

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 014-0138
Expires: March 31, 1993

RECEIVED
BLM SF 080382-A

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 - 1 for such proposals.

93 SEP 14 PM 12:55

SUBMIT IN TRIPLICATE

RECEIVED
SEP 21 1998

Type of Well:

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Marathon Oil Company

3. Address and Location Data

P.O. Box 552, Midland, TX 79702

915-687-8324

4. Location of Well: Forage, Sec., T., R., M., or Surface Description

UL "K" 1650' FSL & 1650' FWL
SEC 16, T-27-N, R-11-W

5. BLM or C.A. Assignment Designation

6. Well Name and No.
SCHWERTFEGER 12

7. API Well No.

30-045-06502

8. Field and Pool or Exploratory Area

WEST KUTZ CANYON

9. County or Parish, State

SAN JUAN CO., NM

10. 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 RECOMPLETE
☐ 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.)

11. 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 location and measures and true vertical depth for all markers and zones pertinent to this work.)

PROPOSE TO RECOMPLETE TO THE PICTURED CLIFFS FORMATION AS PER ATTACHED PROCEDURE.

DUE TO RIG AVAILABILITY AND PERSONNEL CHANGES, MARATHON OIL COMPANY PROPOSES TO BEGIN THE PICTURED CLIFFS RECOMPLETION BY 10/5/98. PLEASE REFERENCE BLM LETTER DATED 8/7/98. 3162.3-2(7400)

12. I, therefore, certify that the foregoing is true and correct.

Signed

Walter J. Quisenberry

Title Drilling Supt.

Date 9/11/98

This space for Federal or State office use

Approved by

Title

Date

Conditions of approval, if any

13. I, the undersigned, make this statement for the person or persons 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

NMOCO

WORKOVER PROCEDURE

Schwerdtfeger #12 West Kutz Canyon Field 1650' FSL & 1650' FWL Section 16, T-27-N, R-11-W San Juan County, New Mexico

Date: September 8, 1998

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

GWI: 50%

NRI: 41.25%

AFE #: 000000

AFE Amount: \$125,000

AFE Days: 10

Elevations: KB: 6269'

GL: 6259'

ID: 2003'

PBTD: 1905' CIBP

Surface Csg: 8-5/8" 24.7# Plain End Line Pipe @ 112' cmt'd w/ 130 sks (circulated)

Production Csg: 5-1/2" 14# (972') & 17# (962') J-55 ST&C @ 1945' cmt'd w/ 75 sks
[Drift = 4.767" (17#) 80% Burst = 3416 psi (14#)]

Tubing: None

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

Perforations: Pictured Cliffs: 1945-2003' Open Hole (Interval 1983-2003' shot w/ 14 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 workstring and production.
[Drift = 1.901" 80% Burst = 6160 psi]

3) 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/ 2-3/8" pipe rams on top & 2 valves below blind rams on bottom. Function test BOP.
3. PU 5-1/2" packer on 2-3/8" tbg & RIH to $\pm 200'$. Establish injection rate into casing leak @ $\pm 250'$, check for circulation to surface, then squeeze as per recommendation. POOH w/ packer.
4. RU reverse unit and power swivel. PU 4-3/4" bit, 3-1/2" drill collars, & 2-3/8" tbg and RIH. Close pipe rams and test BOP, casing, & cmt to 500 psi. Drill out cement squeeze. Pressure test squeeze to 100 psi, then swab fluid level down to 250' and check for fluid entry. Drill up CIBP and cmt @ 1905'. Clean out old open hole to 2003'. May need to spot a cement plug if circulation is lost.
5. Change pipe rams to 4". Run 4" FJ liner as casing & land @ $\pm 2003'$. Cement to surface as per recommendation. WOC 24 hours. ND BOP. Cut off casing. Install tubing head.
6. NU BOP w/ 2-3/8" pipe rams. RIH w/ 3-1/4" bit on 2-3/8" tbg. Drill out to float collar and cement to $\pm 2000'$. Pickle tubing & casing w/ 500 gallons 15% HCl. Circulate well w/ 2% KCl water. Pressure test 4" casing to 2500 psi. POOH w/ tubing.
7. RU WL. Run GR-TDT across interval 2000-1000' (log minimum). Actual perforation interval(s) to be based on results of log. Perforate the Pictured Cliffs interval(s) $\pm 1955-80'$ (approximately 25') w/ 2-1/8" strip guns loaded 2 SPF @ 0' phasing w/ 14 gram charges.
8. RU stimulation company. Pump 500 gallons 15% HCl w/ 50% excess ball sealers to breakdown perfs. RIH w/ junk basket on wireline to retrieve balls. RD WL.
9. Sand fracture stimulate Pictured Cliffs perfs as per recommendation with approximately 75,000# 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.
10. Flow back load. RIH w/ 2-3/8" tbg & clean out any sand fill. May have to use bailer, or may have to circulate out with air or nitrogen due to low BHP. POOH.
11. RIH w/ production tubing (including mud anchor) & land same w/ SN @ $\pm 1950'$. ND BOP. NU wellhead. RIH with rods and pump w/ gas anchor on bottom. Space out pump plunger. RDMO PU.
12. Build pad & set pumping unit. Hang well on and start pumping.

xc: D. K. Barker
M. D. Bidwell
G. W. Donaghey

D. R. Hall
T. P. Kacir
W. S. Landon

G. D. Muse
Well File

Schwerdtfeger Well No. 12
San Juan County, NM
UL "K", Sec 16
T-27-N, R-11-W
1650 FSL, 1650 FWL

Subsequent

MIRU PU. ND wellhead and NU BOP equipment.

Pick up and TIH with 5 1/2" casing scraper to top of CIBP. POOH.

TIH with packer. Set packer and test CIBP, tested OK. Tested annulus, leaked.

POOH testing. Found leak at approximately 250'. Finish POOH, laying down.

ND BOP equipment and NU wellhead. RDMO PU.

Intent

1. Evaluate for re-completion of Pictured Cliffs. Lack of manpower has slowed this process.
2. AFE WIO to fix casing leak and return PC to production. (30 days for WIO reply)
3. MIRU PU. ND wellhead and NU BOP equipment.
4. PU 2-3/8" tubing and TIH. Cement squeeze leak at 250'. POOH.
5. TIH with 4-3/4" bit. Drill out cement and test casing. Drill out CIBP.
6. Clean out hole to TD at 2003'. Circulate hole clean. POOH.
7. Run and cement 4" flush-joint casing to TD.
8. Perforate Pictured Cliffs. Sand frac PC.
9. TIH with production tubing and swab well in.
10. ND BOP equipment and NU wellhead.
11. Swab well in. Turn well to sales. RDMO PU.