

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

Lease Designation and Serial No.

NM-2945

Indian, Aliens or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Marathon Oil Company

3. Address and Telephone No.

P. O. Box 552, Midland, TX 79702 (915) 682-1626

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FSL and 660' FWL
Section 24, T-18-S, R-32-E

5. If Unit or CA, Agreement Designation

6. Well Name and No.

French Federal No. 1

7. API Well No.

30-025-29623

8. Field and Pool, or Exploratory Area

Querecho Plains
(Delaware)

9. County or Parish, State

Lea, NM

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Abandonment

☒ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Well

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

13. 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.)

Marathon Oil Company respectfully requests permission to recompleate from the Querecho Plains (Bone Spring) to the Querecho Plains (Delaware) as outlined:

(See attachment)

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

Signed

Rod J. Prosceno

Rod J. Prosceno

Title Operations Engineer

Date 2/28/92

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

3/16/92

Title 18 U.S.C. Section 1001, makes 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.

*See instruction on Reverse Side.

RECOMPLETION PROCEDURE

FRENCH FEDERAL NO. 1
660' FSL and 660' FWL
Section 24, T-18-S, R-32-E
Lea County, New Mexico

AFE No.: 6174

Date: February 14, 1992

Purpose: Recomplete from the Bone Spring to the Delaware Formation.

Elevation: GL: 3,777' KB: 3,789'
TD: 8,700' PBTD: 3,622

Subsurface Casing: 11-3/4", 42#, H-40, ST&C set @ 350', cmt'd w/725 sx Class
"C" w/2% CaCl. Circ 125 sx to pit.

Intermediate Casing: 8-5/8", 24#, K-55, S-80, ST&C set @ 2,800'
(2,200'/600'). Cmt'd w/1,500 sx lite 3 and 500 sx Class
"C" w/2% CaCl. Circ 200 sx to pit.

Production Casing: 4-1/2", 11.6#/10.5#/11.6#, K-55 ST&C set @ 8,700'
(1,400'/5,300'/2,000'). Cmt'd w/600 sx lite 3 and tailed
in w/180 sx lite 5 (Dowell). Good returns. TOC @ 4,780'.

Perforations: Bone Spring 8,534'-8,544' and 8,561'-8,568' w/1 SPF (19 holes).

Tubing: 2-3/8", 4.7#, N-80 (189 jts), MA 4' perf'd sub, SN, 5 jts, 2-3/8",
N-80, TAC, 184 jts, 2-3/8", N-80, 1 - 10' and 1 - 8', 2-3/8" sub. Set
TAC @ 8,456' w/12,000# tension. Bottom MA @ 8,645', SN @ 8,609'.

Rods: 1 - 2' X 3/4" sub, 237 - 3/4" rods, 103 - 7/8" rods, 1 - 6' x 7/8" sub.

Pressure Data: Static bottom hole pressure - Bone Spring: 1,730 psi
Delaware: 1,600 psi

Safety: Bone Spring: H₂S - 200 PPM
Delaware: H₂S - 1,800 PPM

1. Test safety anchors to 22,500 lbs. MIRU PU.
2. Bleed down pressure from tubing and casing.
3. Install rod stripper. Pull out of hole with rods and pump.
4. Nipple up 6" Series 900 BOPs with 2-3/8" pipe rams.
5. Release TAC and POH w/2-3/8" tubing.
6. RIH w/4-1/2" cup type RBP and 4 stand of 2-3/8" tubing. (Note: Use production string as the workstring.) Set RBP and POH. Load hole w/2% KCl water. Close blind rams and test to 2,000 psi. Open blind rams.
7. RIH w/4-1/2" tension packer and 3 stands of 2-3/8" tubing. Set packer.
8. NU TIW valve on 2-3/8" tubing and close valve. Close pipe rams and test to 2,000 psi. Open pipe rams, ND TIW valve and POH.
9. RIH w/retrieving head on 2-3/8" tubing. Retrieve RBP and POH.
10. Rig up wireline company. RIH w/4-1/2" CIBP on wireline to 8,450'. Get on depth and set CIBP @ 8,450'. POH w/wireline.
11. Run CBL and base gamma ray/temperature log from 5,000' to 7,000'. POH w/wireline tools.
12. RIW w/3-1/8" casing guns and perforate the Delaware from 6,650' to 6,670' w/2 SPF (40 holes). POH and rig down wireline company.

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MAR 19 1992

CD HOBBS CTR

13. RIH w/RTTS and 2-3/8" tubing to 6,670'.
14. Rig up service company. Spot 250 gals of 15% HCl acid. Pull up to 6,550' and reverse 4 barrels. Set packer and slowly pump spot away.
15. Release treating packer and spot acid to top of packer. Set packer and load backside. Pressure up and hold 500 psi on backside. Acidize Delaware with 1,750 gals 15% HCl acid. Flush to bottom perforation @ 6,670'. Rig down service company.
16. Rig up swab and swab test zone. (Note: Record swab test results and evaluate if zone should be fractured.)
17. POH w/4-1/2" treating packer and 2-3/8" tubing.
18. TIH w/2-3/8" tubing open ended to $\pm 6,500'$.
19. Rig up service company. Conduct at least 3 pump-in/flowback tests to determine closure stress as follows:

