

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Marathon Oil Company

3a. Address

P.O. Box 552 Midland, TX 79702

3b. Phone No. (include area code)

915-687-8357

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

**Sec. 27, T-26-N, R-5-W, 850' FSL & 850' FWL
Rio Arriba, N.M.**

5. Lease Serial No.

Tract 251, Leas# 00154

6. If Indian, Allottee or Tribe Name

Jicarilla Apache

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Jicarilla Apache # 20

9. API Well No.

30-039-21819

10. Field and Pool, or Exploratory Area

Pictured Cliffs

11. County or Parish, State

Rio Arriba N.M.

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☒ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☐ Other

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 recompleate 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Marathon Oil Company is proposing to squeeze the Fruitland Coal perfs @ 3010'-52'. Perforate the Pictured Cliffs perfs @ 3067' to 3132'. Break down w/ acid and foam fracture the Pictured Cliffs perfs. Pick up 2-3/8" production tubing and land @ 3100'. Put well back on production.

Please see attached workover procedure for details.



14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Jerry Fletcher

Title

Engineer Tech.

Date **7/11/01**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/s/ Patricia M. Hester

Title

Lands and Mineral Resources

Date **JUL 26 2001**

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.

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, 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.

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WORKOVER PROCEDURE

Jicarilla Apache #20

850' FSL & 850' FWL, Sec 27, T-26-N, R-5-W
Rio Arriba County, New Mexico

Date: July 10, 2001

Purpose: Recomplete in Pictured Cliffs

AFE #: 5???00

AFE Amount: \$1??,??0

AFE Days: 10

GW: 100% NRI: 87.5%

KB: 6686' GL: 6674' TD: 4100' PBTD: 2940' CIBP

Surface Csg: 8-5/8" 24# K-55 @ 239' Cmt'd w/ 200 sks (Circulated)

Production Csg: 4-1/2" 10.5# K-55 8rd @ 4100' Cmt'd w/ 750 sks (Circulated)
[Drift = 3.927" 80% Burst = 3832 psi]

Tubing: None

Perforations: Fruitland Coal: 3010-14', 3025-38', & 3042-52' (108 holes)
Pictured Cliffs: 3074-81' & 3104-24' (29 holes) [**Squeezed w/ 150 sks – 7/94**]
Chacra: 3957-65' (9 holes) [**Squeezed w/ 100 sks – 7/94**]

Anticipated BHP: ±500 psi in the Pictured Cliffs

Comments: 1) Use 2% KCl (no substitutes) in all workover fluids.
2) Use 2-7/8" N-80 tubing as a work string.

PROCEDURE

1. Inspect location and improve if necessary. Install and test safety anchors to 22,500# as necessary.
2. MIRU PU. Kill well as necessary. ND wellhead. NU 7-1/16" BOP with 2-7/8" rams as per Mid-Continent Region's "Workover and Completion Guidelines". Pressure test blind rams & casing to 1000 psi. RIH with 3-7/8" bit and scraper on 2-7/8" workstring to ±2900'. Test pipe rams to 1000 psi.
3. Drill out CIBP @ 2940'. FIH to cement retainer @ 3062'. POOH with bit.
4. RIH with 4-1/2" cement retainer on 2-7/8" tbg and set @ ±2950'. Establish injection rate into Fruitland Coal perms 3010-52' and squeeze as per recommendation. POOH.
5. RIH with 3-7/8" bit and collars and drill out retainer and cement to ±3060'. Pressure test squeezed perms to 1000 psi. Drill up cement retainer @ 3062' and cement to ±3360'. POOH with bit and collars.
6. RU electric line company. NU and test lubricator to 500 psi. RIH with 3-1/8" casing guns loaded 2 SPF @ 120 degree phasing with premium charges and perforate the Pictured Cliffs intervals 3067-79', & 3104-24' (32' – 64 shots). Use Dresser Atlas GR-CBL dated 8/17/78 for correlation. POOH & RD EL.
7. RIH with 4-1/2" treating packer on 2-7/8" tubing. Hydro-test tubing below slips to 7000 psi. Set packer @ ±3060'. Test casing x tubing annulus to 500 psi.
8. RU flowback line to frac tank. RU stimulation company. Hold safety meeting. Test lines to 7000 psi. Place 500 psi on annulus and monitor while treating well. Break down perms with 1500 gals 15% HCl acid using 96 ball sealers spaced evenly for diversion. Unset packer and RIH through perms to knock off any remaining ball sealers. PUH and reset packer @ ±3000'. Foam fracture stimulate the Pictured Cliffs as per recommendation using 85,000# of 20/40 sand @ 30 BPM with a maximum treating pressure of 6000 psi. Flow back well immediately between 1 and 2 BPM. RD stimulation company.
9. Kill well as necessary. POOH with packer LD 2-7/8" workstring.
10. PU 2-3/8" production tubing and RIH with notched collar, mud joint and seating nipple. Tag TD and clean out as necessary. Land EOT @ ±3100'. ND BOP. Jet or swab well in as necessary. RDMO PU. Turn well over to production.

XC: M. D. Bidwell
K. C. Holt
R. Skinner

R. G. Fletcher
W. S. Landon
B. Teller

P. M. Hedderman
R. J. Longmire
Well File