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

Date:

State of New Mexico Energy, Minerals & Natural Resources

Oil Conservation Divsion 1220 S. St. Francis Dry Santa Fe, NM 87505 Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

AMENDED REPORT

APPLIC	CATION	FO:	R PE	RMIT T	O DRI	LL, RE-H	ENTE	R, DE	EPEN,	PLUGBAC	K, OR A	DD A ZONE		
<sup>1</sup> Operator Name and Address											<sup>2</sup> OGRID Number			
Marathon Oil Company										ļ	3 API Number			
P.O. Box 34		ston	Testas	77253	-3487					30- 015-2		Der		
<sup>4</sup> Property Code <sup>5</sup> Propert							y Name				<sup>6</sup> Well No.			
006	408		L		Inc		s State Com 4							
F	ı				<u> </u>	<sup>7</sup> Surface				<del></del>				
	l i		Township Range		Lot. Idn				outh Line	Feet from the	East/West lin			
8 Proposed Po					<u>                                     </u>	1880		North		660	West	Eddy		
Floposed Bottom Role Loca														
UL or lot no.	Section	Town	-	Range	Lot. Idn			North/South Line		Feet from the	East/West lin			
E	E 36		<b>20-S 24-E</b> 9 Proposed Pool 1		1_1		80	North		10 70	West	Eddy		
	To Be		posed Po mp Wil							<sup>10</sup> Proposed	Pool 2			
					ling Pit	Location	and O	ther In	formati		<del> </del>			
UL or lot no.	7	Township Range		Lot. Ida		Feet from the		outh Line	Feet from the	East/West lin				
UL or lot no. Section		Township Range		Kange	201. 1011	rect non	TOTAL TOTAL		oum Line	reet nom the	East/West in	e County		
Depth to ground water Distance from nearest fresh							water well			Distance from nearest surface water				
Work Type Code			12	Well Type Co	de	e 13 Cable/Rotar			14 Le	ase Type Code	<sup>15</sup> Gro	15 Ground Level Elevation 3634		
i6 Mult		17	Proposed Dep					Contractor 20 Spud Date						
	b									12/3:		12/31/1992		
				<sup>21</sup> P	roposed	l Casing a	nd Ce	ment P	rogram	)				
Hole Size Casing Size				Casing	1	Setting Depth		Sacks of Cem	ent	Estimated TOC				
20 <b>"</b>		16°				55#	40 •		redi-mix		2	٥٠		
12 1/4	12 1/4"		9 5/	/8"	32#		1220'		1100			حـ ن٥		
8 3/4	11	7"			23 & 26			7999 '		1100		1000' from GL		
Describe the pr Describe the blowd Marathon Oil attached doo This well is	ut prevention Lis properties	osing	am, if an g to 1 Lanned	y. Use addit recomplet l complet	tional sheets te the I	if necessary.  Indian Hill  Cedures as	ls Sta nd wel	te Com 1 diagn	to the	Wolfcamp in	terval. P	ed new productive zone		
<sup>23</sup> I hereby certify t my knowledge and	belief. I furtl	her cer	tify that	the drilling	; pit will be		BE	1	_	ONSERVAT	ION DIVI	SION		
constructed according to NMOCD guidelines a general permit, or an (attached) alternative OCD-approved plan							Approved by: DISTRICT II SUZZANA							
Signature: Chorles E. Kenduly														
Printed name: Charles E. Kendrix							Title:							
Title: <b>Eoc</b>	gineering	Tec	hnici	en.			Appro	Approvar Date: 1 4 2004 Expiration Date: 1				JUL 1 4 2005		
E-mail Address:	cekendrix	Mar	athon	oil.com										

Conditions of Approval:

District I 1625 N. French Dr., Hobbs, NM 88240 District\_II

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

State of New Mexico Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Form C-1 Revised June 10, 20

Submit to Appropriate District Of

State Lease - 4 Cor Fee Lease - 3 Cor

District IV	Ka., Aztec, I	NM 8/410		S	anta Fe, NM	87505		Г	ce Lease - 5 C			
1220 S. St. Franc	is Dr., Santa	Fe, NM 875	05			•		☐ AM	MENDED REP			
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	<sup>1</sup> API Numb			<sup>2</sup> Pool Code		· · · · · · · · · · · · · · · · · · ·	<sup>3</sup> Pool Na					
30	-015-272	153			ľ		Wildcat W	olfcamp				
<sup>4</sup> Property	Code				<sup>5</sup> Property N	ame		<del></del>	<sup>6</sup> Well Number			
006408				ב		4						
<sup>7</sup> OGRII					Notion Hills :  8 Operator N		·		<sup>9</sup> Elevation			
1402	14021				Marathon Oil Company							
!	<del></del>	<del></del>			<sup>0</sup> Surface Loca				_3634' GL			
UL or lot no.	or lot no. Section T		Range	Lot. Idn		North/South line	Feet from the	East/West line	Co			
E	36	20-S	24-E		1880	North	660	West	Eddy			
			<sup>11</sup> Bot	tom Hole I	ocation If Dif	erent From Su	rface					
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South line	Feet from the	East/West line	C			
						}						
12 Dedicated Acre	s 13 Join	t or Infill	<sup>14</sup> Consolidatio	n Code 15 Or	rder No.							
320	1	N	C									
#4 660,50	E	- 5c	98		E	10083	Charles I Printed Name Engineeri cekendris Title and E-mai		an			
			ĝ.				18SURVE I hereby certify plat was plotted made by me or t same is true and	YOR CER' that the well local from field notes of under my supervis I correct to the be. Professional Surveyer:	ion, and that the			