 Pump 50 bbls of slick water @ 5 BPM for 10 minutes. Open flowback valve and flow well back at a rate of 1 BPM. Record pressure and rates. (Note: Should have 10,000 gals of slick water on location for test.)
20. Fracture stimulate the Delaware with 29,000 gal of delayed borate and 71,000# of 20/40 sand. The last stage of job should be 18,000 of curable resin coated sand. The fracture treatment should be pumped as follows:

VOLUME	PROP CONC.	RATE
10,000 Gals	0 #/Gal	10
2,000	2	13
3,000	3	12
5,000	4	12
4,000	5	12
3,000	6	10
21. Rig down service company. Rig up wireline company. Ran after frac survey. Rig down wireline company. Shut well in over night.
22. Open well up and flow back load. Swab back load if necessary.
23. POH w/2-3/8" tubing. RIH w/2-3/8", 4.7#, N-80 tubing and TAC. Set TAC @ $\pm 6,500'$.
24. ND BOPs. NU wellhead.
25. FIH with a 1.5" pump, 177 - 3/4" and 91 - 7/8" rods (NABLA attached).
26. Hang well on.
27. RDMO PU. Start well pumping and place on test.

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1580, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

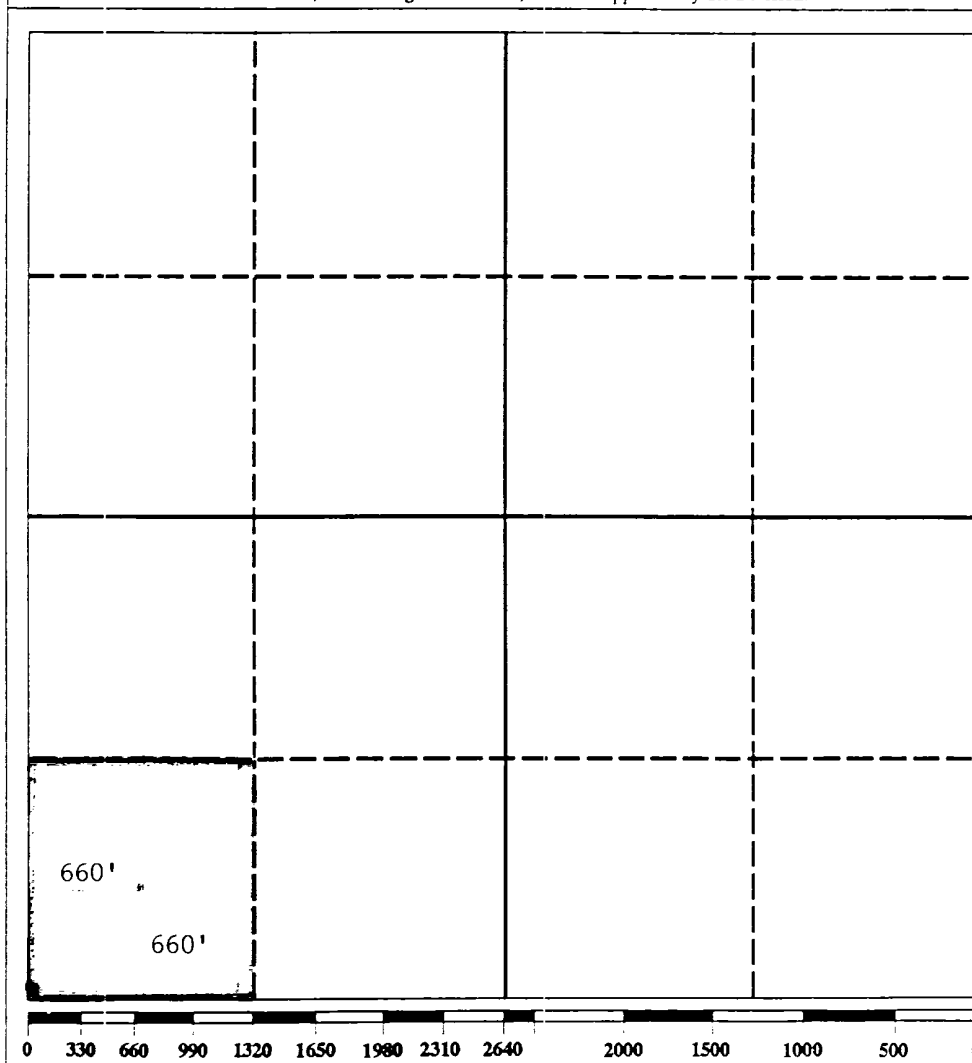
All Distances must be from the outer boundaries of the section

Operator Marathon Oil Company			Lease French Federal		Well No. 1
Unit Letter M	Section 24	Township 18-S	Range 32-E	County NMPM	Lea

Actual Footage Location of Well:

660 feet from the South line and 660 feet from the West line			
Ground level Elev. 3,777	Producing Formation Querecho Plains (Delaware)	Pool Delaware	Dedicated Acreage: 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
☐ Yes ☐ No If answer is "yes" type of consolidation _____
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature <i>Rod J. Prosceno</i>
Printed Name Rod J. Prosceno
Position Operations Engineer
Company Marathon Oil Company
Date 2/28/92

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
Signature & Seal of Professional Surveyor
Certificate No.