

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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.

5. Lease Serial No.

NM-06953

6. If Indian, Allottee or Tribe Name

N/A

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

8. Well Name and No.

Federal "C" 35 # 4

9. API Well No.

30-015-32453

10. Field and Pool, or Exploratory Area

Indian Basin U. P. Assoc.

11. County or Parish, State

Eddy N.M.

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)

915-687-8360

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

Sec. 35, T-21-S, R-23-E SHL @ 2310' FNL & 1980' FEL  
Eddy Co. N.M. BHL @ 2540' FNL & 660' FEL

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.)

Marathon Oil Company has changed the surface casing cement plan.

Plans are to use :

Lead: Foamed Premium plus w/ 1.5% Zonesealant 2000,  
2% CaCl<sub>2</sub>, 14.8 #/gal., 500 sacks, 1.35 Cu. ft./sk, Toc @ surface.

Tail: premium plus w/ 2% CaCl<sub>2</sub>, 14.8 #/gal., 150 sacks, 1.34 Cu. Ft./sk,  
TOC @ 1000'

Cap: Premium plus w/ 2% CaCl<sub>2</sub>, 10% cal-seal 60, 14.8 #/gal, 75 sks. 1.47 cu. ft./sk  
TOC Surface

APPROVED

APR 1 2003

LES BABYAK  
PETROLEUM ENGINEER

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

Jerry Fletcher

Title

Engineer Tech.

Date 3/28/03

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.

## Cement Program Summary

Casing Size (in)	Depth		Gauge Hole Size (in)	Top of Cement		Ann Vol To TOC (ft <sup>3</sup> )	Slurry Vol (ft <sup>3</sup> )	WOC Time (hrs)	Open Hole Excess (%)	
	MD (ft)	TVD (ft)		MD (ft)	TVD (ft)					
9.625	1200	1200	12.25	0	0	375	1025	4	100	100% excess of calculated hole
7.0	TD	TD	8.75	0	0	1270	2540	NA	60	Use 35% excess over caliper

Casing Size (in)	Slurry	Cement Description	Density (lb/gal)	Qty (sx)	Yield (ft³/sx)	Slurry Vol (ft³)	TOC MD (ft)	Mix Water		WL (cc)	FW (%)	Compressive Strength (psi)	
								Qty (gal/sx)	Type			12 hr	24 hr
9.625	Lead	Foamed Premium Plus, 1.5% Zonesealant 2000, 2% CaCl2	14.8	500	1.35	575	Surf	6.37	Fresh	800	0.75	600	1950
	Tail	Premium Plus w/ 2% CaCl2	14.8	150	1.34	200	1000	6.34	Fresh	800	0.75	1250	2300
	Cap	Premium Plus w/ 2% CaCl2, 10% Cal-seal 60	14.8	75	1.47	110	Surf	6.84	Fresh	200	0.00	1800	3200
7.0 Opt 1 1 <sup>st</sup> stage	Lead	Foamed Premium Acid Soluble, 2% Zonesealant 2000	15.0	100	2.55	255	NA	11.07	Fresh	400	0.0	500	1100
	Lead	Foamed Premium, 2% Zonesealant 2000	15.2	620	1.25	775	3000	5.74	Fresh	700	1.0	1150	2100
	Tail	Modified Super H, 0.4% CFR-3, 5 PPS Gilsonite, 0.5% H-344, 0.2% HR-7, 1 PPS salt	13.0	120	1.67	200	7500	8.23	Fresh	1000	1.0	150	600
7.0 Opt 1 2 <sup>nd</sup> Stage	Lead	Interfill C, 0.25 PPS Flocele, 3.0 PPS Gilsonite, 0.2% Halad 322	11.9	460	2.46	1130	Surf	13.83	Fresh	1000	1.5	100	400
	Tail	Premium Plus, 2% CaCl2	14.8	100	1.34	135	2800	6.34	Fresh	700	1.0	1200	2100
7.0 Opt 2	Lead	Foamed Premium Acid Soluble, 2% Zonesealant 2000	15.0	450	2.55	1150	NA	11.07	Fresh	400	0.0	500	1100
	Tail	Foamed Premium, 2% Zonesealant 2000	15.2	620	1.25	775	3000	5.74	Fresh	700	1.0	1150	2100

### Comments:

#### Surface:

- Circulate casing on bottom to ensure cuttings are off bottom
- Lead with 10,000 SCF N<sub>2</sub>, 10 bbls foamed fresh water, then 20 bbls foamed gelled water, 10 bbls foamed fresh water
- After cement has circulated, pump cap slurry down backside
- If cement slurry doesn't circulate, 400 sx foamed cement will be pumped down backside before cap cement
- Use Weatherford-Gemeco float equipment
- Cement slurry design may be adjusted based on formation tops and hole conditions