

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

**SUBMIT IN TRIPLICATE**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (Dry Hole)	5. Lease Designation and Serial No. NM-036852
2. Name of Operator Marathon Oil Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P.O. Box 552, Midland, TX 79702 915/687-8329	7. If Unit or CA Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1980' FNL & 1980' FWL Sec. 3, T-18-S, R-32-E	8. Well Name and No. Federal "3" #1
	9. API Well No. 30-025-31224
	10. Field and Pool, or Exploratory Area North Young
	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
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Complete &amp; test Bone Spring Formation</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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-CB1-CC1 f/PBTD 8992' (tbg measurement) 8962' (w/L depth) to

(See Attachment I)

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

RECEIVED

OCT 25 1991

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HOBBS OFFICE

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<sub>2</sub>O 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.