

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELL
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. NM85939
6. If Indian, Allottee or Tribe Name
7. Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

Carlsbad Field Office
OCD Hobbs
RECEIVED
OCT 24 2018

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. COLIBRI FEDERAL 23 32 10 FB 20H
2. Name of Operator MARATHON OIL PERMIAN LLC Contact: JENNIFER VAN CUREN E-Mail: jvancuren@marathonoil.com		9. API Well No. 30-025-42181-00-X1
3a. Address 5555 SAN FELIPE STREET HOUSTON, TX 77056	3b. Phone No. (include area code) Ph: 713.296.2500	10. Field and Pool or Exploratory Area DIAMONDTAIL
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 10 T23S R32E NWNE 0212FNL 2222FEL 32.325860 N Lat, 103.661163 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 Drilling Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<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.

MIRU. 9/20/2018 @ 8:30 CST ? Notified Steven Bailey with BLM of MIRU. 9/24 ? Notified BLM of estimated spud date of 9/26. Spud on 9/26. Drill 17.5? surface from 147 to 1250?. TOH from 1250? to 225?. 9/27 ? Make up shoe track and run 13 3/8? casing, 29 jts, 54.5#, J-55 STC to 1234?. Cement casing by pumping 30 bbls of fresh water spacer, 895sx of lead cement and 235sx tail cement, with 341sx of cement returned to surface. Patrick McKelvey with BLM was present for cement job. 9/28 ? Perform BOP test. Tested casing to 1500 psi for 30 min, 20 psi drop, good test. P/U BHA and TIH to drill out. 9-29 - Drill 12 ?? hole section to 4860?. 10/2 ? Notified Pat McKelvey with BLM of upcoming casing and cement job. Circulate hole clean, Trip out of hole to directional BHA. Make up shoe track and floats. Run 9 5/8? csg, 116 jts, 40#, J55 LTC, shoe set at 4846?, float collar at 4801?. 10/3 ? Cement 9 5/8? csg, pump 20 bbls gel spacer, 1125sx of lead cement, and 320sx of tail cement with 264sx of cement to surface. Patrick McKelvey with BLM was present for cement job. Intermediate casing and cement reports were emailed to Paul Flowers as requested. 10/4 - TIH to

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

**Electronic Submission #440613 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 10/22/2018 (19PP0197SE)**

Name (Printed/Typed) JENNIFER VAN CUREN	Title SR. REGULATORY COMPLIANCE REP
Signature (Electronic Submission)	Date 10/22/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	ACCEPTED FOR RECORD	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 _____	vs/ Jonathon Shepard

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 ****

BUREAU OF LAND MANAGEMENT

KS

Additional data for EC transaction #440613 that would not fit on the form

32. Additional remarks, continued

4750?. Pressure test casing to 2800 psi for 30 min, 97 psi drop, good test. Wash down tag up @ 4801?, Drill shoe track and 10? new formation to 4870?. Circulate, function pipe rams, perform FIT. Drill 8 ?? from 4870? to 8594?. 10/6 ? TOH from 8594? to 5039? monitoring well on trip tanks. TOOH from 4945? to BHA. TIH to 5800. TOH to 4800? filling with FW. TIH from 4800 to 8400?. Survey and re-log from 8400? to 8594?. 10/7 ? Continue drilling 8 ?? from 8594? to 9312?. TOH from 9312? to BHA. TIH from BHA to 9229?. Re-log gammar from 9229? to 9312?. Continue drilling 8 ?? hole from 9,312? to 10307?. TOH from TOC @ 9387? to BHA. TIH from BHA to 10207?. Re-log from 10207? to 10307?. 10/10 ? Continue drilling 8 ?? from 10307? to 13525?. Circulate, TOH from 13606 to 97?. TIH 97? to 13294?. Re-log from 13294? to 13606?. 10/14 ? Continue drilling 8 ?? from 13606? to 14607? (TD). Circulate well, LD drill pipe from 14323? to BHA. 10/16 ? Notified Pat McKelvey with BLM of upcoming 5 ?? casing and cement job. 10/17 ? Run 5 ?? csg, 351 jts, 20# P110 csg to 14589?. Cement csg, pump 30 bbls spacer, 1125sx lead cement, 1420sx tail cement, with 0sx to surface. Pressure test for the 5 ?? csg will be done during completions operations. PU equipment, RDMO 10/18/2018.



