District I

1625 N. French Dr., Hobbs, NM 88240

District II 1301 W. Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410 District IV

State of New Mexico Energy, Minerals & Natural Resources

March 4, 2004

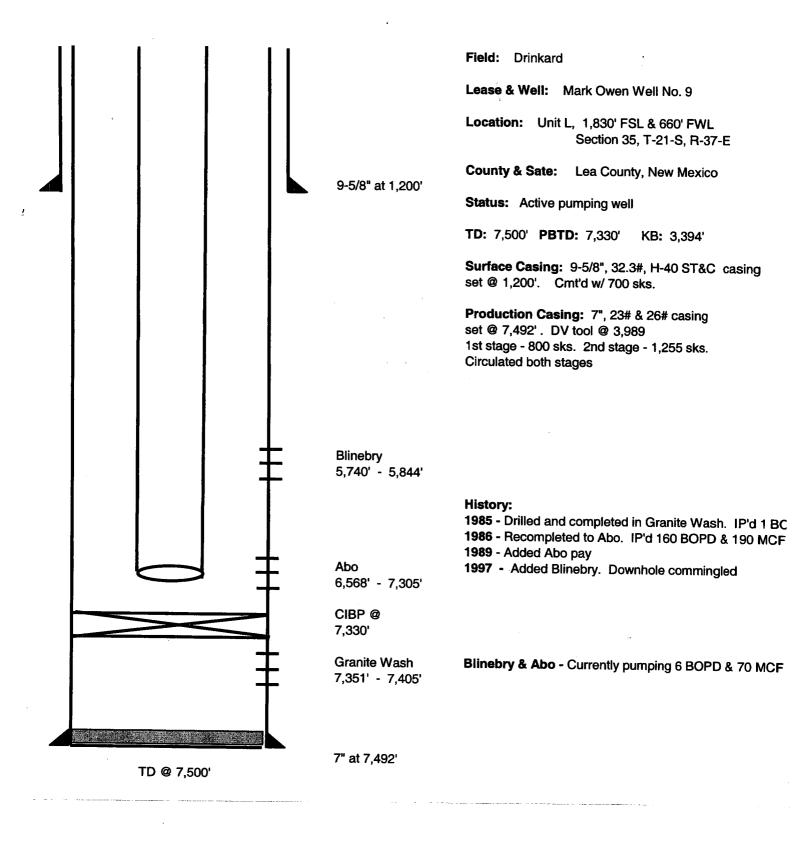
Submit to appropriate District Office

Form C-101

State Lease - 6 Copies Fee Lease - 5 Copies

Oil Conservation Divsiion 1220 S. St. Francis Dr.

