

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTCarlsbad Field Office  
OCD 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. Unit or CA/Agreement, Name and/or No.

**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: ADRIAN COVARRUBIAS

E-Mail: jvancuren@marathonoil.com

## 8. Well Name and No.

CAVE LION 5 WXY FEDERAL 6H

## 9. API Well No.

30-025-45426-00-X1

## 3a. Address

5555 SAN FELIPE STREET  
HOUSTON, TX 77056

## 3b. Phone No. (include area code)

Ph: 713-296-3368

## 10. Field and Pool or Exploratory Area

WOLFCAMP

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

Sec 5 T26S R35E SESW 287FSL 1781FWL  
32.065876 N Lat, 103.392273 W Lon

## 11. County 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 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.

7/3/2019 Started Frac Prep operations. 7/8/2019 start frac stages 1-27 with 3 shots per foot for a total of 648 shots 0.36 in size using 11,844,340 lbs of 100 Mesh and 40/70 sand. Stimulated with 488 bbls of 15% HCl acid. 8/1/2019 opened to flowback. Completed well with hydraulic fracturing treatment and Plug and Perf operations. Total interval from 12732'-17349'. First oil on 8/1/2019. Turned over to production.

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

Electronic Submission #482684 verified by the BLM Well Information System  
For MARATHON OIL PERMIAN LLC, sent to the Hobbs  
Committed to AFMS for processing by PRISCILLA PEREZ on 09/10/2019 (19PP3099SE)

Name (Printed/Typed) ADRIAN COVARRUBIAS

Title CTR - TECHNICIAN HES

Signature (Electronic Submission)

Date 09/10/2019

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

Approved By

Title

Accepted for Record

SEP 12 2019

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.

Jonathon Shepard  
Carlsbad Field Office

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)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

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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 30-025-45426	<sup>2</sup> Pool Code 98117	<sup>3</sup> Pool Name WC-025 G-09 S263504N; WOLFCAMP
<sup>4</sup> Property Code	<sup>5</sup> Property Name CAVE LION 5 WXY FEDERAL	<sup>6</sup> Well Number 6H
<sup>7</sup> OGRID No. 372098	<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC	<sup>9</sup> Elevation 3263'

<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
N	5	T26S	R35E		287	SOUTH	1781	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
C	5	T26S	R35E		101	NORTH	965	WEST	LEA

<sup>12</sup> Dedicated Acres 160.00	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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 A SECTION 32 B</p> <p>SECTION 6</p> <p>965'</p> <p>LAST TAKE/BHL</p> <p>(CROSSING 4) MEASURED DEPTH=16,942'</p> <p>(FARTHEST) MEASURED DEPTH=15,726'</p> <p>1035'</p> <p>(CROSSING 3) MEASURED DEPTH=14,942'</p> <p>330'</p> <p>(CROSSING 2) MEASURED DEPTH=14,442'</p> <p>330'</p> <p>(CROSSING 1) MEASURED DEPTH=13,478'</p> <p>330'</p> <p>(NEAREST) MEASURED DEPTH=12,704'</p> <p>965'</p> <p>965'</p> <p>1781'</p> <p>993'</p> <p>SECTION 6</p> <p>SECTION 7 D SECTION 8 C</p> <p>KOP</p> <p>100'</p> <p>323'</p> <p>287'</p> <p>FIRST TAKE</p> <p>SHL</p> <p>864'</p> <p>SECTION 5</p> <p>SECTION 8</p> <p>CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 831020.60' / Y: 393959.45' B - X: 832342.14' / Y: 393968.72' C - X: 832397.11' / Y: 388684.41' D - X: 831074.50' / Y: 388675.34'</p> <p>CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 789833.20' / Y: 393901.74' B - X: 791154.74' / Y: 393911.00' C - X: 791209.47' / Y: 388626.62' D - X: 789886.87' / Y: 388617.76'</p> <p>T-25-S</p> <p>T-26-S</p> <p>LAST TAKE POINT/BOTTOM HOLE LOCATION 17,503' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X:831986.66 / Y:393864.79' LAT:32.07933880N / LON:103.39492877W NAD 27, SPCS NM EAST X:790799.25' / Y:393807.07' LAT:32.07921262N / LON:103.39446554W</p> <p>FIRST TAKE POINT 12,617' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X:832036.37' / Y:389004.92' LAT:32.06597975N / LON:103.39490475W NAD 27, SPCS NM EAST X:790848.75' / Y:388947.33' LAT:32.06585351N / LON:103.39444228W</p> <p>KICK OFF POINT 11,653' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X:832066.55' / Y:388782.14' LAT:32.06536671N / LON:103.39481358W NAD 27, SPCS NM EAST X:790878.92' / Y:388724.55' LAT:32.06524045N / LON:103.39435116W</p> <p>SURFACE HOLE LOCATION 287' FSL 1781 FWL, SECTION 5 NAD 83, SPCS NM EAST X:832852.39' / Y:388974.69' LAT:32.06587713N / LON:103.39227170W NAD 27, SPCS NM EAST X:791664.75' / Y:388917.09' LAT:32.06575085N / LON:103.39180929W</p>	<p><b>" OPERATOR CERTIFICATION</b></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>[Signature]</i> 9/10/2019 Signature Date</p> <p>Adrian Covarrubias Printed Name</p> <p>E-mail Address</p> <p><b>" SURVEYOR CERTIFICATION</b></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>DATE OF SURVEY Signature and Seal of Professional Surveyor</p> <p>CONVEYANCE DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, SALE OR THE BASIS FOR THE ISSUANCE OF A PERMIT.</p> <p>Certificate Number</p>
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DISTANCES/AREAS RELATIVE TO NAD83 COMBINED SCALE FACTOR: 1.000008454  
CONVERGENCE: 0.4997137472; NOTE: ALL DIMENSIONS IN U.S. FEET

