

# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Jennifer A. Salisbury Cabinet Secretary

October 3, 2001

Lori Wrotenbery Director Oil Conservation Divisio

Marathon Oil Company P. O. Box 552 Midland, Texas 79702-0552 Attention: Ginny Larke Telefax No. (915) 687-8305

Administrative Order NSL-4649(BHL)

Dear Ms. Larke:

Reference is made to the following: (i) your initial application that was submitted to the New Mexico Oil Conservation Division ("Division") in Santa Fe on August 15, 2001 (application reference No. pKRV0-123433433); (ii) your supplemental correspondence with Mr. Michael E. Stogner, Engineer in Santa Fe with the Division, by letters and telefax dated June 21, July 19, August 22, August 27, August 29, August 30, and September 4, 2001; (iii) the Division's records in Santa Fe and Artesia: all concerning Marathon Oil Company's ("Marathon") request for an exception to Rule 2 (b) of the "Special Rules and Regulations for the Indian Basin-Upper Pennsylvanian Associated Pool", as promulgated by Division Order Nos. R-9922, R-9922-A, R-9922-B, R-9922-C, and R-9922-D and the "General Rules and Regulations for the Associated Oil and Gas Pools of Northwest New Mexico and Southeast New Mexico", as promulgated by Division Order No. R-5353, as amended, for the existing Indian Hills Unit Well No. 1 (API No. 30-015-10066) in the SW/4 SW/4 (Unit M) of Section 21, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico.

The W/2 of Section 21, being a standard 320-acre stand-up gas spacing and proration unit for the Indian Basin-Upper Pennsylvanian Associated Pool (33685), is the assigned acreage for the subject well.

It is our understanding this well was initially drilled in 1963 by Ralph Lowe as a Morrow gas well. Its location being 660 feet from the South and West lines (Unit M) of Section 21 was considered to be standard at that time (see Division Order No. R-2441 dated February 28, 1963). In 1992 this Morrow producing gas well was plugged and abandoned. In February 1998 Marathon decided to re-enter this well and complete it as a gas well in the Indian Basin-Upper Pennsylvanian interval. A re-survey of the surface location at that time showed the actual location of this well to be 416 feet from the South line and 176 feet from the West line of Section 21. Further, Marathon performed a blind kick on the well during its re-entry/recompletion operations in 1998, the directional survey of the surface shows the actual bottomhole location of this well to be 427 feet from the South line and 30 feet from the West line of Section 21.

This application has been duly filed under the provisions of Division Rule 104.F and

Administrative Order NSL-4649(BHL) Marathon Oil Company October 3, 2001 Page 2

Rule 2 (c) of the Division's associated pool rules.

By the authority granted me under the provisions of Division Rule 104.F (2) and the applicable provisions of the special rules governing the Indian Basin-Upper Pennsylvanian Associated Pool, the above-described unorthodox surface gas location for the Indian Hills Unit well No. 1 within the W/2 of Section 21 is hereby approved.

Further, the aforementioned well and spacing unit will be subject to all existing rules, regulations, policies, and procedures applicable to the Indian Basin-Upper Pennsylvanian Associated Pool.

Sincerely,

Lori Wrotenbery Director

LW/MES/ky

cc: New Mexico Oil Conservation Division - Artesia
 U. S. Bureau of Land Management - Carlsbad
 W. Thomas Kellahin, Legal Counsel for Marathon Oil Company - Santa Fe



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

#### **BILL RICHARDSON**

Governor Marathon Oil Company P. O. Box 3487 Houston, Texas 77253-3487 April 23, 2004

Joanna Prukop Cabinet Secretary Acting Director Oil Conservation Division

Attention: Mar

Mark Mick Operations Engineer msmick@marathonoil.com

Administrative Order NSL-4649-A (BHL) (SD)

Dear Mr. Mick:

Reference is made to the following: (i) your application filed with the New Mexico Oil Conservation Division ("Division") on March 31, 2004 (*administrative application reference No. pMES0-409157253*); (ii) my e-mail late Thursday afternoon, April 22, 2004 requesting additional information to support your application; (iii) your e-mail response Friday morning, April 23, 2004 with the requested information; and (iv) the Division's records in Santa Fe, including the file on Division Administrative Orders NSL-4649 (BHL): all concerning Marathon Oil Company's ("Marathon") request for an exception to Rule 2 (b) of the "Special Rules and Regulations for the Indian Basin-Upper Pennsylvanian Associated Pool", as promulgated by New Mexico Oil Conservation Division ("Division") Order Nos. R-9922, R-9922-A, R-9922-B, R-9922-C, R-9922-D, and R-9922-E and the "General Rules and Regulations for the Associated Oil and Gas Pools of Northwest New Mexico and Southeast New Mexico," as promulgated by Division Order No. R-5353, as amended, for Marathon's existing Indian Hills Unit Well No. 31 (API No. 30-015-31534) to be recompleted as an upper Pennsylvanian infill well to an unorthodox subsurface location within an existing standard 320-acre spacing and proration unit for the Indian Basin-Upper Pennsylvanian Associated Pool (33685) comprising the W/2 of Section 21, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico.

This unit is currently simultaneously dedicated to Marathon's:

(i) Indian Hills Unit Well No. 1 (API No. 30-015-10066), located on the surface 416 feet from the South line and 176 feet from the West line (Unit M) of Section 21 and completed within the Indian Basin-Upper Pennsylvanian Associated Pool at an unorthodox bottom-hole location that is 427 feet from the South line and 30 feet from the West line (Unit M) of Section 21, see Division Administrative Order NSL-4649 (BHL), dated October 3, 2001;

(ii) Indian Hills Unit Well No. 36 (API No. 30-015-32140), located on the surface 429 feet from the South line and 506 feet from the West line (Unit M) of Section 21, and completed within the Indian Basin-Upper Pennsylvanian Associated Pool at a bottom-hole infill location within Unit "K" of Section 21 that is 1708 feet from the South line and 1608 feet from the West line of Section 21; and

(iii) aforementioned Indian Hills Well No. 31, which well was initially drilled in early 2001 from a surface location 1093 feet from the North line and 663 feet from the East line (Unit A) of Section 20, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico, directionally drilled to the east to a total depth of 8,955 feet (MD), or 8,600 (TVD), at a bottom-hole location 1327 feet from the North line and 1510 feet from the West line (Unit F) of Section 21.

It is the Division's understanding that Marathon now intends to abandon the current Upper Pennsylvanian completion, plug back to a depth of 2,000 feet (MD), kick-off in a southeasterly direction, and continue drilling directionally to a targeted-bottomhole location at an approximate depth 8,570 feet (TVD) 2467 feet from the North line and 496 feet from the West line (Unit E) of Section 21. This new directional wellbore is expected to intersect the top of the Upper-Pennsylvanian interval at an approximate depth of 8,013 feet (MD), or 7,780 feet (TVD) 2286 feet from the North line and 340 feet from the West line (Unit E) of Section 21. The proposed well will be unorthodox in that the entire producing interval will be closer then the standard setback distance of 660 from the South line of Section 21. Further, this new bottom-hole location has been chosen by Marathon to optimize reservoir drainage and minimize geological risk.

This application has been duly filed under the provisions of Division Rule 104.F and Rule 2 (c) of the Division's associated pool rules.

By the authority granted me under the provisions of Division Rule 104.F (2) and the applicable provisions of the special rules governing the Indian Basin-Upper Pennsylvanian Associated Pool, Marathon is hereby authorized to recomplete its Indian Hills Unit Well No. 31 as close as is reasonably possible to the proposed targeted unorthodox penetration point for the Upper-Pennsylvanian interval and bottom-hole well location.

Further, the aforementioned well and 320-acre spacing and proration unit will be subject to all existing rules, regulations, policies, and procedures applicable to the Indian Basin-Upper Pennsylvanian Associated Pool.

Marathon is hereby authorized to simultaneously dedicate production attributed to the Indian Basin-Upper Pennsylvanian Associated Pool from the aforementioned Indian Hills Unit Wells No. 1, 31, and 36. Furthermore, Marathon is permitted to continue producing the allowable assigned the subject 320-acre spacing and proration unit from all three wells in any proportion.

Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

Michael E. Stogner Engineer/Hearing Officer

MES/ms

cc: New Mexico Oil Conservation Division - Artesia U. S. Bureau of Land Management - Carlsbad File: NSL-4649 (BHL)



**BILL RICHARDSON** 

## NS4-4649-ALBHLYSP NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

#### April 23, 2004

Joanna Prukop **Cabinet Secretary** Acting Director **Oil Conservation Division** 

Governor **Marathon Oil Company** P. O. Box 3487 Houston, Texas 77253-3487

Attention: **Mark Mick Operations Engineer** msmick@marathonoil.com

**CORRECTED** Administrative Order NSL-4649-A (BHL) (SD)

Dear Mr. Mick:

Due to inadvertence Division Administrative Order NSL-4649-A (BHL) (SD), dated April 23, 2004 (administrative application reference No. pMES0-409157253), does not correctly state the intended order of the Division and should therefore be corrected at this time.

The first paragraph on page 2 of Administrative Order NSL-4649-A (BHL) (SD) is hereby amended to read in its entirety as follows:

"It is the Division's understanding that Marathon now intends to abandon the current Upper Pennsylvanian completion, plug back to a depth of 2,000 feet (MD), kick-off in a southeasterly direction, and continue drilling directionally to a targeted-bottomhole location at an approximate depth 8,570 feet (TVD) 2467 feet from the North line and 496 feet from the West line (Unit E) of Section 21. This new directional wellbore is expected to intersect the top of the Upper-Pennsylvanian interval at an approximate depth of 8,013 feet (MD), or 7,780 feet (TVD) 2286 feet from the North line and 340 feet from the West line (Unit E) of Section 21. The proposed well will be unorthodox in that the entire producing interval will be closer then the standard setback distance of 660 from the West line of Section 21. Further, this new bottom-hole location has been chosen by Marathon to optimize reservoir drainage and minimize geological risk'.

Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

Michael E. Stogner Engineer/Hearing Officer

MES/ms

cc:

New Mexico Oil Conservation Division - Artesia U.S. Bureau of Land Management - Carlsbad File: NSL-4649 (BHL) NSL-4649-A (BHL) (SD)

PMESO-409157253

Oil Conservation Division \* 1220 South St. Francis Drive \* Santa Fe, New Mexico 87505 Phone: (505) 476-3440 \* Fax (505) 476-3462 \* http://www.emnrd.state.nm.us

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DISTRICT I P.O. Box 1960, Hobbs, NM 88241-1960

DISTRICT II P.O. Drawer DD, Artesia, NM 58211-0719

DISTRICT III 1000 Bio Brazos Ed., Astec, NM 87410

DISTRICT IV P.O. Box 2088, Santa Fe, NM 87504-2088 State of New Mexico

Energy, Minerals and Naturel Resources D

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

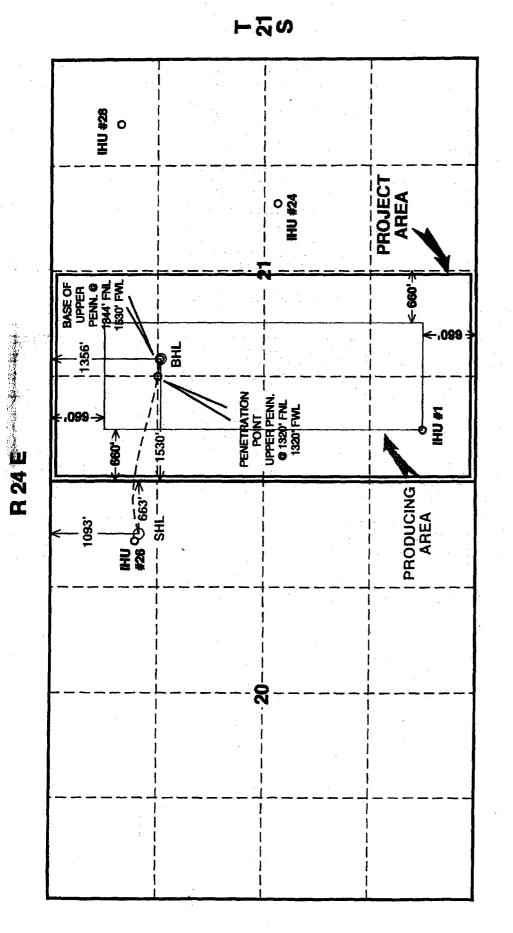
#### OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT 

API Number		Pool Code	T a d d	Decin II	Pool Name	3.2.2.7	
Property Code		IN	Property Name NDIAN HILLS L		pper Penn.	Well Num 31	aber
OGRED No. 14021		MAR	operator Name ATHON OIL C			Elevatic 4149	
	•		Surface Loca	ation	· · · · · · · · · · · · · · · · · · ·		
UL or lot No. Section	Township Range	Lot Idn	Feet from the	North/South line	Feet from the	Bast/West line	County
A 20	21 S 24 E		1093	NORTH	663	EAST	EDDY
	Bottom	Hole Loc	ation If Diffe	rent From Sur	face		•
UL or lot No. Section	Township Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F 21	21 S 24 E		1356	NORTH	1633	WEST	Eddy
Dodicated Acres Joint o	r Infill Consolidation	Code Ord	ler No.				-
320 W/2				· · · · · · · · · · · · · · · · · · ·	· · ·		
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					OPERATO	R CERTIFICA	TION
Gee Nex	pase.		IU # 26 \$H	L. 90- 663-	contained herein best of my know Signature Jerry Printed Name Engin Title <u>11-08</u> Date	Fletcher eer Tech. -00 R CERTIFICA	TION
					on this plat un actual surveys supervisons an correct to th OCTOB Date Supervison Signature S Protessional	Seal of	id notes of under my s true and ef. 00 JLP <i>10/23/00</i> =321



# INDIAN HILLS UNIT MARATHON OIL COMPANY SOUTHERN BUSINESS UNIT #31

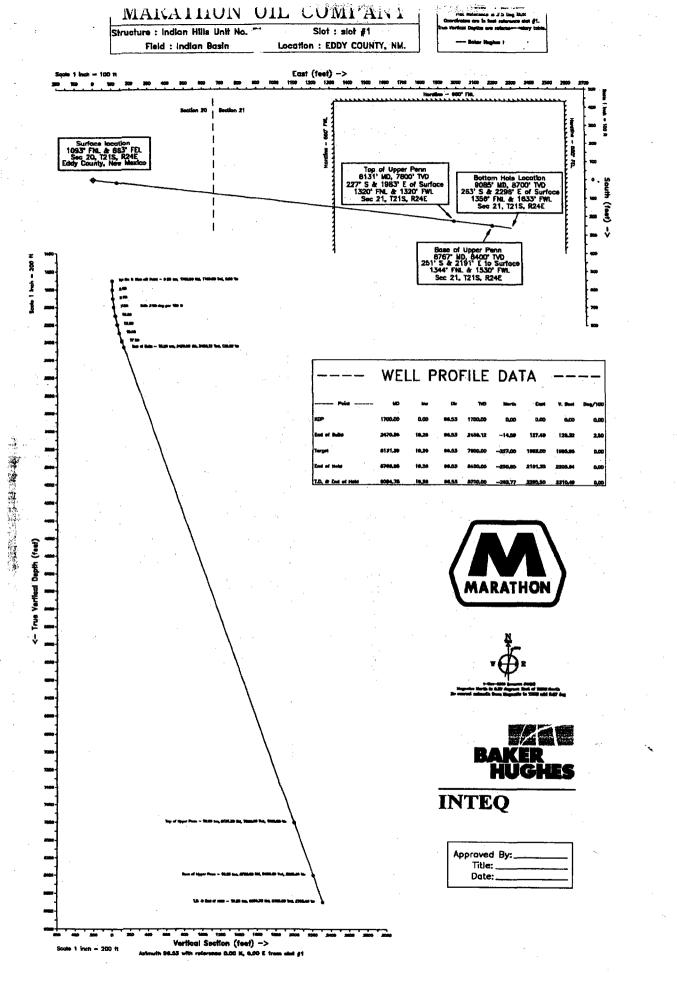


# EDDY COUNTY, NEW MEXICO

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of Upper Penn of Upper Penn TING Page 1 2.5 Deg BUR 7-Nov-2000 Bottom hole distance is 2310.49 on azimuth 96.53 degrees from wellhead. Vertical section is from wellhead on azimuth 96.53 degrees. LISTING Base Coordinates from slot #1 and TVD from rotary table. Top •• Calculation uses the minimum curvature method Your ref Last revised All data is in feet unless otherwise stated. 2205.64 2282.52 1292.76 1457.72 1622.68 128.32 138.04 467.96 632.92 797.88 962.84 1995.95 0.00 2.18 8.72 1952.60 2117.56 303.00 127.80 1787.64 9.61 34.82 54.33 78.09 106.07 Vert Sect PROPOSAL -Presented by Baker Hughes INTEQ Dogleg Deg/100ft 2.50 2.50 2.50 0.00 0.00 0.00 00.00 0.00 0.00 0.00 0.00 0.00 0.00 500 202 0.00 0 0 0 2 田田田田田 包围的面面 医瓦瓦瓦瓦 田田田田田 田田田田田 1983.00 2103.82 2191.33 2267.71 53.97 77.59 1612.15 1776.04 0.00 2.17 8.66 19.48 34.59 105.38 127.49 792.70 1448.26 1120.48 1284.37 1939.93 301.03 464.92 137.14 628.81 n A S **4** E 니머 DA UZ ZH ϫͻͽͽͽ **ა ა ა ა ა** ວວວວວວ <u>ທ ທ ທ ທ ທ</u> ວວວວວວ A D 222.07 227.00 240.83 250.85 259.59 14.59 34.46 53.22 71.98 90.74 165.79 184.55 203.31 0.00 0.25 2.23 3.96 6.18 8.88 2.06 147.03 109.50 128.26 HR 00 **ы** О Indian Hills Unit No. 31, slot #1 R C Indian Basin, EDDY COUNTY, NM True Vert Depth 5315.94 5787.95 6259.95 6731.95 7203.96 COMPANY 7675.967800.00 8400.00 8619.97 2955.92 3427.92 4371.93 8147.97 1700.00 1799.97 899.75 1999.14 2097.97 2293.17 2389.17 2456.12 2483.92 3899.93 2196.04 MARATHON OIL Azimuth Degrees 96.53 Degrees Inclin. 0.00 5.00 7.50 12.50 15.00 17.50 19.26 19.26 19.26 9.26 19.26 19.26 19.26 19.26 19.26 19.26 9.26 9.26 9.26 Q 9.2( Measured 7000.007500.00 8766.98 9000.00 1700.00 1800.00 2000.00 2100.00 2470.56 2500.00 8131.39 4000.00 500.00 6000.00 6500.00 000.000 500.00 1900.00 2200.00 2300.00 2400.00 3000.00 3500.00 5000.00 500.00 Depth ō 00

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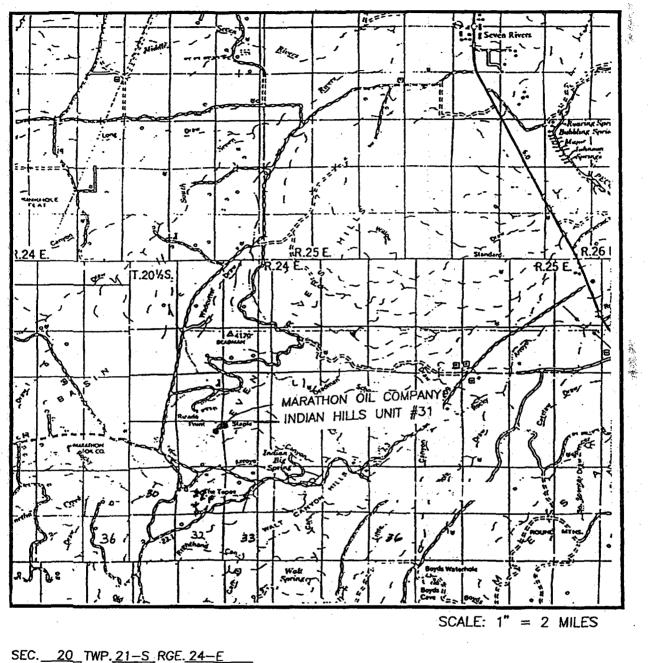
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مر المراجع التي ريمي التي تعليم

