

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson Governor Joanna Prukop Cabinet Secretary

July 15, 2003

Lori Wrotenbery
Director
Oil Conservation Division

Marathon Oil Company P. O. Box 552 Midland, Texas 79702-0552

Attention:

Steve Millican

SFMillican@MarathonOil com

Administrative Order NSL-4215-B (BHL) (SD)

Dear Mr. Millican:

Reference is made to the following: (i) your application filed with the New Mexico Oil Conservation Division ("Division") on May 30, 2003 (administrative application reference No. pKRV0-315347812); and (ii) the Division's records in Santa Fe, including the file on Division Administrative Orders NSL-4215 and 4215-A (SD): 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 its proposed Indian Hills Unit Well No. 53 to be drilled as an upper Pennsylvanian infill well to an unorthodox subsurface location within an existing standard 320-acre lay-down spacing and proration unit comprising the S/2 of Section 28, Township 21 South, Range 24 East, NMPM, Indian Basin-Upper Pennsylvanian Associated Pool (33685), Eddy County, New Mexico.

This unit is currently simultaneously dedicated to Marathon's:

- (i) Indian Hills Unit Well No. 19 (API No. 30-015-30572), located at an unorthodox location (approved by Division Administrative Order NSL-4215, dated February 18, 1999) 1400 feet from the South line and 1248 feet from the West line (Unit L) of Section 28;
- (ii) Indian Hills Unit Well No. 20 (API No. 30-015-30658), located at an unorthodox location (approved by Division Administrative Order NSL-4215-A, dated August 13, 2001) 2250 feet from the South line and 1730 feet from the East line (Unit J) of Section 28; and
- (iii) Indian Hills Unit Well No. 35 (API No. 30-015-32199), located on the surface 1087 feet from the North line and 2037 feet from the East line (Unit B) of Section 33, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico, and completed within the Indian Basin-Upper Pennsylvanian Associated Pool (33685) at a standard sub-surface location within the SW/4 SE/4 (Unit O) of Section 28.

It is our understanding the proposed Indian Hills Unit Well No. 53, because of topographic reasons, will be spud at a surface location 1383 feet from the North line and 1586 feet from the West line (Unit F) of Section 28, and drilled directionally to the south-southeast to a targeted-bottomhole location at an approximate depth 8,119 feet (TVD) 2397 feet from the South line and 2014 feet from the West line (Unit K) of Section 28. The wellbore is to intersect the top of the Upper-Pennsylvanian interval at an approximate depth of 7,419 feet (TVD) 2582 feet from the South line and 1945 feet from the West line (Unit K) of Section 28. The proposed well will be unorthodox in that the entire producing interval will be closer then the standard setback distance of 660 from the northern boundary line South line of this spacing and proration unit. Further, this 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, the above-described unorthodox sub-surface location for the Indian Hills Unit Well No. 53 within the N/2 of Section 28, 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.

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. 19, 20, 35, and 53. Furthermore, Marathon is permitted to produce the allowable assigned the subject 320-acre spacing and proration unit from both wells in any proportion.

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

Sincerely,

Lori Wrotenbery

Director

LW/mes

cc: New Mexico Oil Conservation Division - Artesia

U. S. Bureau of Land Management - Carlsbad

File: NSL-4215

NSL-4215-A (SD)

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

February 18, 1999

Marathon Oil Company P. O. Box 552 Midland, Texas 79702-0552 Attention: Walter J. Dueease

Administrative Order NSL-4215

Dear Mr. Dueease:

Reference is made to the following: (i) your initial application dated January 26, 1999; (ii) the New Mexico Oil Conservation Division's ("Division") letter dated February 9, 1999 from Mr. Michael E. Stogner, Chief Hearing Officer/Engineer, withdrawing this application; (iii) your re-submittal of this application hand delivered to the Division's Santa Fe office on February 17, 1999; (iv) the records of the Division in Santa Fe; and (v) Division Order No. R-9922-D, issued in Case No. 12006 dated December 7, 1998, which adjusted the Upper-Pennsylvanian pool boundaries in the area subject to your application: all concerning Marathon Oil Company's request for a non-standard oil/gas well location within a 320-acre standard spacing and proration unit for the Indian Basin-Upper Pennsylvanian Associated Pool comprising the S/2 of Section 28, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico.

The subject application has been duly filed under the provisions of Division Rule 104.F.

By the authority granted me under the provisions of: (i) Rule 2(c) 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; and, (ii) Division Rule 104.F(2), the following described well, to be drilled at an unorthodox oil/gas well location within the Indian Basin-Upper Pennsylvanian Associated Pool is hereby approved:

Indian Hills Unit Well No. 19 1400' FSL & 1248' FWL (Unit L) of Section 28 (API No. 30-015-30572).

It is our understanding that this well is to be a replacement for Marathon Oil Company's Indian Hills Unit Well No. 4 (API No. 30-015-10738), located 1650 feet from the South and West lines (Unit K) of Section 28, which was drilled by Ralph Lowe in 1965 and produced from the Upper-Pennsylvanian interval until 1970 when this well was temporarily abandoned.

Further, Marathon Oil Company will assure that any and all wells in Section 28 producing from the Indian Basin-Upper Pennsylvanian Associated Pool are being operated pursuant to the requirements of Division Order No. R-9922-D.

Sincerely.

