

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

State of New Mexico
Energy, Minerals & Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 S. 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

¹ Operator Name and Address Marathon Oil Company P.O. Box 3487 Houston, TX 77253-3487		² OGRID Number 14021
		³ API Number 30- 15-32530
⁴ Property Code 006409	⁵ Property Name Indian Hills Unit	⁶ Well No. 50
⁹ Proposed Pool 1 Wolfcamp Wildcat		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
K	16	21S	24E		1821'	South	2092	West	Eddy

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N	16	21S	24E		695'	South	1495	West	Eddy

Additional Well Location

¹¹ Work Type Code P	¹² Well Type Code G	¹³ Cable/Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 4118'
¹⁶ Multiple No	¹⁷ Proposed Depth	¹⁸ Formation Wolfcamp	¹⁹ Contractor	²⁰ Spud Date
Depth to ground water		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume _____ bbls Drilling Method:				
Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	9 5/8"	36 #	1815'	1025	Surface
8 3/4"	7"	23 & 26 #	8700'	1245	

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Marathon Oil Company proposes to plug back the Upper Perm formation in the Indian Hills Unit No. 50 and re-complete the well to the Wolfcamp formation.

The surface hole location on this well is located on state lease E0-7437-0003. The bottom hole location for the well is located on state lease OG-6063-0003.

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 constructed according to NMOCD guidelines <input type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Signature: Charles E. Kendrick		Approved by: BRYAN G. ARRANT	
Printed name: Charles E. Kendrick		Title: DISTRICT II GEOLOGIST	
Title: Engineering Technician		Approval Date: FEB 27 2006	Expiration Date: FEB 27 2007
E-mail Address: cekendrix@marathonoil.com			
Date: 02/24/2006	Phone: 713-296-2096	Conditions of Approval: Attached <input type="checkbox"/>	

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State of New Mexico
Energy, Minerals & Natural Resources

Form C-102
Revised June 10, 2003

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-32530	² Pool Code	³ Pool Name Wildcat Wolfcamp
⁴ Property Code 006409	⁵ Property Name Indian Hills Unit	⁶ Well Number 50
⁷ OGRID No. 14021	⁸ Operator Name Marathon Oil Company	⁹ Elevation 4118'

¹⁰ Surface Location

UL or lot no. K	Section 16	Township 21-S	Range 24-E	Lot. Idn	Feet from the 1821'	North/South line South	Feet from the 2092'	East/West line West	County Eddy
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. N	Section 16	Township 21-S	Range 24-E	Lot. Idn	Feet from the 695'	North/South line South	Feet from the 1495'	East/West line West	County Eddy
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¹² Dedicated Acres 320	¹³ Joint or Infill No	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <u>Charles E. Kendrick</u> Signature <u>Charles E. Kendrick</u> Printed Name <u>Engineering Technician</u> <u>cekendrix@marathonoil.com</u> Title and E-mail Address <u>713-296-2096</u> Date
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyer: Certificate Number

Marathon Oil Company
INDIAN HILLS UNIT NO. 50, slot #1
INDIAN BASIN, Eddy County New Mexico

PROPOSAL LISTING Page 1
Your ref : PLAN NO. 1 2DJ FEB7
Last revised : 7-Feb-2003

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
3950.00	0.00	205.62	3950.00	0.00N	0.00E	0.00	537185.50	446929.60
4050.00	2.50	205.62	4049.97	1.97S	0.94W	2.18	537184.56	446927.63
4150.00	5.00	205.62	4149.75	7.86S	3.77W	8.72	537181.73	446921.74
4250.00	7.50	205.62	4249.14	17.68S	8.48W	19.61	537177.02	446911.92
4350.00	10.00	205.62	4347.97	31.39S	15.06W	34.82	537170.44	446898.21
4450.00	12.50	205.62	4446.04	48.98S	23.49W	54.33	537162.01	446880.62
4550.00	15.00	205.62	4543.17	70.41S	33.77W	78.09	537151.73	446859.19
4601.80	16.30	205.62	4593.05	83.01S	39.81W	92.06	537145.69	446846.59
5000.00	16.30	205.62	4975.25	183.75S	88.12W	203.79	537097.38	446745.85
5500.00	16.30	205.62	5455.17	310.25S	148.79W	344.08	537036.71	446619.35
6000.00	16.30	205.62	5935.08	436.75S	209.45W	484.38	536976.05	446492.85
6500.00	16.30	205.62	6415.00	563.25S	270.12W	624.67	536915.38	446366.35
7000.00	16.30	205.62	6894.91	689.75S	330.78W	764.96	536854.72	446239.85
7500.00	16.30	205.62	7374.83	816.24S	391.45W	905.25	536794.05	446113.36
8000.00	16.30	205.62	7854.74	942.74S	452.11W	1045.55	536733.39	445986.86
8500.00	16.30	205.62	8334.66	1069.24S	512.78W	1185.84	536672.72	445860.36
8724.36	16.30	205.62	8550.00	1126.00S	540.00W	1248.79	536645.50	445803.60

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from structure and TVD from rotary table.

Bottom hole distance is 1248.79 on azimuth 205.62 degrees from wellhead.

Vertical section is from N 0.00 E 0.00 on azimuth 205.62 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

5992
-337
1661