PROPOSAL LISTING Page 3 Your ref : 2.5 Deg BUR Last revised : 7-Nov-2000 Targets associated with this wellpath Comments in wellpath Top of Upper Penn Base of Upper Penn Comment 111 1983.00 E 2191.33 E Rectangular Coords. MARATHON OIL COMPANY Indian Hills Unit No. 31, slot #1 Indian Basin, EDDY COUNTY, NM. 227.00 S 250.85 S 7800.00 8400.00 TVD 8131.39 8766.98 Ð

7-Nov-2000 Revised Rectangular Coordinates 1983.00E 227.00S 7800.00 **Τ.V.D.** Geographic Location Target name 

# VICINITY MAP

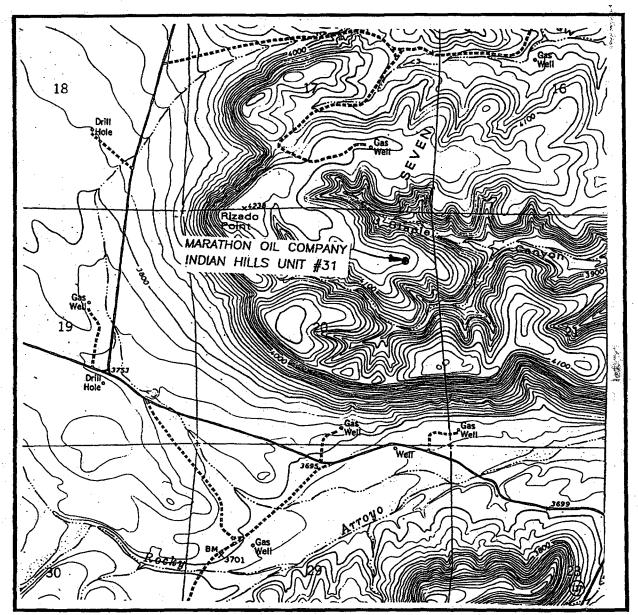


SEC. <u>20</u> TWP.<u>21-S</u> RGE.<u>24-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1093'</u> FNL <u>& 663'</u> FEL ELEVATION <u>4149</u> OPERATOR <u>MARATHON OIL COMPANY</u> LEASE INDIAN HILLS UNIT

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

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# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. <u>20</u> TWP.<u>21-S</u> RGE.<u>24-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>EDDY</u> DESCRIPTION <u>1093' FNL & 663' FEL</u> ELEVATION <u>4149</u> OPERATOR <u>MARATHON OIL COMPANY</u> LEASE <u>INDIAN HILLS UNIT</u>

U.S.G.S. TOPOGRAPHIC MAP MARTHA CREEK, N.M. CONTOUR INTERVAL - 20'

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

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which would entitle the applicant to conduct operations thereon Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

	gust 1999)		OF THE INTERIOR	811	S. 1st St	e. Divisio Expires	NO. 1004-0135 November 30, 2000
	SU	NDRY NOTICES	AND REPORTS O	N WELLS Arte	sia. NM 8	8910-28	<b>34</b>
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<del></del>						7. If Unit or C	A/Agreement, Name and/o
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1. Ty	pe of Well					NM 70964X	· ·
	Oil Well X Gas Well	Other				8. Well Name	and No. LS UNIT #31
	ime of Operator						
	arathon Oll Company ddress			3b. Phone No. (include	area code)	9. API Well N	- · ·
	.O. Box 552 Midlan	d. TX 79702		800-351-1417	-	30-015-31	934 Pool, or Exploratory Area
4. Lo	cation of Well Forms Sec					INDIAN BAS	IN UPPER PENN
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	X Subsequent Repor	<b>t</b> .	Casing Repair	New Construction	Recomp	lete	Other
	Final Abandonmer	nt Notice	Change Plans	Plug and Abandon	Tempor	arily Abandon	44. 
			Convert to Injection	on Plug Back	X Water D	isposal	¥.
`	determined that the final site As required by Ons disposal from this listed under PRIMA	hore Order No. well. Produce RY DISPOSAL on	7, Marathon Oil ed water from the the attached lis	is well will be s st. If additions	ent, via pi 1 capacity	peline, to c is required,	ne of the wells water may be
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May 18, 2001

#### **ATTACHMENT I**

#### Marathon Oil Company Indian Basin

#### Primary Disposal: MOC Battery Disposal System

	Marathon Oil Company
Well Name:	MOC SWD # 1
Location:	UL "M", Section 7, T-20-S, R-25-E
Permit#:	SWD 448

Operated By:Marathon Oil CompanyWell Name:Indian Hills State Com # 7Location:UL "F", Section 36, T-20-S, R-24-EPermit #:SWD 570

Primary Disposal: IBGP Disposal System

Operated By:	Marathon Oil Company
Well Name:	AGI#1SWD
Location:	UL "E", Section 23, T-21-S, R-23-E
Permit #:	SWD 784

Operated By:Marathon Oil CompanyWell Name:Marathon Federal # 1Location:UL "K", Section 24, T-21-S, R-23-EPermit #:SWD 55

Primary Disposal: Indian Hills Unit Disposal System

Operated By:	Marathon Oil Company
Well Name:	Rocky Hills #1 SWD
Location:	UL "O", Section 19, T-21-S, R-24-E
Permit #:	SWD 691

Operated By:	Marathon Oil Company
Well Name:	Rocky Hills #2 SWD
Location:	UL "I" Section 20, T-21-S, R-24-E
Permit #:	SWD 738

#### Secondary Disposal

Well Name:	Springs SWD
Operator:	Rowland
Location:	Sec 27, T-20-S, R-26-E
Permit#:	SWD 86

Well Name:BKEOperator:RowlandLocation:Sec 13, T-23-S, R-27-EPermit#:SWD 495

Well Name:Salty Bill SWDOperator:Grace OilLocation:Sec 36, T-22-S, R-26-EPermit#:SWD R-118 Fed ID # 850303046

Well Name:Big Eddy Federal 100 SWD (Whistle Stop)Operator:Dakota ResourcesLocation:Unit "L", Sec 8, T-21-S, R-28-EPermit#:SWD 461

May 18, 2001

Well Name:	Dorstate SWD
Operator:	Mesquite Services
Location:	Sec 27, T25S, R26E
Permit#:	SWD 247
Well Name:	Aikman SWD State # 1
Location:	Section 27, T-19-S, R-25-E
Permit#:	SWD 417
Well Name:	Holstun # 1 SWD
Operated By:	Nearburg Producing Company
Location:	Section 4, T-20-S, R-25-E
Permit#:	R 9269
Well Name:	Charlotte McKay Federal # 1 SWD
Operated By:	Yates Petroleum
Location:	Section 25, T-20-S, R-25-E
Permit#:	SWD 460
Well Name:	Walter Solt State No. 1
Location:	Unit "L", Sec 5, T-18-S, R-28-E
Permit#:	SWD 318
Well Name:	Dagger Draw Salt Water Disposal
Location:	Sec 22, T-19-S, R-25-E
Permit#:	R7637
Well Name:	Corrine Grace Salt Water Disposal Well
Location:	Sec 36, T-22-S, R-26-E
Permit#:	K6290
Well Name:	Myrtle-Myra WIW # 1
Location:	Sec 21, T-21-S, R-27-E
Permit#:	NMOCD-FWD-391
Solide that car	o't he houled into one of these disposal sit

Solids that can't be hauled into one of these disposal sites will be sent to:

I. C. WARD FR

No. of Lot of Lo

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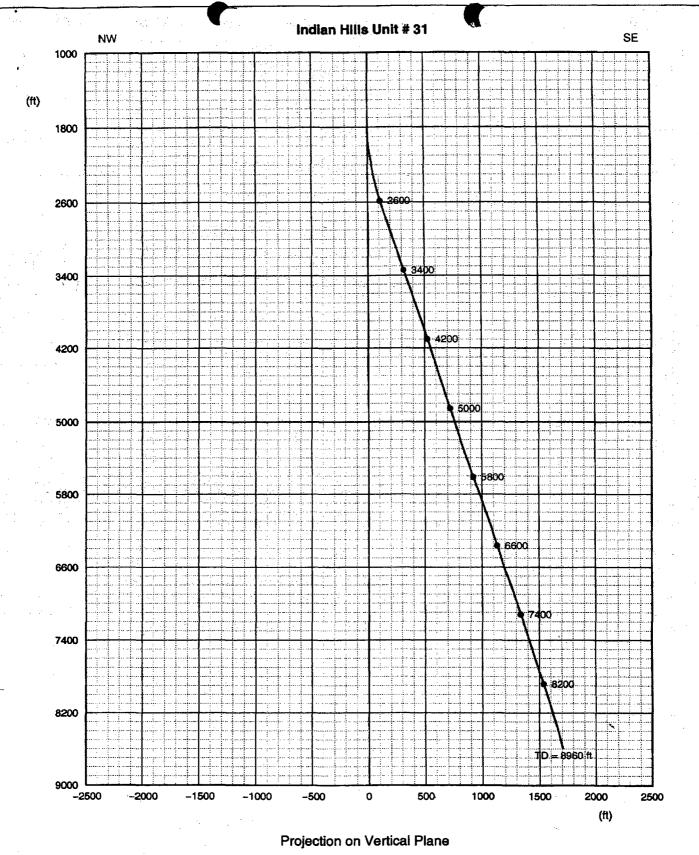
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Section to the sec

