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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.
LC-029385-C

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
Johnson "A" Fed. No. 4

2. Name of Operator
Marathon Oil Company

9. API Well No.
30-015-05516

3. Address and Telephone No.
P. O. Box 552, Midland, Texas 79702 (915) 682-1626

10. Field and Pool, or Exploratory Area
Shugart (Y,SR,Q,GB)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FSL & 660' FEL
Sec. 10, T-18-S, R-31-E

11. County or Parish, State
Eddy Co., New Mexico

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
	[ ] Other _____	[ ] 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 to squeeze the Queen formation in the above referenced well and reopen the Grayburg and stimulate upon approval of Form 3160-5. Following is the proposed procedure:

1. Prepare location. Test anchors and/or install missing anchors. Expose 9 5/8" x 5 1/2" valve.
2. MI + RU PU. Release any pressure on tubing or casing annulus and on 9 5/8" x 5 1/2" annulus. ND wellhead. NU pretested BOP. RU kill truck and psi casing annulus to 1,500# and test csg, BOP flange and pipe rams for 5 min. Monitor 9 5/8" x 5 1/2" annulus. Release pressure. Release pkr + TOH + LD 2 3/8" 1 PC tbg. TIH w/5 1/2" retainer, 2 7/8", 6.5#, N-80 workstring (test tbg to 5,000# while TIH). Set retainer @ ±3,050'.
3. Psi annulus to 1,000#. Establish injection rate and squeeze Queen perforations w/200 sx CL "C" w/56% wtr and 1% CF-1 and 1% $CaCl_2$ to 3,000#. Sting out of retainer and TOH w/tbg.

(Continued page 2)

14. I hereby certify that the foregoing is true and correct
Signed Carl A. Bagwell Carl A. Bagwell Title Engineering Technician Date 10/23/91

(This space for Federal or State office use)
Approved by _____ Title _____ Date 10/31/91
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

4. If in Step (2) it was found that there was a casing leak above the packer, TIH w/5 1/2" RTTS pkr and locate and squeeze casing leak w/same cmt or as injection rates and pressure dictate. TOH w/RTTS pkr and tbg.

5. RU reverse unit. TIH w/4 3/4" bit, BS, 3-DC's and tbg. DO csg squeeze if one found in step 2. Test squeeze to 1,000#. DO Queen squeeze to 3,410'. Test to 1,000#. Swab tbg and csg down and determine if there is any fluid entry from squeezed perfs. DO 10' cmt and CIBP @ 3,420' and clean out to PBTD of 4,171'. TOH w/tbg, DC's BS and bit. Fill hole w/water.

6. RU wireline w/full lubricator. Test lubricator and flange to 1,000#. Perf w/4" gamma gun w/4 SPF W 3,932'-39', 3,968'-79', 3,991'-95, 4,021'-46' (total of 204 holes). TOH and RD wireline.

7. TIH w/5 1/2" RTTS pkr and 2 7/8" tbg and set pkr @ ±3,800' pressure annulus to 1,000#. Acidized perfs w/4,700 gals 15% NEFE diverted w/306 BS. Flow down well. SWB load. SI overnight.

8. Run static BHP. Release pkr and knock balls off. Set pkr @ ±3,800'. Pressure annulus to 1,000#. Frac Grayburg w/30,000 gals, minimax 1B-30 and 47,000# 20/40 sand and 15,000# 20/40 resin coated sand as follows:

    a) Pump 9,000 gals minimax 1B-30 as pad.
    b) Pump 4,000 gals minimax IB-30 w/1 ppg 20/40 sand.
    c) Pump 4,000 gals minimax 1B-30 w/2 ppg 20/40 sand.
    d) Pump 5,000 gals minimax 1B-30 w/3 ppg 20/40 sand.
    e) Pump 5,000 gals minimax 1B-30 w/4 ppg 20/40 sand.
    f) Pump 3,000 gals minimax 1B-30 w/5 ppg 20/40 sand WP-4.
    g) Flush w/930 gals base gel.

    Air 15 BPM. Anticipated TP @ 2,580#. SI overnight.

