

#### **Southern Business Unit**

P. O. Box 3487 Houston, TX 77253-3487 5555 San Felipe Road Houston, TX 77056-2799

Telephone: (713) 296-2096 FAX: (713) 499-6750

August 26, 2005

New Mexico Oil Conservation Division Attn: Mr. Tim Gum 1301 West Grand Avenue Artesia, New Mexico 88210

RE: Indian Hills Unit No 30 abandonment SWD zone

Dear Mr. Gum

The C-101 accompanying this letter briefly outlines Marathon's proposal for abandoning the Devonian SWD zone in the Indian Hills Unit No 30. I contacted Mr. Mike Bratcher in your district office earlier this month about plugging this well. Mr. Bratcher advised that you wanted Marathon to remove the Baker permanent packer from the well and then set a cast iron bridge plug with 200 feet of cement on top of the CIBP. At the time of our discussion with Mr. Bratcher, Marathon was proposing to set a cast iron bridge plug above the packer and pump 50 feet of cement on top of the bridge plug.

Marathon has changed the proposal on our abandonment procedure in order to avoid the additional expense and possible problems of removing the Baker permanent packer, which would have to be drilled and fished or pushed to the bottom of the hole. We propose to set a cement retainer above the permanent packer and squeeze the entire open hole Devonian interval and the cased hole section of the well below the packer with 200 sacks of cement, which represents 50% excess over the calculated open hole volume. This is the approach used on Marathon's successful squeeze of the Devonian formation in the Indian Basin Gas Com No 1 (old acid gas disposal well). We would like to leave 20' of cement on top of the retainer in order to test the formations immediately above the permanent packer.

I would like to arrange a call with you to discuss these issues with Marathon's engineers for the project. If you would please contact me when you receive this letter with a time that you would be available it would be greatly appreciated. My phone number is 713-296-2096 or you can reach me through email at cekendrix@marathonoil.com

Thank You.

Charles E. Kendings Charles E. Kendrix Engineering Technician

Marathon Oil Company

As Per call w/ Charles Kendrin & Ken Baker on 9-20-05-They will use A Packer Not A Refainer- They will TAT Cont..