COLIBRI FEDERAL 23 32 10 FB 20H

30-025-42181

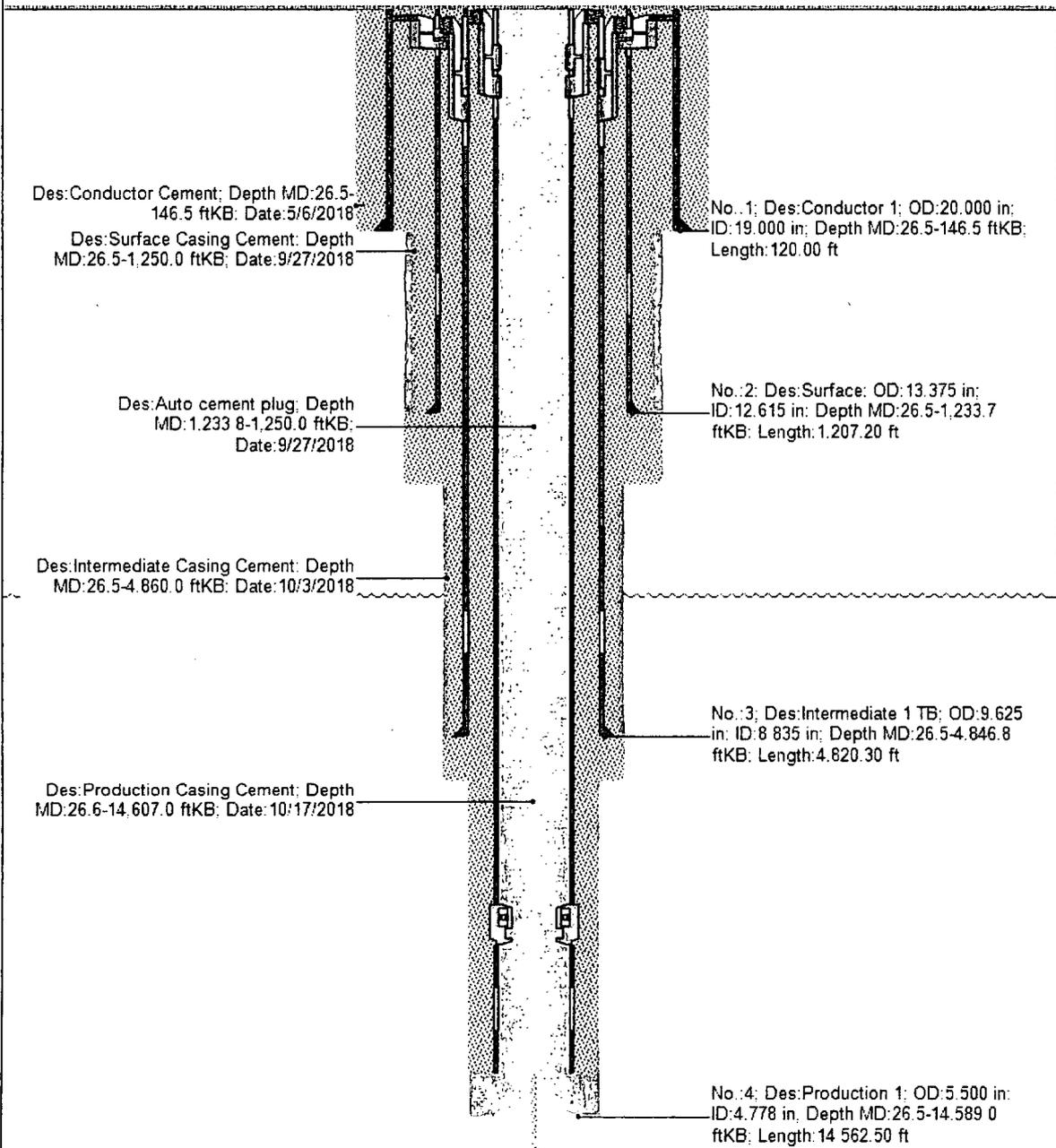
SPUD	TD Reached	Rig Release	Total Depth	Ground Elevation
9/26/2018	10/15/2018	10/18/2018	14589 / 9992	3708
Casing detail	Surface	Intermediate	Production	
Date	9/27/2018	10/3/2018	10/16/2018	
Hole size	17 1/2	12 1/4	8 3/4	
Casing size	13 3/8	9 5/8	5 1/2	
Weight	54.5	40	20	
Type	J55	J55	P110	
Thread	STC	LTC	VA Rougneck	
Top	0	0	0	
Depth (MD)	1234	4847	14589	
Amount jnts	29	116	351	
Cement detail	Surface	Intermediate	Production	
Date	9/27/2018	10/3/2014	10/17/2018	
Top depth KB	0	0	0	
Bottom depth KB	1250	4860	14607	
Lead sks	895	1125	1125	
Yield	1.73	2.21	3.31	
Tail sks	235	320	1420	
Yield	1.34	1.33	1.22	
WOC to 500 psi	9 hrs	18 hrs	10.3 hrs	
Spacer	30 bbls FW	20 bbls FW	30 bbls	
Class	C	C	C	
Circulate to surface (sks)	341	264	0	
Top meas. method	Circulate	Circulate	Calculations	
TOC	0	0	0	
Pressure testing	Surface	Intermediate	Production	
Date	9/29/2018	10/4/2018		
PSI	1500	2800		
Time (min)	30	30		
Bled off	20	97		
Drop	1%	3%		
Good test	Yes	Yes		

