

Form 3160-5
(November 1994)

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.

TRACT 251, CONTRACT 154

6. If Indian, Allottee or Tribe Name

JICARILLA APACHE

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

8. Well Name and No.
JICARILLA APACHE

14

9. API Well No.

30-039-20140

10. Field and Pool, or Exploratory Area
BLANCO MESA VERDE

11. County or Parish, State

RIO ARRIBA

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)

UL "M", SEC. 34, T-26-N, R-5-W
900' FSL & 900' FWL

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

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input checked="" type="checkbox"/> Recomplete | <input type="checkbox"/> Other |
| <input type="checkbox"/> Change Plans | <input 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 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.)

PROPOSE TO ISOLATE GRANEROS AND DAKOTA PERFS. PERF AND ACIDIZE MESA VERDE 4820' - 5202' AND PRODUCTION TEST.

AFMSS

Adjud.	<i>[Signature]</i>
Engr.	<i>[Signature]</i>
Geol.	
Surf.	
Appvl.	

Approved for 30 day flow test.
OCT 22 1999

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

R. J. LONGMIRE

[Signature]

Title

DRILLING SUPERINTENDENT

Date

10/19/99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

[Signature]

Title

[Signature]

Date

10/19/99

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

ABQ Field 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)

③

WORKOVER PROCEDURE**Jicarilla Apache #14****Jicarilla Field**

900' FSL & 900' FWL

Section 34, T-26-N, R-5-W

Rio Arriba County, New Mexico

Date: October 11, 1999Purpose: Recomplete to the MesaverdeGWI: 100%NRI: 87.5%AFE#: 377799AFE Amount: \$125,000AFE Days: 10Elevations: KB: 6554'

GL: 6541'

TD: 7345'PBTD: 7300'Surface Csg: 9-5/8" 32.3# H-40 ST&C @ 421' cmt'd w/ 275 sks (circulated)Production Csg: 5-1/2" 15.5# (to 6809') & 17# J-55 ST&C & LT&C @ 7340' cmt'd w/ 775 sks in 3 stages w/ stage collars

@ 3196' & 5264' (1st stage 205 sks - circ, 2nd stage 200 sks - circ, 3rd stage 370 sks - circ)
 [Drift (17#) = 4.767" 80% Burst (15.5#) = 3848 psi]

Tubing:

Long String: (Dakota) 90 jts 2-3/8" 4.6# J-55 Seal Lock tubing, 4 x 3-1/16" blast jts (2859-2930'), 130 jts 2-3/8" 4.7# J-55 EUE 8rd thg & "F" nipple @ 6973', & 1 jt 4.7# J-55 EUE 8rd tubing w/ Model "G" locator seal assembly landed in Baker Model "D" Packer @ 7003'

Short String: (Pictured Cliffs) 92 jts 1.66" 2.4# J-55 CS Hydril tubing @ 2848' w/ "F" nipple @ 2818'

Wellhead: Rector dual tubing headPerforations: Pictured Cliffs: 2865-72', 80-86', 2901-11', 16-19' (2 SPF)

Graneros: 7042-50' (1 SPF)

Dakota: 7171-83', 7201-06', 12-14', 19-25', 65-67', 73-78' (1 SPF)

Anticipated BHP: 200 psi in the Pictured Cliffs

800 psi in the Mesaverde

500 psi in the Dakota

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

2) Use 3-1/2" 9.3# N-80 tubing for frac string. [Drift = 2.867" 80% Burst = 8128 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 1.66" OD thg on top & 2 valves below blind rams on bottom. Function test BOP. POOH & LD 1.66" tubing and send in for inspection. Change pipe rams to 2-3/8". POOH w/ 2-3/8" tubing & LD tubing, blast joints, & seal assembly. Send tubing in for inspection. Change pipe rams to 2-7/8".
3. PU 2-7/8" workstring. RIH & mill out Model "D" packer @ 7003'. Clean out well to PBTD @ ±7300'. POOH.
4. RIH w/ 5-1/2" straddle assembly & set RBP @ ±5300'. Pressure test RBP to 1500 psi. Dump 2 sacks sand on RBP. POOH & LD packer & 2-7/8" tubing.
5. RU WL. Run GR-CCL log across interval ±5300-3700'. Use Schlumberger Compensated Formation Density log dated 9/25/68 for correlation. Perforate the Mesaverde @ 4820', 4840', 4842', 4844', 4857', 4859', 4904', 4909', 4912', 4914', 4958', 4962', 4963', 5048', 5049', 5068', 5069', 5096', 5098', 5100', 5107', 5157', 5196', 5199', and 5202' (25' - 25 shots) w/ 3-1/8" casing guns loaded 1 SPF using 12 gram charges.
6. Change pipe rams to 3-1/2". RIH w/ 5-1/2" packer on 3-1/2" tubing & set @ ±4750'. Hydrotest thg in hole to 6000 psi.
7. RU stimulation company. Breakdown Mesaverde perms 4820-5202' w/ 1000 gallons 15% HCl using 40 x 1.1 SG BioBalls spaced evenly to divert. Allow time for BioBalls to dissolve, then sand fracture stimulate perms as per recommendation (exact job design forthcoming) with approximately 100,000# 20/40 sand @ 40-50 BPM and 6000 psi maximum pressure. Tag all sand stages w/ radioactive isotopes. RD stimulation company.
8. Flow back load. POOH w/ packer & LD 3-1/2" tubing. Tag TD with sinker bar to check sand fill (clean out if necessary). RU slickline. Run after frac log across interval ±5300-4500'. RD slickline.
9. Change pipe rams to 2-3/8". RIH w/ packer, profile nipple, blast joints, & 2-3/8" production tubing & set packer @ ±4750'. Change pipe rams to 1.66". RIH w/ 1.66" OD tubing & land @ ±2900'. ND BOP. NU wellhead. RD MO PU.
10. Place well on production & test Mesaverde. RBP will be pulled at a later date when commingling permit is approved.