Lori Wrotenbery Director

LW/MES/kv

cc: New Mexico Oil Conservation Division - Artesia
U. S. Bureau of Land Management - Carlsbad



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

August 13, 2001

Lori Wrotenbery
Director
Oil Conservation Division

Marathon Oil Company c/o W. Thomas Kellahin P. O. Box 2265 Santa Fe, New Mexico 87504-2265

Telefax No. (505) 982-2047

Administrative Order NSL-4215-A (SD)

Dear Mr. Kellahin:

Reference is made to the following: (i) your initial application filed with the New Mexico Oil Conservation Division ("Division") on behalf of the operator, Marathon Oil Company ("Marathon") on July 23, 2001 (Division application reference No. pKRV0-120540431); (ii) your telephone conversation with Mr. Michael E. Stogner, Engineer/Chief Hearing Officer with the Division in Santa Fe on Monday, August 13, 2001; and (iii) the Division's records in Santa Fe, including the file on Division Administrative Order NSL-4215, dated February 18, 1999: all concerning Marathon's 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, 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 an existing infill well that was inadvertently drilled at an unorthodox well location within an existing 320-acre lay-down spacing and proration unit comprising the S/2 of Section 28, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico.

This unit is currently dedicated to Marathon's Indian Hills Unit Well No. 19 (API No. 30-015-30572), located at an unorthodox location (approved by Division Administrative Order NSL-4215) 1400 feet from the South line and 1248 feet from the West line (Unit L) of Section 28.

The subject 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 the following described well located at an unorthodox infill location within this 320-acre unit is hereby approved:

Administrative Order NSL-4215-A(SD) Marathon Oil Company August 13, 2001 Page 2

Indian Hills Unit Well No. 20 2250' FSL & 1730' FEL (Unit J) of Section 28 (API No. 30-015-30658).

Marathon is hereby authorized to simultaneously dedicate production attributed to the Indian Basin-Upper Pennsylvanian Associated Pool (33685) from its existing Indian Hills Unit Wells No. 19 and 20. Furthermore, Marathon is permitted to produce the allowable assigned the subject 320-acre spacing and proration unit from both wells in any proportion.

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

Sincerely,

Lori Wrotenbery

Director

LW/MES/kv

New Mexico Oil Conservation Division - Artesia

18 No Borress of Land Management - Carlsbad

NSL-4215 /

Form 3160-3 (July 1992)

N.M. Oil Cons. DIV-Dist. 2

UNITED STATES 1301 W. Grand Avenue

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

	DEPARTMEN'	T OF THE INT	I EKI	uesia, ivim	88210	5. LEASE DESIGNATION AND SERIAL NO.
		LAND MANAG				6. IF INDIAN, ALLOTTEE OR TRIBE NAME
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a. TYPE OF WORK			1			7. UNIT AGREEMENT NAME
b. TYPE OF WELL	ILL X	DEEPEN L	J	_	_	Indian Hills Unit
OIL WELL	GAS X OTHER	3456	SII Z	NGLE X MUL ONE X ZON	TIPLE	8. FARM OR LEASE NAME, WELL NO. Indian Hills Unit 53
. NAME OF OPERATOR		1,000	, 0,0 ×			
Marathon Oil Comp	eny /	S Illi on		2 <u>)</u>		9. API WELL NO.
D A Bow 550 Mid	11 mail 107 79702 /9	ט טער אַרוּ	<i>(</i>),?	72\ 75\ 432	-687-8360	10. FIELD AND POOL, OR WILDCAT
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1383' FNL & 1586'	FWL \	AN/E	SIA	5/	**	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
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	DIRECTION FROM NEAREST TOWN	OR POST OFFICE 17.	J65	/		12. COUNTY OR PARISH 13. STATE
15 miles NW of Ca	arlsbad					Eddy N.M.
LOCATION TO NEAREST PROPERTY OR LEASE LINE	: FT	16		ACRES IN LEASE	17, NO. OF TO THIS	
(Also to nearest drig, unit) 8. DISTANCE FROM PROPOSE	line if any) P.P. 52'	10	320 9. PROPO	OSED DEPTH	20. ROTAR	80 Y OR CABLE TOOLS
TO NEAREST WELL, DRILL OR APPLIED FOR, ON THIS	ING, COMPLETED,	["	8385		Rot	•
I. ELEVATIONS (Show wheth				-	a~v	22. APPROX. DATE WORK WILL START*
G.L. 3702						July 1,2003
3.	1	PROPOSED CASING A	ND CEM	ENTING PROGRAM		
	CRAPE SIZE OF CASING	WEIGHT PER FOOT		SETTING DEPTH		QUANTITY OF CEMENT
SIZE OF HOLE	GRADE, SIZE OF CASING					
SIZE OF HOLE 12-1/4"	9-5/8" K-55	36#		1200′	515 s	
12-1/4" 8-3/4"	9-5/8" K-55 7" K-55	23/26#	Direc	8385*	1280	ks.
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DISTRICT .I. P.O. Box 1880, Robbs, RM 88241-1980

State of New Mexico

Energy, Minerals and Ratural Resources Department

Form C-102 Revised Pebruary 10, 1994 Submit to Appropriate District Office

State Lease - 4 Copies

DISTRICT II

OIL CONSERVATION DIVISION

DISTRICT III 1000 Rio Brazos Rd., Axtec, N	N 87410		Santa F		Box 2	088 5 87504-2088		res Lease -	- 3 Copies
DISTRICT IV P.G. BOX 2088, SANTA FE, N.M. 87	504-2088	WELL LO	CATION	AND	ACREA	GE DEDICATI	ON PLAT	□ AMENDED	REPORT
API Number		33685	Pool Code		India	an Basin Uppe	Pool Name er Penn. Asso	эс.	
Property Code			INI		erty Name			Well Num	ber
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320 \$ /2									
NO ALLOWABLE						NTIL ALL INTEI APPROVED BY		EN CONSOLIDA	TED
1586	1393.		Y = 528 X = 446	27 NME 3872.9 5801.8 27'13.92" 34'30'20.8	N 87"W		Signature Jerry Fl Printed Name Engineer Title 5/23/03 Date SURVEYO I hereby certify on this plat we actual surveys supervisen, on correct to the Mo Date Surveys Signature & Professional Certificate, No.	etcher Tech. R CERTIFICAT that the well locate as plotted from field made by me or at that the same is a best of my bolte; y 20, 2003 dwarm of the same is a best of my bolte; y 20, 2003	TON Ion shown I notes of under my true and