Well Name:	CRI SWD
Location:	Sec 27, T20S, R32E
Permit #:	SWD <b>Ř</b> 91166

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Form 3160-5	UN ) STATES	N.M. Oil Con Jivi	eion FORM APPROVED CISE
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	BUREAU OF LAND MANAGEMEN	T 811 S. 1st Street	Expires: November 30, 2000
	BUREAU OF LAND MANAGEMEN DRY NOTICES AND REPORTS (	Artesia, NM 88210	-2834
SUN	DRY NUTICES AND REPORTS (	JN WELLS	6. If Indian, Allottee or Tribe Name
, Dunior	use this form for proposals to drill or ad well. Use Form 3160-3 (APD) for	to to ontor un	b. If Indian, Allouce of The Name
apandone	20 Well. Use Fulli 3 100-3 (AFD) 101		
SUBMIT IN	TRIPLICATE - Other instructions	on reverse side	7. If Unit or CA/Agreement, Name and/or No
			INDIAN HILLS UNIT
1. Type of Well			NM 70964X
Oil Well X Gas Well	Other /		8. Well Name and No. INDIAN HILLS UNIT #31
2. Name of Operator	_		
Marathon Oil Company			9. API Well No.
3a. Address		3b. Phone No. (include area code)	30-015-31534
P.O. Box 552 Midland		800-351-1417	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, 190		m-91_0 p-94.5	INDIAN BASIN UPPER PENN ASSOCIATED GAS POOL
SURFACE: UL "A", -198:	$F FNL \in GGP FEL, SECTION 20,$	, T-21-S, R-24-E	11. County or Parish, State
BOTTOM HOLE: UL 57,	1327' ESE & 1550 FEL, SECTION	N 21, T-21-S. R-24-R	KDDY COUNTY NM
	APPROPRIATE BOX(ES) TO INC		
TYPE OF SUBMISS	3ION	TYPE OF ACTION	l
Notice of Intent	Acidize	Deepen X Productio	wn (Start/Resume) Water Shui-Off
	Alter Casing	Fracture Treat Reclamat	
X Subsequent Report			
·		New Construction Recomple	terrapid and the second s
Final Abandomment	Notice Change Plans		rily Abandon COMPLETION
	Convert to Injection	on Phug Back Water Di	sposal
determined that the final site is 4/21/01 Installed th w/3-1/2" tbg to 861 TAG-5000-382 guns, 3-1/2" tbg. Acidiz	s ready for final inspection.) bg hanger inside tbg head & so 8'. Pickled tbg w/1000 gals : 5 spf w/50 degree phasing from ed perfs w/7,000 gals 15% CCA	et lock-in screws. NU BOP & 15% OCA sour acid, POOH w/tbg m 8464'-90', 8502'-24', 8542' sour acid w/100 gpf & 4' spa	& perf csg w/4-1/2" -64". RIH w/PPI tool on cing. Fish valves & RU swab
	2 bbls water. FOOH w/PPI too tbg. RBP set @ 8789'. ND BOI		
			2520222
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		GARY GOURLE	Y DCD. T. CO
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14. I hereby certify that the foregoin Name (Printed/Typed)	g is true and correct	Title	0151211010
Name (Printed/Typed) Ginny Larke	Him La bo	Engineer Technici	
Gilling Larke	any co and	Exgineer lechnici	an
	V	Date 5/15/01	
	THIS SPACE FOR FED	ERAL OR STATE OFFICE USE	
Approved by		Title	Date
Conditions of annroval if any are a	ttached. Approval of this notice does not wa	attant of ogg-	
certify that the applicant holds legal	or equitable title to those rights in the subi	arrant or Office ect lease	
which would entitle the applicant to			
States any false, fictitions or fraudule	itle 43 U.S.C. Section 1212, makes it a crime ent statements or representations as to any ma	tor any person knowingly and willfully to m atter within its jurisdiction	ake to any department or agency of the United
	tepresentations as could y have		
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Vertical scale 1 in : 1000, Horizontal scale 1 in : 833 ft

Directional Survey Report - Indian Hills Unit # 31 2/28/01

Page 7

知道五人に言

Schlumberger GeoQuest

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		+East	+North			
	True	-West	-South		. · ·	
Measured	Vertical	Well	Well			
Depth	Depth	Departure	Departure	Deviation	Azimuth	
1800.0	1800.0	0.0	0.0	0.000	0.0	
	1					

		Coord	inates			
Measured Depth	True Vertical Depth	+North -South	+East -West	Course Length	Wellbore Deviation	Wellbore Azimuth
(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(deg)
1800.0	1800.0	0.0	0.0	0.0	1.5	0.0
1900.0	1899.9	-2.3	2.0	3.0	2.1	140.0
2000.0	1999.7	-6.9	6.6	9.6	5.6	125.4
2100.0	2098.9	-13.0	17.2	21.5	8.4	117.7
2200.0	2197.7	-19.7	31.2	36.9	9.9	111.8
2300.0	2296.1	-24.9	48.4	54.4	10.7	102.7
2400.0	2393.9	-28.4	69.0	74.6	13.6	98.7
2500.0	2490.4	-31.5	94.7	99.8	16.4	95.8
2600.0	2585.8	-34.1	124.7	129.3	18.6	94.5
2700.0	2680.2	-36.9	157.6	161.9	19.6	95.3
2800.0	2774.3	-40.2	191.2	195.4	19.7	95.8
2900.0	2868.5	-43.6	224.6	228.8	19.5	96.0
3000.0	2962.8	-47.1	257.7	262.0	19.4	96.0
3100.0	3057.2	-50.5	290.6	294.9	19.2	95.9
3200.0	3151.6	-53.9	323.4	327.8	19.4	95.5
3300.0	3245.6	-57.0	357.3	361.8	20.0	95.2
3400.0	3339.6	-60.2	391.3	395.9	19.9	95.7
3500.0	3433.7	-63.7	425.1	429.8	19.8	95.9
3600.0	3527.8	-67.3	458.8	463.7	19.8	<b>96.</b> 3
3700.0	3621.9	-71.1	492.3	497.4	19.6	96.6
3800.0	3716.2	-74.8	525.4	530.7	19.3	96.2
3900.0	3810.4	-77. <del>9</del>	558.7	564.1	19.6	95.1
4000.0	3904.6	-80.9	<b>592</b> .1	597.6	19.5	94.8
4100.0	3998.9	-83.4	625.3	630.8	19.3	93.8
4200.0	4093.2	-85.3	658.6	664.1	19.4	92.9

Directional Survey Report - Indian Hills Unit # 31 2/28/01

		Coord	linates			
Measured Depth	True Vertical Depth	+North -South	+East -West	Course Length	Wellbore Deviation	Wellbore Azimuth
(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(deg)
4300.0	4187.7	-87.1	691.4	696.8	18.9	94.4
4400.0	4282.3	-90.0	723.4	729.0	18.6	95.4
4500.0	4377.1	-93.2	755.3	761.0	18.5	95.8
4600.0	4472.0	-96.3	786.4	792.3	18.1	95.6
4700.0	4567.2	-99.4	817.1	823.2	18.2	97.2
4800.0	4662.1	-103.4	848.3	854.6	18.4	97.0
4900.0	4757.0	-107.0	879.5	886.0	18.3	96.4
5000.0	4851.9	-110.7	<b>9</b> 11.0	917.7	18.4	96.4
5100.0	4946.8	-114.1	942.4	949.3	18.4	96.1
5200.0	5041.7	-117.4	973.6	980.6	18.1	96.2
5300.0	5136.7	-120.9	1004.7	1011.9	18.2	96.2
5400.0	5231.6	-124.3	1035.9	1043.3	18.5	96.3
5500.0	5326.2	-128.0	1068.3	1075.9	19.5	97.2
5600.0	5420.4	-132.6	1101.5	1109.4	19.4	99.0
5700.0	5515.1	-137.7	1133.2	1141.6	18.6	99.3
5800.0	5609.6	-142.8	1165.6	1174.3	19.7	98.8
5900.0	5703.8	-147.9	1198.6	1207.7	19.5	.99.1
6000.0	5797.9	-153.4	1232.1	1241.6	20.1	99.3
6100.0	5891.9	-157.9	1265.8	1275.6	19.4	96.6
6200.0	5986.6	-161.5	1297.8	1307.8	18.2	96.3
6300.0	6081.2	-165.2	1330.1	1340.3	19.5	96.4
6400.0	6175.5	-168.9	1363.1	1373.6	19.1	96.3
6500.0	6270.0	-172.4	1395.5	1406.1	19.1	96.0
6600.0	6364.5	-175.8	1428.1	1438.9	19.0	95.8
6700.0	6459.2	-178.8	1460.1	1471.1	18.4	94.7
6800.0	6554.0	-181.1	1 <b>491</b> .7	1502.7	18.8	94.5
6900.0	6648.3	-184.2	1524.9	1535.9	20.2	96.6
7000.0	6742.0	-188.1	1559.5	1570.8	20.5	95.9
7100.0	6836.1	-191.6	1593.3	1604.8	19.1	95.7
7200.0	6930.7	-194.6	1625.6	1637.2	19.1	95.3
7300.0	7025.1	-197.8	1658.3	1670.1	19.1	95.7
7400.0	7119.7	-201.2	1690.6	1702.5	18.9	97.2
7500.0	7214.5	<b>-206</b> .1	1722.2	1734.5	18.4	<del>99</del> .8

Sec. S. S.

