

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Div. Vol. 2
1801 W. Central Avenue

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

45F

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)

80-351-1417

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

SHL: 1087' FNL & 2036' FEL, Section 33, T-21-S, R-24-E

BHL: 922' FSL & 2348' FEL, Section 28, T-21-S, R-24-E

5. Lease Serial No.

NM 07260

6. If Indian, Allottee or Tribe Name

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

Indian Hills Unit 70964A

8. Well Name and No.

Indian Hills Unit #35

9. API Well No.

30-015-32199

10. Field and Pool, or Exploratory Area

Indian Basin Upper Perm
Associated Pool

11. County or Parish, State

Eddy County 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

- | | | | |
|---|--|---|---|
| <input checked="" type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input checked="" type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input checked="" type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other Initial |
| <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | <u>Completion</u> |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

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.)

See attached for detail of completion work.

ACCEPTED FOR RECORD

OCT 23 2002

ALEXIS C. SWOBODA
PETROLEUM ENGINEER

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

Name (Printed/Typed)

Ginny Larke

Title

Engineer Technician

Date 10/10/02

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 WELL NO. 35

API #30-015-32199

Attachment to Form 3160-5
Dated 10/10/02 for Initial Completion

8/2/02 - MIRU PU. RIH w/bit on 3-1/2" tbg and drilled out DV tool. Tested casing to 1000 psi. Tagged @ 8646', PU power swivel, couldn't turn tbg string. POOH & LD csg scraper, PU DCs & RIH to 8646'. Drilled out plug & cmt from 8646' to 8766'. Circulate, & pickled tbg w/800 gals. 15% HCl acid. Drilled to 8805', POOH, Perfed from 8482'-8530' in 3 runs, 4 jspf. RIH w/7" PPI tool to 8360', dropped valves & acidized perfs in 2' settings w/125 gpf for a total of 6000 gals 15% CCA acid. Fished valves, POOH w/PPI tools & RIH w/7" RBP. Set RBP @ 3018', tested to 500 psi. & POOH. RIH w/sub pump on 3-1/2" production tbg. Bottom of RBP set @ 8742', pump intake @ 8701'. Made final splice and landed tbg in wellhead. ND BOP, NU wellhead, RD PU and left well testing perfed zone which is believed to be the Oil/Water contact. Tested Oil/Water contact from 8/6/02 - 9/10/02. MIRU PU, ND wellhead & NU BOPs. RU spoolers and POOH w/tbg, L/D sub pump. RIH w/tbg, latched onto RBP & POOH, L/D RBP. PU 7" cmt retainer, RIH to 8403' & set retainer. Opened retainer, established injection rate, stung out of tool & circulated well. Mixed & pumped 100 sx of 10T Cal-seal w/2% CaCl followed by 100 sx C neat cmt & displaced w/fresh water. Caught pressure w/60 bbls of displacement gone & squeezed to 3000 psi, holding for 2 minutes. Pulled out of retainer reversed out 13 bbls C neat cmt (61 sx) to pit. 22 sx in casing 117 sx in formation. POOH & L/D retrieval tool. PU bit & RIH to TOC @ 8398'. Drilled to top of cmt retainer @ 8404'. POOH, installed larger power swivel, broke circulation & finished drilling out cmt retainer. Drilled hard cmt from retainer to 8537'. RIH & tagged bottom @ 8564'. POOH L/D swivel. Installed TIW valve, tested squeezed interval to 500 psi. RU swivel, broke circulation & drilled thru stringer @ 8465'. Lost circulation, RD swivel & POOH L/D CDs. RIH w/seating nipple on 3-1/2" tbg. Displaced hole clean using fresh water. Spotted 750 cals 15% Ferchek SC acid across interval 8314'-8438'. POOH w/tbg, NU frac valve & RU wireline. Perfed 7" csg from 8314'-8318', 8350'-8355', 8379'-8389', & 8428'-8438' w/2 spf (58 holes). RD wireline & ND frac valve. RIH w/7" Halliburton BV RBP, setting tool, tbg sub, 7" Halliburton RTTS packer, & seating nipple on 3-1/2" tbg. Set RBP @ 8470', set packer @ 8455' & tested plug to 1000 psi. released packer, PU & set @ 8228'. Loaded backside & pressured up to 500 psi. Acid frac'd Upper Penn interval 8314-8438 w/12,000 gals 17% CCA sour acid in alternating stages. Flushed last stage w/fresh water. ISDP vacuum, max press 7984 psi, avg injection rate 30.3 BPM @ 4688 psi. Shut well in. Released packer & RIH & released plug. Reset plug @ 8575', PU & set pkr @ 8460'. Tested squeezed interval & POOH w/packer & RBP. L/D RBP & 3-1/2" tbg. NU frac valve, RU wireline & perfed 7" csg from 8142'-8148', 8154'-8156', 8178'-8274' w/4 spf (416 holes) & 8311'-8321' & 8349'-8359' w/2 spf (40 holes) in 9 runs. RD wireline & ND frac valve. RIH w/PPI tools, drop valves & spot acid to tool (50 bbls.). Acidized Upper Penn interval 8142-8359' w/12,000 gals of SBM 17% CCA sour acid using 2' spacing. Max breakdown 3900 psi, avg. breakdown 2287 psi. AIR 1.95 BPM @ 1627 psi. Fish valves & POOH w/ PPI tools. RIH w/7" RBP & setting tool on 2-7/8" tbg. Set plug @ 3348' & test to 500 psi. POOH w/retrieving tool, RIH w/sub pump on 2-7/8" L-80 tbg. Released plug, PU hanger joint, made final splice and landed tbg in hanger. RD spoolers, ND BOP, NU wellhead & pump test well to frac tank for clean up. Released well to production department on 9/22/02.