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

State Lease - 4 Copies Yee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

P.O. Box 2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

DISTRICT III 1000 Rio Brazos Rd., Astec, NM 87410

DISTRICT IV

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

P.O. BOX 2088, SANTA FE, N.M. 87504-2084	WELL LOCATION AND	ACREAGE DEDICATION PLAT	☐ AMENDED REPORT
API Number	Pool Code	Pool Name	
	33685	Indian Basin Upper Penn. Asso	c.
Property Code	•	perty Name HILLS UNIT	Well Number 53
OGRID No.	Оре	retor Name	Elevation
14021	MARATHON	OIL COMPANY	3702'

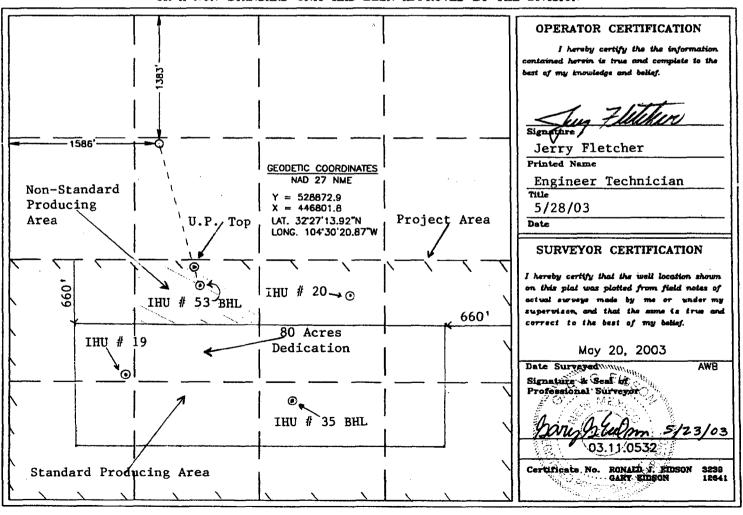
Surface Location

ł	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	F	28	21-S	24-E		1383'	NORTH	1586'	WEST	EDDY

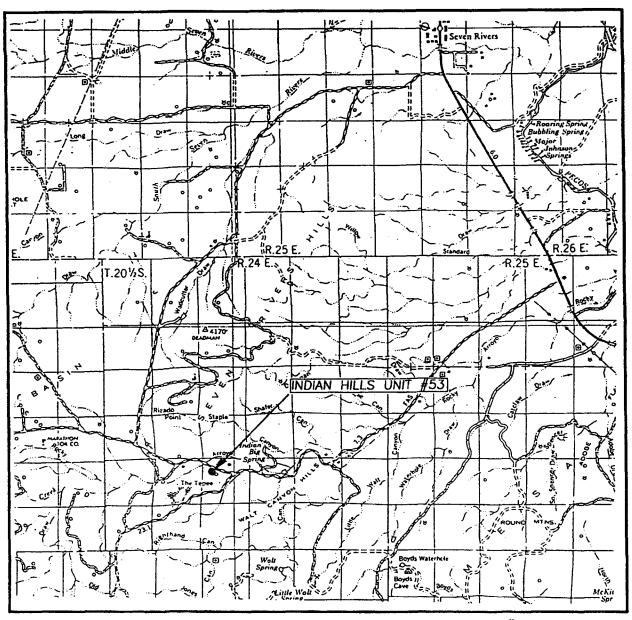
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	28	21-S			2397'	SOUTH	20141	WEST	
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.				
320 S/2									

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



VICINITY MAP



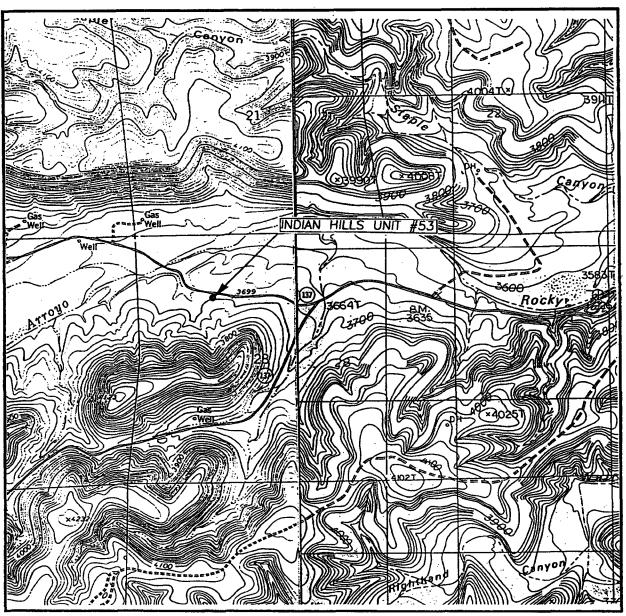
SCALE: 1" = 2 MILES

SEC. <u>28</u> TWP. <u>21-S</u> RGE. <u>24-E</u>
SURVEYN.M.P.M.
COUNTYEDDY
DESCRIPTION 1383' FNL 1586' FWL
ELEVATION 3702'
OPERATOR MARATHON OIL COMPANY

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



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 28 TWP. 21-5 RGE. 24-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1383' FNL 1586' FWL

ELEVATION 3702'

