

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOC

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.
NMNM13647

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
CAVE LION 5 FEDERAL BC 1H9. API Well No.
30-025-4408710. Field and Pool or Exploratory Area
JABALINA11. County or Parish, State
LEA COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

MARATHON OIL PERMIAN LLC

Contact: JENNIFER VAN CUREN

E-Mail: jvancuren@marathonoil.com

3a. Address

5555 SAN FELIPE
HOUSTON, TX 77056

3b. Phone No. (include area code)

Ph: 713-296-2500

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

Sec 5 T26S R35E 185FSL 330FWL

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

TYPE OF SUBMISSION

- ☐
- Notice of Intent
-
- ☒
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other |
| <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | Production Start-up |
| <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 recompleate 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 recompleation 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.

MIRU, 12/8/2017 @ 23:30 called BLM and spoke with Doug Staton on intent to spud. Spud 12/10 Drill 17.5" hole from 145' to 1,120'. Circulate hole clean, TOH, L/D BHA. 12/11 Make up shoe track and run 13 3/8" csg, 27 jnts of 54.5# J55 BTC to 1110', WOC, NUWH, bop's, wellhead bowl. Cement casing pump 20 bbls spacer, 638 sks lead cement, 290 sks tail cement with 348 sks cement returned to surface. Notified Steve Caffey with BLM on upcoming BOP test @ 20:30. 12/12 Test casing to 1500 psi for 30 min, 10 psi drop, good test. Hook up gas buster lines to flow line, NU flow line to orbit valve, PU BHA. 12/13 Cleaned out shoe track, perform FIT. Start drilling 12.22" hole section to 5435'. 12/15 - Circulate hole clean, TOOH, LD BHA, pull wear bushing Derrick inspection. Notifie BLM of intent to run and cement 9 5/8" casing Left message with Steve Caffey @ 18:30 pm on 12/15. Run 9 5/8" csg, 130 jnts of 40# J55 BTC to 5423'. 12/16 - Cement 9 5/8" pump 20 bbls spacer, 1249 sks lead cement, 400 sks tail cement with 491 sks cement to surface. Pressured tested casing to 180 psi for 30 min, 20 psi drop, good test. Drill cement & float equipment plus 10' of new formation to

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #405613 verified by the BLM Well Information System
For MARATHON OIL PERMIAN LLC, sent to the Hobbs
Committed to AFMSS for processing by JENNIFER SANCHEZ on 02/28/2018 ()

Name (Printed/Typed) JENNIFER VAN CUREN

Title SR. REGULATORY COMPLIANCE REP

Signature (Electronic Submission)

Date 02/23/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

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

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)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

Additional data for EC transaction #405613 that would not fit on the form

32. Additional remarks, continued

5445'. Circulate, perform FIT. 12/17 - Drill 8.75" hole from 5445' to 9358'. Sweeps and circulate hole clean. Check well flowing, well static. TOOH from 9358' to BHA. Change out motor. 12/18 - Function test blind rams, TIH to 9253'. Relog gamma from 9253' to 9358'. 12/19 - Drill 8.75" hole to 9759'. Trouble shoot rotating head leaking. Replace air line to clamp on bowl assembly. Drill to 11214'. 12/20 - Circulate, TOOH from 11214' to 103'. TIH from 103' to 11164'. Relog gamma from 11164' to 11214'. Drill 8.75" hole to 11214' to 11690'. Start drill curve from 11690' to 11845". Sweep and circulate, flow check (well static). 12/22 - RU and run 7" csg, 278 jnts, 29# P110-CY csg to 11835'. 12/23 - Cement csg, pump 30 bbls spacer, 700 sks lead cement, 335 sks tail cement, no cement to surface. Notify Pat McKelvey and Charles Nimmer with BLM. Allowed to proceed with operations but requested a bond log after rig is moved off but before completions work begins. 12/24 - Pressure test 7" casing to 4382 psi for 30 min, 67 psi drop, good test. Drill curve 10' of new formation. Drill 6 1/8" curve from 11855' to 12850'. 12/26 - Service rig, function upper & lower pipe rams. Drill 6 1/8" lateral to 13165'. Sweep & circulate, TOOH for lateral BHA, TIH. Relog gamma from 13097' to 13165'. Drill 6 1/8" lateral to 17054'. Sweep & circulate clean. Notify BLM P. Flowers of liner run & cementing on 12/29 @ 16:24. 12/30 - run 4.5" casing, 116 jnts, 13.5# P110IC TXP to 17050'. 12/31 - Cement 4.5" casing, pump 30 bbls spacer, 555 sks tail cement with 122 sks cement return to surface. 1/1 - Pressure test liner to 2708 psi for 30 min, held, good test. PU equipment, RDMO. 1/3/2018