Wellbore Schematic

Well Name: COLIBRI FEDERAL 23 32 10 FB 20H

State/Province NEW MEXICO	Prospect Area RED HILLS	Field Name DIAMONDTAIL	Well Subtype	Lat/Long Datum NAD27	Latitude (°) 32.325739	Longitude (°) -103.660702
Well Configuration Type HORIZONTAL	Well Objective EXPLOITATION	Well Status DRILLING	Ground Elevation (ft) 3,708.00	KB-Ground Distance (ft) 26.50		

HORIZONTAL - COLIBRI FEDERAL 23 32 10 FB 20H, 10/22/2018 10:46:53 AM

MD (ftKB)	TVD (ftKB)	Incl (°)	Vertical schematic (actual)
4.6	-5.6	0.0	 <p>Des: Conductor Cement; Depth MD:26.5-146.5 ftKB; Date:5/6/2018</p> <p>Des: Surface Casing Cement; Depth MD:26.5-1,250.0 ftKB; Date:9/27/2018</p> <p>Des: Auto cement plug; Depth MD:1,233.8-1,250.0 ftKB; Date:9/27/2018</p> <p>Des: Intermediate Casing Cement; Depth MD:26.5-4,860.0 ftKB; Date:10/3/2018</p> <p>Des: Production Casing Cement; Depth MD:26.6-14,607.0 ftKB; Date:10/17/2018</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> <p>No.:2; Des: Surface; OD:13.375 in; ID:12.615 in; Depth MD:26.5-1,233.7 ftKB; Length:1,207.20 ft</p> <p>No.:3; Des: Intermediate 1 TB; OD:9.625 in; ID:8.835 in; Depth MD:26.5-4,846.8 ftKB; Length:4,820.30 ft</p> <p>No.:4; Des: Production 1; OD:5.500 in; ID:4.778 in; Depth MD:26.5-14,589.0 ftKB; Length:14,562.50 ft</p>
26.0	26.2	0.0	
26.6	26.6	0.0	
27.6	27.6	0.0	
27.9	27.9	0.0	
28.2	28.2	0.0	
47.6	47.6	0.1	
146.7	146.7	0.2	
1,189.2	1,189.2	0.6	
1,190.6	1,190.6	0.6	
1,232.2	1,232.2	0.7	
1,233.5	1,233.5	0.7	
1,233.9	1,233.9	0.7	
1,249.9	1,249.9	0.8	
1,688.5	1,688.5	1.4	
1,730.1	1,730.1	1.5	
4,799.1	4,799.1	2.4	
4,800.4	4,800.4	2.4	
4,842.0	4,842.0	2.4	
4,844.0	4,844.0	2.4	
4,857.1	4,857.1	2.4	
9,319.9	9,319.9	1.8	
9,340.2	9,340.2	1.8	
9,979.2	9,979.2	91.1	
9,979.2	9,979.2	91.1	
9,978.4	9,978.4	91.1	
9,978.4	9,978.4	91.1	
9,977.6	9,977.6	91.1	
9,977.5	9,977.5	91.1	
9,977.2	9,977.2	91.1	

Directions to Well: BEGINNING AT THE INTERSECTION OF JAL HIGHWAY/ HWY 128 AND AN EXISTING ROAD TO THE NORTHEAST LOCATED IN THE SE 1/4 OF SECTION 1, T24S, R31E, N.M.P.M. PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 5.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE COLIBRI FEDERAL #20H TO THE NORTHWEST F...