Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Designation and Serial No.
NM-036852

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other (Dry Hole)

8. Well Name and No.
Federal "3" #1

2. Name of Operator
Marathon Oil Company

9. API Well No.
30-025-31224

3. Address and Telephone No
P.O. Box 552, Midland, TX 79702 915/687-8329

10. Field and Pool, or Exploratory Area
North Young

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FNL & 1980' FWL
Sec. 3, T-18-S, R-32-E

11. County or Parish, State
Lea, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Complete & test Bone Spring Formation	☐ Dispose Water

(Note: Report results of multiple 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 initiated operations on 6/22/91 to complete and test the Bone Spring Formation.

1. Installed safety anchors & tested to 22,500 psig. MIRU PU. Installed 6" 900 manual BOP's w/2 7/8" pipe rams. PU & RIH, w/4 3/4" bit, bit sub, & 4-4 1/2" drill collars on 2 7/8" N-80 tbg. Tagged btm @8992'. POOH. RIH w/4 3/4" bit, bit sub & 5 1/2" csg scraper on 2 7/8" tbg to 8992'. Circ hole clean w/2% KCL. Tested csg to 500 psig for 15 mins. Held OK. SDFN.

2. POOH w/tbg, laying down DC's, scraper & bit.

3. RU Apollo Perforators, Inc. w/full lubricator. Tested lubricator @ 1000 psig. Held OK. Ran GR-CBl-CCl f/PBTD 8992' (tbg measurement) 8962' (w/L depth) to

(See Attachment I)

14. I hereby certify that the foregoing is true and correct
Signed Carl A. Bagwell Carl A. Bagwell Title Engineering Technician Date 10/16/91

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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

ATTACHMENT I

3. 500' above TOC @ 8442'. WIH w/4 csg gun w/2 JSPF @ 120° phasing. Perforate f/ 8855-58', 8876-90' (38 holes). POOH w/gun. RD Apollo. WIH w/5 1/2" RTTS pkr, SN w/SV in place on 2 7/8" tbg to 8800'. Load & test tbg @ 1500 psig. Held OK. Released pressure. Closed well in & SDFN.

4. Retrieve S/V RIH w/RTTS pkr to 8895'. Rig up Howco, spot 250 gals of 15% NEFE Acid. Pull pkr to 8772'. Reverse acid. Set pkr. Pressure annulus @ 1000 psi. Break down perfs w/2% KCL @ 0.5 BPM @ 3240 psi. Open pkr bypass, spot acid to tool, shut bypass. Pressure annulus @ 600 psi. Acidize perfs 8855'-58', 8876'-90' w/1700 gals of 15% NEFE acid w/76 RCNBS for divert. Saw good ball action. A.I.R. 3 BPM @ 1845 psi, Max rate 4.2 BPM @ 2110 psi. Flush to btm perf w/2% KCl ISIP 0 rig down Howco. Release annulus psi. Rig up swab lubricator WIH w/swab SFL 1800 f/surface. Made 43 swab runs in 8 hrs FFL @ 2100 fl surface made 43 swab runs in 8 hrs FFL @ 2100 fl surface. Total swabbed 232 BW 0 BO. Secure well SDFN.

5. SITP = 30 psi, CP = 0 psi. Bled press off. RIH w/swab. SFL = 2500' FS. Made 67 swab runs in 10 hrs. Recov'd 250 BW. FFL 2600' FS. C/2 = 53,000.

6. SITP = 0 psig. SICP = psig. RIH w/swab. SFL 2600 FFS. Made 59 swab runs in 9 1/2 hrs. Recov'd 277 BW. FFL 2600' FFS. No sign of oil or gas.

7. SITP = 0 psi. RIH w/swab. SFL 2600' from surface. Made 70 SR in 11 hrs. Recov'd 288 BW. Final FL 2600' FS. No indication of oil or gas. SWI. SDFN.

