

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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 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 WA FEDERAL 9H9. API Well No.
30-025-45420-00-X110. Field and Pool or Exploratory Area
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 SESW 287FSL 1841FWL
32.065876 N Lat, 103.392075 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	Drilling Operations
	<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 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.

MIRU. 3/4/2019 ? Notified BLM of intent to spud. 3/5 ? Spud. Drill 17 ?? surface casing from 147? to 975?. Notified BLM of intent to run and cement casing. 3/6 ? Continue drilling 17 ?? casing to 1164?. TOH to BHA. Run 13 3/8? csg, 28 jts, 54.5#, J55, STC to 1154?. Cement casing by pumping 30 bbls of spacer, 725sx of lead cement, and 345sx of tail cement with 519sx of cement to surface. 3/7 - Perform BOP Test. Tested csg to 1500 psi for 30 min, 20 psi drop, good test. 3/8 - Drill shoe track and 10? of new formation to 1074?. Drill 12 ?? section from 1174? to 5455?. 3/9 ? Notified BLM of upcoming casing and cementing job. TOH to BHA. 3/10 ? Run 9 5/8? csg, 122 jts, 40#, J55, LTC to 5441?. Cement csg by pumping 20 bbls spacer, 1305sx lead cement, and 385sx tail cement with 260sx cmt to surface. 3/11 ? Pressure test csg to 3000 psi for 30 min, 60 psi drop, good test. Drill out cement and float equipment and drill 10? of new formation to 5465?. Drill 8 ?? from 5465? to 9651?. 3/13 ? Flow check. Circulate bottoms up. TOH to BHA. TIH from BHA to 9550?. Re log gamma from 9550? to 9651?. 3/14 ? Continue drilling 8 ?? from 9651? to 10195?. Flow check. TOH to BHA.

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

Electronic Submission #470079 verified by the BLM Well Information System
For MARATHON OIL PERMIAN LLC, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 06/21/2019 (19PP2289SE)

Name (Printed/Typed) JENNIFER VAN CUREN

Title SR. REGULATORY COMPLIANCE REP

Signature (Electronic Submission)

Date 06/21/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Accepted for Record

JUL 10 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 **

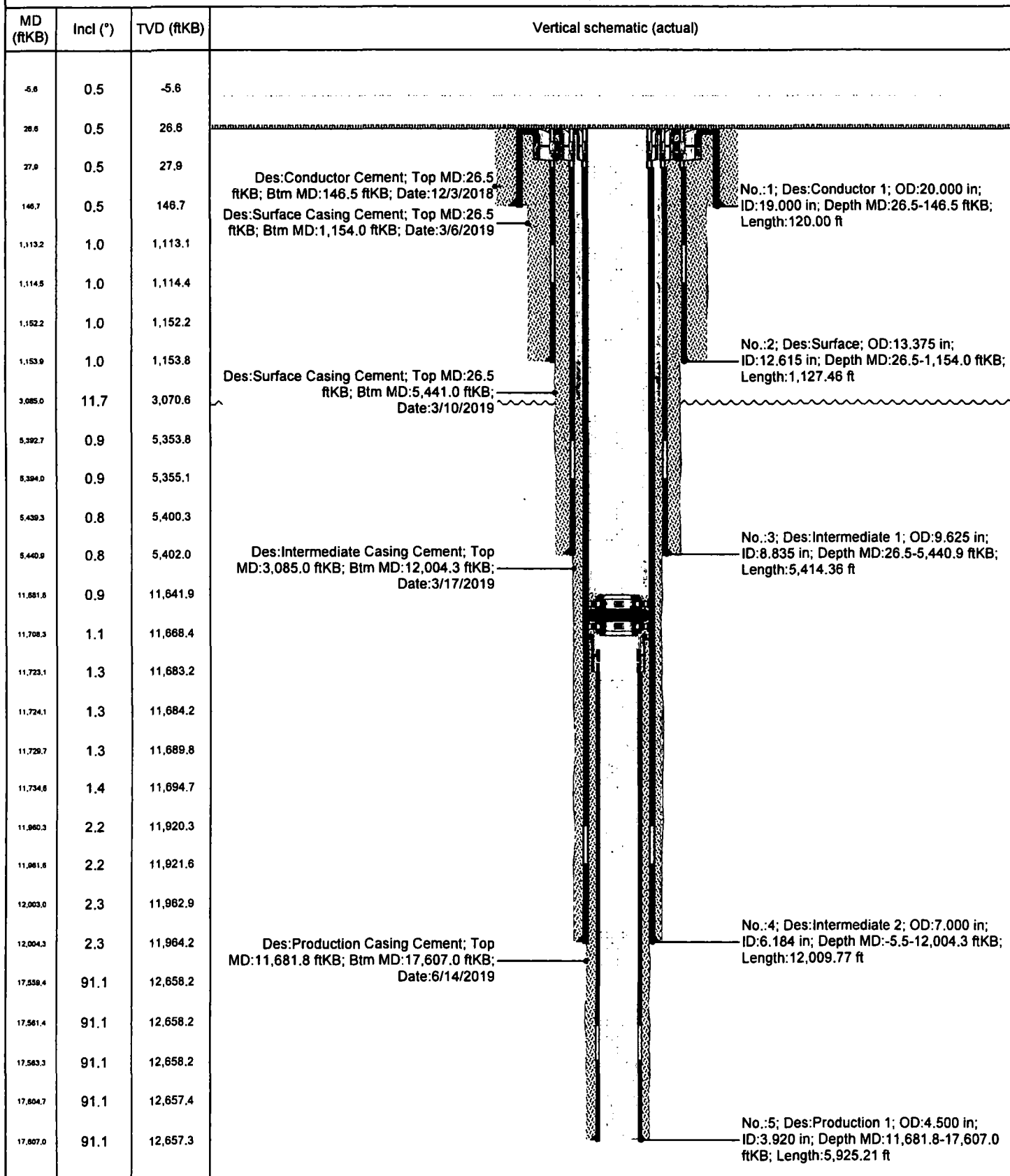
Additional data for EC transaction #470079 that would not fit on the form

