Form 3160-5 (June 2015)

Carlsbad Field Office FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018 **UNITED STATES**

DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

5. Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

NMNM13647

abandoned we	_l	ndian, Allottee o	or Tribe Name		
SUBMIT IN	TRIPLICATE - Other Ins	tructions on page 20BB	3 00 7. If U	nit or CA/Agree	ement, Name and/or No.
1. Type of Well Gas Well Oth	ner	AUG 2 2 Zuis		CAVE LION 5 WC FEDERAL 2H	
Name of Operator MARATHON OIL PERMIAN L	Contact: .LC E-Mail: jvancuren(JENNIFER VAN CUREN @marathonoil.com	9. API	Well No. 025-45421-0	00-X1
3a. Address 5555 SAN FELIPE STREET HOUSTON, TX 77056	_	3b. Phone No. (include arta code) Ph: 713.296.2500		10. Field and Pool or Exploratory Area WOLFCAMP	
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)	11. Co	11. County or Parish, State	
Sec 5 T26S R35E SESW 287FSL 1811FWL 32.065876 N Lat, 103.392174 W Lon				LEA COUNTY, NM	
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICATE NATURE O	NOTICE, REPO	RT, OR OTI	HER DATA
TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	□ Deepen	☐ Production (Sta	rt/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation ☐		■ Well Integrity
Subsequent Report	□ Casing Repair	■ New Construction	□ Recomplete		- Deliker
☐ Final Abandonment Notice	□ Change Plans	Plug and Abandon	☐ Temporarily Abandon ☐ Water Disposal		Drilling Operations
	Convert to Injection	☐ Plug Back			Drilling Openod
following completion of the involved testing has been completed. Final Al determined that the site is ready for f MIRU. 2/28/2019 ? Notified BI Spud. Notified BLM of intent to 3/8? csg, 29 jts, 54.5#, STC to and 260sx tail cmt, with 237sx for 30 min, 50 psi drop, good 1	ally or recomplete horizontally, rk will be performed or provide a operations. If the operation repandonment Notices must be filinal inspection. LM of intent to spud. 3/2 occment csg. Drill 17-?? o 11912. Cement csg by a cofficient returned to surfactest. Perform BOPE test.	give subsurface locations and measure the Bond No. on file with BLM/BIA sults in a multiple completion or recover of the subsurface and requirements, including the subsurface section from 147? to 10 pumping 30 bbls of spacer, 68 pe. RDMO. 3/28 ? MIRU. Test	red and true vertical deg. Required subsequent medicion in a new intering reclamation, have b casing. 3/3? 200? Run 13. 55x of lead cmt, csg to 1550 psi ormation to	pths of all pertir reports must be val, a Form 316	nent markers and zones. e filed within 30 days 50-4 must be filed once
Run 9.5/8? csg, 132 jts, 40#, 1265sx lead cmt, and 360sx to for 30 min, 30 psi drop, good from 5445? to 9766?. 4/1 ? To from 9766? to 10978?. 4/3 ? To from 9766?	J55, LTC to 5419?. Ceme all cmt, with 358sx cmt to test. Drill shoe track and ' DH to BHA. TIH. 4/2 - Re FOH to BHA. 4/4 ? TIH ar	opcoming casing and cernent ent 9 5/8? csg by pumping 20 the surface. 3/31? Pressure test 10? new formation to 5445?. D log gamma from 9650? to 976 and re-log gamma from 10880? of upcoming csg run and ceme	oblis spacer, csg to 3210psi rill 8 ?? 66?. Drill 8 ?? csg to 10978?. Continu	ie –	

14. I hereby certify the	For MARATHO	N OIL PERM i AN LLC.	BLM Well Information System sent to the Hobbs PEREZ on 06/04/2019 (19PP2089SE)	
Name (Printed/Typ	ped) JENNIFER VAN CUREN	Title	SR. REGULATORY COMPLIANCE RE	:P
Signature	(Electronic Submission)	Date	06/04/2019	
	THIS SPACE FO	R FEDERAL OR	STATE OFFICE USE	
Approved By		Title	Accepted for Record	AUG 0 6 201

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

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.

