District	State of Ne									Form C-101		
District I 1625 N. French Di	r., Hobbs, NM	88240		Energy,	Minerals &	Natu	ral Resources				May 27, 2004	
District II 1301 W. Grand Avanua Artasia NM 88210						Submit to appropriate District Offi					riate District Office	
District III Oll Conserva							n Division					
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St.										1		
1220 S. St. Franc					Santa Fe, N				L	-	NDED REPORT	
APPLIC	CATION				LL, RE-EN	ITEI	R, DEEPEN, I	PLUGBA				
¹ Operator Name and Address								² OGRID Number 14021				
Marathon Oil Company P.O. Box 3487 Houston, TX 77253-3487									³ API Number			
	rty Code	203-340/	⁵ Property Name				30- 25-37488					
6442				J.L. Muncy				14				
⁹ Proposed Pool I Langlie Mattix; Seven Rivers							¹⁰ Proposed Pool 2					
Langin			ivers quee	in druge	⁷ Surface I	ocat	ion				i	
UL or lot no.	Section	Range	Lot. Idn Feet from the North/Sou				Feet from th	ne East/W	Vest line	County		
N	24	Township 22-S	37-E		660		South	1980	W	est	Lea	
-		⁸ F	⁸ Proposed Bottom Hole Locati				Different From	m Surface	1 Surface			
UL or lot no.	Section	Township	Range	Lot. Id			North/South Line	Feet from th		Vest line	County	
			-		dditional W	all I	ocation					
ll West To	na Cada	1 1	² Well Type Co					e Type Code	1 1	5 Count 1	and Elevation	
¹¹ Work Type Code			- well Type Col	ue	¹³ Cable/Rotary ¹⁴ Leas			P P		¹⁵ Ground Level Elevation 3312*		
-			⁷ Proposed Dept		¹⁸ Formation ¹⁹ C				²⁰ Spud Date			
N Depth to ground water				Queen / Grayburg Distance from nearest fresh water well				Distance from	naarast surfa	an water		
Depth to ground	water			Distance I	ion nearest nesh	water v		Distance nonn	nearest surra	ce water		
Pit: Liner: Syr	nthetic 🛄 🔄	mils	thick Cla	у	Pit Volume		bbls Drilling Meth	od:				
Closed-Lo	oop System				F	Fresh W	/ater Brine	Die:	sel/Oil-based		Gas/Air	
			21	Propose	d Casing an	d Ce	ment Program			1	621207	
Hole Size Casing			ing Size Casing weight/foot				Setting Depth Sacks of Cemer		Cement			
12 1/4"		+	8 5/8"		24#		1256'	860 s		/? ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Sulfations	12) 121
7 7/8"			5 1/2"		15.5#		F2001	1100	-	<u>र् ज</u>	Sugface XS	45
										nrova	P - Star	, , ,
					ire		1 YOUTF	Trom of	ADIWAY.			
······································						Permit Expires 1 Year From Approval					9/	
²² Describe the		J If this				1			COUL	<u>~0</u>	new productive zone.	
Describe the blow						K, giv	e the data on the pre	sent productiv	a zone and	proposea	new productive zone.	
Marathon O	il Compan	v is pro	posina to	plug ba	ack the l.L.	Muno	cy No. 14 in t	he curren	t non-pr	oducti	ve Paddock	
interval,	and re-co	mplete t	he well to	o the La	anglie Matti	x; Se	even Rivers, Q	ueen, Gra	yburg po	ol. A (C-102 is	
on file wi	th the NM	OCD for	this new p	5001. P	lease attach	ment	for details o	f well wo	rk to be	perfo	rmed.	
						1						
²³ I hereby certify that the information given above is true and complete to the best of						OIL CONSERVATION DIVISION						
my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines a general permit , or												
an (attached) alternative OCD approved plan						Approved by:						
Signature: Charles E. Kendrix							Title: OC DISTRICT SUPERVISOR/GENERAL MANAG					
Title: Reg. Compliance Rep.											IN ADDI INTALE LAPA	171196
E-mail Address: cekendrix@marathonoil.com							Approval Date: SEP 1 4 2006 Expiration Date:					
Date: Phone:						Conditions of Approval:						
Date:						Cond	litions of Approval:					
	/07/2006		Phone:	.3-296-2	:096	Cond Attac						

Completion Procedure

API No. 30-025-37488 J L Muncy 14 660' FSL & 1980' FWL Section 24, T22S-R37E, UL "N" Lea County, New Mexico

WBS NO: RW.06.14367.CAP.CMP

Date:September 6th, 2006Purpose:Complete GR and Queen FormationsCurrent Production:Paddock by 7/31/06: 3 BBL/D of oil and 28 MCF/D (8 BOE/D).Current Perforations:5330-50, 57-74 @ 2 SPF

Procedure:

