Oil Conservation Division

1220 South 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

Operator Name and Address									² OGRID Number 14021			
		MARATHON	DIL COMPA	ANY .				API Number 30 – 025-37754				
³ Property Code				⁹ Property Name					/ /		" Well No.	
	35507				MCDONALD STATE A/C			C 1-15 1				
ADD ADD	ITIONAL	POOL	⁹ Proposed Pool - Eunice 7R QUI		مر 24130 POOL COI	DE)			¹⁰ Prop	osed Pool 2		
				X	⁷ Surface		n		······			
UL or lot no.	Section	Townsh	ip Range	Lot			North/Sc	outh line	Feet from the	East/West	line County	
F	15	22-S	36-E		165		NOR		1650	WEST	LEA	
	·	r	⁸ Proj	osed Bott	om Hole Locat	ion If Di	fferen	t From	Surface	r	[······	
UL or lot no.	Section	Townsh	ip Range	Lot							line County	
II Work ?	Type Code		12 Wall Trees		ditional We		matic				16	
ADD A	ZONE		OIL				ole/Rotary ¹⁴ L		Lease Type Code PRIVATE		¹⁵ Ground Level Elevation 3353 ³	
	ultiple Y					Formation		¹⁹ Contractor		²⁰ Spud Date ACTUAL = 04/07/2006		
Depth to Grou	ndwater	••••		Distance	e from nearest fresl	h water wel	1		Distance from nearest surface water			
Pit: Liner:	Synthetic	x🗆	12_mils thick C	lay 🗌 Pit	Volume:bb	ols	D	rillin <u>g M</u>	ethod;			
Close	d-Loop Sys	stem 🗌								Diesel/Oil-bas	ed 🗌 Gas/Air 🗌	
		1		²¹ Propos	ed Casing a	nd Cem	nent F	rogram	m		····	
Hole Si	ize		Casing Size	Casing weight/foot		Sett	ting De	pth			Estimated TOC	
12.25			8.62.5	24		1244'		780		00		
7.87	5	5.5			15.5		5664'		1680		0	
······				EX		CA	CASING					
				o DEEPEN or PLUG BACK, give								
Maratho 7R Quee intervals	n Oil C n South will be Porn Đ	iompa Forn repor nit Exp ata U	pires 1 Yes Inless Dritti Ad	approva - 3634') comple ir From ng Unde (0 i n 0	l to move uj . Attached p tion work is Approval erway	•	in thi find I zed.	is exis Form	ting well and C-102 for th	i to com is propo	plete the Eunice sal. Perforated	
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							(OIL C	ONSERVAT	ION DIV	VISION	
constructed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .						Approved	i by:	1	(1,))	·	`	
Printed name:	Frank M	. Krugh	Frenk	n Kur	L t	Title:		()(S FIELD RE	PRESENT	ATTVE HISTART MAN	
itle: Reg. C	ompl. Rep	. 111	<i>c</i>	- CA	·	Approval	Date:		E	piration Dat	ie:	
E-mail Addres	s: fmkrug	h@mara	thonoil.com			_	SE		5 2006		· · · ·	
Date: 12006 Phone: 713-296-3546						Cond CA	lition: ANNO	s of ap T prod	ation Divis proval : Appl luce Downho l in Santa Fe.	roval for	drilling ONLY	

DISTRICT I	. 600423, 173 4	12240		Rang		New Mexico ural Resettivity Dispartment			
DISTRICT II 1301 V. GRAND AVEN DISTRICT III 1000 Rio Brazos			OIL	. CON 1220	SERVA SOUTH ST	TION DIVI 5. Francis de Mexico 8750	SION Sub	Revised Oc mit to Appropriate State Les Fee Les	Porm C- tober 12, : District Gi se - 4 Co se - 3 Co
DISTRICT IV	DD. SANTA PE.		WELL L			REAGE DEDICAT			
30-0;	Number 25-3°	7754		Pool Code 4130		Curre	Peol No.	Queen	Sout
3550	7			McDo	Property nald State	Name A/C 1-15		Well Nu	mber
00810 N 1402	••				Operator ATHON OI		Elevati	Elevation 3543'	
UL or lot No.	Section	1			Surface I				J
F	15	Township 22-S	Bange 36-E	lot ida	Feet from U 1650	North/South line	Feet from the 1650	East/West line	County
		.	Bottom	Hole Lo	L	fferent From Su	1	WEST	LEA
UL or lot No.	Section	Township	Bange	Lot idn	Fest from th			East/West line	County
Dedicated Acres	Joint or	r Infill Co	nsolidation	Code Or	der No.				
40									
NO ALLO	WABLE W	ILL BE AS OR A N	SSIGNED (TO THIS	COMPLETION	UNTIL ALL INTE N APPROVED BY	RESTS HAVE BI	SEN CONSOLIDA	TED
			77 00ETIC CC NAD 27 Y=50888 X=83256 AT.=32°23' IG.=103°15	7 NME 80.2 N 65.0 E '39.91 ° N			ay anorreage ay anorreage or unleased mini- licituding the p or has a right location purchased order of such to a robusta computany pool by the division by the division <i>NAmk</i> Signature FRAMK M Printed Name SURVEYOF short on this pi pooles of actual a under ay supervitore	and complete to the and complete to the and bellef, and that the other, and that the other owner working : is to a costract with a costract with a costract with the cost of cost with the the out h a cost of the cost of the transponde dy cost to the best of my b RY 14, 2006	this laterast laterast laterast laterast laterast esterast esterast geterast geterast onterast esterast hateras
	/ 	··	+- 				Date Surveyed Signature & Se Professionel Su	al of	DSR