1220 S. St. France					Santa Fe,							NDED REPOR	Т		
APPLIC	CATION	FOR I	PERMIT T	O DRIL	L, RE-E	NTER	, DEI	EPEN,	PLUGB	ACK	, OR ADD	A ZONE	_		
APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, I Operator Name and Address Marathon Oil Company										² OGRID Number 14021					
P.O. Box 3487, Houston Texas 77253-3487										³ API Number 30- 025-29468					
⁴ Prope	y Name					⁶ Well No.									
64	wen					9									
	T	<u> </u>	<u>-</u>	<u></u>	⁷ Surface				· · · · · · · · · · · · · · · · · · ·				_		
UL or lot no.	Section 35	Township 21-S		Lot. Idn	Feet from	n the North/South Line South		Feet from	the 1	East/West line	County				
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UL or lot no.	Section	Township		Lot. Idn	Feet from			outh Line	Feet from		East/West line		7		
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	⁹ Proposed Pool 1								¹⁰ Propo	sed Poo	12		1		
	Penrose S	kelly G	rayburg (50			100									
III andata	S	T 1:		lling Pit I				 		· · · · · ·			_		
UL or lot no.	L or lot no. Section Township Range		Range	Lot. Idn Feet from		the	North/South Line		Feet from the E		East/West line	County			
Depth to ground	water			Distance from	nearest fresh w	ater well			Distance from	nearest s	ourface water		-		
¹¹ Work T	`vne Code		12 Well Type Co	l I	13 C-11								4		
WOIR I	A.		Well Type Co	Code 13 Cable/Rotary 14 Le					ease Type Code			15 Ground Level Elevation 3383'			
¹⁶ Mu	-		17 Proposed De	pth	18 Form	nation 19 Contractor				20 Spud Date					
	N O	L	21-	<u> </u>							20212213/	09/1985	╛		
		1		roposed	Casing ar	nd Cen	nent P	rogran	<u> </u>	1000		3	_		
Hole S	ize	Ca	sing Size	Casing w	eight/foot	Setting Depth Sacks of Cen			Cement	ent Soy Astimated TOC					
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8 3/4	8 3/4"		7"	23 & 26#		7492		2375		D		ু ু			
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22 Describe the r						<u> </u>					0201		Permit Expi		
Describe the plow	proposed programme programme programme programme proposed programme programm	gram. If thi n program	s application is t if any Use addi	o DEEPEN o	r PLUG BAC	K, give	the data	on the pre	esent producti	ve zone	and proposed n	ew productive zone	Teg Teg		
Marathon Od					•		A		••				1 -		
rentose ske	ццу Grayi	ourg. Th	is well is	currentl	v produci	no as	a down	nhole o	- Alverimmy	- T Com-	in the Name	<u> </u>	Year		
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zones after	an init	ial prod	uction per	iod in th	e Graybur	g. Ple	ase at	tachme	nt for mo	re de	mingle all tails.	three 33	$\frac{1}{4}$		
		···				Ir							Tom A		
I hereby certify	I hereby certify that the information given above is true and complete to the best of							OIL CONSERVATION DIVISION							
constructed according to NMOCD guidelines a general permit of or							4						Approva		
an (attached) alto	Approved by:						a								
Signature:	-	. Ken				Haul 3 Kruk									
Printed name: Ct	arles E.	Kendris	E			Title: PETROLEUM ENGINEER									
Title: Ex	Approv	al ALLE	04	2004	Γ	ration Date:		1							
E-mail Address:	cekendri	@Marath	т — — — — — — — — — — — — — — — — — — —										1		
Date:	Phone: Conditions of Approval:														
07/2	28/2004		713	-296-2096	5	Attached									



Workover Procedure Mark Owen Well No. 9 1,860' FSL & 660' FWL, Unit L Section 35, T-21-S, R-37-E Lea County, New Mexico

Date: 07/27/2004

WBS #s:

AFE Cost: \$200,000

<u>WI:</u> 100.0% <u>NI</u>

NRI: 87.5%

Elevation:

KB: 3,394'

TD: 7,500'

PBTD: 7,330'

Purpose:

Recomplete to Grayburg

Surface Casing: 9-5/8", 32.3# casing set at 1,200'.

Production Casing: 7", 23# & 26# casing set at 7,492'. DV tool at 3,989'.

Tubing:

2-3/8" J-55 tbg

Current Completion:

Blinebry

5,740' - 5,844'

Abo

6,568' - 7,305'

Special Considerations:

Use limited amounts of 2% KCL for kill fluid. Verify current tbg tally w/Hobbs office prior to RU.

Procedure:

- 1. Inspect surface location and improve if necessary. Test safety anchors to 22,500#.
- 2. SD pumping unit the evening prior to RU. Flow well to production facilities overnight
- 3. MIRU WOR. Kill well w/limited amounts of 2% KCl.
- 4. Disconnect surface equipment. Hang off pumping unit. LD polish rod. POOH w/rods & pump, hot water if necessary
- 5. ND wellhead. NU 3M BOPE. Release TAC and POOH w/2-3/8" tbg string, standing back. Visually inspect and replace as necessary.
- 6. TIH w/6-1/8" bit, casing scraper on 2-7/8' workstring and tag PBTD at 7,330'. POOH w/same. TIH w/7" RBP w/ ball catcher on workstring. Set RBP at 4,100'. Test casing and RBP to 1,000 psi. POOH w/ workstring.