Office

Additional data for EC transaction #467457 that would not fit on the form

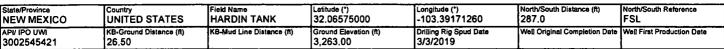
32. Additional remarks, continued

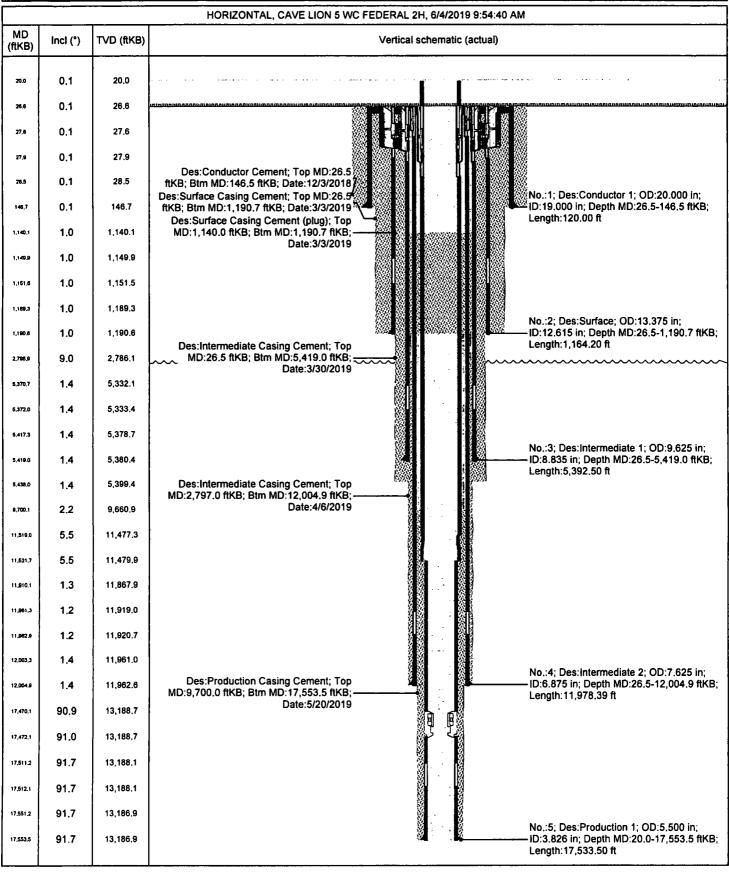
BHA. 4/6? Run 7? csg, 302jts, 29#, TMK UP Ultra to 12005?. Cement csg by pumping 20 bbsl spacer, 1020sx lead cmt, 190sx tail cmt, no cemet to surface observed. RDMO. 5/6? MIRU. Test csg to 6359 psi for 30 min, 47 psi drop, good test. 5/7? Drill shoe track and 10? of new formation to 12030?. Drill 6 1/8? vertical from 12030? to 12711?. Flow check and circulate. TOH to 111?. Re-log gamma from 12598? to 12711?. 5/8? Continue drilling 6 1/8? vertical from 12711? to 12736? (KOP). Drill 6 1/8? curve from 12736? to 13509?. 5/9? TOH to 111? and TIH to 13415?. Re-log gamma from 13509?. Continue drilling 6 1/8? curve from 13509? to 13622?. Start drilling 6 1/8? lateral from 13622? to 17593?. 5/14? TOH to BHA. 5/18? Notified BLM of upcoming casing run. Run 4 1/2?? 5?? csg with 417jts, 15.1# - 23#, TMK UP BPN 17554?. 5/20? Cement csg by pumping 40 bbls spacer and600sx tail cmt, with no cmt to surface. Pressure test csg to 10000 psi for 30 min, held, good test. RDMO.



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Wellbore Schematic Well Name: CAVE LION 5 WC FEDERAL 2H





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Report Printed: 6/4/2019

CAVE LION 5 WC FEDERAL 2H								
30-025-45421								
SPUD	TD Reached	Rig Release	Total Depth	Ground Elevation				
3/3/2019	5/14/2019	5/20/2019	17593 / 13209	3263				
Casing detail	Surface	Intermediate	Production	Liner				
Date	3/3/2019	3/30/2019	4/6/2019	5/18/2019				
Hole size	17 1/2	12 1/4	8 3/4	6 1/8				
Casing size	13 3/8	9 5/8	7	5 1/2 - 4 1/2				
Weight	54.5	40	29	23 - 15.1				
Туре	J55	J55	P110	P110HC				
Thread	STC	LTC	TMK UP Ultra	TMK UP BPN				
Тор	0	0	0	0				
Depth (MD)	1191	5419	12005	17554				
Amount jnts	29	132	302	417				
Cement detail	Surface	Intermediate	Production	Liner				
Date	3/3/2019	3/30/2019	4/6/2019	5/20/2019				
Top depth KB	0	0	2797	9700				
Bottom depth KB	1191	5419	12005	17554				
Lead sks	685	1265	1020					
Yield	1.73	2.32	2.6					
Tail sks	260	360	190	600				
Yield	1.34	1.33	1.16	1.16				
Spacer	30 bbls	20 bbls	20 bbls	40 bbls				
Class	С	С	С	G/H				
Circulate to								
surface (sks)	237	358	0	0				
Top meas.								
method	Circulate	Circulate	Calculations	Calculations				
тос	0	0	2797	9700				
Pressure testing	Surface	Intermediate	Production	Liner				
Date	3/28/2019	3/31/2019	5/6/2019	5/20/2019				
PSI	1550	3210	6359	10000				
Time (min)	30	30	30	30				
Bled off	50	30	47	0				
Drop	3%	1%	1%	0%				
Good test	Yes	Yes	Yes	Yes				

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