

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

OCT 29 1991

O. C. D.  
ARTESIA OFFICE

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

5. Lease Designation and Serial No.

NA LC-029388-B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

A.J. "11" Federal No. 1

9. API Well No.

10. Field and Pool, or Exploratory Area

Tamano (Bone Spring)

11. County or Parish, State

Eddy County, N.M.

**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

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Marathon Oil Company ✓

3. Address and Telephone No.

P. O. Box 552 Midland, Tx. 915-682-1626

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

Unit P, 560' FSL & 990" FEL  
Section 11, T-18-S, R-31-E, NMPM

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

**TYPE OF SUBMISSION**

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other \_\_\_\_\_  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☒ Conversion to Injection  
☐ 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 proposes the conversion of the Harvey E. Yates' A. J. "11" Federal No. 1 to a water injection well. This well will be renamed the Tamano (BSSC) Unit No. 201 when the unit becomes effective on January 1, 1992. Approval has been granted by the NMOCD to inject water into the Tamano (Bone Spring) Pool by Order No. R-9555 attached. Also enclosed is the NMOCD Form No. C-108 covering this well. The following is the proposed procedure:  
(see attached)

**Subject to  
Like Approval  
by State**

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

Signed

*S. P. Guidry*

S. P. Guidry Title Northwest Production Supt.

Date 10/15/91

(This space for Federal or State office use)

Approved by

*Shannon*

Title

Date 10/25/91

Conditions of approval, if any:

Form 3160-5

A. J. "11" Federal No. 1

1. MIRU PU. POOH laying down rods and pump.
2. Nipple down well head & nipple up BOP.
3. Release TAC and POOH laying down 2 3/8" production string.
4. RU wireline unit and set RBP at 8025', dumpbailing 2 sxs sand on plug. Set cement retainer at 7920'.
5. PU 2 7/8" workstring. RIH w/stinger and sting into cement retainer. Establish injection rate w/fresh water.
6. Squeeze Shingle zone perfs 8005' to 8024' w/100 sxs of Class H w/6/10% fluid loss and 50 sxs Class H w/2#/sx salt.
7. Sting out of cement retainer, reverse clean & POOH.
8. RIH w/bit and collars on workstring. Drill out retainer & cement. Test squeeze to 500 psi.
9. POOH w/collars and bit.
10. RIH w/retrieving head on workstring. Circulate sand off plug. Retrieve plug & POOH.
11. RU perforators and perforate Second Bone Spring 2 JSPF from 8121' to 8197'. RD perforators.
12. PU 5 1/2" RITS tool, seating nipple and RIH on workstring. Set packer 8000'.
13. Acidize Second Bone Spring Carbonate perfs 8005' to 8197' w/2000 gals of 15% HCL acid.
14. Swab back load.
15. Unset packer. POOH laying down workstring and packer.
16. Pick up a wireline re-entry guide (IPC & EPC), 2 3/8" x 5 1/2" Baker Lok-Set (EPC and internally lined w/fiberglas) or equivalent, on-off tool (EPC and w/1.50 316 stainless steel profile) on 2 3/8" internally fiberglass lined injection tubing. Set packer at 7950'.
17. Release on-off tool and reverse circulate 2% KCL w/1 bbl packer fluid down backside (est. 116 bbls). Latch onto on-off tool.
18. Nipple down BOP and nipple up well head.
19. Conduct mechanics integrity test on backside for one hour.
20. RDMO PU.
21. Connect well to injection system and commence injection into Second Bone Spring Carbonate.
22. After approximately two weeks of injection, RU loggers and conduct injection profile survey.

This work is scheduled during the month of January, 19~~11~~<sup>92</sup>.