Certificate Number

## **Indian Hills State Com #4**

## **Wolfcamp Re-Completion Procedure**

Surface Hole Location: 1880' FNL & 660' FWL, Section 36, Township 20 South, Range 24 East Indian Basin Field, Eddy Co. NM

Date:

June 4, 2004

Purpose:

Complete well to the Wolfcamp Formation

**Current Status:** 

Previous Upper Penn perforations and Morrow tail have been permanently abandoned. Abandonment of these zones consists of 3 cement plugs set from 8,915' - 9,104' (25 sacks), 7,805' - 8,050' (25 sacks), and 7,178' - 7,602' (50 sacks). Well is shut in with no tubing in the hole

sacks). Well is shut in, with no tubing in the hole.

Elevation/Depths:

GL: 3,634' KB: 3,650' TD: 8,000' PBTD: 7,178' (top of 3<sup>rd</sup> cement plug)

**Surface Casing:** 

9-5/8" 36# K-55 set @ 1,220'. Cemented w/ 900 sacks of Howco Lite cement, tail w/  $\,$ 

200 sacks neat cement. Circulate 150 sacks.

**Production Casing:** 

7", 23 & 26/26# K-55 set @ 8000'. DV tool @ 5,592'. Cemented first stage w/ 300 sacks of Premium Plus cement tailed w/175 sacks Class C. DV tool opened circulated off 90 sacks. Cemented second stage w/ 625 sacks. Circulate 48 sacks.

**Abandoned Upper** 

**Penn. Perforations:** 

Upper Penn: 7516'-7540'(24'), 7550'-7566 (16'), 7579'-7587' (8') 7604'-7612' (8'), 7644'-7658' (14'), 7674'-7680' (6'), 7703'-7708 (5')

7714'-7730' (16'), 7742'-7746' (4')

Total feet of perfs covered 230' / 101'(Net)

Pressure Information: Wolfcamp @ 3000 psi

Safety:

- Hold daily tailgate safety meeting reviewing the proposed procedure.

- Keep TIW valve on rig floor at all times.

Keep kill-string in well at night.Follow MOC SOP's throughout job.