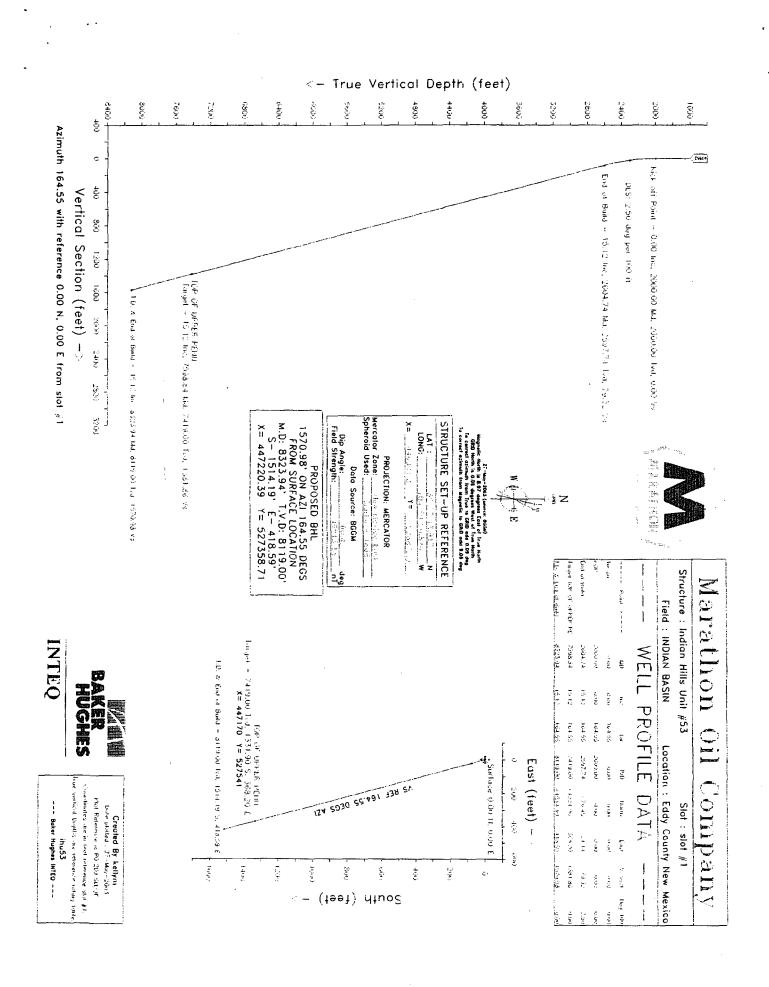
OPERATOR MARATHON OIL COMPANY

LEASE INDIAN HILLS UNIT

U.S.G.S. TOPOGRAPHIC MAP
MARTHA CREEK AZOTEA PEAK, N.M.

CONTOUR INTERVAL: MARTHA CREEK, N.M. AZOTEA PEAK, N.M. 20'

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



Marathon Oil Company Indian Hills Unit #53

slot #1 INDIAN BASIN Eddy County New Mexico

PROPOSAL LISTING

Baker Hughes INTEQ

Your ref : P0 2DJ SM/JF Our ref : prop3862

License :

Date printed : 27-May-2003

Date created : 27-May-2003

Last revised : 27-May-2003

Field is centred on n32 30 0.000, w104 30 0 Structure is centred on 446801.800,528872.900,999.00000,N

Slot location is n32 27 13.917,w104 30 20.874
Slot Grid coordinates are N 528872.900, E 446801.800
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is Grid North

Marathon Oil Company Indian Hills Unit #53,slot #1 INDIAN BASIN,Eddy County New Mexico

PROPOSAL LISTING Page 1
Your ref : P0 2DJ SM/JF
Last revised : 27-May-2003

323.9	365	500.	7000.00	6500.00	000	5500.00	5000.00	4500.00	000	3500.00	000	4		500.	•	300	200.	100.	2000.00	1500.00	1000.00	500.00	0.00	Depth	Measured	
	15.12		15.12	15.12	ŗ	15.12		15.12	ū	5	15.12	5	15.00		10.00	7.50	•	ഗ	•	0.00	٠		0.00		Inclin	
64.5	164.55	64.5	64.5	164.55	. 5		164.55	64.5	64.5	64.5	164.55	64.5		64.	4.5	64.	64.5	64.5	64.5	64.5	164.55	64.5	64.5	Degrees	Azimuth	1
8119.00	419.0	7323.58	•	ω 6	875.4	392.8	4910.10	7.	944.7	462.	2979.33	597.7	2593.17	2496.04	397.9	99.	2199.75	099.	2000.00	1500.00	00.	500.00	0.00	Depth	True Vert	
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8 5	. 20	1.3	6.58	Y.	07.0	22.3		52.8	118.10E	3.35	8	1.14	20.815	14.48E	9	5.22E	N	œ	0.00E	0.00E	0.00E	0.00至	0.00E	ATES	A	
. 00	0.00	. 00	.00			0.00	0.00		0.00		0.00	2.50		•	2.50	ப	5	Մ	0.00	0.00		0.00		θf	Dogleg	
v	1381.86	0	O	1095.26	٠.	0 4 4 4 5	704.04	73.	443.23	•	182.41		78.09	54.33	4.8	•	8.7	_		0.00	0.00		0.00	t Sect	Vert	
447220.39	447170.00	447163.13	447128.38	44/093.64	44/050.69	447024.14	446989.39	446954.65	446919.90	~	446850.40	446822.94	446822.61	446816.28	0	446807.02	446804.12	446802.38	446801.80	446801.80	446801.80	446801.80	446801.80	Easting	GRIDC	
527358.71	527541.00	527565.85	527691.54	52/81/.23	21942.9	528068.62	528194.31	•	528445.70	528571.39	528697.08	528796.45	528797.63	528820.54	28839.3	528854.00	28864.4	528870.80	528872.90	528872.90	528872.90	528872.90	528872.90	Northing	0 0 R D S	
/e/minus	1000	1 110																								

All data in feet unless otherwise stated. Bottom hole distance is 1570.98 on azimuth 164.55 degrees from wellhead Vertical section is from N 0.00 E 0.00 on azimuth 164.55 degrees. Coordinates from slot #1 and TVD from rotary table. Grid is mercator - New Mexico East (3001). Calculation uses minimum curvature method.