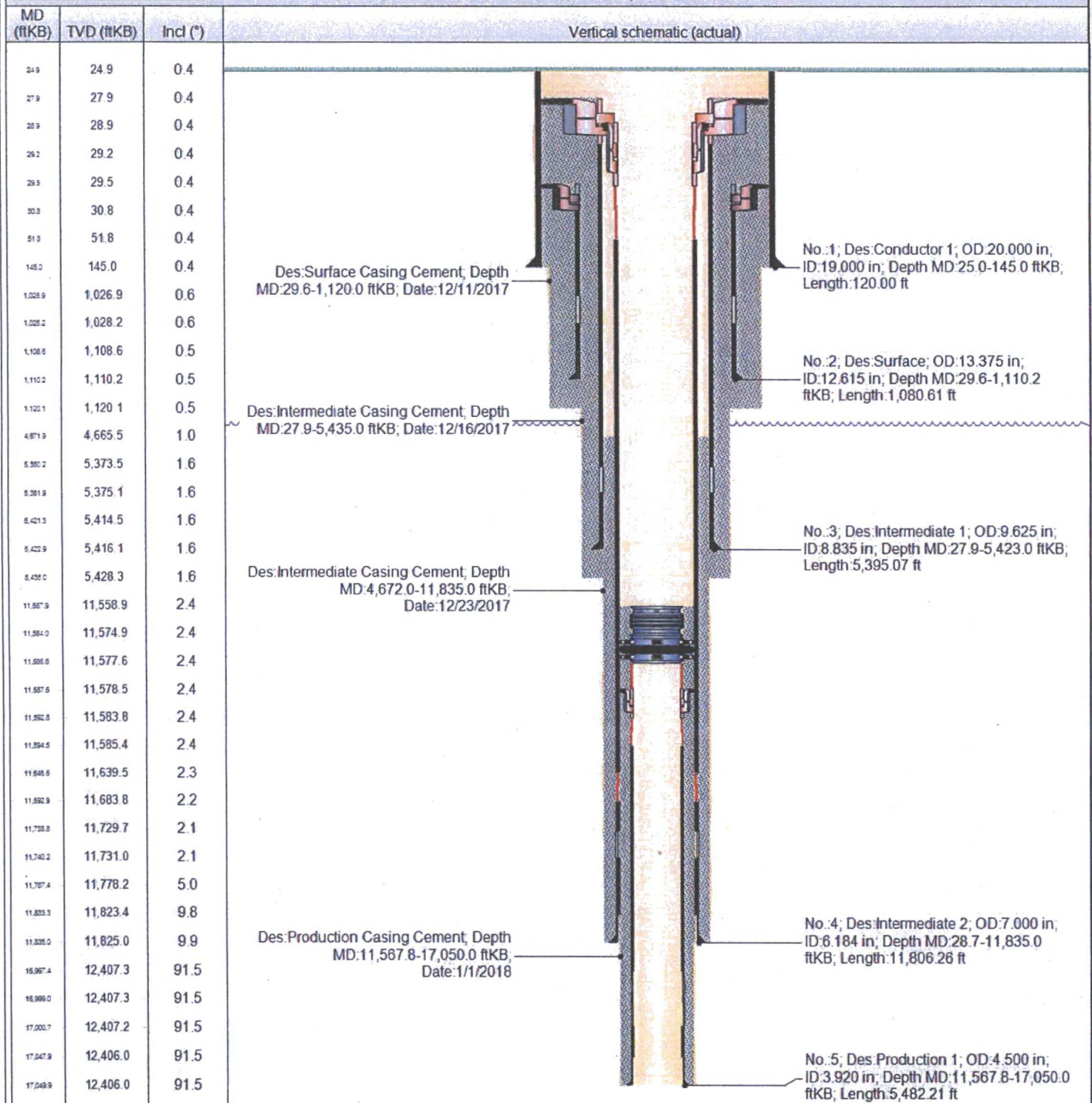


Wellbore Schematic

Well Name: CAVE LION 5 FEDERAL BC 1H

State/Province NEW MEXICO	Prospect Area RED HILLS	Field Name	Well Subtype	Lat/Long Datum NAD27	Latitude (°) 32.065479	Longitude (°) -103.396492
Well Configuration Type HORIZONTAL	Well Objective EXPLOITATION	Well Status COMPLETION	Ground Elevation (ft) 3,271.00	KB-Ground Distance (ft) 25.00		

HORIZONTAL - CAVE LION 5 FEDERAL BC 1H, 2/20/2018 2:06:54 PM



Directions to Well: FROM THE INTERSECTION OF STATE HIGHWAY 128 (EAST KANSAS AVENUE) AND STATE HIGHWAY 18 IN THE CITY OF JAL NEW MEXICO, TRAVEL WEST ON AID STATE HIGHWAY 128 FOR 14.1 MILES TO CONTY RD # 2 (BATTLE AXE ROAD) ON THE LEFT. TRAVEL SOUTHWEST ON BATTLE AXE ROAD FOR 12.3 MILES TO A LEASE ROAD ON THE LEFT. TRAVEL SOUTH ON LEASE ROAD FOR 0.7 MILES ON THE LEFT. TRAVEL EAST ON LEASE ROAD FOR 7.8 MILES TO A LEASE RAD TO THE RIGH. TRAVEL EAST ON LEASE ROAD FOR 0.3 MILES TO PROPOSED WELL 232 FEET ON THE LEFT.

Cave Lion 5 Federal BC 1H - Casing and Cement Operations				
Casing detail	Surface	Intermediate	Production	Liner
Date	12/11/2017	12/15/2017	12/22/2017	12/9/2017
