

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Marathon Oil Company P.O. Box 3487 Houston, TX 77253-3487		² OGRID Number 14021
		³ API Number 30- 25-36086
⁴ Property Code 34735	⁵ Property Name Eureka 9 State Com	⁶ Well No. 1
⁹ Proposed Pool 1 Vacuum Atoka Morrow, North 86800		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
C	9	17S	35E		660	North	1650	West	Lea

⁸ Proposed 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

Additional Well Location

¹¹ Work Type Code E	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3984'
¹⁶ Multiple No	¹⁷ Proposed Depth 12300	¹⁸ Formation Atoka	¹⁹ Contractor	²⁰ Spud Date 01/01/2003
Depth to ground water 67'		Distance from nearest fresh water well 6200' (L-02341)		Distance from nearest surface water
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume 2000 bbls Drilling Method: Rotary				
Closed-Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

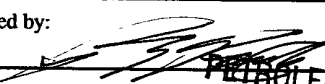
²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48#	450'	450	Surface
12 1/4"	9 5/8"	40#	4819'	1550	Surface
8 3/4"	5 1/2"	17#	12300'	900	TOC @ 9000'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Marathon Oil Company proposes to re-enter the previously abandoned Eureka 9 State Com No. 1, and complete the well to the Vacuum Atoka-Morrow, North pool (86800). Please see attachment for details of proposed well work.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway
Re-Entry

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input checked="" type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> . Signature: Charles E. Kendrick		OIL CONSERVATION DIVISION	
Printed name: Charles E. Kendrick		Approved by: 	
Title: Engineering Technician		Title: PETROLEUM ENGINEER	
E-mail Address: cekendrix@marathonoil.com		Approval Date: APR 6 2005 Expiration Date:	
Date: 03/22/2005	Phone: 713-296-2096	Conditions of Approval: Attached <input type="checkbox"/>	

Eureka 9 State Com No. 1

Re-entry Procedure

1. Move in rig up work over rig. Hold unit safety meeting.
2. Remove capped well head install new well head and BOPE. Test BOPE.
3. Drill out seven cement plugs with 8 ¾' bit from surface to 12,300' (original TD)
4. Run 5 ½" 17 # casing to 12,300' and cement with approximately 900 sks cement estimated top of cement will be at 9,000'.
5. Perforate well in two intervals from 12,072 – 12,078 & 12,082 – 12,090.
6. Fracture stimulate well with staged propanant frac.

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State of New Mexico
Energy, Minerals & Natural Resources

Form C-102
Revised June 10, 2003

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-36086	² Pool Code 86800	³ Pool Name Vacuum Atoka-Morrow, North
⁴ Property Code 34735	⁵ Property Name Eureka 9 State Com	⁶ Well Number 1
⁷ OGRID No. 14021	⁸ Operator Name Marathon Oil Company	⁹ Elevation 3984'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	9	178	35E		660	North	1650	West	Lea

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

¹² Dedicated Acres 320	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

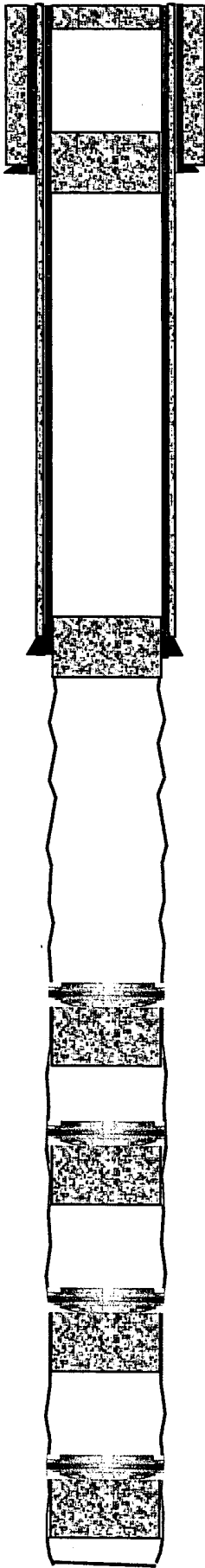
<p>Diagram showing well location on a grid. Sections B-1838, B-1518, B-1839, and K-6119 are labeled. A well #1 is located in section B-1518, 660' from the North line and 1650' from the West line.</p>	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Charles E. Kendrick</i> Signature Charles E. Kendrick Printed Name Engineering Technician cekendrix@marathonoil.com Title and E-mail Address 03/08/2005 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