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

Presented by Baker Hughes INTEQ

Marathon Oil Company

INDIAN BASIN, Eddy County New Mexico Indian Hills Unit #53, slot #1

> PROPOSAL LISTING Your ref : P0 2DJ SM/JF Page 2

Last revised : 27-May-2003

Comments in wellpath

7598.84 7419.00 1331.908 368.20E TOP OF UPPER PENN

₹

GVI

Rectangular Coords.

Comment

Targets associated with this wellpath

Target name Geographic Location T.V.D. Rectangular Coordinates Revised

447170.000,527541.000,0.00000 7419.00

TOP OF UPPER PENN

1331.908

368.20E 27-May-2003

Form 3160-5 (August 1999)

TYPE OF SUBMISSION

Notice of Intent

UNITED STATES

TYPE OF ACTION

Production (Start/Resume)

FORM APPROVED

Water Shut-Off

_ N.M. DIV-DIST. 2	OMB NO. 1004-0135
ישעם חתמיבו עו דווגיד	Expires: November 30, 2000
ON WELLS	NM-030482
r to re-enter an	6. If Indian, Allottee or Tribe Name
r such proposals 78910112	
s on reverse side	7. If Unit or CA/Agreement, Name and/or No.
\.'\	INDIAN HILLS UNIT
(1 OCT 2003	0 3/2 8 3/2
□ = cociVED →	8. Well Name and No. INDIAN HILLS UNIT 53
P OCD ARTESIA &	LOUIS GOLD GOLD SS
10	9. API Well No.
3b. Phone No. (include area code)	30-015-32875
1-800-351-1417-12	10. Field and Pool, or Exploratory Area
0000	INDIAN BASIN U. P. Assoc.
	11. County or Parish, State
	EDDX NW
DICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
1 1 1	Artesia, NM 8821 ON WELLS To re-enter an r such proposals S on reverse side A RECEIVED COLO - ARTESIA 3b. Phone (A (include area code) 1-800-351-1417

Alter Casing Fracture Treat Reclamation Well Integrity X Subsequent Report Casing Repair New Construction Recomplete Other Change Plans Plug and Abandon Temporarily Abandon Final Abandonment Notice Convert to Injection Plug Back Water Disposal Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once

testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has

Deepen

Acidize

determined that the final site is ready for final inspection.) Please see attached well summary report.

> ACCEPTED FOR RECORD OCT - 6 2003 LES BABYAK PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct Name (Printed Typed) Mike Mick	Title Eng. Tech	
	Date 10-02-03	
THIS SPACE FOR FEDER	AL OR STATE OFFICE USE	
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warran ertify that the applicant holds legal or equitable title to those rights in the subject which would entitle the applicant to conduct operations thereon.	int or Office lease	

fitle 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

1,195.0 CLAMPED	1,195.0	45.0	90.0	=			GEMCO		CENTRALIZER
How Fixed	mervali e 1774	Top (n) Inter	Specing (ii)	Number 1		Manufacturer		CORSSOIV	,
			orles The	ntagrali Casing Accessories	Non-integral				
8.921	NEW			47.17	26 1,162.950	8.765 8 ROUND	36.0 K-55	9.625	CASING JOINT(S)
8.921				46.07	1.100	8.765 8 ROUND	36.0 K-55		CASING FLOAT COLLA
8.921	VEW Y			1.10	1 44.970	8.765 8 ROUND	36.0 X-55	OE 9.625	CASING FLOAT SHOE
m) comp vame	ID (MBX QU) M	Michigan	n) Manuacu	(1). (1). (1). (1). (1). (1). (1). (1).	u s Lengun	(H)) (Inpage	Weight Grade	(i)	lem.
				ntegral Casing Detail		- V - V	433.		
Control of the Contro								1,210.120 (ft)	Actual TMD Set:
) / (psi)	BTM Hub/Flange 9.625 (in) / (psi)	BTN			/lodel:	Packoff Model:		11" × 9 5/8"	Hanger Model:
n) / 3,000 (psi)	Top Hub/Flange: 11.000 (in) / 3,000 (psi)	Тор			FMC C-22	Model:	•	WOOD GROUP	Manufacturer: \
				Casing Flange / Wellhead	Casing Fi				
(days)	Days From Spud:			KB to Cutoff:	(bbi)	Mud Lost:	Mu	(Fr)	Circ Hours:
0.40 (°)	Max Hole Angle:		p: (ft)	Liner Overlap:	€	CF Elevation:	C _F	3,702.00 (ft)	Ground Level:
(lb)	ilips:	Str \		Water TMD:	0.00 (ft)		KB :	1,210.0 (#)	Hole TVD:
3100/#\	Hole TMD:	Hole		Hole Size:	KELLY BLISHING	Permanent Datum: k	Per	ACE CASING	String Type: SURFACE CASING
				General Information	Genera				
) 	End:	End:	8/7/2003	Start:		G 20. 50	ORIGINAL DRILLING		Event Name:
)) 	Spud Date: 8/14/2003	Sp	•	D 2 2 4		NO. 53	INDIAN HILLS UNIT NO. 53	9	Legal Well Name:
	4. 3.1 6.			<u>Ērzinīgi veiriogii</u> Gasi <mark>nīg vei</mark> ņu v	115 2 .) (01118/19)/				
		The second secon							

Marathon Oil Company Cementing Report INDIAN HILLS UNIT NO. 53 Legal Well Name: Spud Date: Report Date: 8/15/2003 **INDIAN HILLS UNIT NO. 53** Common Well Name: Report #: Event Name: ORIGINAL DRILLING Start: 8/7/2003 End: Cement Job Type: Primary Hole Size: Hole Size: Hole Size:

Hole Size: 12.250 (in) SQ TMD: (ft) TMD Set: TMD Set: 1,210.0 (ft) Top Set: (ft) Date Set: 8/15/2003 SQ Date: Date Set: BTM set: **(ft)** Csg Type: SURFACE CASING SQ Type: Csg Type: Plug Date: SQ TMD: Plug Type: Csg Size: 9.625 (in) SQ Date: **Drilled Out:** Cmtd. Csg: Cmtd. Csg: Cmtd. Csg: Cmtd. Csg: OPEN HOLE

