Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

c/SF

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

5. Lease Designation and Serial No.: NM 0468137
6. If Indian, Allottee or Tribe Name:
7. If Unit or CA, Agreement Designation: CA 1958

1. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other
8. Well Name and No.: J.C. WILLIAMSON STANDARD FEDERAL GAS COM #1
2. Name of Operator: Marathon Oil Company
9. API Well No.: 30-015-05918
3. Address and Telephone No.: P.O. Box 552 Midland, TX 79702 915/682-1626
10. Field and Pool, or exploratory Area: INDIAN BASIN UPPER PENN GAS POOL
4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 1980' FNL & 1980' FEL UL "G" SECTION 19, T-21-S, R-23-E
11. County or Parish, State: EDDY NM

RECEIVED
O. ARTESIA

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] 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
	[X] Other ADD PAY & STIMULATE	[ ] 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.)*

SEE ATTACHMENT

ACCEPTED FOR RECORD
MAR 19 1998
BLM

(ORIG. SGD.) GARY GOURLEY

14. I hereby certify that the foregoing is true and correct
Signed Ginny Larke Title ENGINEER TECHNICIAN Date 3/12/98

(This space for Federal or State office use)
Approved by (ORIG. SGD.) GARY GOURLEY Title PETROLEUM ENGINEER 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 TO FORM 3160-5
MARCH 12, 1998

J. C. WILLIAMSON STANDARD FEDERAL GAS COM. NO. 1

Add Pay and Stimulate

1,980' FNL AND 1,980' FEL, Section 19
T-21-S, R-23-E, Eddy County, New Mexico

1. MIRU pulling unit.
2. Kill well with 2% Kcl
3. ND wellhead and NU BOPs.
4. Release packer and RIH to PBTD (7,292'). POOH with 2-3/8" tubing and packer.
5. RU wireline. RIH w/HSC guns loaded with 23 gm tungsten lined charges at 4 SPF and 120° phasing.
6. Perforate 7,006'-7,036' with 4 SPF for a total of 120 holes and 6,954' - 7,000' with 4 SPF for a total of 184 holes.
7. RIH w/4-1/2" PPI packer. Set packer @ 7,275' and drop standing valve.
8. RU Halliburton. Unset PPI packer and pull up to 7,270'. PUH treating perfs at 7,224' - 7,270' and 7,060' - 7,110' in 2' increments w/75 gals. acid per foot and 100 gals. 2% KCl water with clay stabilizer. Break down perforations @ 7,006' - 7,036' and 6,954' - 7,000' in 2' increments with 100 gals. 2% KCl water per foot with clay stabilizer. Total treatment volume of acid is 7,200 gals. and of KCl is 17,200 gals.
9. Release PPI packer and TOOH w/PPI tool and 2-3/8" tubing.
10. RU wireline.
11. RIH w/RBP on wireline and set @ 7,050'. Dump 10' of sand on top of RBP.
12. Close blind rams and change out 2-3/8" pipe rams to 3-1/2".
13. PU and TIH with 10K 4-1/2" lok-set packer. Set @ 6,68j5'. Test annulus to 500 psi.
14. RU Halliburton. Install casing relief valve and set @ 1000 psi. Acid frac formation as follows:

    Pump 1,000 gals. 2% KCl water w/clay stabilizer @ 40 BPM.
    Pump 5,000 gals. 15% HCl acid @ 40 BPM.
    Pump 10,000 gals. 2% KCl water w/clay stabilizer @ 40 BPM.
    Pump 5,000 gals. 15% HCl acid @ 40 BPM.
    Pump 10,000 gals. 2% KCl water w/clay stabilizer @ 40 BPM.
    Pump 5,000 gals. 15% HCl acid @ 40 BPM.
    Pump 10,000 gals. 2% KCl water w/clay stabilizer @ 40 BPM.
    Monitor ISIP, 5 min., 10 min., and 15 min. SIPs.

    Total KCl volume = 33,000 gallons Total acid volume = 15,000 gallons.

15. RD Halliburton. Release packer and TOOH w/ work string and packer.

16. RU wireline. RIH w/3-1/8" HSC guns loaded with 23 gm tungsten lined charges at 4 SPF and 120° phasing to perforate 6,864' - 6,894' with 4 SPF for a total of 120 holes and 6,824' - 6,844' with 4 SPF for a total of 80 holes.
17. RIH w/4-1/2" RBP on wireline and set @ 6,916'. Dump 10' of sand on top of RBP.
18. TIH with 10K 4-1/2" lok-set packer. Set packer @ 6,685'. Test annulus to 500 psi.
19. RU Halliburton. Install casing relief valve and set @ 1000 psi. Acid frac formation as follows:

    Pump 2,000 gals. 2% KCl water w/clay stabilizer @ 40 BPM.
    Pump 3,000 gals. 15% HCl acid @ 40 BPM.
    Pump 5,000 gals. 2% KCl water w/clay stabilizer @ 40 BPM.
    Pump 3,000 gals. 15% HCl acid @ 40 BPM.
    Pump 5,000 gals. 2% KCl water w/clay stabilizer @ 40 BPM.
    Pump 2,000 gals. X-linked get with 1 PPG 20/40 Ottawa sand @ 40 BPM
    Pump 2,000 gals. X-linked get with 2 PPG 20/40 Ottawa sand @ 40 BPM
    Pump 2,000 gals. X-linked get with 3 PPG 20/40 Ottawa sand @ 40 BPM
    Pump 2,000 gals. X-linked get with 4 PPG 20/40 Ottawa sand @ 40 BPM
    Pump 2,000 gals. X-linked get with 5 PPG 20/40 Ottawa sand @ 40 BPM
    Flush with 2% KCl water to top perforation. Flow well back ASAP to frac tanks @ 1-2 gals./min.

20. RD Halliburton. Release packer and TOOH w/work string and packer.
21. TIH w/retrieving tool and 2-3/8" tubing. Circulate sand off RBP @ 6,916'. Latch on and release RBP and TOOH.
22. TIH w/retrieving tool and 2-3/8" tubing to 6,800'. Set tubing @ 6,800'. Swab and/or flow back load water.
23. If well tests for 1 MMCFD or more, then ND BOPs and NU wellhead.
24. Turn well over to production.
25. If well tests for less than 1 MMCFD, then circulate sand off RBP @ 7,050'. Release RBP and TOOH w/2-3/8" tubing, retrieving tool and RBP.
26. TIH w/SN and 2-3/8" tubing to 7,200'.
27. ND BOPs and NU wellhead.
28. Swab load water back and flow test well at least 12 hours before turning it over to Prod. Dept.
29. RD PU.