xc: D. W. Arnst

R. L. Kleiv

District I

PO Box 1980, Hobbs, NM 88241-1980

District II

811 S. 1st Street, Artesia, NM 88210-2834

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources DepartmentOIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-20140		² Pool Code		³ Pool Name BLANCO MESA VERDE	
⁴ Property Code		⁵ Property Name JICARILLA APACHE			⁶ Well Number 14
⁷ OGRID No. 14021		⁸ Operator Name Marathon Oil Company			⁹ Elevation 6541'

¹⁰ Surface Location

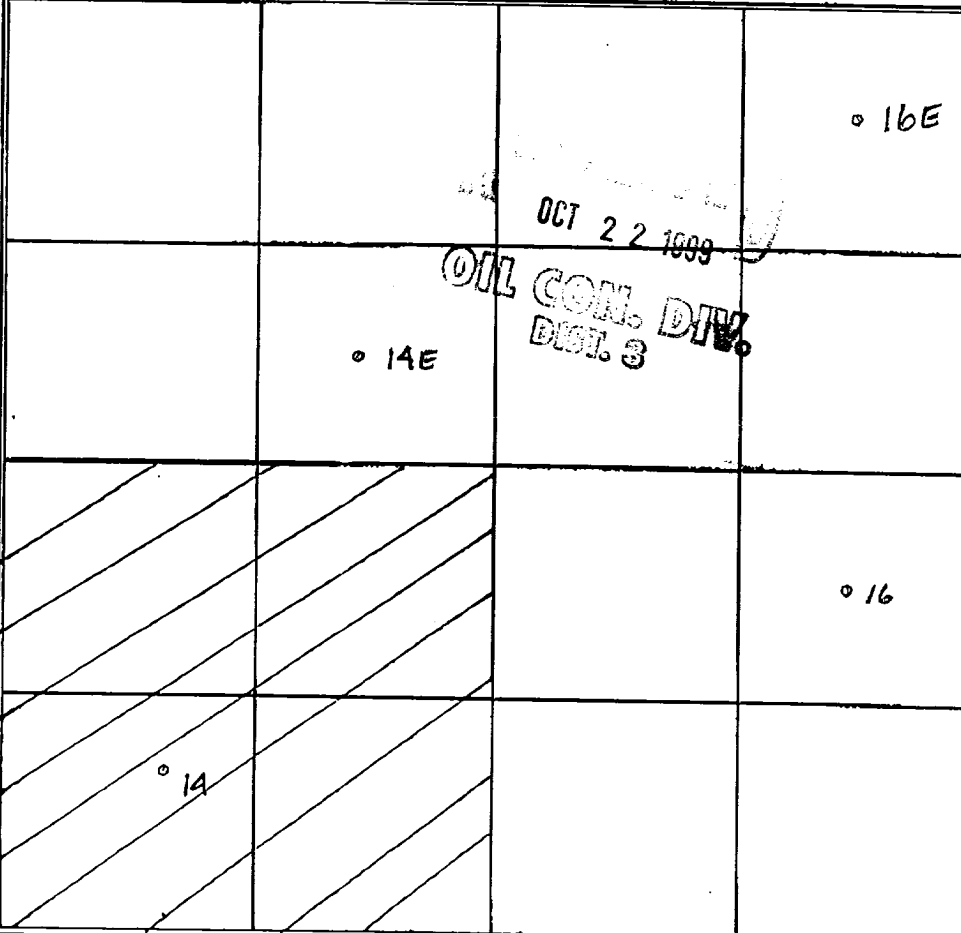
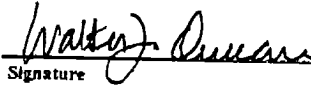
UL or lot no. M	Section 34	Township 26-N	Range 5-W	Lot. Idn	Feet from the 900	North/South Line SOUTH	Feet from the 900	East/West line WEST	County RIO ARRIBA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
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¹² Dedicated Acres 160-SW/4	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON--STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature R. J. LONGMIRE Printed Name DRILLING SUPERINTENDENT Title 10/19/99 Date	
				¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number	