

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
Tract 241 - Contract 000154

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P. O. Box #39, Sidney, Nebraska 69162

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
900' FSL, 900' FWL, SW SW, Sec. 34, T. 26N., R. 5W.

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)
All measurements
6541' GL, 6554' KB from KB

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Jicarilla Apache

9. WELL NO.
14

10. FIELD AND POOL, OR WILDCAT
Jicarilla - Basin Dakota & S. Blanco Pictured Cliffs

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 34, T. 26N., R. 5W.

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input checked="" type="checkbox"/> Completing Well	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- 10-10-68 Washed over fish. Pulled wash pipe.
- 10-11-68 Ran fishing sub, screwed into fish and jarred fish loose. Recovered all of fish. One cone missing from bit. Ran 4-3/4" mill and tagged fillup at 7293', cleaned and circulated down to solid bottom at 7300'.
- 10-12-68 Displaced mud in casing with drill pipe. Cleaned water out of casing with supply gas. Well started flowing, let well flow to clean out.
- 10-13-68 Well flowed until 8:00 PM, shut in at 8:00 PM, dried up. Tagged bottom at 7295' with collar locator tool on Schlumberger wire line. Set Baker Model "D" production packer (Model "B" expendable plug in packer) at 7003' with Schlumberger wire line, isolating Dakota. Opened casing and tested Pictured Cliffs flow rate for one hour, 600 MCFD rate at end of hour. Ran 2-7/8" drill pipe to 2921'.
- 10-14-68 Filled casing with water and spotted mud acid over Pictured Cliffs perforations 2865' - 2919', closed casing and pumped total of 1,500 gallons Dowell mud acid into perforations 2865' - 2919' at one BPM, no pressure. Started cleaning out water by blowing with supply gas, well started flowing naturally, shut off supply gas and let gas flow from Pictured Cliffs, dried up.

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

SIGNED John L. Van Cleave TITLE Area Superintendent DATE November 6, 1968

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

NOV 8 1968

*See Instructions on Reverse Side

U. S. GEOLOGICAL SURVEY
WASHINGTON, D. C.

- 10-15-68 Tested Pictured Cliffs gas flow at 6:00 AM - rate of 600 MCFD, back pressure too low to measure. Pulled drill pipe, killed well with water and set retrievable bridge plug at 2938'.
- 10-16-68 Sand-water fractured Pictured Cliffs perforations with 30,000# 10-20 sand, mixed one to 1½# per gallon with fresh water, at 55 BPM, 1,850 psi, down casing. Immediate shut-in pressure - 1,000 psi. Cleaned out water by blowing with supply gas.
- 10-17-68 Shut off supply gas at 8:30 AM, tested flow from Pictured Cliffs for 30 minutes at final stabilized rate of 1,200 MCFD. Pulled drill pipe and ran line to new 500 psi supply gas source. Ran drill pipe back to 2927' and blew well with supply gas to clean out.
- 10-18-68 Shut off supply gas and tested flow from Pictured Cliffs at rate of 1,415 MCFD. Killed well and latched onto retrievable bridge plug, pulled bridge plug - OK. Started in with stinger on drill pipe.
- 10-19-68 Tagged sand fillup at 6947', cleaned sand from 6947' to top of Model "D" packer at 7003', using supply gas to circulate, no water in casing. Pumped 20 barrels water down drill pipe, pushed plug out of Model "D" packer with stinger on bottom of drill pipe. Dakota started flowing, started laying down drill pipe. Float in drill pipe started leaking after 146 joints were pulled, 84 joints remained in hole.
- 10-20-68 Ran collar locator in drill pipe, all joints OK. Set retrievable plug in seating nipple on bottom of drill pipe, flow of gas stopped out of drill pipe. Laid down all drill pipe. Well continued flowing out annulus.
- 10-21-68 Landed following tubing in Model "D" packer for Dakota production; tubing hanger in Rector 9 MCD tubing head. Well flowed out annulus while running tubing, flow decreased after Dakota was shut off when seal assembly was landed in Model "D" packer.

	OVERALL LENGTH	EFFECTIVE LENGTH	FROM	TO
Rector "L883" hanger, 2-3/8 EU, 8rd fem. thread on top and 2-3/8 Seal Lock fem. thread on bottom, threaded BPV & "O" ring neck	0.75	0.75	12.00 KB	12.75
One jt, 2-3/8" OD, 4.60#, Seal Lock, J-55, no coupling, cond 1	31.93	31.71	12.75	44.46
One pup, 2-3/8" OD, 4.60#, Seal Lock, J-55, 2.70" OD coupling, cond 1	10.47	10.25	44.46	54.71
One pup, 2-3/8" OD, 4.60#, Seal Lock, J-55, 2.70" OD coupling, cond 1	6.55	6.33	54.71	61.04
89 jts, 2-3/8" OD, 4.60#, Seal Lock, J-55, 2.70" OD coupling, cond 1	2,817.68	2,797.75	61.04	2,858.79
Seal Lock coupling (2.875" OD) and change nipple (2-3/8 Seal Lock thread X 2-3/8" EU, 8-rd thread)	0.81	0.65	2,858.79	2,859.44

