Form 3160-5 (Juna 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR arisbad Field (

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

SUNDRY NOTICES AND REPORTS ON WELLS

abandoned we	is form for proposals to di ii. Use form 3160-3 (APD)	for such propos	ais.		6. If Indian, Allottee or	Tribe Name	
SUBMIT IN	TRIPLICATE - Other instru	ctions on page	OBB	S OC	7. If Unit or CA/Agree	ment, Name and/or No.	
1. Type of Well Gas Well Ot			JUN	F 0 5019	8. Well Name and No. CAVE LION 5 WX	Y FEDERAL 6H	
Name of Operator MARATHON OIL PERMIAN I	Contact: JE LC E-Mail: jvancuren@rr	NNIFER VAN CU narathonoil.com	RENE(EIVE	API Well No. 30-025-45426-0	0-X1	
3a. Address 5555 SAN FELIPE STREET HOUSTON, TX 77056		Bb. Phone No. (includ Ph: 713.296.2500			10. Field and Pool or E WOLFCAMP	Exploratory Area	
4. Location of Well (Footage, Sec., 2	T., R., M., or Survey Description)		-	11. County or Parish, State			
Sec 5 T26S R35E SESW 287 32.065876 N Lat, 103.392273					LEA COUNTY, I	NM	
12. CHECK THE A	PPROPRIATE BOX(ES) TO	O INDICATE NA	TURE O	F NOTICE,	REPORT, OR OTH	ER DATA	
TYPE OF SUBMISSION TYPE OF A				ACTION	CTION		
☐ Notice of Intent	☐ Acidize	□ Deepen		☐ Product	ion (Start/Resume)	■ Water Shut-Off	
_	☐ Alter Casing	☐ Hydraulic I	racturing	☐ Reclama	ation	■ Well Integrity	
Subsequent Report	☐ Casing Repair	☐ New Const		☐ Recomp		Other Drilling Operations	
☐ Final Abandonment Notice	Change Plans	Plug and A			arily Abandon	Diming Operations	
13. Describe Proposed or Completed Op	Convert to Injection	☐ Plug Back	·	☐ Water D			
If the proposal is to deepen direction Attach the Bond under which the wo following completion of the involve testing has been completed. Final A determined that the site is ready for MIRU. 2/9/2019? Notified BL to 1126?. Notified BLM of inte 54.5#, STC to 1126?. 2/13? tail cmt, with 324sx of cmt ret RDMO. 4/7? Test csg to 152 track and 10? of new formatic upcoming csg and cement jol csg by pumping 20bbls space? Pressure test csg to 3055ps formation to 5445?. Drill 8?? 100?. 4/14? Continue drilling Run 7? csg, 287jts, 29#, VA I	ork will be performed or provide the doperations. If the operation result bandonment Notices must be filed final inspection. M of intent to spud. 2/11 ? Sent to run surface scg and ce Cement csg by pumping 30 urned to surface BLM represent for 30min, 47psi drop, con to 1136? 4/8 ? Drill 12 ?? O. 4/10 ? Run 9 5/8? csg, 13 er, 1335sx lead cmt, and 385 is for 30 min, 83psi drop, goof from 5445? to 9904? 4/13 ? 8 ?? from 9904 to 11925. 4 Roughneck to 11911? 4/16	e Bond No. on file wits in a multiple comploal to a multiple complex comploal to a multiple complex comploal to a multiple comploal to a multiple comploal to a	th BLM/BIA etion or reco nents, include urface sec 13.3/8? c 0sx of Tea on during BOPE tea 135?. Notiff C to 54217 22sx cmt 1 22sx cmt 1 TH. R	Required submpletion in a ring reclamation from 12 stg., 28 jts, d.cmt and 3 cmt job., st. Drill shoes jied BLM of Cement 9 to surface. 4 10? new gamming casing	sequent reports must be new interval, a Form 316 n, have been completed a 22? 45sx 5/8? 1/11 na last run.	filed within 30 days 0-4 must be filed once	
Con	Electronic Submission #46	OIL PERMIAN LL	C, sent to to PEREZ or	the Hobbs n 05/20/2019	•	P	
Signature (Electronic	Submission)	Date	05/20/20	019			
	THIS SPACE FOR	FEDERAL OR	STATE	OFFICE U	SE		
Approved By		Title	Acc	cepted f	for Record	NAY 2 2 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.			e	Jonathon Carlsbad F	Shepard		
	 						

