

N.M. Oil Cons. DIV-Dist. 2  
1301 W. Grand Avenue  
Artesia, NM 88210

Form 3160-5  
(April 2004)

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  
OMB No. 1004-0137  
Expires: March 31, 2007

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

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

2. Name of Operator **Marathon Oil Company ATTN: Donna Spears**

3a. Address  
**P.O. Box 3487 Houston, TX 77253-3487**

3b. Phone No. (include area code)  
**713-296-2414**

**RECEIVED**

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

**990 FNL & 990 FEL, Section 21, T-22-S, R-23-E**

**SEP 0 8 2004**

**000-ARTESIA**

5. Lease Serial No.

**NMNM3802**

6. If Indian, Allottee or Tribe Name

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

**NMNM71190**

8. Well Name and No.

**Mershon Gas Com #1**

9. API Well No.

**30-015-20241**

10. Field and Pool, or Exploratory Area

**Indian Basin**

11. County or Parish, State

**Eddy**

**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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<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 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 site is ready for final inspection.)

See Attached plugging procedure & wellbore diagrams

**APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS ATTACHED**

**APPROVED**

**SEP - 7 2004**

**LES BABYAK  
PETROLEUM ENGINEER**

**TAG PLUGS (#5 & #6)**

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

**James F. Newman, P.E.**

Title **Engineer, Triple N Services, Inc.**

Signature

Date

**09/02/2004**

**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, make 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 page 2)

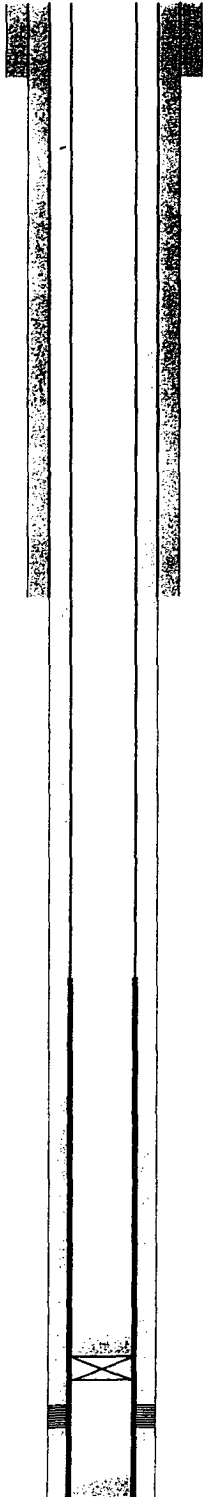
**WELLBORE SKETCH**  
**Marathon Oil Company**

Date: 9/2/2004

RKB @ \_\_\_\_\_  
DF @ \_\_\_\_\_  
GL @ 4,255'

Lease & Well No. :  
Legal Description :  
County :  
Field :  
Date Spudded :  
API Number :  
Status:

Mershon Gas Comm #1  
990' FNL & 990' FEL, Section 21, T-22-S, R-23-E  
Eddy State : New Mexico  
Indian Basin (Upper Penn)  
31-Jul-69 IPP:  
30-015-20241  
Temporarily Abandoned



PBTD: 7,357'  
TD: 7,631'

**Proposed Plugging Procedure  
Marathon Oil Company  
Mershon Gas Comm #1**

**See attached wellbore diagrams**

- Notify BLM & OCD 24 hrs prior to move in, and 4 hrs prior to plugs
- Hold daily tailgate safety meetings w/ crews
- TA'd w/ CIBP w/ 10' cmt @ 7,367' (07/18/99)
- 5½" 17.0 #/ft casing capacity = 0.1305 ft³/ft
- 4½" 11.6 #/ft casing capacity = 0.0872 ft³/ft
- Tubulars in hole: NONE

1. Set 180 bbl working pit and flow well down as needed.
2. MIRU plugging equipment. NU 5,000# hydraulic BOP.
3. RIH w/ 2⅜" workstring, tag CIBP/cmt @ +/- 7,357'.
4. RU cementer and circulate hole w/ 100 bbls 10 ppg mud, pump 25 sx C cmt (1.32 ft³/sk, 14.8 ppg w/ 6.3 gal/sk, slurry volume 33.0 ft³) 7,357 – 6,980'.

