Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
NM-021123

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA/Agreement, Name and/or N

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
Ohio "D" Gov't # 1

2. Name of Operator
Marathon Oil Company

9. API Well No.
30-045-10862

3a. Address
P.O. Box 552 Midland, TX 79702

3b. Phone No. *(include area code)*
915-687-8357

10. Field and Pool, or Exploratory Area
Blanco Measverde

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec. 8, T-31-N, R-12-W
990' FSL & 1650' FWL
San Juan Co. N.M.

11. County or Parish, State
San Juan N.M.

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Marathon Oil Company is proposing to add perfs in the Mesaverde formation. Adding perfs f/ 4291' to 4612', total of 22 holes. Menefee
Acid treatment and sand frac will be performed as per attached workover schedule.

2001 MAR 29 PM 2:21

JUN 2001

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Jerry Fletcher

Title
Engineer Tech.

Date 3/24/01

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, 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.

WORKOVER PROCEDURE

OHIO "D" GOVERNMENT #1

Kutz Canyon Field
990' FSL & 1650' FWL, Sec. 8, T31N, R12W
San Juan County, New Mexico

Date: March 12, 2001

Purpose: Add Menefee Pay

GWI: 100% KB: 6000' TD: 5060' AFE #: 591101 AFE Days: 9

NRI: 87.5% GL: 5988' PBTD: 4998' AFE Amount: $140,000

Surface Csg: 10-3/4" 32.75# H-40 @ 206' cmt'd w/ 210 sks (circulated)

Production Csg: 7" 23# J-55 @ 4620' cmt'd w/ 600 sks (TOC @ 2030' by temperature survey)
[Drift = 6.241" 80% Burst = 3832 psi]

Production Liner: 5" 15# J-55 from 4398' to 5055' cmt'd with 190 sks (circulated)
[Drift = 4.283" 80% Burst = 4560 psi]

Tubing: ~162 jts 2-3/8" H-40 EUE tubing @ 4982' KB

Perforations: Mesaverde (Point Lookout): 4720-45', 4760-90', 4800-25', 4835-50', 4950-65' (500 holes)

Anticipated BHP: ±500 psi in the Point Lookout
±1800 psi (estimated original pressure) in the Menefee

Comments:
1) Use 2% KCl (no substitutes) in all workover fluids
2) Use 3-1/2" 9.3# N-80 tubing (Drift = 2.867", 80% Burst = 8128 psi) as frac string
3) Will need ~5000' of 2-3/8" 4.7# J-55 production tubing on location at start of workover to replace the 2-3/8" H-40 tubing now in the well

PROCEDURE

1. Inspect location and improve if necessary. Install and test safety anchors to 22,500# .
2. MIRU PU. Kill well. ND wellhead. NU 7-1/16" BOP as per Mid-Continent Region's "Workover and Completion Guidelines". Function test BOP. POOH laying down w/ 2-3/8" H-40 production tubing. RIH with a 7" RBP on 2-3/8" production tbg. Set RBP @ ±250'. Test pipe rams to 1500 psi. Release from plug and POOH. Test blind rams to 1500 psi. RIH and pull RBP. RIH with 6-1/4" bit & 7" casing scraper to TOL @ 4398'. POOH. RIH with 4-1/4" bit & 5" casing scraper to PBTD @ 4998'. POOH.
3. RU electric line. RIH & set 5" CIBP at ±4680'. POOH. RIH with 7" test packer. Set packer @ ±4300' & pressure test CIBP & TOL to 1500 psi. POOH with packer.
4. RU electric line. NU and test lubricator to 1500 psi. Run GR-CCL log and correlate with Schlumberger Electric Log dated 10/23/56 and 10/27/56. RIH with 3-1/8" casing guns loaded 1 SPF with premium charges and perforate the Menefee as follows: 4291', 4312', 39', 46', 78', 4404', 20', 27', 56', 64', 98', 4512', 49', 51', 68', 76', 85', 87', 92', 97', 4604', and 12' (22 shots). POOH and RD EL.
5. Change pipe rams to 3-1/2". RIH with 7" treating packer on 3-1/2" WS. Hydro-test tubing below slips to 7000 psi. Set packer @ ±250'. Test pipe rams to 1500 psi. Continue testing tubing in hole. Set packer @ ±4150'. Test tubing x casing annulus to 500 psi.
6. RU stimulation company. RU for immediate flow back. Hold safety meeting. Test lines to 7000 psi. Break down perfs with 500 gallons 15% HCl and 33 Bio-balls. SI for ~1 hour to allow balls to dissolve, then surge balls off perfs. Stimulate Menefee perfs as per recommendation @ 40-45 BPM with 75,000# of 20/40 sand. Limit maximum treating pressure to 6000 psi. Flow back well immediately between 1 and 2 BPM. If flow rate is less than ½ BPM then attempt to slowly pump one tubing volume of clean fluid into well and SI until well is dead. RD stimulation company. Continue flowing well until it dies or cleans up. Shut well in overnight.
7. Obtain SITP. RIH with sinker bar and tag sand. Release packer and POOH laying down work string. Change pipe rams to 2-3/8". RIH with 7" RBP and test pipe rams to 1500 psi. POOH.
8. RIH with bit on 2-3/8" tubing and jet well clean. Drill out CIBP @ ±4680'. CO to PBTD. POOH laying down DC's and bit. (Note: Expect gas bubble and/or loss of hydrostatic head when CIBP is drilled out).
9. RIH w/ notched collar, mud joint and seating nipple on 2-3/8" production tubing. CO to PBTD @ 4998'. Land EOT @ ±4850'. ND BOP. NU wellhead. Jet or swab well in as necessary. RD PU. Turn well over to production.

XC: M. D. Bidwell
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Well File