

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division
811 S. 1st Street
Artesia, NM 88210-2834

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)

800-351-1417

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

UL "N" 1182' FSL & 1545' FWL
SECTION 33, T-21-S, R-24-E

5. Lease Serial No.

1107260

6. If Indian, Allottee or Tribe Name

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

Indian Hills Unit
70964 A

8. Well Name and No.

Indian Hills Unit #8

9. API Well No.

30-015-28590

10. Field and Pool, or Exploratory Area

Indian Basin Upper Penn
Associated Gas Pool

11. County or Parish, State

Eddy NM

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 Squeeze

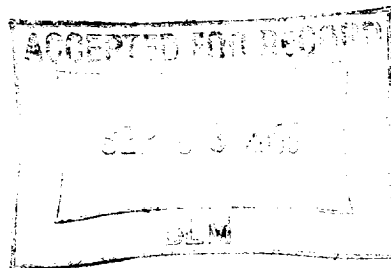
perfs and

re-perforate

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 recompleat 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 recompleat 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 recently cement squeezed perfs and reperforated this well. See attached detail.

(ORIG. SGD.) GARY GOURLEY



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

Ginny Larke

Ginny Larke

Title

Engineer Technician

Date 8/21/00

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

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

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.

Indian Hills Unit #8
API 30-015-28590

Attachment to Form 3160-5
Dated 8/21/00

6/24/00 MIRU PU. ND wellhead and NU BOP. Check cable, sub pump grounded downhole.

6/27/00 RU spoolers, POOH w/tbg and LD pump, motors and Phoenix system.

6/28/00 PU & RIH w/RTTS packer. Pickled tbg w/750 gals of 15% HCl acid. Set RTTS @ 7975'. RU swab, made 4 swab runs and recovered 20 bbls fluid. RD swab. Installed TIW valve w/gauge and SI tbg.

6/29/00 Made 2 swab runs. Released RTTS and POOH. LD RTTS, RU sandline drill/bailer and RIH to CIBP @ 7980'. Knocked CIBP to bottom in 3 runs. RD bailer. PU bit and casing scraper and RIH.

6/30/00 Tag up @ 8123'. POOH w/tbg. RU wireline. Make gauge ring and junk basket run. PU cement retainer and RIH, set @ 7940'. POOH & RD wireline. RIH w/tbg and sting into retainer.

7/1/00 RU cement equipment, tie onto tubing and establish injection rate of 4 bpm @ 0 psi. Squeeze perfs w/400 sx cement, Premium neat (15.6 ppg & 1.18 cfps). Max pressure = 165 psi, Max rate = 5.5 bpm. Sting out of retainer & POOH. Shut well in until Wednesday.

7/6/00 PU new bit and DCs & RIH on 246 jts. Tbg. Tag TD @ 7937', drill out cement retainer. Fell thru to 8015'. PU 4 singles from ground and drill to 8066'. Pull & LD 4 singles. Pull 10 stands and leave collars swinging above perfs.

7/7/00 PU swivel, tag up @ 8066' and continue drilling to 8144' & fell through. Clean down to 8226' and circulate well for 30 minutes. RD swivel and POOH w/tbg and stand back DCs. PU RTTS packer and RIH to 8027'. Set and test packer. Leaked. Moved down to 8058'. Leaked again. Dropped down to 8120'. Caught pressure but bled off. Set packer in blank pipe @ 8151'. Tested to 725 psi for 15 minutes. Released packer and POOH.

7/8/00 Tally out and LD packer. PU RBP & RTTS and RIH. Set RBP @ 8150' and RTTS @ 8034'. Pumped into perfs @ 3 BPM, 300-450 psi. Move RBP to 8034' & RTTS to 7939'. Pump into perfs @ 6 BPM, 0 psi. Release tools & POOH.

7/9/00 LD RBP & RTTS. MIRU wireline, RIH w/cement retainer & set @ 7938'. POOH & RD wireline. PU stinger and RIH. Sting into retainer & establish injection rate. Squeeze perfs. Lead cement 250 sx w/10% Calseal & 1% CalChl. Tail in w/250 sx Premium neat. Sting out of retainer.

7/10/00 MIRU Halliburton. RIH w/tbg & stinger. Tag up @ 6492'. Perfs communicated. Release Halliburton & POOH L/D 48 jts. 83rd stand had cement on tbg. LD stinger, PU bit & DCs & RIH. RU power swivel & break circulation. 100% returns. Drill to 6798' then circulate on bottom for 30 minutes.

7/11/00 RIH, tag up & commence drill out. PU total of 16 jts tbg and drilled to 7295'. Circulate @ 7295' for 30 minutes.

7/12/00 RIH, tag up @ 7295' and drill out to 7545'. Hit void w/several small screens to a solid tag @ 7956'. Drill out to 7966'. Circulate hole for 30 minutes. LD swivel and POOH w/12 jts.

7/13/00 RIH, tag up @ 7966' and drill out to 8137'. Hit void w/several small screens to a solid tag @ 8137'. Drill out to TD @ 8222'. Circulated hole for 1 hour, LD swivel, and POOH.

7/14/00 LD DCs & bit. PU RBP & RTTS and RIH. Isolated perfs from 8044' – 8128'. Test to 500 psi. Held only seconds. Injection rate could not be established. Released and PUH to isolate perfs 7947' – 8022'. Load & test to 650 psi. Held for 30 minutes w/no bleed off. Released packers & POOH. LD packers.

7/18/00 PU RTTS & RIH to 7939'. Set RTTS & RU swab. Tagged fluid level @ 4600'. Swabbed dry in 4 runs. Let set for 1 hour. Tagged FL @ 6500'. RD swab, release RTTS & POOH.

7/19/00 PU RBP & RIH to 585'. Closed and tested rams to 1000 psig. Released RBP & POOH, LD RBP. RU wireline and perf csg 7688'-7706', 7714'-7734', 7734'-7754', 7754'-7778', 7778'-7798', 7798'-7818', 7832'-7843', 7843'-7864' in 8 runs. Wireline tagged PBTB @ 8196'. RD wireline.

7/20/00 RIH w/PPI packer and acidize perfs from 7688'-7864' w/75 gpf 28% HCl acid in 4' increments for a total of 11,000 gals. Max press-3800 psig, Avg press – 2400 psig, Avg rate 1.9 bpm. RD Halliburton & fish valves. POOH w/PPI packer and LD. PU & RIH w/RBP. Set & test RBP @ 4035' to 500 psig.

7/21/00 RU spoolers, RU & RIH w/Phoenix sensor, Centrilift sub pump on 251 jts. 2-7/8" tbg. PU hanger, make final splice & hang well off. ND BOPs, NU wellhead, start pump and turn well over to production. RD PU.