

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**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. <b>NM- 021125</b>
2. Name of Operator <b>Marathon Oil Company</b>		6. If Indian, Allottee or Tribe Name <b>N/A</b>
3a. Address <b>P.O. Box 552 Midland, TX 79702</b>	3b. Phone No. (include area code) <b>1-800-351-1417</b>	7. If Unit or CA/Agreement, Name and/or N <b>N/A</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>Sec. 18, T-31-N, R-12-W, 2020' FNL &amp; 1975' ENE FNL San Juan Co. N.M. Blanco Mesa Verde Field</b>		8. Well Name and No. <b>OHIO "E" 1B</b>
		9. API Well No. <b>30-045-30115</b>
		10. Field and Pool, or Exploratory Area <b>BLANCO MESA VERDE</b>
		11. County or Parish, State <b>SAN JUAN N.M.</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>Cement</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<b>job repair</b>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recomplate 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.)

Please see attached proposal to repair primary cement job.



14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) <b>Jerry Fletcher</b>	Title <b>Engineer Tech.</b>
	Date <b>6-13-00</b>

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by <b>/s/ Jim Lovato</b>	Title <b>Office</b>	Date <b>JUN 21 2000</b>
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.		

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.

AMOCO

# CEMENT REPAIR PROCEDURE #2

## OHIO "E" GOVERNMENT #1B

Kutz Canyon Field  
2020' FNL, 1975' FEL, Sec. 18, T31N, R12W  
San Juan County, New Mexico

Date: June 13, 2000

Purpose: Complete repair of poor primary cement job

Well Status: Completed in the Point Lookout (4557'-4812) & Menefee (4139-4477) – both zones were Frac'd

AFE #: 590400

GW: 100%

NRI: 87.5%

AFE Amounts:

Drilling \$127,375

Completion \$180,800

Cost through 4-10-2000:

Drilling \$142,066

Completion \$ 255,437

Elevations:

KB: 5888'

GL: 5875'

TD: 5100'

PBTD: FC @ 4992'

Spud Date: 3-27-2000

Surface Csg:

8-5/8" 24# J-55 STC @ 357' cmt'd w/ 255 sks – circulated

Production Csg:

4-1/2" 11.6# K-55 LTC ERW limited service @ 5084', casing mill tested to 4900 psi.

[Drift = 3.875" 80% Burst = 4280 psi ]

Tubing:

2-3/8" 4.7 # J-55 EUE, SN & Notched collar – SN @ 4,803'.

Anticipated BHP: ±800 psi in the Mesaverde

Comments: 1) Use 2% KCL (no substitutes) in all workover fluids that might contact current perforations.

### PROCEDURE

1. MIRU PU. Kill well and NU BOP's as per Mid-Continent Region's "Workover and Completion Guidelines". POOH with 2-3/8" tbg.
2. RIH with RBP for 4-1/2", 11.6# casing. Set plug @ ~2,700'. Load casing and test RBP to 2,000 psi. Spot 10' sand on top of RBP. Test blind and pipe rams to 1500 psi. Displace casing with Fresh water and POOH.
3. RU Elec. Line unit. NU and test Lubricator to 1,000 psi. RIH with a 3-1/8" casing gun loaded 4SPF @ 90 degree phasing with big hole charges. Perforate 1 foot – 4 shots at 2,200'. POOH.
4. Attempt to establish circ down casing and out casing head. If unable to circulate then attempt to establish injection into perfs but do not exceed 2,000 psi. If unable to inject into perfs then RIH with tbg and break down perfs using 10 bbls 15% HCL acid.
5. Once circulation or injection has been established, RIH and set a cement retainer ~ 60' above perforations. Test tbg and cement retainer to 2,000 psi. RU cement company and do A. or B. below.
  - A. If able to Circulate then cement as follows: Cement down tbg with 800 sks 50/50 Poz with 2% gel, ¼ LB Flocele, 5 lb Gilsonite, 0.4% Halad-344, 0.2% CFR-3 and 6.03 gals water/sk (13.5 ppg @ 1.38 cu ft/sk) followed by 100 sks Class "B" with 2% CaCL and 5.72 gals water/sk (15.20 ppg @ 1.26 cu ft/sk). Pump cement @ ~ 2 to 3 BPM and displace to 1 bbl above cement retainer with fresh water. Sting out of cement retainer and spot remaining cement on top of retainer. PUIC and reverse tbg clean. POOH. WOC overnight.

Notes: Cement volume is open hole caliper plus 15% excess based on bottom of cement starting at 2500'.

If cement circulates to surface, close surface casing valve and attempt to squeeze away any cement remaining in tbg but do not exceed 500 psi.
  - B. If Not able to circulate then squeeze perforations with 100 sks Class "B" cement with 2% CaCL & 0.4% Halad-344 mixed with 5.70 gal water/sks for a yield of ~22 bbl cement @ 15.20 ppg. Attempt to obtain a 1,000-psi squeeze. Hold 1,000 psi on tbg X csg annulus while squeezing. Hesitate as necessary with last 3 bbls cement in tbg. DO NOT over displace. Sting out of cement retainer spot remaining cement on top of retainer. PUIC and reverse tbg clean. POOH. WOC overnight.
6. RIH with a 3-7/8" bit and 6 drill collars on 2-3/8" tbg. Drill out cement retainer and cement. Test squeeze perfs to 500 psi for 15 min. Swab or blow well down to squeeze perforations. SI over night and check for fluid entry. POOH.
7. RIH with retrieving tool to RBP @ 2,700'. Circ clean and displace well with 2% KCL water. Release and POOH w/RPB.
8. RIH w/ notched collar and seating nipple on 2-3/8" production tubing. Check for fill and clean out as necessary. PU SN to 4,803 and land tubing. ND BOPS and NU WH. (Note: Install tbg mandrel instead of slips if desired) Jet or swab in well as necessary. Turn well over to production.

