 4. Must conduct a casing integrity test to max treating pressure before any perforating can be done. Submit results to BLM. The CIT is to be performed on the production casing per Onshore Oil and Gas Order 2.III.B.1.h.**
5. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
6. Surface disturbance beyond the originally approved pad must have prior approval.
7. Closed loop system required.
8. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
9. Operator to have H2S monitoring equipment on location.

10. A minimum of a **5000 (5M) BOP** to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (5M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
11. **Subsequent sundry required detailing work done and completion report for the new formation. Operator to include well bore schematic of current well condition when work is complete.**

JAM 021014