Note: Use proper PPE when working in and around HCl Acid

## Wolfcamp Completion Procedure IHSC No. 4

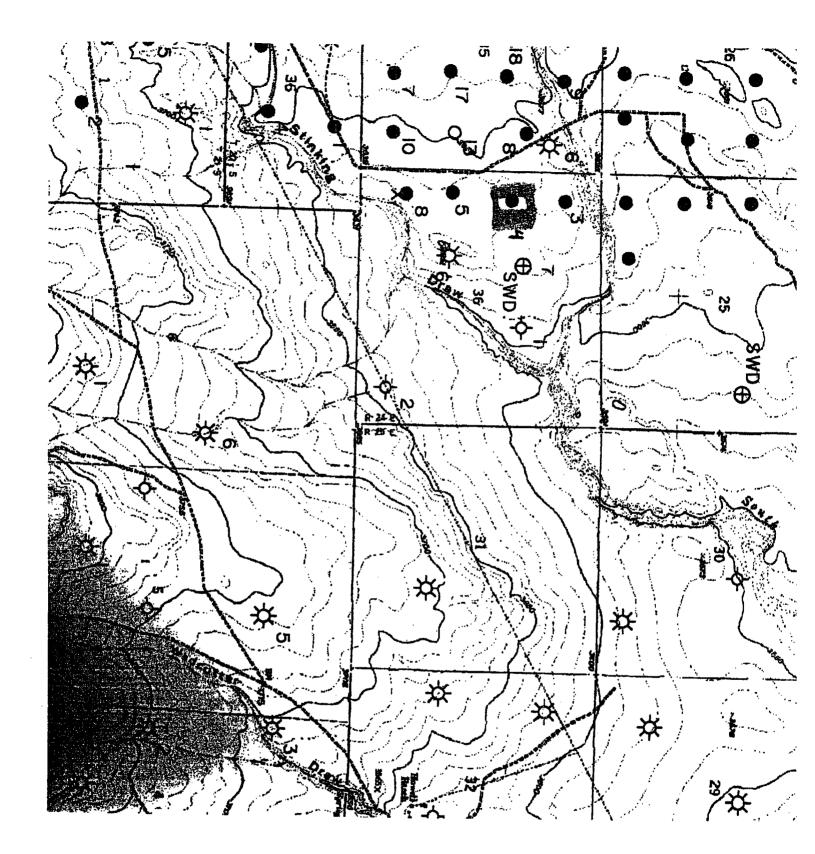
Page 2 of 2

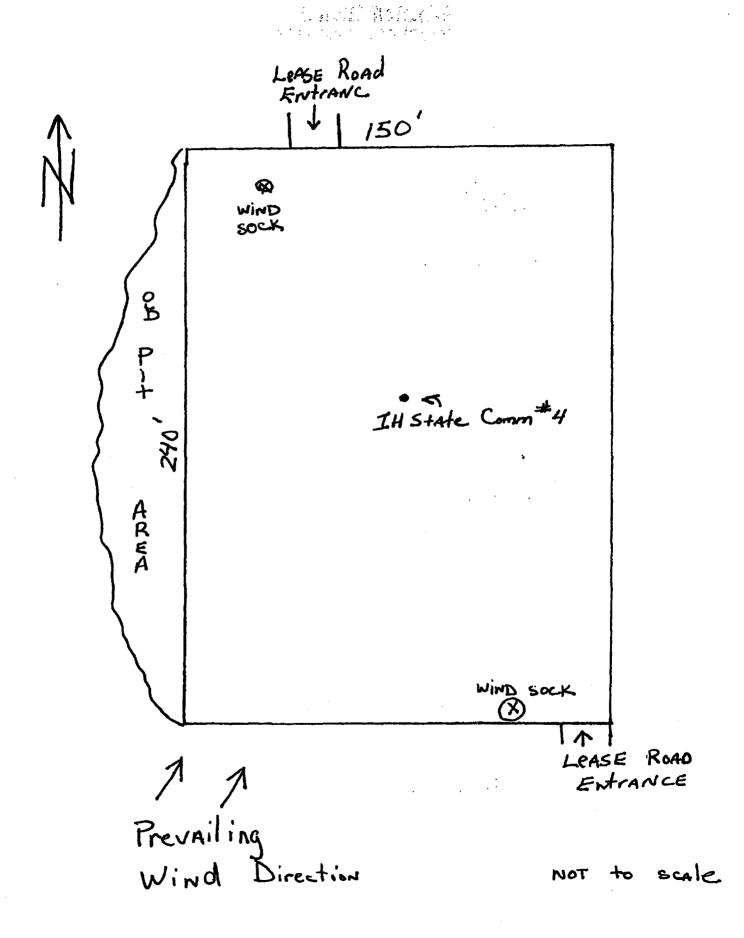
## Procedure:

- 1. Rig Supervisor & pulling unit operator inspect the well & location prior to rigging up. Test safety anchors to 22,500 lbs.
- 2. Perform all necessary Lock-out / Tag-out to properly secure well. Make sure all associated personnel have proper training and PPE for the proposed job.
- 3. MIRU conventional daylight pulling unit. Perform rig inspection check list. Rig up reverse unit and associated equipment. Make sure Geronimo line is staked securely, H<sub>2</sub>S monitor is in place, guardrails are in place & the unit is properly grounded to the wellhead.
- 4. ND 7-1/16" 3M flange installed on tubing head. NU 7-1/16" BOPs dressed with 2-3/8" rams. Ensure BOPs have been stump tested to 1000 psi high, 200 psi low prior to NU.
- 5. Due to recent drilling activity with the deepening to the Morrow, a bit and scraper trip has been deemed unnecessary.
- 6. RU Baker Atlas. RU frac valve, equalizing line, and 3K lubricator w/ pack-off. Pressure test the lubricator to 1,000 psi against the frac valve.
- 7. Perforate Wolfcamp formation using 3-3/8" slick guns, 311T 23 gram charges, 4 JSPF as follows: Single Run: 6,622' 6,636'

**RD** Baker Atlas

- 8. PU and RIH with 2-3/8", 4.6# L-80 production tubing with the following downhole equipment:
  - Wireline re-entry guide set at +/- 6,520'
  - 7" PLS packer set at +/- 6,320'.
  - 2-3/8" tbg. and tbg. subs to surface.
- 9. RU Halliburton. RU tree saver. Hold tailgate safety meeting. Pressure test surface lines and tubing to 5000 psi.
- 10. Acidize the Wolfcamp with 3,000 gal of 15% HCl Carbonate Stimulation Acid at 6 BPM, dropping 90 1.1 sg bio-balls evenly throughout the job. Monitor backside pressure while pumping. RD Halliburton.
- 11. ND BOPs. NU Production Wellhead. RDMOPU.





Who left the Alberta and Store



Marathon Oil Company Indian Hills State Com # 4 15-Jun-04

> Planned Wolfcamp Perfs 6622' to 6636'

Abandoned (squeezed ) Upper Penn perforations 7516' to 7746'