~~TAG-5~~ POOH w/ tbq to 5,070'. Load hole w/ plugging mud and pump 25 sx cmt (1.32 ft³/sk, 14.8 ppg w/ 6.3 gal/sk, slurry volume 33.0 ft³) 5,070 – 4,800'.

~~TAG-6~~ POOH w/ tbq to 2,210'. Load hole w/ plugging mud and pump 25 sx cmt (1.32 ft³/sk, 14.8 ppg w/ 6.3 gal/sk, slurry volume 33.0 ft³) 2,210 – 1,960'.

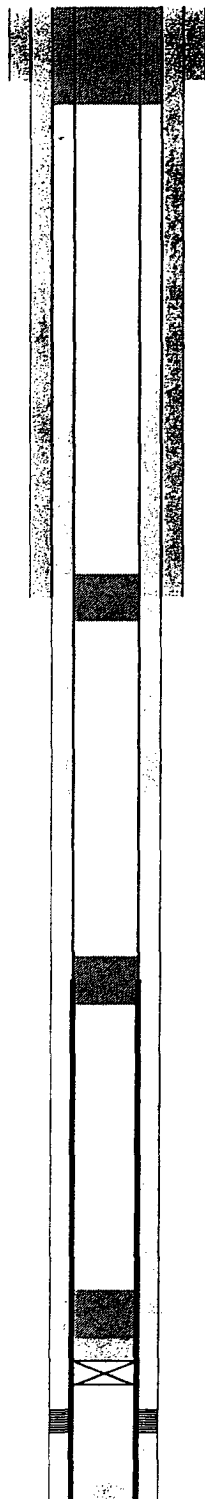
7. POOH w/ tbq.
8. SI BOP and pressure-test 5½" casing to 500 psi. If casing does not test, RIH w/ packer and isolate holes in casing.
9. RIH w/ wireline and perforate 5½" casing @ 260'. POOH w/ wireline, RD wireline.
10. If casing tested in #8, ND BOP and NU wellhead. Establish rate thru perforations and circulate 70 sx cmt (1.32 ft³/sk, 14.8 ppg w/ 6.3 gal/sk, slurry volume 92.4 ft³) 260' to surface in 5½ x 8⅝" annulus, leaving TOC in 5½" at 5'.
11. WOC as needed to verify casing standing full of cement. RDMO.
12. Clean working pit, haul fluids to disposal. Cut off wellhead and install dryhole marker. Cut off anchors and level location.

# **PROPOSED PLUGGED WELLBORE SKETCH** **Marathon Oil Company**

Date: 9/2/2004

RKB @ \_\_\_\_\_  
 DF @ \_\_\_\_\_  
 GL @ 4,255'

Lease & Well No.: Mershon Gas Comm #1  
 Legal Description: 990' FNL & 990' FEL, Section 21, T-22-S, R-23-E  
 County: Eddy State: New Mexico  
 Field: Indian Basin (Upper Penn)  
 Date Spudded: 31-Jul-69 IPP:  
 API Number: 30-015-20241  
 Status: Temporarily Abandoned



13-3/8" 48# @ 210' w/ 250 sx, circ.

70 sx C cmt 260 - 5', perf & sqz  
 circulate cmt

5-1/2" TOC @ 1,200' (est. w/ 70% fill)

8-5/8" 24# @ 2,160' w/ 2,490 sx & pea gravel

25 sx C cmt 2,210 - 1,960'

*TAG PLUG*

5-1/2" 15.5 & 17# @ 5,020' w/ 650 sx

5,020': 4-1/2" pulled & 5-1/2" ran 03/15/99

25 sx C cmt 5,070 - 4,800'

*TAG PLUG*

4-1/2" TOC @ 5,820'

25 sx C cmt 7,357 - 6,980'

CIBP w/ 10' cmt @ 7,367' (set 07/18/99)

**Perforations**  
 7,569 - 7,612'

7-7/8" Hole

4-1/2" 10.5# @ 7,631' w/ 350 sx

PBTD: 7,357'  
 TD: 7,631'

## **PROPOSED PLUGS**

- 1) 25 sx C cmt 7,357 - 6,980'
- 2) 25 sx C cmt 5,070 - 4,800'
- 3) 25 sx C cmt 2,210 - 1,960'
- 4) Test casing 1,960' to surface to 500 psi
- 5) 70 sx C cmt 260 - 5', perf & sqz, circulate cmt