### Form C-101 May 27, 2004

State of New Mexico Energy, Minerals & Natural Resour RECEIVED

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

Oil Conservation Divsiio 68. April 5005

Submit to appropriate District Office

Santa Fe, NM 87505

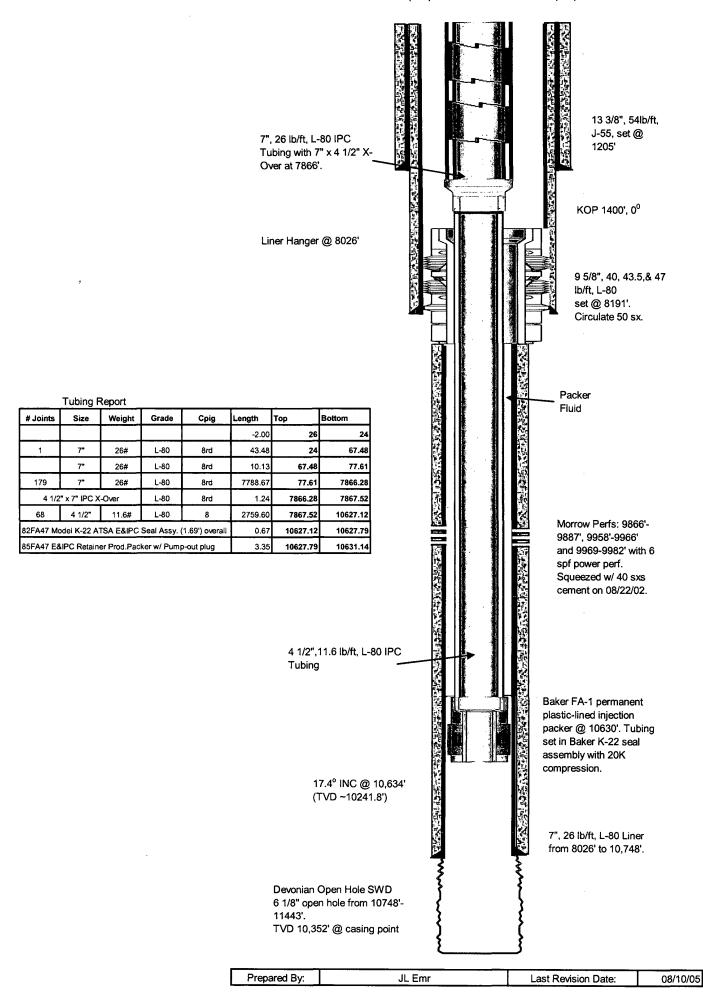
AMENDED REPORT

APPLIC	CATION	FOR PI	ERMIT T	O DRI	LL, RE-EN	NTE	R, DEEPEN,	PLUGBAC	cK, OR	ADD	A ZONE	
<sup>1</sup> Operator Name and Address									<sup>2</sup> OGRID Number			
Marathon Oil Company								<b>14021</b> <sup>3</sup> API Number				
P.O. Box 3487 Houston, TX 77253-3487								30- 15-31655				
<sup>4</sup> Property Code <sup>5</sup> Property									<sup>6</sup> Well No.			
006409 Tridian Hil						Ls Unit 30						
		Devonian						11000000				
<sup>7</sup> Surface 1							tion					
UL or lot no.	Section	Township Range		Lot. Idn Feet from t		the	North/South Line	Feet from the	East/We	ast/West line County		
L	20	21-S 24-E		1494		4	South	688	We	st	Eddy	
<sup>8</sup> Proposed Bottom Hole Location If Different From Surface												
UL or lot no.	UL or lot no. Section T		Township Range		Lot. Idn Feet from the		North/South Line	Feet from the	East/We	est line	County	
F	F 20 21-S		24-E		149		North	1523	We	st	Eddy	
					dditional W							
<sup>11</sup> Work T	1	Well Type Cod	ie				ase Type Code Federal		15 Ground Level Elevation 3791			
<sup>16</sup> Mul	P Itiple	1	7 Proposed Dept	n 18 Formatio		ıtion		Contractor	+	20 Spud Date		
	шрю		Troposed Dopt		Devor			Conductor		ора		
Depth to ground water Dist				Distance fr	Distance from nearest fresh water well			Distance from nearest surface water				
Pit: Liner: Sy	nthetic	mils	thick Clay	y 🔲	Pit Volume		bbls Drilling Met	hod:				
Closed-L	oop System	]			1	Fresh V	Vater Brin	e Diesel	Oil-based		Gas/Air 🔲	
<u> </u>			<sup>21</sup> I	Propose	d Casing an	nd Ce	ment Progran	n				
Hole :	Size	Cas			Casing weight/foot		Setting Depth	Sacks of Cement		Estimated TOC		
17 1/2"		13 3/8"		54 #			1205'	1875		Surface		
12 1/4"		9 5/8"		47 #		8191'		2130		Surface		
8 1/2"		7"		26 #		802	26'- 10,748'	350		80261		
		1										
Describe the Describe the blo	proposed prog	ram. If this n program, i	application is t fany. Use add	to DEEPEN	N or PLUG BAC s if necessary.	CK, giv	e the data on the pr	esent productive	one and pr	roposed n	ew productive zone.	
The Devoni seeking ap tubing for will then	an is curr proval to the well, be squeeze	rently and abandon and set at the	n open hol this zone tting a ce 150% of t	e SWD c by rem ment re the volum	ompletion for oving the stainer above me of the 1	rom : plit e the ower	SWD zone in o 10748' to 114' string of 7" a Baker perman cased and ope of the retain	13' (measure & 4 1/2" ca ment packer en hole sect	d depth sing th @ 10630	). Marat ser	athon is ves as Devonian	
<sup>23</sup> 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 CONSERVATION DIVISION						
constructed according to NMOCD guidelines a general permit, or an (attached) alternative OCD-approved plan.  Signature:						Approved by:						
Printed name: Charles E. Kendrix							Title:					
Title: Engineering Technician						Appr	oval Date:	Expiration Date:				
E-mail Address:	cekendri	@marath	onoil.com									
Date:	Date:			Phone:			Conditions of Approval:					
08/25/2005		713-296-2096			Attached							



## Indian Hills Unit #30 Before work to plug back Devonian SWD

GL 3791', KB 3817', TD 11443' (Depths are Measured Depth)



### MARATHON

# Indian Hills Unit #30 Preposed wellbore after work completed to plug back Devonian

GL 3791', KB 3817', TD 11443' (Depths are Measured Depth)