10-21-68 (Continued)

	<u>OVERALL LENGTH</u>	<u>EFFECTIVE LENGTH</u>	<u>FROM</u>	<u>TO</u>
Four Baker Blast joints (20.21', 20.25', 20.21' and 10.08'), 3.062" OD X 1.995" ID, 2-3/8 EU, 8-rd boxes on top, pins on bottom	71.20	70.55	2,859.44	2,929.99
One pup, 2-3/8" OD, 4.70#, 8-rd, J-55, EUE, cond 1	10.18	10.02	2,929.99	2,940.01
130 jts, 2-3/8" OD, 4.70#, 8-rd, J-55, EUE, cond 1	4,053.86	4,032.86	2,940.01	6,972.87
Baker Model "F" non-ported seating nipple, 3.063 OD X 1.81" ID, 2-3/8" EU, 8-rd box on top, pin on bottom	1.09	0.93	6,972.87	6,973.80
Baker Safety Joint (2-3/8, EU, 8-rd box on top, pin on bottom)	1.03	0.87	6,973.80	6,974.67
One jt, 2-3/8 OD, 4.70#, 8-rd, J-55, EUE, cond 1	31.64	31.48	6,974.67	7,006.15
Baker Model "G" locator seal assembly, three seal units, prod. #442-10, 2-3/8 EU, 8-rd box on top, 2-3/8 NU pin on bottom	3.70	3.57	7,006.15	7,009.72
Baker Type "E" full opening non-perforated prod tube, prod #457-04 (pump out plug in bottom of tube, pumped out after tubing was landed)	5.00	5.00	7,009.72	7,014.72
TOTAL:		7,002.72		

Model "D" packer (top of packer) is at 7003' KB by wireline measurement, correlated with casing collars on GammaRay log. Top of Model "D" by tubing measurements is 7006' with 11,000# on tubing to seat locator assembly. Tested all 2-3/8" tubing by Hydrotest method to 4,000 psi - no leaks. Changed rams in BOP, installed offset 1 1/4" rams. Landed following tubing for Pictured Cliffs production, hung tubing in Rector 9 MCD tubing head.

	<u>OVERALL LENGTH</u>	<u>EFFECTIVE LENGTH</u>	<u>FROM</u>	<u>TO</u>
Rector "L883" hanger, 1.660" OD, EU thread fem. on top X 1.660" OD Hydril CS (fem.) thread on bottom, "O" ring neck	0.58	0.58	12.00 KB	12.58
Double pin, 1.660" OD Hydril CS threads	0.50	0.14	12.58	12.72
91 jts, 1.660" OD, 2.40#, Hydril CS, J-55, cond 1	2,820.75	2,804.16	12.72	2,816.88
Baker Model "F" non-ported seating nipple, 1.660" OD Hydril CS box on top & pin on bottom	0.90	0.72	2,816.88	2,817.60
One jt, 1.660" OD, 2.40#, Hydril CS, J-55, cond 1, perforated with 58 3/8" drilled holes, located over 5' from 1' off bottom to 6' off bottom of joint, bull plugged on bottom to catch pump out plug	30.78	30.60	2,817.60	2,848.20 KB
TOTAL:		2,836.20		

Landed tubing at 10:00 PM. Shut off flow by landing hanger in head, permitting removal of BOP. Installed Rector Christmas tree.

10-22-68 Pumped water down both strings of tubing, knocking out pump-out plugs. Dakota plug fell to bottom of hole; Pictured Cliffs plug caught in bottom of anchor joint. Pictured Cliffs started flowing immediately, flowed until 4:30 AM and shut in, dry gas. Dakota remained dead until 5:00 AM, started unloading water at 5:00 AM. Flowed until 7:30 AM, shut in at 7:30 AM, drying up. 1:00 PM shut in pressures: Pictured Cliffs 600 psig, Dakota 2,050 psig. Opened Pictured Cliffs and flowed for 10 minutes, no change in Dakota pressure. No communication between Pictured Cliffs and Dakota. Pictured Cliffs flowed 1½ MMCFD at end of 10 minutes.

Released Signal Rig #4 at 1:00 PM.

10-23-68 Signal moved rig off location. Monarch Construction Company crew laid test lines to clean up and test well.

10-24-68 Tefteller, Inc., started blowing both zones, pretty dry.

10-25-68 Shut in pressures (after being shut in over night): Dakota 2,300 psig, Pictured Cliffs 540 psig.

10-26 to

10-27-68 Shut in.

10-28-68 Flowed Pictured Cliffs and Dakota through tubing, not much water. Shut in.

10-29-68 Shut in.

10-30-68 Pictured Cliffs tubing pressure 590 psi, Dakota tubing pressure 2,460 psi.