

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- 025-06825
⁴ Property Code 006428	⁵ Property Name W.S. Marshall B	⁶ Well No. 8
⁹ Proposed Pool 1 Penrose Skelly Grayburg (50350)		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
L	27	21-S	37-E		2310	South	400	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 P - A	¹² Well Type Code O	¹³ Cable/Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3420'
¹⁶ Multiple No	¹⁷ Proposed Depth 3500' - 3950'	¹⁸ Formation Grayburg	¹⁹ Contractor	²⁰ Spud Date 04/12/1950
Depth to ground water		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume _____ bbls Drilling Method:				
Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Books of Cement	Estimated TOC
	13 3/8"		308'	300	
	8 5/8"		2800'	3200	
	5 1/2"	17#	7474'	1000	200'

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 is proposing to plug back the Blinberry Oil & Gas (06660) reservoir in the W.S. Marshall No. 8 using a cast iron bridge plug and cement. The well will then be re-completed to the Penrose Skelly Grayburg (50350). Please see attachments for a wellbore diagram before and after proposed work.

Pit - Steel Tank per CK

Permit Expires 1 Year From Approval
Date Unless Drilling Underway
Plugback

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 type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> . Signature: _____		OIL CONSERVATION DIVISION	
Printed name: Charles E. Kendrick		Approved by: _____ PETROLEUM ENGINEER	
Title: Engineering Technician		Approval Date: _____ OCT 14 2004	
E-mail Address: cekendrix@MarathonOil.com		Expiration Date: _____	
Date: 10/05/2004	Phone: 713-296-2096	Conditions of Approval: Attached <input type="checkbox"/>	

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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 30-025-06825	² Pool Code 50350	³ Pool Name Penrose Skelly Grayburg
⁴ Property Code 006428	⁵ Property Name W.B. Marshall B	⁶ Well Number 8
⁷ OGRID No. 14021	⁸ Operator Name Marathon Oil Company	⁹ Elevation 3420'

¹⁰ Surface Location

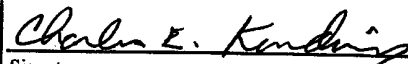
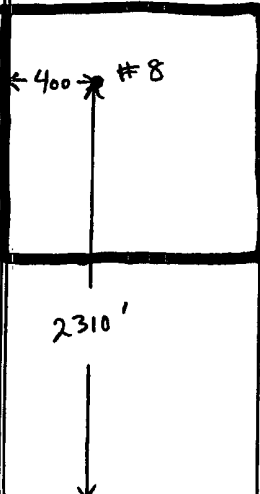
UL or lot no. L	Section 27	Township 21-S	Range 37-E	Lot. Idn	Feet from the 2310'	North/South line South	Feet from the 400'	East/West line West	County Lea
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¹¹ Bottom Hole Location If Different From Surface

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 40	¹³ Joint or Infill N	¹⁴ Consolidation Code	¹⁵ Order No.
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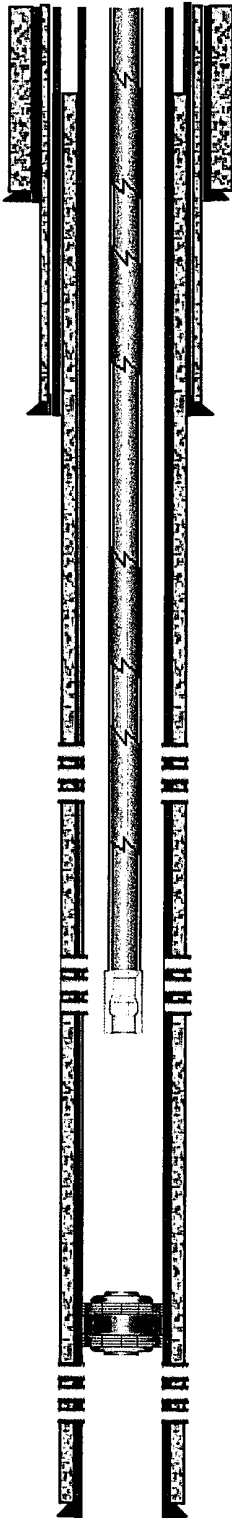
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Charles E. Kendrick Printed Name Engineering Technician cekendrix@MarathonOil.com Title and E-mail Address 10/05/2004 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 Surveyer: Certificate Number