8. SITP = 0 psi. RIH w/swab. SFL 2600' from surface. Made 60 SR in 9 hrs. Recov'd 243 BW. FFL 2000' FS. SWI. SDFN.

9. SITP = 0 psi. RIH w/swab. SFL 2600' from surface.Made 12 SR in 3 hrs. Recov'd 75 BW. FFL 2600' FS. Sandline bad. Replaced sandline. SWI. SDFN.

10. SITP = 0 psig. RIH w/swab. SFL 2600' f/surface. Made 60 SR in 11 hrs. Recov'd 249 BW & 0 BO. FFL 2600' f/surface. Sample H_2O analysis 68,000 ppm. SDFN.

11. SITP = 0 psig. RIH w/swab. SFL 2600' FS. Made 30 runs in 9 1/2 hrs. Recov'd 125 BW & 0 BO. FFL 2600' FS. SWI. SDFN.

12. SITP = 0 psig. RIH w/swab. SFL 2600' FS. Made 30 runs in 9 1/2 hrs. Recov'd 120 BW & 0 BO. FFL 2600' FS. Secure well. SDFN.

13. SITP = 0 psig. RIH w/swab. SFL 2600' FS. Made 10 runs in 4 hrs. Recov'd 30 BW & 0 BO. FFL 2500' f/surface. Secure well. SDFN.

14. Shut down. Waiting on Jet pump.

15. Shut down. Waiting on Jet pump.

16. Shut down. Waiting on Jet pump.

(Continued on Page Three)

ATTACHMENT I

17. SITP = 0 psig. WIH w/swab. SFL 2600' f/surface. Made 3 swab runs in 1 hr. Recov'd BW & 0 BO. No show of oil or gas. Unseat RTTS. POOH w/tbg. Lay down RTTS pkr WIH w/Baker AD 1 tension pkr. Nat'l 2 1/2" Hi-Volume pump cavity on 284 jts 2 7/8" N-80 tbg hydrotesting in @ 5000 psi N/D BOPE. Set pkr @ 8818'. Land tbg in 14,000# tension. Drop s/v. Load tbg & annulus w/2% KCL water. Pressure & test pkr seat @ 500 psi. Held OK. Rig down pulling unit. Drop from report waiting on surface equipment.

18. RU Unidraulics unit, generator diesel tank & control panel. Set 4 frac tanks. Loaded unit w/wtr. Connected elect lines from generator to panel to Unidraulics unit. Dropped jet pump down tbg. Started well pumping @ 12:00 pm MST. Initial rate 47 BPH @ 3400 psig.

19. Well pumped 0 BO & 360 BW from 12:00 to 7:00 am. Well down on low discharge pressure @ 7:00 am. Repacked plungers on pump. Started well pumping @ 1:00 pm.

20. Well pumped 0 BO & 250 BW from 1:00 pm MST to 7:00 am MST (18 hrs). Unit down on high suction pressure.

21. Well pumped 0 BO & 928 BW in 24 hrs.

22. Well pumped 0 BO & 729 BW in 24 hrs.

23. Well pumped 0 BO & 320 BW in 24 hrs. Unit down on high pressure.

24. Well pumped 0 BO & 917 BW in 18 hrs.

25. Well pumped 0 BO & 295 BW in 9 hrs. Unidraulics down due to low suction pressure. Left well SI. Drop from report for study.

26. MIRU PU. ND wellhead, NU manual BOP. Attempted to unseat Baker Model AD-1 pkr, unsuccessful. RIH w/fishing tool on sandline. Retrieved SV in pump cavity. Let tbgbackside equalize. Released pkr & POOH laying down 10 jts of 2 3/8" workstring. Secured well. SDFN.

27. FOOH laying down 274 jts of 2 7/8" workstring, jet pump cavity & Baker 5 1/2" AD-1 pkr. RIH w/20 jts of killstring. ND BOP. NU wellhead. RDMO PU. Drop from report. Awaiting approved, P&A procedure.

FINAL REPORT.