Cement Co: HALLIBURTON Cementer: Pipe Movement: NO MOVEMENT

Pipe Movement

RPM: Rot Time Start: : Time End: : Init Torque: (ft-lbf) Avg Torque: (ft-lbf) Max Torque: (ft-lbf) Time End: : SPM: Rec Time Start: : Stroke Lenath: (ft) Drag Up: Drag Down: (lb)

Stage Novi o

PRIM CMT 1ST STAGE Start Mix Cmt: 18:30 Disp Avg Rate: 4.00 (bbl/min) Returns: 100% returns Volume Excess %: 100.00 Start Slurry Displ: : Disp Max Rate: 6.00 (bbl/min) Total Mud Lost: (bbl) Meas. From: KB Start Displ: Bump Plug: Cmt Vol to Surf: 120.00 (bbl) Time Circ Prior End Pumping: Press Prior: 600 (psi) To Cementing: 1.00 End Pump Date: Press Bumped: 900 (psi) Ann Flow After:

Mud Circ Rate: 250 (gpm) Top Plug: Press Held: 5 (min) Mixing Method: Mud Circ Press: 300 (psi) Bottom Plug: Float Held: Density Meas By:

Mud Data

PV/YP: (cp)/ (lb/100ft²) Gels 10 sec: (lb/100ft²) Gels 10 min: (lb/100ft²) Type: AIR/GAS Density: (ppg) Visc: (s/qt) Bottom Hole Circulating Temperature:76 (°F) Bottom Hole Static Temperature: (°F)

Displacement Fluid Type:FRESH WATER Density: 8.4 (ppg) Volume: 138.00 (bbl)

Stage No: 4 Slurry No: 1 of 4

Slurry Data Fluid Type: LEAD

Description: FOAM Class: CLASS C Purpose: FILLER CEM Slurry Interval: (ft) To: 837.00 (ft) Cmt Vol: 650 (sk) Density: 14.8 (ppg) Yield: 1.34 (ft³/sk) Mix Water: 6.36 (gal/sk) Foam Job: Y

Water Source: Frac-tanks Slurry Vol:10.0 (bbl) Water Vol: 120.0 (bbl) Other Vol: ()

Test Data Time Temp Pressure Thickening Time: 3.00 Temperature: (°F) Compressive Strength 1: 12.00 (°F) 600 (psi) Free Water: Temperature: (°F) Compressive Strength 2: 24.00 (°F) 1,950 (psi)

Fluid Loss: 800.0 (cc) Temperature: (°F)

Fluid Loss Pressure: (°F) 8/14/2003

Marathon Oil Company Cementing Report Legal Well Name: INDIAN HILLS UNIT NO. 53 Spud Date: 8/14/2003 **INDIAN HILLS UNIT NO. 53** Report Date: 8/15/2003 Common Well Name: Report #: 8/7/2003 **ORIGINAL DRILLING** Start: End: **Event Name:** Stage No: 1 Slurry No: 1 of 4 - Additive % BWOC 1.5% ZoneSeal 1.50 2.00 % BWOC CALC2 ACCELERATOR Stage No. 4 Siurry No. 2 of Slurry Data Class: CLASS C Fluid Type: Description: NEAT Purpose: SHOE INTEG Slurry Interval: (ft) To: (ft) Cmt Vol: 150 (sk) Density: 14.8 (ppg) Yield: 1.34 (ft³/sk) Mix Water: 6.34 (gal/sk) Water Source: Frac tanks Slurry Vol: (bbl) Water Vol: 36.0 (bbl) Other Vol: () Foam Job: N Temp Pressure **Test Data** Time Temperature: (°F) Compressive Strength 1: 12.00 (°F) 1,800 (psi) Thickening Time: Temperature: (°F) Compressive Strength 2: 24.00 (°F) 3,200 (psi) Free Water: Temperature: (°F) Fluid Loss: (cc) Fluid Loss Pressure: Stage Not 1 Slurry Not 2 of **ACCELERATOR** % BWOC CALC2 2.00 10.00 % BWOC Cal-Seal Slurry Data OTHER Class: CLASS C Fluid Type: Description: FOAM Purpose: FILLER CEM Slurry Interval: 200.00 (ft) To: 450.00 (ft) Cmt Vol: 150 (sk) Density: 14.8 (ppg) Yield: 1.35 (ft³/sk) Mix Water: 6.37 (gal/sk) Foam Job: Y Water Source: Slurry Vol: (bbl) Water Vol: (bbl) Other Vol: () **Test Data** Time Temp Pressure Thickening Time: Temperature: (°F) Compressive Strength 1: 12.00 (°F) 600 (psi) Free Water: Temperature: (°F) (%) Compressive Strength 2: 24.00 (°F) 1,200 (psi) Fluid Loss: 800.0 (cc) Temperature: (°F) Fluid Loss Pressure: Stage No. 1 Slurry No. 3 of 4 - Additives Zonesealant 1.50 % BWOC CaCl2 2.00 % BWOC

