

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTNMOCD  
HobbsFORM 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 WC 5H9. API Well No.  
30-025-4410210. Field and Pool or Exploratory Area  
HARDEN TANK; WOLFCAMP11. 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 STREET  
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 Mer NMP SWSW 185FSL 480FWL  
32.065600 N Lat, 103.396000 W Lon**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" 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 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 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.

1/12/18 MIRU calfrac, 1/15/18 start frac stages 1-31 with 3 shots per foot for a total of 930 shots  
0.42 in size in the Wolfcamp formation using 11,099,078 lbs of 100 mesh and 40/70 sand. Stimulated  
with 734 bbls of 15% HCl acid. 2/19/18 - opened well to flowback. First oil on 2/19/18. Turned over  
to production.

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

Electronic Submission #407202 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 03/12/2018 ( )

Name (Printed/Typed) JENNIFER VAN CUREN

Title SR. REGULATORY COMPLIANCE REP

Signature (Electronic Submission)

Date 03/09/2018

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By

Title

Date

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 \*\***

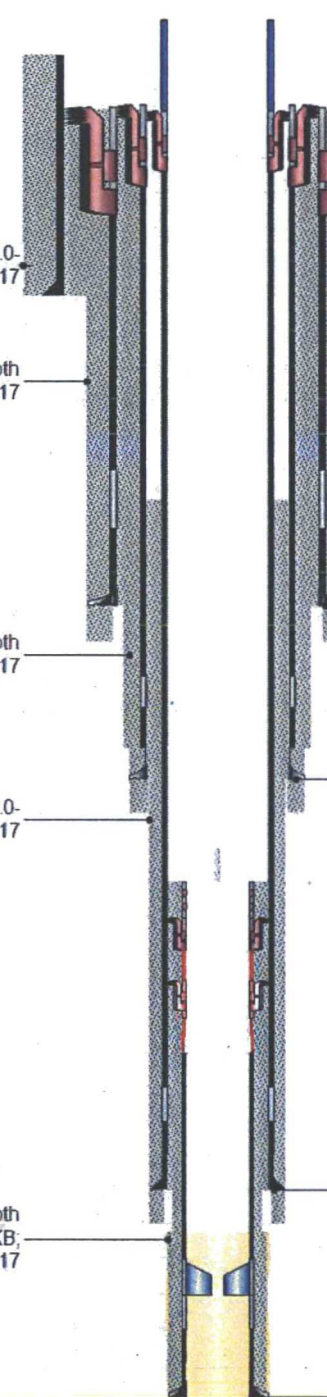


## Wellbore Schematic

Well Name: CAVE LION 5 FEDERAL WC 5H

State/Province NEW MEXICO	Prospect Area RED HILLS	Field Name	Well Subtype	Lat/Long Datum NAD27	Latitude (°) 32.065476	Longitude (°) -103.396008
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 WC 5H BP01, 3/9/2018 9:32:06 AM

MD (ftKB)	TVD (ftKB)	Incl (°)	Vertical schematic (actual)	
-3.3	11,888.9	86.8		<p>No.1; Des: Conductor 1; OD:20.000 in; ID:19.000 in; Depth MD:25.0-145.0 ftKB; Length:120.00 ft</p>
24.9	11,890.5	86.8		
29.2	11,890.7	86.8		
29.5	11,890.7	86.8		
30.2	11,890.8	86.8		
30.5	11,890.8	86.8		
30.8	11,890.8	86.8		
78.1	11,893.3	86.8		
145.0	11,897.2	86.8		
157.3	11,898.4	86.8		
255.5	11,903.5	86.8		
944.5	11,941.8	86.8		
987.9	11,944.2	86.8		
1,000.8	11,946.6	86.8		
1,082.2	11,946.7	86.8		
1,092.5	11,946.7	86.8		
1,078.8	11,949.1	86.8		<p>No.2; Des: Surface; OD:13.375 in; ID:12.515 in; Depth MD:29.4-1,077.4 ftKB; Length:1,048.02 ft</p>
1,077.4	11,949.2	86.8		
1,105.0	11,950.8	86.8		<p>No.3; Des: Intermediate 1; OD:9.625 in; ID:8.835 in; Depth MD:29.4-5,440.0 ftKB; Length:5,410.65 ft</p>
5,390.7	12,190.0	86.8		
5,390.1	12,190.1	86.8		
5,438.3	12,192.7	86.8		
5,440.0	12,192.7	86.8		<p>No.4; Des: Intermediate 2; OD:7.000 in; ID:6.184 in; Depth MD:3.4-11,834.8 ftKB; Length:11,838.24 ft</p>
5,450.1	12,193.3	86.8		
11,524.9	12,532.4	86.8		
11,525.4	12,533.0	86.8		
11,551.8	12,533.9	86.8		<p>No.5; Des: Liner 1; OD:4.500 in; ID:3.920 in; Depth MD:11,535.6-17,266.0 ftKB; Length:5,730.44 ft</p>
11,554.5	12,534.1	86.8		
11,555.4	12,534.1	86.8		
11,560.7	12,534.4	86.8		
11,562.3	12,534.5	86.8		
11,737.9	12,544.3	86.8		
11,738.0	12,544.4	86.8		
11,832.3	12,549.6	86.8		
11,834.5	12,549.7	86.8		
11,839.9	12,550.0	86.8		
17,217.5	12,633.4	86.5		
17,219.2	12,633.5	86.5		
17,220.5	12,633.5	86.6		
17,263.5	12,635.5	88.0		
17,265.1	12,635.6	88.1		