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Workover Procedure API No. 30-025-37754 McDonald State A/C 1 #15-1 1650' FNL & 1650' FWL Section 15, T22S-R36E, UL "F" Lea County, New Mexico

WBS NO:	DD.06.13712.CAP.CMP								
Date:	September 13th, 2006								
Purpose:	Recomplete w/ frac to Yates/Seven Rivers (Jalmat Field)								
Current formation: Grayburg formation (qo=3.5 bbl/d, qg= 23mcf/d, qw=472 bbl/d, qt=7 boe/d, as 9/8/2006).									
WI: 100%		NRI: 87.5%							
Surface Casin	ıg:	8-5/8", 24#, J-55 set at 1244'. Cemented w/ 790' sx. TOC at Surface. Circulated 230 sx.							
Production C	asing:	5-1/2", 15.5#, J-55 LT&C at 5662' (DV Tool at 4397'). Stage one cemented with 300sx (circulated). Stage two cemented w/ 780 sx (Fill C) 600 sx (Premium), it did not circulate. TOC at 1006' from CBL (07/26/2006).							
Production T	ubing:	2-7/8", 6.5#, J-55, EUE							
Reservoir Pre	essure:	Expected Pressure ~ 1570 PSI.							
Performance/Capacities:									
Tubulars:		ID (in.)	Drift <u>(in.)</u>	Burst (80%)	Capacity				
2-7/8" 6.5# J-5	55	$\frac{(111.)}{2.441}$	2.347	<u>(PSI)</u> 5808	<u>(bbl/ft)</u> .00579				

Procedure:

5-1/2" 15.5# K-55

Tbg/Csg Annulus

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1. Inspect surface location and improve if necessary. Test safety anchors. Use 2% KCl water or produced water as workover fluid.

3848

.0238

.0158

- 2. RU WSU. Kill well. Unseat pump POOH w/ Rods and pump. Unflange well head, release TAC. Install and test BOPE. POOH Stand Back 2-7/8" Tbg.
- RIH with Tbg set CIBP set @ +/-3930' (about 1jt above top perforation). Test casing 3. to 2000 PSI. Pick up Tbg to bottom of proposed perf @ 3634'. Circulate 20-bbl balanced plug of 10% acetic acid. Inhibit acid for 24-hours at 100 deg F. POOH stand back tubing.
- 4. Install frac valve and test.

4.825

4.95

5. **Perforate:**

RU Baker-Atlas electric line with pack-off. For depth control use CBL dated July 26, 2006. RU and test pack-off and lubricator to 1000 psi. RIH with guns loaded with 311T charges at 2SPF and perforate 20 feet with 40 holes as follows. Note marker joint @ 3182-3203. (It is desired to perforate from top down to maximize acid in wellbore):

3356' to 3358' (2 ft, 4 holes) 3394' to 3396' (2 ft, 4 holes) 3412' to 3414' (2 ft, 4 holes) 3430' to 3432' (2 ft, 4 holes) 3430 to 3492' (2 ft, 4 holes) 3510' to 3512' (2 ft, 4 holes) 3544' to 3546' (2 ft, 4 holes) 3578' to 3580' (2 ft, 4 holes) 3616' to 3618' (2 ft, 4 holes)

3632' to 3634' (2ft, 4 holes)RIH w/ cement bailer and dump one load of cement on top of the CIBP.Pump into perfs to break down, pump 20 bbls of 2% or produced water to flush acid.RD Baker-Atlas.

- 6. RIH with 2-7/8" production tubing and rental 5 ¹/₂" packer set at 3326'. Test backside to 500 PSI.
- 7. RU acid company with 50 bbls of 15% NEFEHCL acid. Have at least 500 HHP on location for pumping and positive displacement ball injector. Pump job @ max rate not to exceed 3848 psi. Inhibit acid for 4-hours at 100 deg F. Load ball injector with 50 (1.1 SG) ball sealers. Drop 1 ball/bbl of acid pumped evenly distributed throughout acid job. Over-displace acid using 20 bbls of 2% water. RD acid company. POOH 2 7/8' TBG with 5 ¹/₂" packer.
- 8. Mobilize Extra 500-BBl tank for gel hydration.
- 9. Install Stinger Tree Saver. RU Halliburton Frac. Test line to 6000 PSI.
- 10. Frac per Halliburton design, using Expedite. (Dated September 13th, 2006).
- 11. RD Halliburton equipment and tree saver.
- 12. Remove frac valve.
- 13. RIH w/ bit and clean-out sand to top of CMT plug ~ 3920'. POOH.
- 14. RIH with 2 7/8" production equipment. Remove BOP. Install wellhead. Set pump intake below lower perfs (due to use of Expedite). Install rods and pump. PWOP. Verify unit is pumping, RD WSU. Test well to battery or tank as advised by Morehead.

Randy Bose - (Wk) 432-688-1410 (Cell) 432-557-3470 (Hm) 432-687-3907 Jackline Renno- (Wk) 713-296-3525