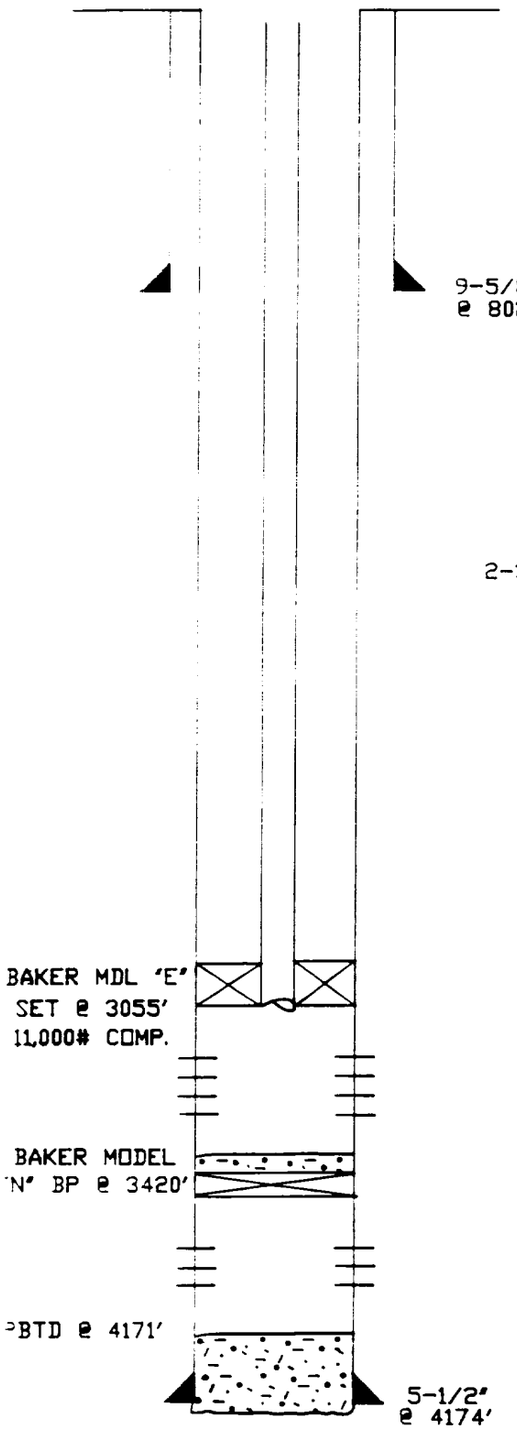
9. Flow well down and swab test to determine if there is any sand flow back. Release pkr to TOH and LD 2 7/8" tbg.

10. PU 1 jt 2 3/8", 4.7# 8rd, EUE tbg w/BP on bottom, 4' perf sub, SN, 8 jts of 2 3/8", 4.7# 8rd, EUE tbg, 5 1/2" Baker TAC and finish out w/2 3/8", 4.7#, 8rd, EUE tbg. Set SN @ ±4,060'. ND BOP. NU wellhead. NU stripping head. TIH w/1.25" pump and rods. Seat pump. Hang well off. Place well on production.

JOHNSON "A" FEDERAL #4

1980' FSL & 660' FEL
SECTION 10, T-18S, R-31E
EDDY COUNTY, NEW MEXICO

GL: 3730' KB: 3739'
SPUDDED: 8/15/57 COMPLETED: 9/4/57



SURFACE: 9-5/8" 32.3# 8rd H-40 ST&C @ 802', CMTD W/525sx TRINITY REG W/3% GEL, CMT CIRC

QUEEN PERFS: 3346'-62', (64 HOLES)

PBTD @ 3410' (10' CMT ON PLUG)

GRAYBURG PERFS: 3935'-36', 4030'-31'

PRODUCTION: 5-1/2" 15.5# J-55 @ 4174', CMTD W/400sx TRINITY INFERNO W/3% GEL (TEMP TOC @ 2650')

HISTORY:

)/6/57 PERF QUEEN @ 3346'-62', W/4 JSPF (64 HOLES)
)/8/57 WASH PERFS 3346'-62' W/500 GAL MUD ACID. MxTP
:400# AIR 1 BPM @ 1800# FRAC QUEEN W/10,000 GAL GELLED
EASE OIL + 10,000# SAND. MxTP 2400# MnTP 2200#. 15' SIP
700# AIR 20 BPM.
)/13/57 FLWD 58 BO + 0 BW
1/15/58 PLACED QUEEN ON PUMP.