2	06/24/2019	DEF
REV.	DATE	BY

# Wellbore Schematic

Well Name: CAVE LION FEDERAL 5 WXY 006H

State/Province <b>NEW MEXICO</b>	Prospect Area <b>RED HILLS</b>	Field Name <b>HARDIN TANK</b>	Well Subtype <b>NAD27</b>	Latitude (°) <b>32.065759</b>	Longitude (°) <b>-103.381608</b>
Well Configuration Type <b>HORIZONTAL</b>	Well Objective <b>EXPLOITATION</b>	Well Status <b>DRILLING</b>	Ground Elevation (ft) <b>3,263.00</b>	KB-Ground Distance (ft) <b>26.50</b>	

## HORIZONTAL - CAVE LION FEDERAL 5 WXY 6H BP01, 5/17/2019 9:19:34 AM

MD (ftKB)	TVD (ftKB)	Incl (°)	Vertical schematic (actual)
26.6	26.6	0.4	<p>Des: Conductor Cement; Depth MD: 26.5-146.5 ftKB; Date: 12/3/2018</p> <p>Des: Lead; Depth MD: 26.5-780.0 ftKB; Date: 2/13/2019</p> <p>Des: Tail; Depth MD: 780.0-1,126.0 ftKB; Date: 2/13/2019</p> <p>Des: Auto cement plug; Depth MD: 1,084.0-1,126.0 ftKB; Date: 2/13/2019</p> <p>No. 1; Des: Conductor 1; OD: 20.000 in; ID: 19.000 in; Depth MD: 26.5-146.5 ftKB; Length: 120.00 ft</p>
27.9	27.9	0.4	
146.7	146.7	0.4	
779.8	779.8	0.7	
1,084.0	1,083.9	1.1	
1,088.0	1,084.9	1.1	
1,088.6	1,086.6	1.1	
1,124.3	1,124.3	1.2	
1,125.9	1,125.9	1.2	
5,320.7	5,320.7	7.9	
5,321.3	5,321.3	7.9	<p>Des: Intermediate Casing Cement; Depth MD: 26.5-5,420.8 ftKB; Date: 4/10/2019</p> <p>Des: Auto cement plug; Depth MD: 5,378.0-5,420.8 ftKB; Date: 4/10/2019</p> <p>No. 2; Des: Surface; OD: 13.375 in; ID: 12.615 in; Depth MD: 26.5-1,126.0 ftKB; Length: 1,099.50 ft</p>
5,322.6	5,322.6	7.9	
5,361.7	5,361.7	7.7	
5,363.3	5,363.3	7.7	
11,552.1	11,552.1	1.2	
11,573.1	11,573.1	1.3	
11,578.3	11,578.3	1.3	
11,587.8	11,587.8	1.4	
11,588.8	11,588.8	1.4	
11,594.0	11,594.0	1.4	
11,802.3	11,802.3	0.4	<p>Des: Intermediate Casing Cement; Depth MD: 26.5-11,911.3 ftKB; Date: 4/16/2019</p> <p>Des: Auto cement plug; Depth MD: 11,867.0-11,911.3 ftKB; Date: 4/16/2019</p> <p>No. 3; Des: Intermediate 1; OD: 9.625 in; ID: 8.835 in; Depth MD: 26.5-5,420.8 ftKB; Length: 5,394.35 ft</p>
11,803.6	11,803.6	0.4	
11,845.0	11,845.0	0.4	
11,846.6	11,846.6	0.4	
12,535.7	12,535.7	88.7	
12,535.7	12,535.7	88.7	
12,535.7	12,535.7	88.7	
12,536.6	12,536.6	89.2	
12,536.7	12,536.7	89.3	
12,536.7	12,536.7	89.3	
12,537.2	12,537.2	89.4	<p>Des: Liner Cement; Depth MD: 11,616.8-17,460.0 ftKB; Date: 5/5/2019</p> <p>No. 4; Des: Intermediate 2; OD: 7.000 in; ID: 6.184 in; Depth MD: 26.5-11,911.3 ftKB; Length: 11,884.77 ft</p>
12,537.3	12,537.3	89.4	
			No. 5; Des: Production 1; OD: 4.500 in; ID: 3.920 in; Depth MD: 11,616.8-17,460.0 ftKB; Length: 5,843.24 ft

Directions to Well: FROM THE MARATHON OFFICE AT 411 TIDWELL, CARLSBAD, NM, HEAD SOUTH ON TIDWELL ROAD TOWARD US HWY 285N FOR 0.2 MILES.  
 TURN LEFT ONTO US HWY 285S, HEADING SE, FOR 5.1 MILES TO NM HWY 31.  
 TURN LEFT ONTO NM HWY 31, HEADING EAST FOR 7.7 MILES TO NM HWY 128E.  
 TURN RIGHT ONTO NM HWY 128E, HEADING EAST FOR 38.7 MILES TO BATTLE AXE ROAD (COUNTY ROAD 2)...