32. Additional remarks, continued

TIH to 10195. 3/15 ? Continue drilling 8 ?? from 10195? to 12015?. Flow check and circulate. TOH to BHA. 3/16 Notified BLM of upcoming casing and cement job. Run 7? csg, 290jts, 29#, P110, VA Roughneck to 12004?. 3/17 ? Cement csg by pumping 20 bbls spacer, 780sx lead cement, and 200sx tail cement, with no cement to surface observed. Wash up. RDMO. 6/3 ? MIRU. 6/4 ? Pressure test csg to 6000 psi for 30 min, held, good test. 6/5 ? Drill 6 1/8? vertical section from 12025? to 12240?. Flow check and circulate. TOH to BHA. TIH to 12140 and re log gamma from 12140? to 12240?. Continue drilling 6 1/8? vertical from 12240? to 12917?. 6/7 ? Flow check and circulate. TOH from 12917 to BHA. Lay down 6 1/8? curve assembly. TIH to 12823?. Re log gamma from 12823? to 12917?. Drill 6 1/8? curve from 12917? to 13200?. 6/8 ? Drill 6 1/8? lateral from 13200? to 16629. 6/11 - Flow check. TOH to BHA. 6/12 ? TIH to 16530?. Re-log gamma from 16530? to 16629?. Continue drilling 6 1/8? lateral from 16629? to 17619?. Circulate. 6/13 ? Notified BLM of upcoming liner run and cement job. Run 4 ?? liner, 142jts, 13.5#, P110, VA Roughneck from 11682? to 17607?. 6/15 ? Cement liner by pumping 20 bbls of spacer, 605sx of tail cement, with 128sx of cement to surface. Pressure test liner to 4798 psi for 30 min, held, good test. RDMO.

**Marathon Oil****Wellbore Schematic****Well Name: CAVE LION 5 WA FEDERAL 9H**

State/Province NEW MEXICO	Country UNITED STATES	Field Name HARDIN TANK	Latitude (°) 32.06574930	Longitude (°) -103.39161580	North/South Distance (ft) 287.0	North/South Reference FSL
API/ I/O UWI 3002545420	KB-Ground Distance (ft) 26.50	KB-Mud Line Distance (ft)	Ground Elevation (ft) 3,262.00	Drilling Rig Spud Date 3/5/2019	Well Original Completion Date	Well First Production Date

HORIZONTAL, CAVE LION 5 WA FEDERAL 9H, 6/21/2019 10:37:59 AM

Cave Lion 5 WA Federal 9H				
30-025-45420				
SPUD	TD Reached	Rig Release	Total Depth	Ground Elevation
3/5/2019	6/13/2019	6/18/2019	17619 / 12740	3262
Casing detail	Surface	Intermediate	Production	Liner
Date	3/6/2019	3/10/2019	3/16/2019	6/13/2019
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	J55	J55	P110	P110
Thread	STC	LTC	VA roughneck	VA Roughneck
Top	0	0	0	11682
Depth (MD)	1154	5441	12004	17607
Amount jnts	28	122	290	142
Cement detail	Surface	Intermediate	Production	Liner
Date	3/6/2019	3/10/2019	3/17/2019	6/15/2019
Top depth KB	0	0	3085	11,682
Bottom depth KB	1154	5441	12004	17607
Lead sks	725	1305	780	
Yield	1.73	2.27	3.22	
Tail sks	345	385	200	605
Yield	1.33	1.33	1.17	1.18
WOC to 500 psi		4.5 hrs		
Spacer	30 bbls	20 bbls	20 bbls	20 bbls
Class	C	C	C	H
Circulate to surface (sks)	519	260	0	128
Top meas. method	Circulate	Circulate	Calculations	Circulate
TOC	0	0	3085	11682
Pressure testing	Surface	Intermediate	Production	Liner
Date	3/8/2019	3/11/2019	6/4/2019	6/15/2019
PSI	1500	3000	6000	4798
Time (min)	30	30	30	30
Bled off	20	60	0	0
Drop	1%	2%	0%	0%
Good test	Yes	Yes	Yes	Yes

Cave Lion 5 WA Federal 9H				
30-025-45420				
SPUD	TD Reached	Rig Release	Total Depth	Ground Elevation
3/5/2019	6/13/2019	6/18/2019	17619 / 12740	3262
Casing detail	Surface	Intermediate	Production	Liner
Date	3/6/2019	3/10/2019	3/16/2019	6/13/2019
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
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Cement detail	Surface	Intermediate	Production	Liner
Date	3/6/2019	3/10/2019	3/17/2019	6/15/2019
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Yield	1.33	1.33	1.17	1.18
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Spacer	30 bbls	20 bbls	20 bbls	20 bbls
Class	C	C	C	H
Circulate to surface (sks)	519	260	0	128
Top meas. method	Circulate	Circulate	Calculations	Circulate
TOC	0	0	3085	11682
Pressure testing	Surface	Intermediate	Production	Liner
Date	3/8/2019	3/11/2019	6/4/2019	6/15/2019
PSI	1500	3000	6000	4798
Time (min)	30	30	30	30
Bled off	20	60	0	0
Drop	1%	2%	0%	0%
Good test	Yes	Yes	Yes	Yes