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Directional Survey Report - Indian Hills Unit # 31 2/28/01

Schlumberger GeoQuest

			COOLUI	nates			
	Measured Depth	True Vertical Depth	+North -South	+East -West	Course Length	Wellbore Deviation	Wellbore Azimuth
	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(deg)
-	7600.0	7309.6	-211.1	1752.7	1765.4	17.6	98.3
	7700.0	7404.8	-214.7	1783.1	1796.0	18.0	94.8
	7800.0	7499.6	-216.5	1814.7	1827.6	18.9	92.1
	7900.0	7594.0	-217.9	1847.7	1860.5	19.5	92.7
	8000.0	7688.1	-219.8	1881.4	1894.2	19.7	93.7
	8100.0	7782.5	-222.9	1914.4	1927.4	18.6	96.3
	8200.0	7877.2	-225.9	1946.2	1959.3	18.9	94.0
	8300.0	7971.9	-227.9	1978.3	1991.4	18.6	93.2
	8400.0	8066.8	-229.4	2010.0	2023.0	18.3	92.6
	8500.0	8161.6	-231.3	2041.6	2054.6	18.5	93.5
	8600.0	8256.5	-233.3	2073.2	2086.3	18.2	<b>94</b> .3
·	8700.0	8351.6	-235.4	2103.8	2116.9	17.5	93.6
	8800.0	8447.4	-237.5	2132,4	2145.6	16.0	94.6
	8900.0	8544.0	-239.9	2158.4	2171.7	14.5	95.5

#### Coordinates

Directional Survey Report - Indian Hills Unit # 31 2/28/01

				<b>~</b> .	
Form 3160-5	'ITI	ED STATES	A1 8 6 75	ana D	FORM APPROVED OMB NO. 1004-0135
(August 1999)		OF THE INTERIOR			
2		AND MANAGEMENT	811 S. 1	1st Street	5. Lease Serial No
	SUNDRY NOTICES	AND REPORTS O	WELLA TASIA	. NM 882	10-2834
					6. If Indian, Allottee or Tribe Name
	Do not use this form for abandoned well. Use For	m 3160-3 (APD) for s	uch proposals 0.252	26272525	
	SUBMIT IN TRIPLICATE -	Other instructions of	on reverse side 🕏	3	7. If Unit or CA/Agreement, Name and/or N
			/ ( <u>v</u>		UNDIAN HILLS UNIT
1. Type of Well	Gas Well Other		60° 10° 35 621	EIVED	B. Well Name and No.
2. Name of Operator			1 m A	ARIC	INDIAN HILLS UNIT #31
Marathon Oil		· · · ·		ະ ເ	
3a. Address			3b. Phone No. Hoolyde a	rea code) 6	9. API Well No. 30-015-31534
	2 Midland, TX 79702	· .	3b. Phone No. Reelyde a 800-351-1417	211101	10. Field and Pool, or Exploratory Area
4. Location of Well (	Footage, Sec., T., R., M., or Survey				INDIAN BASIN UPPER PENN
SURFACE: U	L "A", 1089' FNL & 665'	FEL, SECTION 20,	T-21-S, R-24-E		ASSOCIATED GAS POOL
	A STATE OF A				11. County or Parish, State
BOTTOM HOLE:					BDDY COUNTY NM
12.	CHECK APPROPRIATE	BOX(ES) TO IND	CATE NATURE OF	NOTICE, REP	ORT, OR OTHER DATA
TYPE	OF SUBMISSION	2196 - 14	TY	PE OF ACTION	
Пы	otice of Intent	Acidize	Deepen	Productio	n (Start/Resume) Water Shut-Off
	ter and the second s	Alter Casing	Fracture Treat	Reclamati	
X SI	ubsequent Report		New Construction	E E	
		Casing Repair		Recomple	
Fi	inal Abandonment Notice	Change Plans	Plug and Abandon		ily Abandon Off Lease Stg/Sale
		Convert to Injection	Plug Back	Water Dis	posal <u>&amp; Alt Measurment</u>
Attach the Bo following com testing has be determined the Marathon ( requestin production we are re- comminglin the wallhe R-24-E. I Central FA for process the separated then be m for furths	ind under which the work will be po- poletion of the involved operations. en completed. Final Abandonment at the final site is ready for final inspe- Oil Company, in accordan g approval of off-lease on from this well. Also questing off-lease measured ag of liquid hydrocarbos ead to a 3-phase separat After being measured, the acility, Section 19, T-2 ssing and sales. The 12 ator using turbine meter d and transported via po- . The liquid hydrocarbos etered and sold at the fit	rformed or provide the Bo If the operation results in: Notices shall be filed only extion.) ace with 43 CFR 3: measurement, stor , in accordance w urement, storage a a production from tor located at the he gas production 21-S, R-24-E, for iquid hydrocarbon rs as the alternation ipeline to the East on production will truck loading race the water storage	ond No. on file with BLN a multiple completion or after all requirements, in 162.7-5 and Onsho rage and sales, a Lth 43 CFR 3162.7 and sales, alterr this well. The a satellite facil is transported v compression, and and water produc to measurement me st Indian Basin O L be sent to the c. The water pro- a tanks, and ther	4/BIA. Required recompletion in a schuding reclamation and surface -2 and Onsh hate measure production lity at UL " via pipeline i then on to stion from to schod, per pr lentral Faci liquid hydro schuction will a be dispose as and all e	commingling of gas ore Oil and Gas Order No. 4, ment method, and surface from this well is sent from N <sup>*</sup> , Section 17, T-21-S, to the East Indian Basin the Indian Basin Gas Plant his well is measured through rior approvals, then lity where it will again be ocarbon storage tanks, and l be sent to the gun barrel d into the various Indian quipment to be used in
	that the foregoing is true and correct	~	Title		CEPTED FOR RECORD
Name (Printed/T	yped)	Yel 1		1 5	
Ginny :	Larke Kunny	JURR	Engine	er Technici	
	· /	•			
			Date 5/15/01		MAY 2 1 2001
	тн	S SPACE FOR FEDE			
Approved by	тн	S SPACE FOR FEDE			MAT Z T 2001 CARY GOUBLEY P⊆TROLEUR#€NGINEER

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Certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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#### APPLICATION FOR SURFACE COMMINGLING OFF-LEASE MEASUREMENT, STORAGE AND ALTERNATE MEASUREMENT APPROVAL

#### To: Bureau of Land Management P.O. Box 1778 Carlsbad, New Mexico 88220-1778

<u>Marathon Oil Company</u> is requesting approval for Surface Commingling, Off-Lease Storage, Measurement and Sales, and Alternate Measurement of hydrocarbon production from the following formation(s) and well(s) on:

Lease Name: Indian Hills Unit

Well No.	UL	Sec	TWP	RNG	Formation Lease #
31-Surface	A	20	21-S	24-E	Upper Penn State Lease
31-Bottom Hole	В	21	21-S	24-E	Upper Penn NM-07260

Marathon would like to commingle the production from this well with the production of the following wells, which is commingled at the East Indian Basin Central Facility, (Order R-11186)

1       29       48.2       6227         8       51       35.7       862         9       161       40.7       2075         10       335       46.3       5676         11       122       42.2       2303         12       118       40.6       1903         17       395       41.3       4419         18       264       44.7       3628         19       145       46.3       5763         20       184       46.1       2707         21       364       41.5       7499         22       685       46.0       10868         24       53       48.0       4220         28       354       42.8       3206         Gas Com 14       9       41.2       7244         Gas Com 13       10       44.8       6821         Gas Com 3       4       61.6       3014         IB "32" State 1-Y       2       41.2       5732         IB "32" State #3       93       38.6       301         IB "32" State #4       0       N/A       2855	WELL NO.		BOPD	<u>API <sup>0</sup></u>	MCFD
9       161       40.7       2075         10       335       46.3       5676         11       122       42.2       2303         12       118       40.6       1903         17       395       41.3       4419         18       264       44.7       3628         19       145       46.3       5763         20       184       46.1       2707         21       364       41.5       7499         22       685       46.0       10868         24       53       48.0       4220         28       354       42.8       3206         Gas Com 27       46       42.6       14528         Gas Com 13       10       44.8       6821         Gas Com 3       4       61.6       3014         IB "32" State 1-Y       2       41.2       5732         IB "32" State #2       3       56.0       10616         IB "32" State #3       93       38.6       301	1		29		6227
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Liquid hydrocarbon production is measured using turbine meters, per prior approval. These meters are proved on a regular schedule. A map is enclosed showing the lease numbers and location of all leases and wells that will contribute production to the commingled/common storage facility. A schematic diagram of the satellite facility is attached and clearly identifies all equipment that will be utilized. The Storage and Measurement facility is located at <u>UL "P"</u>, <u>Sec. 19, T-21-S, R-24-E, Eddy County, New</u> <u>Mexico.</u> The satellite facility is located in UL "N", Section 17, T-21-S, R-24-E, Eddy County, NM. The BLM was notified of this satellite facility in a prior application.

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The gas, liquid hydrocarbons and water from this well will be sent from the wellhead to the satellite facility where a 3-phase separator will separate the production. After separation, the gas is metered at the satellite facility before being delivered to the compressors at the Storage and Measurement facility in Section 19. After compression, the gas is processed through a dehydrator, metered and delivered to the Indian Basin Gas Plant for further processing. After processing, the gas and NGLs will be metered and sold at the tailgate of the plant.

The liquid hydrocarbons and water, after being metered through the separator at the satellite facility, will be recombined and then flow to a 3-phase separator at the Storage and Measurement facility in Section 19, via liquid pipeline. After separation, the liquid hydrocarbon production will be processed and stored in tanks at the Storage and Measurement facility. Processing may include the use of heat treating or other liquid hydrocarbon processing equipment. The liquid hydrocarbons will then be metered through a LACT unit, per prior approval, and sold at the truck loading rack.

The water production, after being processed through the 3-phase separator at the Storage and Measurement facility, will be sent to the gun barrel tank for further separation. It will then be sent to the water storage tanks prior to being metered and pumped to various wells in the produced water disposal system.

The working interest owners were notified of the original commingling proposal. The proposed commingling of production is in the interest of conservation and will not result in reduced royalty or improper measurement of production. The proposed commingling is necessary for the continued operation of the above referenced Federal Leases.

We understand that the requested approval will not constitute the granting of any right-of-way or construction rights not granted by lease instrument and we will submit, within 30 days, an application for right-of-way to the BLM's Realty Section in your office, if we have not already done so. Additional wells will require additional commingling approvals.