XC: D. W. Arnst  
D. K. Barker  
M. D. Bidwell

J. A. Bucci  
G. W. Donaghey  
W. J. Dueease

T. P. Kacir  
W. S. Landon  
R. J. Longmire

R. Skinner  
K. W. Spilman  
Well File

# MARATHON OIL Co.

## Ohio "E" Gov. 1B

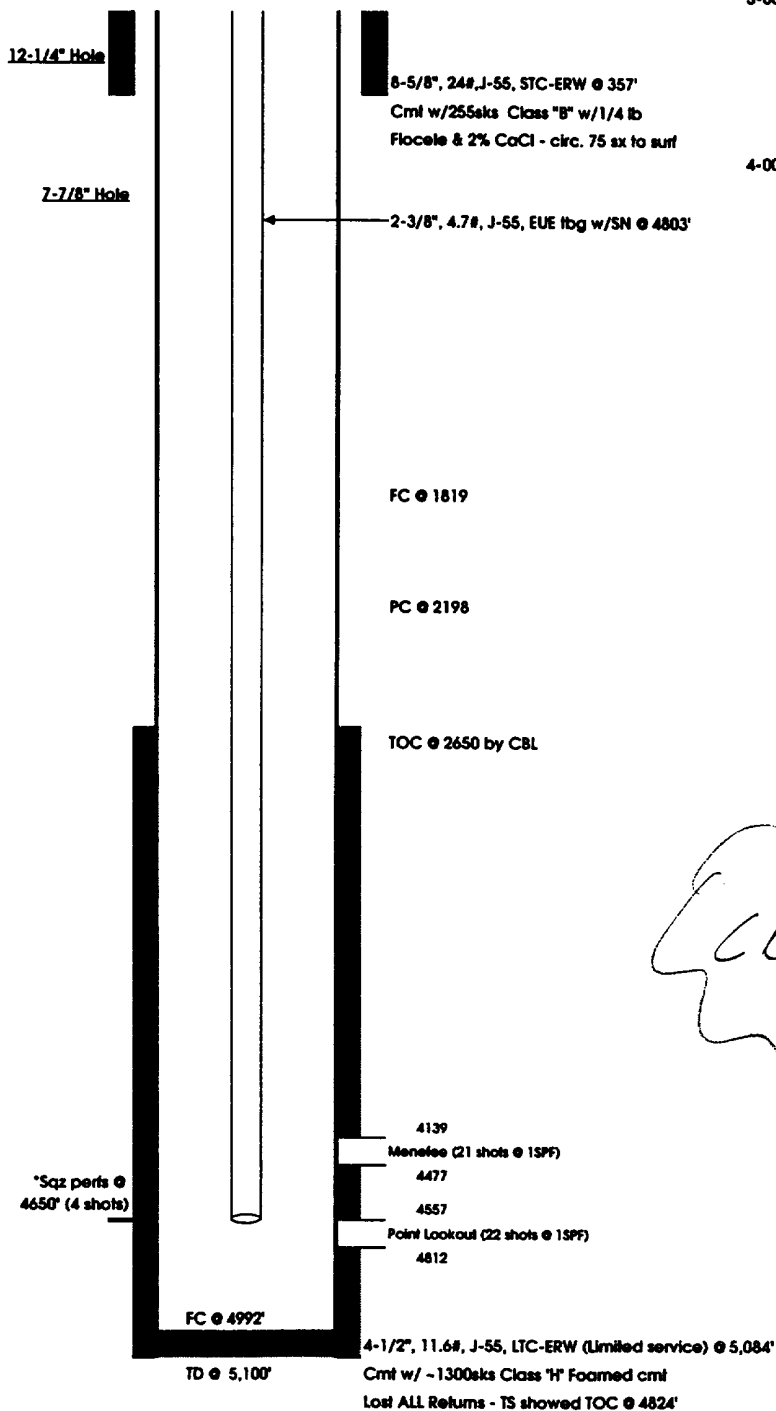
2020' FNL & 1978' FEL

Sec. 18, T31N, R12W

San Juan co., New Mexico

API # 30-046-30115

GL: 5875' KB: 5888'



3-00 Spud well 3-27-00, TD @ 5100', Pumped 1300 sks Foamed  
Lost all returns when pre-flush cleared shoe. No returns thru  
out job. Ran TS, showed TOC @ 4824. Perfed @ 4650' & circ  
to surface. Pumped 640 sks 50/50 poz with full returns. TOC  
estimated @ 2765 based on pressure.

4-00 Perfd 4 holes @ 4650' on 4/9/00. Established circ to surface  
and cemented with 640 sks 50/50 poz cement. Full returns  
while cementing. Drilled out and ran bond log on 4/19/00 -  
@ 2650'  
Perfd Point look out w/22 shots from 4,557' to 4,812'. Frac'd  
perfs with 129,000# sand, 28,000 gals gel & 602,000 SCF N2.  
Set CIBP @ 4,503' & perfd Menelee with 21 shots from 4,139'  
to 4,477'. Frac'd perfs with 54,000# sand, 16,000 gal gel &  
501,000 SCF N2.  
Tested Menelee perfs @ ~ 500 MCFPD. Drilled out CIBP and  
cleaned out to 4,992'. Ran after frac log. Landed EOT @

CURRENT

\*Circ 640 sks 50/50 Poz w/1/4 lb Flocele & 5# Gilsontite with full returns  
TOC @ 2650' by CBL