Eureka 9 State Com No. 1 before workover

Marathon Oil Company
Eureka 9 State Com No. 1
8-Mar-05

400' - 500' 50 sks Class C cement plug



0' - 30' 10 sks Class C cement plug

Surface Casing
13 3/8" 48# set @ 450" Cmtd w/ 450 sks

Intermediate Casing
9 5/8" 40# set @ 4819' Cmtd w/ 1550 sks

4769' - 4869' 50 sks cement plug

7722' - 7822' 35 sks Class H cement plug
& retainer

9762' - 9862 35 sks Class H cement plug
& retainer

11,744' - 11,844' 35 sks Class H cement plug
& retainer

12,700' - 12,800' 35 sks Class H cement plug
& retainer

TD @ 12850'

B-1518
B-1838
B-1839
V-7093

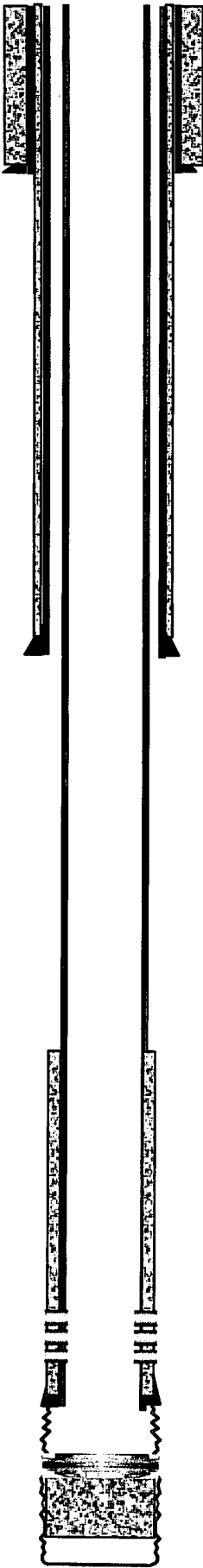
Well Name & Number:	Eureka 9 State Com No. 1		Lease	Composite (four leases)	
County or Parish:	Lea	State/Prov.	New Mexico	Country:	USA
Perforations: (MD)	5436' - 5762' / 6257' - 6391'		(TVD)	12,850'	
Date Completed:				RKB:	
Prepared By:	Charles Kendrix		Last Revision Date:	03/08/05	



Eureka 9 State Com No. 1 after re-entry

Marathon Oil Company
Eureka 9 State Com No. 1
30-Mar-05

400' - 500' 50 sks Class C cement plug



0' - 30' 10 sks Class C cement plug

Surface Casing
13 3/8" 48# set @ 450" Cmdt w/ 450 sks

Intermediate Casing
9 5/8" 40# set @ 4819' Cmdt w/ 1550 sks

Top of cement on production casing @ ~9,000'

Atoka - Morrow Perfs 12,078' - 12,090'

5 1/2" 17# Casing set @ 12,300' w/ 900 sks cement

12,700' - 12,800' 35 sks Class H cement plug
& retainer

TD @ 12850'

B-1518
B-1838
B-1839
V-7093

Well Name & Number:	Eureka 9 State Com No. 1		Lease	Composite (four leases)	
County or Parish:	Lea	State/Prov.	New Mexico	Country:	USA
Perforations: (MD)	5436' - 5762' / 6257' - 6391'		(TVD)	12,850'	
Date Completed:				RKB:	
Prepared By:	Charles Kendrix		Last Revision Date:	03/30/05	