Signature:

Hinry Larke

Name: Ginny Larke Title: Engineer Technician May 18, 2001

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Attachments

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12. CHE0	K APPROPRIATE	BOX(ES) TO INDICAT	E NATURE OF	NOTICE, REI	PORT, OR OT	HER DATA	
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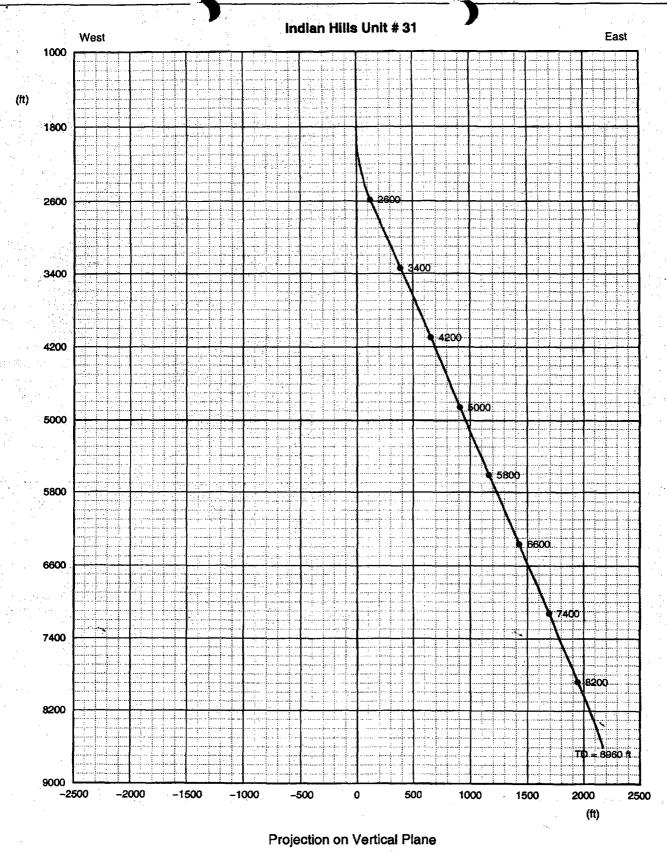
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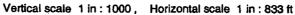
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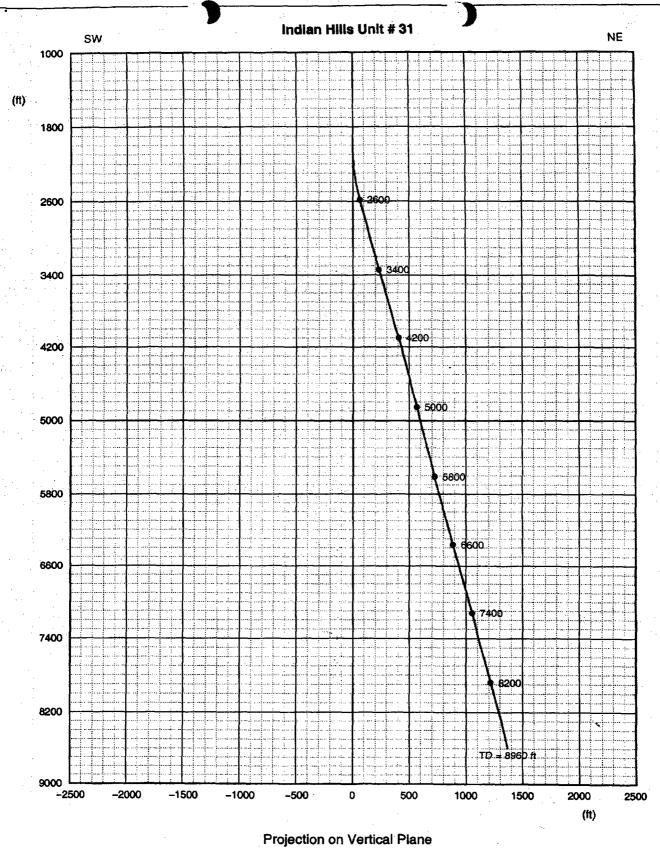
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Directional Survey Report - Indian Hills Unit # 31 2/28/01

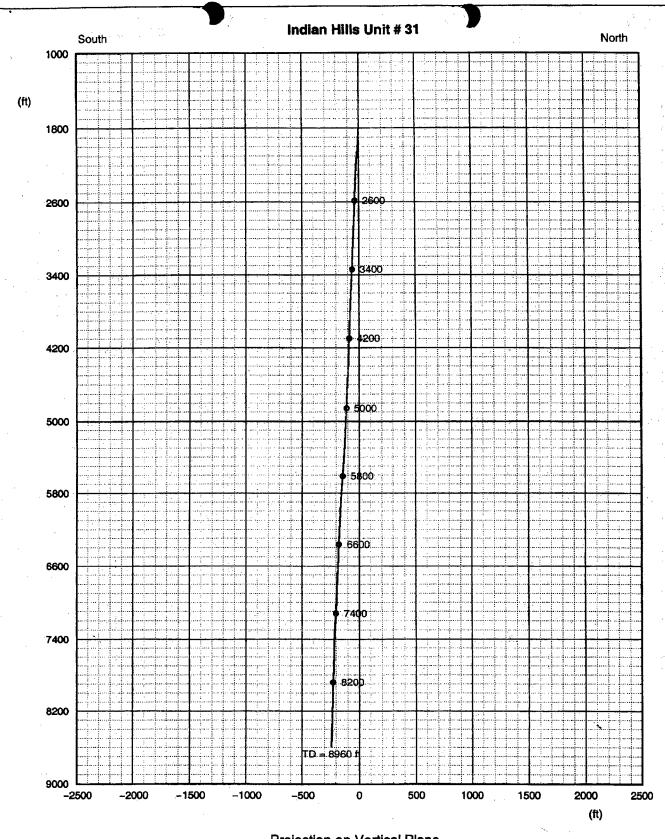
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Directional Survey Report - Indian Hills Unit # 31 2/28/01

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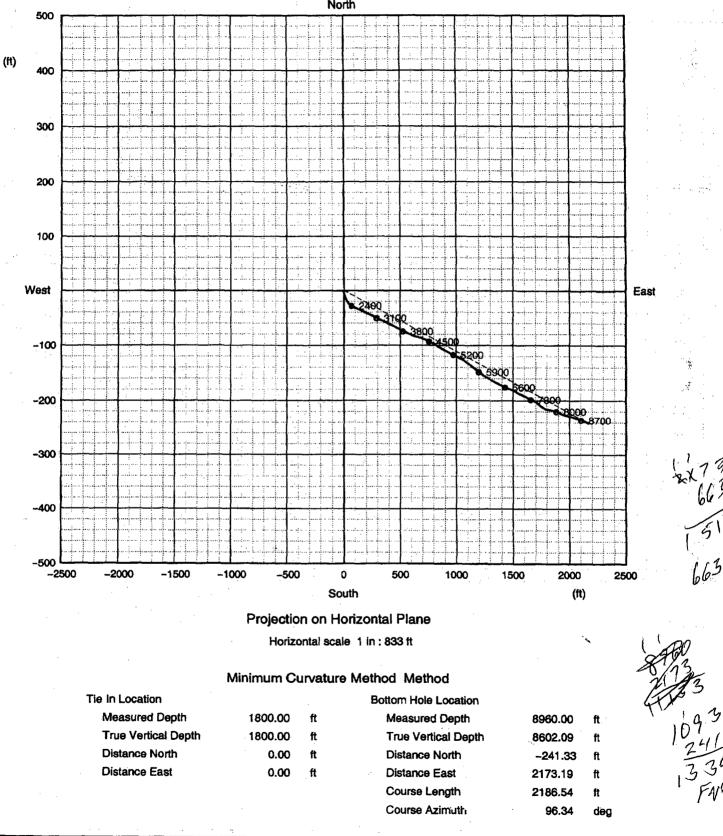
Projection on Vertical Plane

Vertical scale 1 in : 1000, Horizontal scale 1 in : 833 ft

Directional Survey Report - Indian Hills Unit # 31 2/28/01

#### Indian Hills Unit # 31

North



Directional Survey Report - Indian Hills Unit # 31 2/28/01

-1910 - Series

Schlumberger GeoQuest

# DIRECTIONAL SURVEY Indian Hills Unit # 31

## **General Information:**

Company Name:	Marathon Oil Company
Field:	Indian Basin-Upper Penn
Well:	Indian Hills Unit # 31
County:	Eddy
State:	New Mexico
Field Location:	1093 FNL & 663 FEL
API Number:	30-015-31534
Logging Engineer:	W.H. Morris / H.A. Olarte
Processed By:	Sara Draper
Service Order Number:	6539390
Job Number:	558688
Date Logged:	23-FEB-2001
Date Processed:	28-FEB-2001

# **Bottom Hole Location:**

Measured Depth	True Vertical Depth	+North -South Drift	+East -West Drift	Course Length	Course Azimuth
ft	ft	ft	ft	ft	Degrees
8960.0	8602.1	-241.3	2173.2	2186.5	276.3

Directional Survey Report - Indian Hills Unit # 31 2/28/01

Page 1

Se

#### **TVD Parameters**

Method of Computation:	Minimum Curvature Method
Type of Input Data:	Log Inputs Only
Stations Input File:	./tvdcomp.dat
Station Data Output Sample Type?:	Continuous
Magnetic Decl. Corr.?:	No

#### **Tie Point Parameters**

Measured Depth:	1800.0 ft
True Vertical Depth:	1800.0 ft
Azimuth:	0.0 deg
Deviation:	0.000 deg
North/South Drift:	0.0 ft
East/West Drift:	0.0 ft

#### **Input Parameters:**

**General Parameters** 

Top Depth:			1800.000 ft
Bottom Depth:	an tanàn Aon-		8960.000 ft
Sample Rate:		1	-0.500 ft

Tie Point information supplied by client . Well trajectory assumed to be vertical to casing shoe at 1800 feet.

Directional Survey Report - Indian Hills Unit # 31 2/28/01

LOCATION	1093' FNL, 663 _L EDDY COUNTY, NEW MEXICO	م مرکز این کار این
×	INDIAN HILLS UNIT NO. 31, SEC 20, T21S, R24E INDIAN BASIN	
LEASE & WELL	(Give Unit, Section, Township and Range)	
OPERATOR	MARATHON OIL CO. P. O. BOX 552 MIDLAND, TX 79701	
DRILLING CONTRA	CTOR NABORS DRILLING USA, INC.	