Additional data for EC transaction #465896 that would not fit on the form

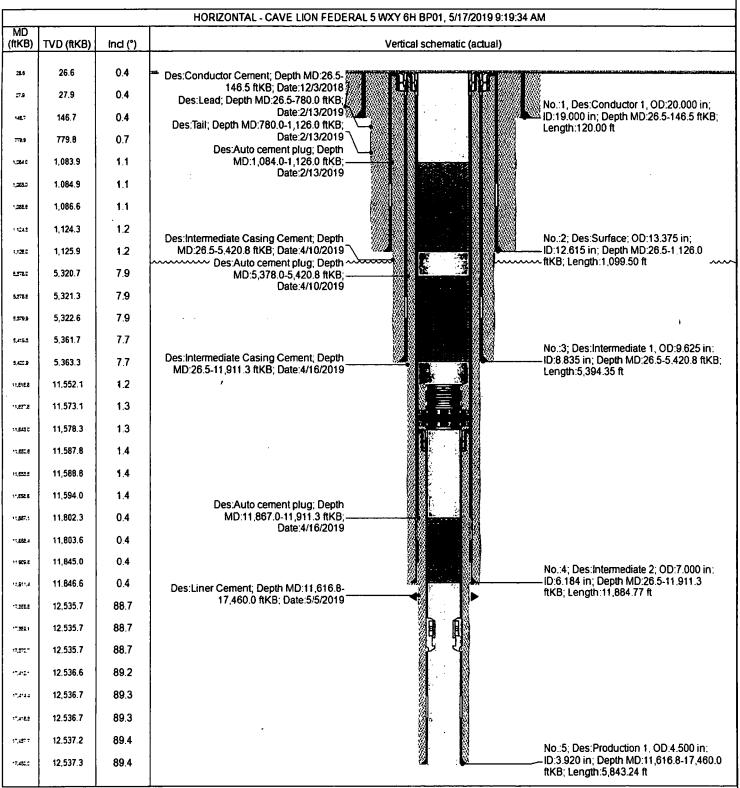
32. Additional remarks, continued

csg by pumping 20bbls spacer, 965sx lead cmt, and 180sx tail cmt, with 244sx of cmt to surface. 4/17? Test csg to 6005psi for 30 min, 74psi drop, good test. 4/18? TIH. Drill cement, shoe track, and 10? new formation to 11935?. Drill 6 1/8? Vertical to 12133?. Drill 6 1/8? curve to 12853?. TOH to BHA. 4/20? TIH. Re log gamma from 12759? to 12853?. Continue drilling 6 1/8? curve from 12853? to 13093?. 4/21? TOH to BHA. Continue drilling 6 1/8? lateral from 13093? to 14907?. 4/22? TOH to BHA. 4/23? TIH and re-log gamma from 14806? to 14907?. 4/25? Continue drilling 6 1/8? lateral from 16159?. Circulate and TOH to BHA. TIH and re log gamma from 16059? to 16159?. 4/26? Continue drilling 6 1/8? lateral from 16159? to 16391?. TOH to 15784?. 4/28? Sidetrack from 15746? to 15761?. Slide from 15761? to 15776? WOB. Drill from 15776? to 15811?. Flow check. Circulate bottoms. TOH to BHA. TIH to 14741?. Re log from 14741? to 14835?. 4/29? Sidetrack from 14836? to 14855?, slide from 14856? to 14868? and drill from 14868? to 14897?. Sidetrack successful. Slide from 14897? to 16391? (complete side track operations). Drill 6 1/8? lateral from 16391 to 17503?. Circulate, TOH to surface. 5/4? Run 4?? csg, 140jts, 13.5#, VA Rougneck to 174602. 5/5? Cement csg by pumping 20 bbsl spacer and 615sx of tail cmt, with 135sx of cmt to surface. Pressure test csg to 3700psi for 30 min, held, good test. RDMO.



Wellbore Schematic Well Name: CAVE LION FEDERAL 5 WXY 006H

State/Province NEW MEXICO	Prospect Area RED HILLS	Fleid Name HARDIN TANK	Well Subtype	Lat/Long Datum NAD27	32.065759	Longitude (*) -103.391808
Well Configuration Type HORIZONTAL	Well Objective EXPLOITATION		Well Status DRILLING		und Elevation (ft) 263.00	KB-Ground Distance (ft) 26.50



Directions to Well: FROM THE MARATHON OFFICE AT 411 TIDWELL, CARLSBAD. NM, HEAD SOUTH ON TIDWELL ROAD TOWARD US HWY 285N FOR 0.2

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)...

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Report Printed: 5/17/2019

CAVE LION 5 WXY FEDERAL 6H						
30-025-45426						
SPUD	TD Reached	Rig Release	Total Depth	Ground Elevation		
2/11/2019	5/2/2019	5/5/2019	17503 / 12590	3263		
Casing detail	Surface	Intermediate	Production	Liner		
Date	2/12/2019	4/10/2019	4/16/2019	5/4/2019		
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		
Туре	J55 ´	J55	P110	P110		
Thread	STC	LTC	VA Rougneck	VA Roughneck		
Тор	0	0	0	11617		
Depth (MD)	1126	5421	11911	17460		
Amount jnts	28	132	287	140		
Cement detail	Surface	Intermediate	Production	Liner		
Date	2/13/2019	4/10/2019	4/16/2019	5/5/2019		
Top depth KB	0	0	0	11617		
Bottom depth KB	1126	5421	11911	17460		
Lead sks	600	1335	965			
Yield	1.73	2.27	2.6			
Tail sks	345	385	180	615		
Yield	1.34	1.33	1.16	1.16		
WOC to 500 psi	11.9 hrs	4.5 hrs	8.1 hrs			
Spacer	30 bbls	20 bbls	20 bbls	20 bbls		
Class	С	С	С	Н		
Circulate to						
surface (sks)	324	422	244	135		
Top meas.						
method	Circulate	Circulate	Circulate	Ciruclate		
TOC	0	0	0	11617		
Pressure testing	Surface	Intermediate	Production	Liner		
Date	4/7/2019	4/11/2019	4/17/2019	5/5/2019		
PSI	1526	3055	6005	3700		
Time (min)	30	30	30	30		
Bled off	47	83	74	. 0		
Drop .	3%	3%	1%	0%		
Good test	Yes	Yes	Yes	Yes		

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