- 1. Inspect surface location and improve if necessary. Test safety anchors.
- 2. MIRU WOR. MIRU Reverse Unit. Kill well with fresh water. POOH Rod string. Inspect the Rods for bad mechanical condition and paraffin accumulation. If paraffin is founded, 20 BBL of Hot Water treatment should be used. ND bonnet wellhead. Release TAC. NU 3M BOPE. POOH w/2-7/8" Tbg string, standing back. Visually inspect and replace as necessary.
- 3. RIH with 4 3/4" bit, 5 1/2" casing scraper to 5000'. POOH.
- 4. RU WSU. POOH with rods and pump. Install and test BOPE. POOH with 2-7/8" tubing.
- 5. RIH w/ 5 1/2" CIBP on 2 7/8" Tbg and set @ 4990'. Pick up TBG 30'. Pressure test the CIBP to 1000 PSI. Pick up Tbg string to 3910'. Circulate balanced plug of 10 BLL of 10% acetic acid across the proposed perforation interval (3820 to 3910'). POOH with tubing.

6. **Perforate:**

RU Baker-Atlas electric line. Install full lubricator and pack-off; test to 1000 PSI. Use Halliburton CBL (GR AND CCL) for depth correlation (which was previous correlated to Halliburton Dual Spaced Neutron dated 2/17/06). Note: short joint at 4577.5'-4598.5'. RIH with 3-1/8" perf guns loaded with 311T charges 1 SPF and 2 SPF perforate 30 feet with 40 holes as follows: GRAYBURG FORMATION:

3820'- 3830' (10 feet - 10 holes) 3880' - 3890' (10 feet - 20 holes) 3900' - 3910' (10 feet - 10 holes) RD Baker-Atlas. Pump acid away using 20 bbls of fresh water. Run a bailer with 3 sxs of sand.

- 7. RIH with 5 1/2" RBP and 2 7/8" TBG. Set ~ 600 ft. Remove BOP. Install frac valve and pressure test (Casing Wellhead and frac valve) to 3000 PSI. Install BOP, open frac valve, RIH with retrieve-head in 2 7/8" TBG and unset the RBP. POOH. Close the frac valve and Remove BOP.
- 8. Install Stinger Tree Saver. RU Halliburton Frac. Test line to 6000 PSI.
- ACID and FRAC following the Halliburton Frac Procedure "Muncy 14 Halliburton Frac proc GB.doc, dated of August 7th, 2006 (STAGE 1). Using Expedite for sand production control. Bleed of the pressure.
- RIH with a junk basket to 3650'. Ensure that sand top (if any) is below 3650' depth. If top above 3650', the second stage frac is canceled and well should be SI at least for 3 to 4 hours, in order to achieve the best Expedite settlement, before cleaning the wellbore. (Please, skip to *item 17* if 2nd frac stage is canceled).
- 11. RD the Tree saver.
- RIH with 5 ½" CIBP and 2 7/8" TBG. Set the CIBP at 3650' depth. Pick up TBG 30'. Pressure test the CIBP to 1000 PSI. Pick up Tbg string to 3630'. Circulate balanced plug of 10 BLL of 10% acetic acid across the proposed perforation interval (3620' to 3630'). POOH with tubing.
- 13. Perforate: RU Baker-Atlas electric line. Install full lubricator and pack-off; test to 1000 PSI. Use Halliburton CBL (GR and CCL) for depth correlation (which was previous correlated to Halliburton Dual Spaced Neutron dated 2/17/06). Note: short joint at 4577.5'-4598.5'. RIH with 3-1/8" perf guns loaded with 311T charges at 2 SPF and perforate 10 feet with 20 holes as follows: It is desired to perforate from top down to maximize efficiency of acetic acid in wellbore

QUEEN FORMATION:

3620'- 3630' (10 feet – 20 holes). RD Baker-Atlas. Pump acid away using 20 bbls of fresh water.

- Install Stinger Tree Saver. RU Halliburton Frac. Test line to 6000 PSI.
- 15. *ACID and FRAC* following the Halliburton Frac Procedure "Muncy 14 Halliburton Frac proc GB.doc, dated of August 7th, 2006 (STAGE 2). Using Expedite for sand production control. Bleed of the pressure.
- 16. RD Halliburton equipment and tree saver. SWIFN.
- 17. Set RBP at 1000' and test. Remove frac valve. Install BOP. Recover RBP.
- 18. RIH w/ 2 7/8" Tbg and 4 3/4" mill bit in order to clean out the wellbore at Queen Formation. Tag and drill CIBP @ 3650'.
- 19. Continue RIH and tag CIBP @ 4990'. POOH.
- 20. RIH with 2-7/8" production tubing. Set pump intake at top of perforations (3620'). RIH rods and pump, PWOP. Verify unit is pumping, RD WSU. Test well to battery or tank as advised by Morehead.
- 21. RU WSU.
- 22. Test Grayburg and Queen Interval for 1-2 weeks to obtain indicative well test.