Marathon Oil Company Cementing Report Legal Well Name: INDIAN HILLS UNIT NO. 53 Spud Date: 8/14/2003 Common Well Name: **INDIAN HILLS UNIT NO. 53** Report Date: 8/15/2003 Report #: 8/7/2003 **Event Name: ORIGINAL DRILLING** Start: End: 345 Turk Stage No: 1 Slurry No: 4 of 4 Slurry Data Class: CLASS C OTHER Description: BENTONITE ACCEL. Purpose: CONDUCTOR Fluid Type: Slurry Interval: (ft) To: (ft) Cmt Vol: 30 (sk) Density: 14.8 (ppg) Yield: 1.32 (ft³/sk) Mix Water: 14.80 (gal/sk Water Source: Slurry Vol: (bbl) Water Vol: (bbl) Other Vol: () Foam Job: Y **Test Data** Temp Pressure Thickening Time: Temperature: (°F) Compressive Strength 1: 12.00 (°F) 1,800 (psi) Free Water: Compressive Strength 2: 24.00 (°F) Temperature: (°F) 3,200 (psi) Fluid Loss: 200.0 (cc) Temperature: (°F) Fluid Loss Pressure: 2.00 CALC2 ACCELERATOR % BWOC Cal-Seal 10.0d % BWOC Shoe Tes Test Press: 2,000 (psi) Pressure: Liner Lap: (ppge) 10 (min) Tool: N Pos Test: (ppge) Tool: N Cement Found between Open Hole: (ft) Neg Test: (ppge) Tool: N Shoe and Collar: Y Hrs Before Test: Hrs Before Test: Cement Found on Tool: N urvey Evaluation nterpretation Summa CBL Run: Cement Top: 100 (ft) Under Pressure: (psi) How Determined: Water Volume/Filled **Bond Quality:** TOC Sufficient: N Cet Run: Job Rating: **Bond Quality:** If Unsuccessful Detection Indicator: Temp Survey: Remedial Cementing Required: Hrs Prior to Log: Number of Remedial Squeezes:

Operations Summary Report

Legal Well Name:

INDIAN HILLS UNIT NO. 53

Common Well Name: INDIAN HILLS UNIT NO. 53

Event Name:

ORIGINAL DRILLING

MCVAY DRILLING

Start:

8/7/2003 Rig Release: 8/30/2003 Spud Date: 8/14/2003

End: Group:

Contractor Name: Rig Name:

MCVAY DRILLING

Rig Number: 4

Ny Ivaille.				DIVILLI	40	ar cours o successions burners	NY INDIA. T
i i ve je se se	Fro	mi To	Figurs	Code	Sub Code	Phase	L Description of Operations
8/13/2003	06:00	- 22:00	16.00	RIG	MIRU	MIRU	Location built by Key Services: Added on to IHU #34
				1	-	1	Drilled & set 40' by 14" conductor pipe,rat & mouse hole.
			ļ	ļ	Į.	l	Cemented conductor to surface. Welded on 13 5/8" flange & N/U 13
			ĺ	l			5/8" 3m Hydril w/ rotating head. MIRU rig & equipment. Weld on flowline
8/15/2003	06:00	- 09:00	3.00	EQUIP	RURD	MIRU	RU/RD Equipment. PU 12 1/4" hammer bit. Safety meeting
	09:00	- 13:30	4.50	DRILL	DOHR	DRLSUR	Spudded 12 1/4" hole @ 0900 hrs. Drill Open Hole Rotary. Air drilled f/
	i						56' V 295'.
	13:30	- 14:45	1.25	EQUIP	REQP	DRLSUR	Survey. Redman shut down Booster to ck oil. Not able to start. Chg out
		ļ		_	}		starter. Down 1 hr.
	1.	- 20:30		DRILL	AIR	DRLSUR	Air Drilling. Water @ 491'. 2 t/3 BPM.
		- 20:45	1	SURV	GYRO	DRLSUR	Survey with GYRO system
		- 02:15		DRILL	AIR	DRLSUR	Aired drilled
	1	- 02:30	•	SURV	GYRO	DRLSUR	Survey with GYRO system
0400000	1	- 06:00	1	DRILL	AIR	DRLSUR	Aired drilled 30 GPH 3200 SCF Drilling 48'/hr.
8/16/2003	1 '	- 09:00	1	DRILL	AIR GYRO	DRLSUR	Air Drilling
	I	0 - 09:15 5 - 13:00		DRILL	AIR	DRLSUR	Survey with GYRO system Air Drilling
		- 13:15		CIRC	CLN	DRLSUR	Circulate Clean
		5 - 13:30		SURV	GYRO	DRLSUR	Survey with GYRO system
	1	- 14:30		TRIP	BIT	DRLSUR	TOOH, LD 1- 8" DC. L/D Hammer.
,	1	- 17:30		CSG	RUN	CSGSUR	Safety meeting. RU. Ran 27 jts of 9 5/8", 36#, K-55 csg. Landed @
			0.00		1		1210'.
	17:30	- 18:30	1.00	CIRC	CLN	CSGSUR	Circulate Clean, Good returns.
		- 20:00		CEMT	PRIM	CSGSUR	Safety meeting. Tst t/ 3000 psi. RU Cmt. Pumped 10,000 SCF of N2,
							20 bbls of gelled water ahead of Cmt w/ 650 sks. of Premuim Plus(
	i				1	ļ	foamed) tailed w/ 150 sks of Premuim Plus w/ 2% CaCl2. Circ 400 sks.
			1	1	1	1	Bullheaded 35 sks of Thix-set down annulus. SI @ 108 psi.
	20:00	- 00:00	4.00	WAIT	CEMT	CSGSUR	Wait on Cement
	00:00	- 03:00	3.00	NUND	UBOP	CSGSUR	Cut of 14" & 9 5/8" csg. Pulled Hydril. Welded on 9 5/8" SOW x 11" 3M
	Ì			· · · · · · · · · · · · · · · · · · ·		1	Casing head. Tested t/ 1500 psi.
	1	- 06:00	ľ	NUND	UBOP	CSGSUR	NU 11" BOP & choke @ 0600 hrs.
8/17/2003	I	- 07:00	l	NUND	UBOP	CSGSUR	Install BOP Equipment
	07:00	12:30	5.50	TEST	BOP	CSGSUR	Tested pipe & blind rams, choke, TIW valves t/ 3000 psi high, 250 psi
							low. Tested Hydril t/ 1500 psi high, 250 psi low. Ran Acc test. Replaced
	42.20	- 15:30	200	TRIP	BBUB	COCCUR	1-" manual choke & 2" choke valve.
	12.30	15.30	3.00	IKIP	BBHD	CSGSUR	PU 8 3/4" bit, Motor, NM DC, Tested Teleco & motor. TIH w/ 6 1/4" DC's & HWDP. Tagged @1152'.
	15:30	- 15:45	0.25			CSGSUR	Test Casing 1500 psi.
		16:30		DRILL	CEMT	CSGSUR	Drill Cement / Drill Shoe
		17:30	i	EQUIP	1	CSGSUR	Weld saddle in flowline. Hook up RPM's (Epoch)
	I	- 18:15	3	DRILL		CSGSUR	Drill Cement / Drill Shoe
	1	- 19:30	1	DRILL	1	DRLPR	Drill Open Hole Rotary t/ KOP.
	1	- 20:30		RIG	1	DRLPR	Repaired Rotary lock.
		22:30	2.00	CHECK		DRLPR	Trouble shoot Panal t/ Teleco.
	22:30	00:30	2.00	TRIP	BHA	DRLPR	Trip for BHA
		05:00	4.50	WAIT	EQIP	DRLPR	Wait on Teleco.
		- 06:00		TRIP	BHA	DRLPR	PU new Teleco. TIH @ 0600 hrs.
8/18/2003		- 06:30		TRIP	BHA	DRLPR	Trip for BHA
'		- 06:45	i I	DRILL	1	DRLPR	Drill Open Slide
		07:15		DRILL		DRLPR	Drill Open Hole Rotary
		07:45		DRILL		DRLPR	Drill Open Slide
		- 08:00 - 08:30		DRILL		DRLPR	Drill Open Hole Rotary
	00.00	- 06:30	0.50	DRILL	DOUG.	DRLPR	Drill Open Slide
]				1	Ì	