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.



District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code XXXXXX	<sup>3</sup> Pool Name XXXXXXXX
<sup>4</sup> Property Code	<sup>5</sup> Property Name CAVE LION 5 FEDERAL WC	<sup>6</sup> Well Number 5H
<sup>7</sup> OGRID No. 372098	<sup>8</sup> Operator Name MARATHON OIL PERMIAN, LLC	<sup>9</sup> Elevation 3270'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	5	T26S	R35E		185'	SOUTH	480'	WEST	LEA

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	5	T26S	R35E		331'	NORTH	325'	WEST	LEA

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
160			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p><sup>16</sup></p> <p>SECTION 31 SECTION 6 331' 325' 330' 330' 330' 276' 275' 330' 374' 480' SECTION 7 185' 330'</p> <p>T-25-S, R-35-E T-26-S, R-35-E SECTION 32 SECTION 5 SECTION 33 SECTION 4 SECTION 8 SECTION 9</p> <p>LAST TAKE POINT/BHL 17,275' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST Y:393631.07 / X:831349.00 LAT:32.07871162N / LON:103.39699386W NAD 27, SPCS NM EAST Y:393573.35 / X:790161.59 LAT:32.07859546N / LON:103.3965306V</p> <p>FIRST TAKE POINT 12,604' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST Y:389007.89 / X:831445.20 LAT:32.06600203N / LON:103.39681286W NAD 27, SPCS NM EAST Y:388950.30 / X:790257.58 LAT:32.06587580N / LON:103.39635033V</p> <p>SURFACE HOLE LOCATION 185' FSL 480' FWL, SECTION 5 NAD 83, SPCS NM EAST Y:388863.67 / X:831552.64 LAT:32.06560308N / LON:103.39647009W NAD 27, SPCS NM EAST Y:388806.12 / X:790365.00 LAT:32.06547685N / LON:103.39600760W</p> <p>CORNER COORDINATES NAD 83, SPCS NM EAST A - Y: 393959.45 / X: 831020.60 B - Y: 393968.72 / X: 832342.15 C - Y: 388684.41 / X: 832397.11 D - Y: 388675.34 / X: 831074.50</p> <p>CORNER COORDINATES NAD 27, SPCS NM EAST A - Y: 393901.77 / X: 789833.19 B - Y: 393911.83 / X: 791154.72 C - Y: 388626.86 / X: 791209.43 D - Y: 388617.80 / X: 789886.85</p>				<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location, pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Jennifer Van Curen</i> 3/9/2018 Signature Date</p> <p>Jennifer Van Curen Printed Name</p> <p>E-mail Address</p>	
<p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>THIS DOCUMENT IS PRELIMINARY. NOT TO BE USED FOR CONVEYANCE, SALE, BIDDING, RECORDATION, OR AS A BASIS FOR THE ISSUANCE OF A PERMIT.</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>Certificate Number</p>					

NOTE: ALL DIMENSIONS IN U.S. FEET

1 01/05/2018 MWS  
REV. DATE BY