- 7. MIRU Baker Atlas and lubricator. Test lubricator to 1,000 psi. RIH w/ 311T 23 gram charges (EH: 0.41" Pen: 24"). Perforate Grayburg with 2 JSPF, 90 deg. from 3699-3703, 3716-3720, 3735-3739, 3752-3756, 3760-3764, 3779-3783, 3792-3798, 3810-3814 (68 holes). [Perforations depths are picked from WELEX SDL-DSN CSNG log ran on 11/25/84] POOH. RD Baker Atlas.
- 8. TIH w/ packer on 2-7/8" workstring. Set pkr at 3650'. MIRU Halliburton. Test lines to 5,000 psi. Test pkr & casing to 1,000 psi.
- 9. Acidize Grayburg (3,699' 3,814) w/3,000 gals 15% HCl dropping 130 1.3 SG ball sealers at a rate of 6-8 BPM. Flush to top perf. RD Halliburton
- 10. RU Swab equipment. Swab back acid load. RD swab equipment. Release packer and TOOH w/packer and workstring.
- 11. Change out pipe rams to 3-1/2". TIH w/7" packer on 3-1/2" frac string, hydrotesting to 8,000 psi. Set packer at 3,650'. Test packer to 1,000 psi.
- 12. RU Halliburton. Install treating lines and frac valve. Pressure test line to 9,000 psi. Sand fracture stimulate the Grayburg as per attached recommendation. Anticipated treating pressure = 5,000 psi. Maximum treating pressure = 8,000 psi. RD Halliburton.
- 13. Install flowback manifold. Flowback well until well dies.
- 14. RIH w/sinker bar on sandline and tag sand. Release packer and TOOH w/3-1/2" frac string, laying down.
- 15. TIH w/overshot for RBP, SN on 2-3/8" production string. Swab back frac load. TIH and release RBP. TOH w/same
- 16. TIH w/mud anchor, SN on 2-3/8" production tbg. Space out tubing w/SN ~3,700
- 17. ND BOPE and NU wellhead. TIH w/pump & rods. Space out pump. Hang well on. Connect surface equipment. RD WOR and MOL. Start pumping well to production facilities.

Pump design should be able to produce 200 BFPD - 1-3/4" insert at 6 SPM w/120" SL - 205 BFPD @ 80%

XC: R. S. Bose W. H. Arnett B. D. Lockhart Well File District I 1625 N. French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

State of New Mexico Energy, Minerals & Natural Resources

Form C-102 Revised June 10, 2003

Submit to Appropriate District Office

Signature and Seal of Professional Surveyer:

Certificate Number

District III	10	OIL CONSERVATION DIVISION 1220 South St. Francis Dr.						Submit to Appropriate District Office State Lease - 4 Copies					
1000 Rio Brazos R		I						Fee Lease - 3 Copies					
District IV					Sa	anta Fe,	, NM &	37505				-	
1220 S. St. Francis	Dr., Santa			ATION	J A	ND A(CREA	GE DEDIC	ATION PLA	т	AME	ENDED REPORT	
1	API Numb			LOCATION AND ACREAGE DEDICAT 2 Pool Code						³ Pool Name			
30-		_50	350			:	Penrose Skelly Grayburg						
⁴ Property		⁵ Property Name						⁶ Well Number					
00645				Mark Owen						I		9	
⁷ OGRID	⁸ Operator Name									⁹ Elevation			
1402:	<u> </u>		Marathon Oil Company									3383 '	
!					10	⁰ Surface	e Locai	tion				<u> </u>	
UL or lot no.	Section	Township	Range	Lot	t. Idn		from the	North/South line	Feet from the	East/West	line	County	
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			11 Bot	ttom Ho	ole L	ocation	If Diff	erent From Su			<u></u>		
UL or lot no.	Section	Township	Range		t. Idn		from the	North/South line		East/Wes	t line	County	
12 Dedicated Acres	¹³ Join	nt or Infill	14 Consolidatio	n Code	15 Or	rder No.			<u> </u>				
40		N											
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									Printed Name Engineeri cekendris	_			
									Title and E-mai	l Address		·	
سببسك إذا البياس	ين الم								Date	<u> </u>			
140-14		_ dedica	ded lasse	K 140	, e	,			18 SURVE I hereby certify plat was plotted made by me or a same is true and	that the well from field n ınder my su	l locatio otes of pervisio	actual surveys on, and that the	
1///									Detection				