

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

FORM APPROVED
Budget Bureau No. 1004-0135
Expires November 30 2000

5. Lease Serial No.

SF 078872-A

6. If Indian, Allottee or Tribe Name

NAVAJO

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

ALICE BOLACK 8

9. API Well No.

30-045-06663

10. Field and Pool, or Exploratory Area

KUTZ CANYON PICTURED CLIFFS

11. County or Parish, State

SAN JUAN NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Marathon Oil Company

3a. Address

P.O. Box 552 Midland, TX 79702

3b. Phone No. (include area code)

915/687-8356

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

U.L. "I" 1650' FSL & 990' FEL
SEC. 9, T-27-N, R-11-W I

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

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☐ Other

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 recompleat 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 recompleat 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.)

PROPOSE TO CLEAN OUT OPEN HOLE SECTION, RUN A LINER AND FRACTURE STIMULATE THE PICTURED CLIFFS AS PER THE ATTACHED PROCEDURE.

RECEIVED
MAY 12 1999
OIL CON. DIST.
DIST. 3

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

Name (Printed/Typed)

R. J. LONGMIRE

Title

DRILLING SUPERINTENDENT

Date 5/3/99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

[Signature]

Title

Asst. Team Lead

Date

5/7/99

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, 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.

(Instructions on reverse)

NMOCD

WORKOVER PROCEDURE

Alice Bolack #8

Kutz Canyon Field

1650' FSL & 990' FEL

Section 9, T-27-N, R-11-W

San Juan County, New Mexico

Date: March 15, 1999

Purpose: Clean out open hole, run a liner, and fracture stimulate the Pictured Cliffs

GWI: 50%

NRI: 41.25%

AFE #: 3???999

AFE Amount: \$1??,?00

AFE Days: 8

Elevations: KB: 6246'

GL: 6237'

TD: 2042'

PBTD: 2032'

Surface Csg: 8-5/8" 28# & 32# 10 "V" @ 116' cmt'd w/ 90 sks (circulated)

Production Csg: 5-1/2" 14# H-40 ST&C @ 1986' cmt'd w/ 140 sks
[Drift = 4.887" 80% Burst = 2488 psi]

Tubing: 95 jts 1315" OD API line pipe @ 1985'

Wellhead: 8-5/8" x 5-1/2"

Perforations: Pictured Cliffs: 1986-2032' Open Hole (Interval 2006-2016' shot w/ 20 quarts nitroglycerine)

Anticipated BHP: 150 psi

Comments: 1) Use 2% KCl in all workover fluids.

2) Use 2-3/8" 4.7# J-55 tbg w/ turned down collars for production. [Drift = 1.901", 80% Burst = 6160 psi]

3) Use 2-7/8" 6.5# J-55 tubing for workstring. [Drift = 2.347", 80% Burst = 5808 psi]

4) Use 4" 10.46# K-55 AB FL-4S for casing. [Drift = 3.351", 80% Burst = 5040 psi]

PROCEDURE

1. Inspect location and improve if necessary. Test safety anchors to 22,500#.
2. MIRU PU. ND wellhead. NU 7-1/16" BOP w/ pipe rams for 1.315" OD tbg on top & 2 valves below blind rams on bottom. Will need 7-1/16" rotating head also if foam-air unit is used. Function test BOP. POOH & LD 1.315" tubing. Change pipe rams to 2-7/8".
3. RU reverse unit and power swivel. PU 4-3/4" bit, 3-1/2" drill collars, & 2-7/8" tbg and RIH. Clean out old open hole to $\pm 2100'$. May need to spot a cement plug if circulation is lost, or use a foam-air unit.
4. Change pipe rams to 4". Run 4" FJ liner as casing & land @ $\pm 2100'$. Cement to surface as per recommendation. WOC 24 hours. ND BOP. Cut off casing. Install tubing head.
5. NU BOP w/ 2-3/8" pipe rams. RIH w/ 3-1/4" bit on 2-3/8" tubing. Drill out cement to $\pm 2095'$. Circulate well w/ 2% KCl water. Pressure test 4" casing to 2500 psi. POOH w/ tubing.
6. RU WL. Run GR-CNL across interval 2095'-surface (or log minimum). Actual perforations to be based on results of log. Perforate the Pictured Cliffs interval(s) ± 2000 -25' (approximately 25') w/ 3-1/8" slick guns loaded 4 SPF @ 90° phasing w/ 19 gram 311LT charges.
7. Breakdown perforations with Stim Tube. Actual length to be based on perforated interval. RD WL.
8. RU stimulation company. Sand fracture stimulate Pictured Cliffs perfs as per recommendation with approximately 100,000# 20/40 Arizona sand using 70 quality nitrogen foam @ ± 35 BPM and 2500 psi maximum pressure. Actual job design may vary slightly depending on actual interval perforated. RD stimulation company.
9. Flow back load. RIH w/ 2-3/8" tbg & clean out any sand fill. Due to low BHP, will have to use a bailer or have to circulate sand out with foam-air or nitrogen. POOH.
10. RIH w/ production tubing (including mud anchor and sand screen) & land same w/ SN @ $\pm 2000'$. ND BOP. NU wellhead. RIH with rods and pump w/ gas anchor on bottom. Space out pump plunger. RDMO PU.
11. Build pad & set pumping unit. Hang well on and begin pumping.

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