10/26/61 ACIDIZED FROM 3346'-62', W/500 GAL 7-1/2% ACID + 55 CHE-PLEX MxTP 950# MnTP 900# SBP 0# AIR 4.7 BPM
10/27/61 PERF GRAYBURG 3935'-36', 4030'-31', W/4 SPF.
10/30/61 BROKE GRAYBURG DWN W/250 GAL MEC ACID. MxTP 3300# INJ RATE 17 BPM @ 4000# SIP 1700#.

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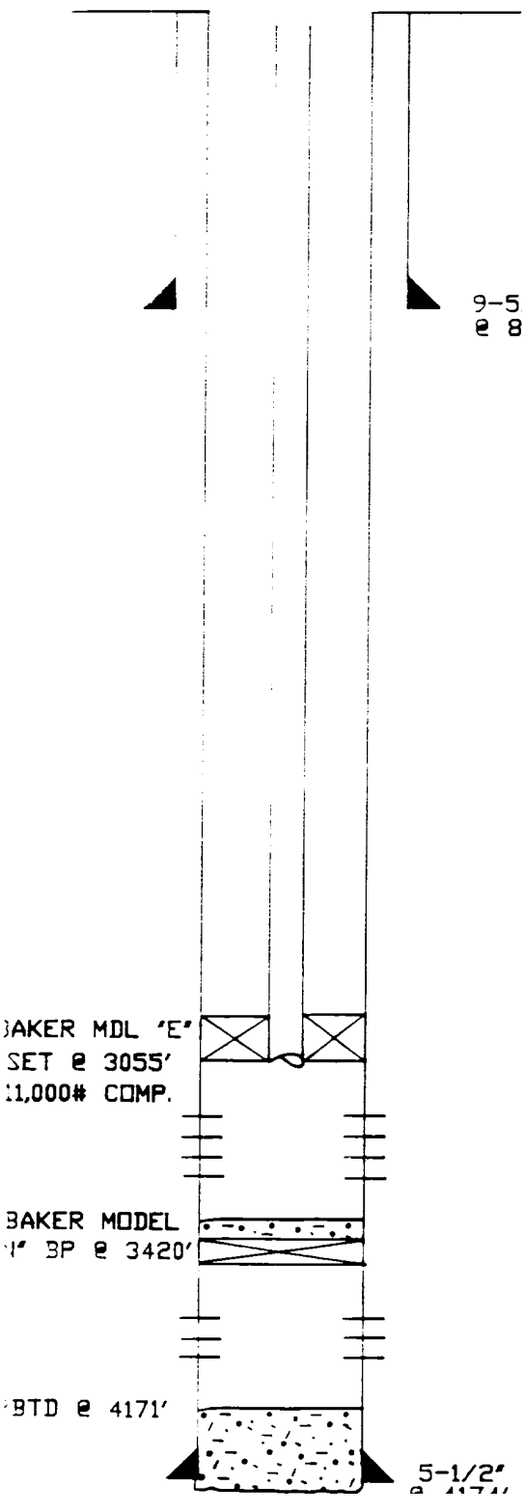

10/31/61 ATTEMPT TO FRAC GRAYBURG, SCREENED OUT SPOT 250 GAL MEC ACID. MxTP 6400# 1 BPM SDP 6000# 30" SIP 1300#.

11/1/61 SPOTTED 500 GAL MEC ACID

11/2/61 FRAC GRAYBURG FROM 3935'-36', 4030'-31' W/12,000 GAL REFINED OIL + 14,500# SAND MxTP 7000#, MnTP 4900# SDP 1700# 30" SIP 1350# MxIR 21 BPM. AIR 12.4 BPM.

11/21/61 PUMPING FROM QUEEN & GRAYBURG 36 BOPD & 37 BWPD. IN 16 HRS.

4/14/67 SET BAKER MODEL 'N' WIRE LINE BP @ 3420' W/10' CEMENT ON TOP PBTD @ 3410'.

4/15/67 PLACED WELL ON INJECTION INTO THE QUEEN FROM 3346'-62'.

4/1/85 INSTALLED PACKING ELEMENTS IN CSG HEAD IN BETWEEN CSG STRINGS.

4/18/89 FOUND HOLE IN TBG @ 1870', REPAIRED TBG.

8/22/90 0# SITP NO FLOW, 6 BBLS TO LOAD ANNULUS PSI ANNULUS TO 1000# BLED TO 825# IN 15".