Hole size	17 1/2"	12 1/4"	8 3/4"	6 1/8"
Casing size	13 3/8"	9 5/8"	7"	4 1/2"
Weight	54.5	40	29	13.5
Type	J-55	J-55	P110-CY Blue	P110-IC
Thread	BTC	BTC	Blue	TXP
Depth (MD)	1,110.20	5,423.0'	11,835.0'	17050
Amount jnts	27	130	278	116
Cement detail	Surface	Intermediate	Production	Liner
Date	12/11/2017	12/16/2017	12/23/2017	12/31/2017
Top depth KB	29.6'	27.9'	4,672.0	11,567.8'
Bottom depth KB	1,120.0'	5,435.0'	11,835.0'	17,050.0'
Lead sks	638	1,249	700	
Yield	1.8	1.92	2.81	
WOC to 500 psi	7:51 hrs/min	11:51 hrs/min	6:40 hrs	
Tail sks	290	400	335	555
Yield	1.36	1.33	1.19	1.22
WOC to 500 psi	7:26 hrs/min	5:14 hrs/min	6:40 hrs	17:09 hrs/min
Gel spacer	20 bbl	20 bbl	20 bbls	
Fresh Water Spacer			10 bbls	
Tuned Spacer III				30 bbls
Class	C	C	C	H
Circulate to surface (sks)	348	491	0	122
Top meas. method	Circulate	Circulate	Lift Pressure Calculations	Circulate
TOC	29.6'	27.9'	4,672'	11,567'
Pressure testing	Surface	Intermediate	Production	Liner
Date	12/12/2017	12/16/2017	12/24/2017	1/1/2017
PSI	1500	1800	4382	2708
Time (min)	30	30	30	30
Bled off	0	20	67	0
Drop	0%	1%	2%	0%
Good test	Yes	Yes	Yes	Yes