22. 2. Oak Pres

The Undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

DEGREES @ DEPTH	DEGREES @ DEPTH	DEGREES @ DEPTH	DEGREES @ DEPTH
3/4 144			
3/4 232			
1/4 385			
3/4 573		· · · · · · · · · · · · · · · · · · ·	
1/2 687		· · · · · · · · · · · · · · · · · · ·	
3/4 807		· · · · · · · · · · · · · · · · · · ·	
3/4 956			
2 1106			
2 1/4 1197			
<u>2 3/4 1344</u>			
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2 1623			
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·	· · · · · · · · · · · · · · · · · · ·		
	Drilling Contractor	Nabors Drilling USA, Inc.	
	By	Katlen	
	•	Brent Sanders-Manager C	contracts & Marketing
Subscribed and sworn to l	before me this 16th	day of march,	2001
AN AND	DONNA WESTBROOK	Dorne Wield	with
	Notary Public State of Texas	Notary Public	
My Commisio	My Comm. Exp. 12.29.2004	MIDLAND	County <u>TEXAS</u>

Form 3160-4 (August 1999	9)		DEPARTN BUREAU (	L O	D MANA	ITERIOR	<sup>r</sup> 811	S. 1st	t Str	eet	vision: 🤉	FORM APPRO DMB NO. 1004 ires: November	-0137 CISI
	WELL	COMPL	ETION OF	RECO	MPLET	ION REP	ORT ANPL	Isfa, N	M 8	8210	) <b>12834</b>	140. D	
ia. Type of	f Well	] Oil Wel	Gas W	:11	Dту	Other				1	5. If <b>Ind</b> ian, Al	lotee or Tribe N	lame
b. Type of	f Completion:	X	New Well	Worl	k Over	] Deepen	Plug B	ick 🗌 D	iff.Resv	т,.	7. Unit or CA	Agreement Nar	ne and No.
		Oth	er						-		INDIAN 1	HILLS UNIT	NM 70964X
. Name of	Operator		1		an a	e e e e						and Well No.	
Address			<u> </u>				3a. Phone N	o. (include	Brea coo	le)	9. API Well N	HILLS UNIT	<b>10</b>
	n of Well (Repo				non with F	adamal requi		0-351-14	17	<u> </u>	30-015-		<u> </u>
At surfac	<sup>2</sup> UL A,	10897 1 10 <b>93</b>	FNL & .665 46	FEL,	SECTIC	<ol> <li>A 100 A</li> </ol>	-21-S, R-2	4 <b>-</b> 8		1	INDIAN 1 1.Sec., T., R., Survey of A SECTION	M., or Block a rea 21, T-21-	<u>R PENN ASS</u> O nd <u>8, R-24-E</u>
At total d	lepth TT. 2	F 1327	N I	510/0	N SRC.	21 -	21-24				2. County or P		
14. Date Sp			e T.D. Reach			16. Dat	e Completed	······································			7. Elevations	TY N (DF, RKB, RT	
				• .	÷ .		D&A	X Ready	to Pro	d.	-		
1/26/ 18. Total D			22/01 55 · 19.	Plug Ba	ck T.D.: 1	MD .	5/2/01 8908'	20. 1	 Depth B	l Bridge Ph	the second s	<b>', GL-4149</b>	•
с	TVD	86	00'		••••••••••••••••••••••••••••••••••••••	IVD	8552'				TV		
LATEROL	OG ARRAY/	NGT, LI	THORENSI	EX _CN/1		h)		Wa	is well co is DST re rectional		X No ( X No ( No ( No	Yes (Submit and Yes (Submit rep Xes (Subm	ort
Hole Size	Size/Grade	WL(#ft.)	Top (MD)	Botto	m (MD)	Stage Cem Depth		f Sks. &		ry Vol.	Ciement To	op* Am	ount Pulled
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24. Tubing	Record		• • •			_							•
Size	Depth Set (		acker Depth (M	<u>~</u>	Size	Depth Set	(MD) Pack	r Depth (MD	<u>~</u>	Size	Depth Set	(MD) Pack	r Depth (MD)
3.5" 25. Produci	ing Intervals		RBP-8797	<u> </u>		26. Perfor	ation Record		<u></u>		<u> </u>	<u></u>	
	Formation		Тор	Bo	ottom		rforated Interval		Size		No. Hailes	Perf.	Status
N)	UPPER PEN	N					64'-8564'				5 spat		OPEN
3) 				-{·			· · · · · ·					[	
C)										÷.	·		
	racture, Treatr	nent, Cem	ent Squeeze. 1	 Etc.			نیر . بکر ،	÷ 1-	È		ACCEPT	ED FOR F	RECORD
	Depth Interval							and Type of	Material				
84	64'-8564'		7000 '	GALS.	15% CC	A SOUR 2			EIVER	)		V -1 - 11/1	
·				<u></u>			1913		ARTE	SIA	MA	Y 2 T 200	<u>//                                     </u>
	<u> </u>			·			10	<u> </u>	<del></del>				
8. Producti	ion - Interval A			<u>-</u> .	. ·		<b>`</b>	St 2111	01.69	م مربا د	PETRO	RY GOURLE	NEER
Date First Produced 5/2/01	Test Date 5/12/01	Hours Tested 24	Test Production	Oil BBL 867	Gas MCF 5136	Water BBL 1985	Oil Gravity	Gas Gravity		Production	on Metimed	Pumping	
Choke Size	Tbg. Press. Flwg. SI 250	Csg. Press. 200	24 Hr.	Oi BBL	Gas MCF	Water BBL	Gas: Oil Ratio 5924 cf/	Well Status	Produ	ucing			
	tion-Interval B Test	Hours	Test	Oil	Gas	Water	Oil	Gas	<del>-</del>	Dread	on Methiod		
		Tested	Production	BBL	MCF	BBL	Gravity	Gas Gravity		TOUNCIK		2	
Date First Produced	Date												
Choke Size		Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status					<u></u>

Date First	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water 8BL	Oil Gravity	Gas Gravity	Production Method		
Choke	Tbg. Press.	Csg.	24	Oil	Gas	Water	Gas: Oil	Well			
Size	Flwg. SI	Press.	Hr.	BBL	MCF	BBL	Ratio	Status			
8c. Produc	tion-Interval I	D :		••••••••••••••••••••••••••••••••••••••						•	
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status			
9. Disposi	ion of Gas (Sol	d,used for	fuel, vented, et	ic.)	•	· ·	an an ann an				
0. Summ	ry of Porous	Zones (Inc	lude Aquifers):					31. Formati	ion (Log) Markers		
tests,	all important including dep res and recove	th interva	orosity and co l tested, cush	ion used	hereof: Co I, time to	ored intervi ol open, :	als and all drill-stem flowing and shut-in		a 🖤 🐮 🔪 🦄 🦄		• .
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Forma	tion	Тор	Bottom		Desci	riptions, Co	ontents, etc.		Name	Meas.De	pth
Upper I	em	8114	8680			19. J. S. S.	Limestone an	is}a7a stia		47	
, in , in			n de la service Service Service	COL	ntains (	gas, oi	1 & water	San Andr		118	•••
						an in the		Gloriett	<b></b>	287	
					· · · · ·		•	Yeso		299	
					• • •	• • •		-	rings Lime	542	-
					2.1		1	Wolfcam	e Springs Sand	72	
•				- 1	i u d			Cisco		730	
		ga ar						Canyon		83:	12
· . · ·								Strawn		884	13
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2. Additio	onal remarks (	include plu	gging procedu	re):				, en			
	a de la companya de la					e Se st			en e		
	•										
			•						· ·	,	
3. Circle	enclosed attac	hments:					n Managanan Takan Salaharan Angela Salaharan	and all and an end			
			i full set req'd)		2. Geologic	Report	3. DST Report	4. Directional	l Survey		
5. Sund	ry Notice for	plugging a	nd cement veri	fication	6. Core A	Analysis	7. Other	а. А	- 	•	
				a :- C		1					
4. I MELEU	y certify that i	ne ioregoi	ng ano attactic			npicie anu	correct as uptermane	u lionian avana	ble records (see attached	insuructions)*	
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Signatur	فر ه	Un.	my d	101	Re	/	Da	te <u>5/15/01</u>	L	· · · ·	
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August 1999) DEPARTMEN	TATES F OF THE INTERIOR	1301 W. G	I' )ist. 2 Irand Aveny	FORM APPROVED OMB NO. 1004-0135 pres: November 30, 2000 Serial No.	151
BUREAU OF L	AND MANAGEMENT	Artesia,	NM 88210.	Serial No.	-
SUNDRY NOTICES	AND REPORTS ON WE		NM 0726		
	proposals to drill or to re-er		6. If Indi	an, Allottee or Tribe Name	
abandoned well. Use For	rm 3160-3 (APD) for such pr	roposals.			
SUBMIT IN TRIPLICATE -	Other in structions on row		7. If Unit	or CA/Agreement, Name and/o	DT NO.
SUBMIT IN TRIPLICATE -	Other Instructions on rev	erse side	<ul> <li>A start and a start an start and a start</li></ul>	HILLS UNIT	
Type of Well			NM 7096		·····
Oil Well X Gas Well Other				Name and No. HILLS UNIT #31	
Name of Operator		n an			_
Marathon Oil Company	Lab Pho	ne No. (include area coa	9. API W		- <b>-</b>
a. Address P.O. Box 552 Midland, TX 79702		00-351-1417	130-013-	-31534 and Pool, or Exploratory Area	
Location of Well (Footage, 1973 R., M., or 1973		00-004-484/		BASIN UPPER PENN	
SURFACE: UL "A", 1809' FNL & 658' I		5, R-24-E	ASSOCT	TED GAS POOL	<u> </u>
BOTTOM HOLE: UL "F", 1327' FNL & 15			11. Cour	nty or Parish, State	
	<u></u>		EDDY		
12. CHECK APPROPRIATE	BOX(ES) TO INDICATE	NATURE OF NOT	CE, REPORT, OR	OTHER DATA	
TYPE OF SUBMISSION		TYPE OF	ACTION		-
			]		
Notice of Intent		Deepen	Production (Start/Resun		
X Subsequent Report	Alter Casing	Fracture Treat	Reclamation	Well Integrity	
	Casing Repair	New Construction	Recomplete	X Other CORRECT	<b>_</b> - • •
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporarily Abandon	RECORD OF BOTTOM	<u> </u>
		· · · · ·			
If the proposal is to deepen directionally or recom Attach the Bond under which the work will be per following completion of the involved operations. testing has been completed. Final Abandonment	ly state all pertinent details, includin plete horizontally, give subsurface rformed or provide the Bond No. If the operation results in a multipj Notices shall be filed only after all	locations and measured a on file with BLM/BIA. le completion or recomp	and true vertical depths Required subsequent r letion in a new interval	of all pertinent markers and zo reports shall be filed within 30 d a Form 3160-4 shall be filed o	nes. lays mce
If the proposal is to deepen directionally or recomn Attach the Bond under which the work will be perfollowing completion of the involved operations.	y state all pertinent details, includin plete horizontally, give subsurface rformed or provide the Bond No. If the operation results in a multip Notices shall be filed only after all ction.)	ng estimated starting dat locations and measured i on file with BLM/BIA. le completion or recomp l requirements, including	e of any proposed work and true vertical depths Required subsequent r letion in a new interval g reclamation, have been this wall. The	k and approximate duration ther of all pertinent markers and 20 reports shall be filed within 30 d a Form 3160-4 shall be filed o en completed, and the operator	nes. lays
If the proposal is to deepen directionally or recom Attach the Bond under which the work will be pe following completion of the involved operations. Itesting has been completed. Final Abandonment I determined that the final site is ready for final inspe I recently discovered an error or location of UL "J", 1327' FSL & 1	by state all pertinent details, includin plete horizontally, give subsurface rformed or provide the Bond No. If the operation results in a multipl Notices shall be filed only after all ction.) a all forms that have h 1550' FWL, Section 21,	ng estimated starting dat locations and measured i on file with BLM/BIA. le completion or recomp l requirements, including meen sent in on t T-21-S, R-23-E :	e of any proposed work and true vertical depths Required subsequent r letion in a new interval g reclamation, have been this wall. The is INCORRECT.	k and approximate duration ther of all pertinent markers and 20 reports shall be filed within 30 d a Form 3160-4 shall be filed o en completed, and the operator	nes. lays
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	Рте	vious Operat	or Signature			Printed Name			Title	Da	ite