W.S. Marshall before recompletion to Grayburg

Marathon Oil Company
W.S. Marshall B No. 8
5-Oct-04



Top of cement on production casing ~ 200'

Surface Casing
13 3/8" set @ 308' Cmt'd w/ 300 sks

Intermediate Casing
8 5/8" set @ 2,800' Cmt'd w/ 1200 sks

Squeezed Paddock Perfs 5148' 5158'

Blinbry perfs 5,628' - 5,920'
Seating Nipple @ ~ 5971'

CIBP set @ 7209'

Simpson Perfs 7400' - 7445'

Production Casing
5 1/2" 17# Set @ 7,474' Cmt'd w/ 1000 sks

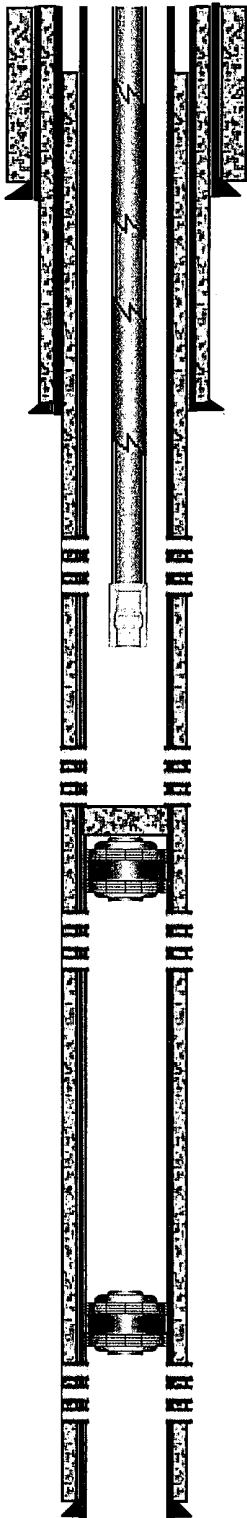
TD @ 7474'

Well Name & Number:	W.S. Marshall B No. 8		Lease	W.S. Marshall B		
County or Parish:	Lea	State/Prov.	New Mexico		Country:	USA
Perforations: (MD)	See Above for detail		(TVD)	7474'		
Date Completed:				RKB:		
Prepared By:	Charles Kendrix		Last Revision Date:	10/05/04		



W.S. Marshall after recompletion to Grayburg

Marathon Oil Company
W.S. Marshall B No. 8
5-Oct-04



Top of cement on Production casing @ ~ 200'

Surface Casing
13 3/8" set @ 308' Cmted w/ 300 sks

Intermediate Casing
8 5/8" set @ 2,800' Cmted w/ 1200 sks

Penrose Skelly Grayburg perms 3500' - 3950'

Squeezed Paddock Perfs 5148' 5158'

CIBP @ 5580' w/ 20 ft cement

Blinebry perms 5,628' - 5,920'

CIBP set @ 7209'

Hare Simpson Perfs 7400' - 7445'

Production Casing
5 1/2" 17# Set @ 7,474' Cmted w/ 1000 sks

TD @ 7475'

	W.S. Marshall B No. 8		Lease	W.S. Marshall B	
County or Parish:	Lea	State/Prov.	New Mexico	Country:	USA
Perforations: (MD)	See Above for detail		(TVD)	7474'	
Date Completed:				RKB:	
Prepared By:	Charles Kendrix		Last Revision Date:	10/05/04	