Form 3160-5
(November 1994)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires July 31, 1996

## 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*

5. Lease Serial No.
Tract 251 Contract 154

6. If Indian, Allottee or Tribe Name
Jicarilla Apache

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

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
Jicarilla Apache 14E
DHC #1111

2. Name of Operator
Marathon Oil Company

9. API Well No.
30-039-22591

3a. Address
P.O. Box 2490 Hobbs, NM 88241

3b. Phone No. (*include area code*)
(505) 393-7106

10. Field and Pool, or Exploratory Area
Jicarilla
Basin Dakota / Mesa Verde

4. Location of Well (*Footage, Sec., T., R., M., or Survey Description*)
UL F, Sec. 34, T-26-N, R-5-W
1850' FNL and 1685' FWL

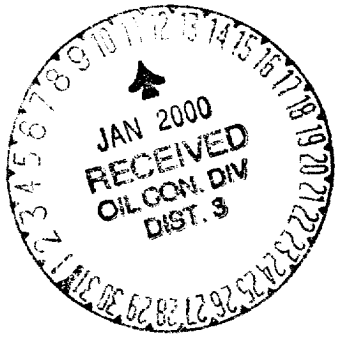
11. County or Parish, State
Rio Arriba NM

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|---|---|
| ☒ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Subsequent Report | ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Final Abandonment Notice | ☒ Casing Repair | ☐ New Construction | ☐ Recomplete | ☐ Other |
| | ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| | ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Coommpleted 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 shall 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 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 will fix a casing leak on Jicarilla Apache Well No. 14E, using the attached procedure.




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

Title
Production Engineer

Thomas P. Kacir

Date 1/4/2000

### THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title Petr. Eng.

Date 01/07/00

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

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.

(*Instructions on reverse*)

**Jicarilla Apache No. 14E**
**UL 'F', 1850' FNL and 1685' FWL**
**Section 34, T-26-N, R-5-W**
**Rio Arriba County, New Mexico**

**Date:** December 30, 1999
**Purpose:** Find and fix casing leak

**Elevation:** **KB:** 6579' **PBTD:** 7405' Cmt
**GL:** 6566' **TD:** 7466'

**Surface Casing:** 9-5/8", 36 lb/ft, K-55 set at 519'. Cmt'd w/ 450 sks, circulated to surface.
**Production Casing:** 4 ½", 10.5 lb/ft and 11.6 lb/ft, K-55 casing set at 7463'. DV tool set at 4109'. 1st stage cemented w/ 860 sks. 2nd stage cemented w/ 830 sks.

**Completions:**

| | | |
|---|---|---|
| Mesa Verde Perfs: | 4950' - 5241' | (4 JSPF, 86') |
| Graneros Perfs: | 7100' - 7112' | (4 JSPF, 12') |
| Upper Dakota Perfs: | 7230' - 7278' | (4 JSPF, 31') |
| Lower Dakota Perfs: | 7316' - 7332' | (4 JSPF, 16') |

## PROCEDURE

1. MIRU PU. POOH with rods and pump.

2. ND wellhead and NU BOP equipment. Release on/off tool.

3. TOOH with chemical string and tubing. After getting chemical string out, TIH with tubing and latch into on/off tool.

4. Release TAC. POOH with tubing.

5. TIH with packer and RBP. Set RBP at 4900'. PUH 1 joint and set packer.

6. Test RBP to 1000 psi. Test casing to 500 psi. Release packer and PUH testing casing to find casing leak.

7. After locating leak, record injection rate and pressure. Dump 2 sks of sand on RBP (20' of fill).

If using a packer perform Step 8a through 8f. Skip Step 9 (for cmt retainer) and goto Step 10.
If using a cement retainer skip Step 8 and perform Step 9a through 9g. Then goto Step 10.

8. a. Pull up and set packer 200' above casing leak. Drop standing valve. Pressure up backside to 500 psi. Test tubing to 3000 psi. Retrieve standing valve.

   b. RU Halliburton. Break circulation using 2% KCl. Establish injection rate and pressure.

   c. Mix and pump cement. Volume of cement to be determined after locating casing leak. Wash up pump and lines. (Need reverse pit or dig lined working pit for returns and wash up)

   d. Start displacement @ 1 BPM. If pressure is observed, squeeze as pressure dictates. Other wise displace to bottom of packer.

   e. Release packer and pull 2 stands. Reverse cement to pit. Set packer and close valve. RD Halliburton. Leave SI overnight.

f. Release packer. POOH. Goto step 10.

9. a. POOH. TIH with 4 ½" cement retainer, stinger and seating nipple.

b. RU Halliburton. Clear tool with water. Set retainer 200' above leak or perfs.

c. Sting out of retainer. Break circulation using water.

d. Sting into retainer. Pressure up backside to 500 psi. Test tubing to 3000 psi. (Note: Halliburton should be able to test tubing w/o dropping standing valve)

e. Establish injection rate and pressure. Mix and pump cement. Wash up pump and lines. (Need reverse pit or dig lined working pit for returns and wash up)

f. Start displacement @ 1 BPM. If pressure is observed, squeeze as pressure dictates. Other wise displace to bottom of cement retainer. Sting out of retainer and reverse cement to pit.

g. RD Halliburton. POOH with stinger.

10. TIH with 3-7/8" bit and 6 (2-7/8") Drill Collars on 2-3/8" tubing to top of cement or cement retainer.

11. RU drilling head and power swivel. Drill out cement retainer and cement to top of sand on RBP. PU and test squeezed interval to 500 psi. If squeeze does not hold, call Hobbs engineer before proceeding . Circulate out sand to top of RBP.

12. POOH. Laying down bit and collars.

13. TIH with retrieving tool and SN to top of RBP. Swab water down to SN.

14. Pump water (2% KCl) to wash off top of RBP. Latch RBP and release. POOH.

15. TIH with 4350' of production tubing; from bottom up as, 20' x 2-3/8" mud joint, 4' x 2-3/8" perf sub, SN, 80 joints of 2-3/8" tubing, TAC, 2' tubing sub, on/off tool and 2-3/8" tubing.

16. Set TAC at 4855' with SN at 7330' and bottom of production string at 7355'. Release on/off tool and POOH.

17. RU spooler (3/8" SS chemical string). TIH with 62 joints of 2-3/8" tubing. Install 2-3/8" ported sub in production string. TIH w/ 2-3/8" tubing and 3/8" SS chemical string. RD spooler.

18. Land ported sub at 2930'. Latch into on/off tool. ND BOP and NU wellhead.

19. Pick up 1.25" rod pump. Pick up and TIH w/ rod string; from bottom up as, 20 - 3/4" Class D guided rods, 85 - 5/8" Class D rods, 88 - 3/4" Class D rods, 100 - 7/8" Class D rods.

20. Seat pump. Load & test to 500 psi. Check pump action. Space out pump and hang well on.

21. Start up pumping unit. Check pump action.

22. Clean up location. RDMO PU.