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Form 3160-5 UNI (August 1999) DEPARTMENT	STATES OF THE INTERIOR		DISCOMB NO. 1004-0135
	ND MANAGEMENT	1201 M/ Crow	Expires: November 30, 2000
÷ .		Artopio NIM	
	AND REPORTS ON WELLS	Artesia, NM	
	proposals to drill or to re-enter an m 3160-3 (APD) for such proposa	1.	Indian, Allottee or Tribe Name
	11 3160-3 (APD) 101 SUCII piuposa	5. 	
SUBMIT IN TRIPLICATE -	Other instructions on reverse	<b>Te</b> 7. 1	Unit or CA/Agreement, Name and/or No.
	[v]		IAN HILLS UNIT
1. Type of Well	en en la secte de la secte	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	70964A
Oil Well X Gas Well Other	1.5	IND	Veil Name and No. <b>IAN HILLS UNIT #31</b>
2. Name of Operator		an BRILL	
Marathon Oil Company 3a. Address	3h Phone No.		PI Well No.
P.O. Box 552 Midland, TX 79702	800-35		015-31534 Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey			LAN BASIN UPPER PENN
SURFACE: UL "A", 1089' FML & 665'	FEL, SECTION 20, T-21-S, R-	24-E ASS	CIATED GAS POOL
the second s		•	County or Parish, State
BOTTOM HOLE: UL "F", 1327' FNL & 1	550' FWL, SECTION 21, T-21-5	, R-24-E EDD	Y COUNTY NM
12. CHECK APPROPRIATE	BOX(ES) TO INDICATE NATL	RE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	· · · · · · · · · · · · · · · · · · ·
Notice of Intent	X Acidize Deepen	Production (Start/	Resume) Water Shut-Off
	Alter Casing		
Subsequent Report			Weil Integrity
	Casing Repair New Cor		Other
Final Abandonment Notice		Abandon Temporarily Aban	don
	Convert to Injection Plug Bac		
13. Describe Proposed or Completed Operation (clear If the proposal is to deepen directionally or recom Attach the Bond under which the work will be pe following completion of the involved operations. testing has been completed. Final Abandonment determined that the final site is ready for final insoe	y state all pertinent details, including estin plete horizontally, give subsurface location formed or provide the Bond No. on file of the operation results in a multiple comp Notices shall be filed only after all requir	ated starting date of any proposed s and measured and true vertical d with BLM/BIA. Required subsequences and the	work and approximate duration thereof. epths of all pertinent markers and zones. nent reports shall be filed within 30 days erval, a Form 3160-4 shall be filed once
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• •	STATES OF THE INTERIOR		S. FORM APPROVED Dist. 2 OMB NO. 1004-0135 Expires November 30, 2000
	D MANAGEMENT	1301 W. Gran	2 Lease Serial No.
	ND REPORTS ON W	7 11 10	6. If Indian, Allottee or Tribe Name
Do not use this form for pl abandoned well. Use Form		proposals	U. HINNER, ANDRES UT THE INTER
		A.56780	A Martin an OAM and an Martin and An Na
SUBMIT IN TRIPLICATE - O	ther instructions on re	verse side	7. If Unit or CA/Agreement, Name and/or No. INDIAN HILLS UNIT
1. Type of Well	and a feat	15	NM 70964A
Oil Well X Gas Well Other		RECEIVED	8. Well Name and No. INDIAN HILLS UNIT #31.
2. Name of Operator Marathon Oil Company		000 ARTESIA	
3a. Address	3b. Pl	none No. (include area code)	9. API Well No. 30-015-31534
P.O. Box 552 Midland, TX 79702	maintion)	800-351-1417	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey De SURFACE: UL "A", 1089! FNL & 665' F	-	-S. R-24-E	INDIAN BASIN UPPER PENN ASSOCTATED GAS POOL
			11. County or Parish, State
BOTTOM HOLE: UL "F", 1327' FNL & 155			EDDY COUNTY NM
12. CHECK APPROPRIATE I	BOX(ES) TO INDICATI	E NATURE OF NOTICE, REP	ORT, OR OTHER DATA
		TYPE OF ACTION	
Notice of Intent	X Acidize	Deepen Production	(Start/Resume) Water Shut-Off
	Alter Casing	Fracture Treat Reclamatic	on Well Integrity
X Subsequent Report	Casing Repair	New Construction Recomplet	X Other Add Pay
Final Abandonment Notice	Change Plans	Phug and Abandon Temporari	ly Abandon and Stimilate
	Convert to Injection	Phug Back Water Dis	posal
following completion of the involved operations: If testing has been completed. Final Abandonment No determined that the final site is ready for final inspecti 12/11/01 MIRU FU, ND wellhead and 8355'-8362', 8368'-8438' w/4 japf. 15% Ferchek acid for a total of 11	tices shall be filed only after on.) NJ BOPS. POOH w/tb RIH w/PPI packers	all requirements, including reclamatic g & RBP. RIH and parf 82 and set 6 8456'. PUH as	<ul> <li>xa, have been completed, and the operator has</li> <li>297'-8304', 8312'-8332',</li> <li>cidizing new perfs w/100 gpf</li> </ul>
breakdown pressure 1350 psi, avg r final splice, landed hanger in wel			
department 12/16/01	Libri, nd Eurs and .	W WEILINGG. TURING WEL	
		ACCEPTED FOR F	RECORD
· · · · · · · · · · · · · · · · · · ·			
		FEB 5 20	02
		ALEXIS C. SWOE	
		PETROLEUM ENG	INEER
14. Thereby certify that the foregoing is true and correct.	<u> </u>	itic	
14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Girmy Larke	Lasko J	Engineer Technici	811 - 1 1 1 1 1 1 1
	· · ·	Date 1/30/02	
/	L	OR STATE OFFICE USE	
Арр		Title	Date
Cond Accepted for record	e does not warrant o		
certif FEB 7 2002	ts in the subject leas	r Office	
Title Only	kes it a crime for an	y person knowingly and willfully to ma	ake to any department or agency of the United
State	s as to any matter wi		
			1

	BUREAU OF LAND MANA	RTS ON WELLS		5. Lease Serial No. NMNM07260
Do not use	this form for proposals to vell. Use form 3160-3 (AP	drill or to re-enter an		6. If Indian, Allottee or Tribe Name
SUBMIT IN T	RIPLICATE - Other Instruc	tions on reverse side	JEIVED	7. If Unit or CA/Agreement, Name and/or No NMNM70964A
1. Type of Well	Other		1 3 7004	8. Well Name and No. INDIAN HILLS UNIT 31
2. Name of Operator MARATHON OIL COMPAN	Contact:	CHARLES KENDRIX E-Mail: cekendrix@marathonoil.		9. API Well No. 30-015-31534-00-S1
38. Address P O BOX 3487 HOUSTON, TX 77253-3487		3b. Phone No. (include area code Ph: 800.351.1417 Ext: 810 Fx: 915.687.8196	e) 04	10. Field and Pool, or Exploratory INDIAN BASIN
4. Location of Well (Footage, Sec.,	, T., R., M., or Survey Description	)		11. County or Parish, and State
Sec 20 T21S R24E NENE 1	089FNL 665FEL			EDDY COUNTY, NM
12. CHECK API	PROPRIATE BOX(ES) TO	INDICATE NATURE OF N	NOTICE, RE	PORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF	F ACTION	
Ninting of Internet	Acidize	Deepen	Productio	n (Start/Resume) Water Shut-Off
Notice of Intent	Alter Casing	Fracture Treat	Reclamat	ion 🖸 Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomple	ete 53 Other Surface Disturbanc
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporar	ily Abandon Surface Distorband
2	Convert to Injection	Plug Back	Water Dis	posal
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