Start:

Legal Well Name: INDIAN HILLS UNIT NO. 53
Common Well Name: INDIAN HILLS UNIT NO. 53

Event Name:

ORIGINAL DRILLING

8/7/2003

Spud Date: 8/14/2003

End: Group:

Contractor Name:

MCVAY DRILLING

Rig Release: 8/30/2003

Commedicion						Tig Toleado. 0/00/2000 Croup.
Rig Name:		MCVAY	DRILLIN	٧G		Rig Number: 4
				180k	1892-17-27-33	
, ≀Date	From FTo	Hours	Code	Code	Phase	Description of Operations (1988) 14 (46)
23. 30 S D S D S S D S S D S S D S S D S S D S S D S S D S S D S S D S S D S S D S S D S S D S S D S S D S S D	Dec 18 Company		22 3 2 200			
8/18/2003	08:30 - 09:00	0.50	DRILL		DRLPR	Drill Open Hole Rotary
!	09:00 - 09:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	09:15 - 09:30	0.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	09:30 - 09:45	0.25	EQUIP	RSEQ	DRLPR	Chg out flowline valve.
	09:45 - 10:30	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	10:30 - 10:45		DRILL		DRLPR	Drill Open Slide
	10:45 - 12:00	1	DRILL		DRLPR	Drill Open Hole Rotary
	12:00 - 12:15		DRILL		DRLPR	Drill Open Silde
1	12:15 - 12:45		DRILL		DRLPR	Drill Open Hole Rotary
	12:45 - 13:15		DRILL		DRLPR	Drill Open Slide
	13:15 - 13:45		DRILL	,	DRLPR	Drill Open Hole Rotary
	13:45 - 14:00		DRILL		DRLPR	Drill Open Slide
'	14:00 - 14:30	1	DRILL		DRLPR	Drill Open Hole Rotary
	14:30 - 14:45		DRILL	1	DRLPR	Drill Open Slide
	14:45 - 15:15	i	DRILL	1	DRLPR	Drill Open Hole Rotary
	15:15 - 15:45		DRILL	DOHS	DRLPR	Drill Open Slide
	15:45 - 16:15		DRILL	1	DRLPR	Drill Open Hole Rotary
	16:15 - 16:30	ł	DRILL	DOHS	DRLPR	Drill Open Slide
	16:30 - 17:00	t	DRILL	1	DRLPR	Drill Open Hole Rotary
	17:00 - 17:30		DRILL	DOHS	DRLPR	Drill Open Slide
	17:30 - 18:00	1	DRILL		DRLPR	Drill Open Hole Rotary
•	18:00 - 18:30	1	DRILL		DRLPR	Drill Open Side
i	18:30 - 19:00		DRILL		DRLPR	Drill Open Hole Rotary
	19:00 - 19:30		DRILL	5		Drill Open Side
	19:30 - 20:00		DRILL	1	_	Drill Open Hole Rotary
	20:00 - 20:15 20:15 - 20:45		DRILL		DRLPR	Drill Open Silde
	20:45 - 21:00	I .	DRILL		DRLPR	Drill Open Hole Rotary Drill Open Slide
	21:00 - 23:15		DRILL		DRLPR	Drill Open Hole Rotary
	23:15 - 23:30		SURV	MWD	DRLPR	Survey with MWD Tools
	23:30 - 00:45		DRILL	1	DRLPR	Drill Open Hole Rotary
	00:45 - 01:00	1	SURV	MWD	DRLPR	Survey with MWD Tools
	01:00 - 02:00		DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	02:00 - 02:15		SURV	MWD	DRLPR	Survey with MWD Tools
	02:15 - 02:30		DRILL	DOHS	DRLPR	Drill Open Slide
	02:30 - 03:45		DRILL	t	DRLPR	Drill Open Hole Rotary
	03:45 - 04:00	ł .	SURV	MWD	DRLPR	Survey with MWD Tools
	04:00 - 04:15	L	DRILL	DOHS	DRLPR	Drill Open Slide
	04:15 - 06:00		DRILL	1	DRLPR	Drill Open Hole Rotary
8/19/2003	06:00 - 07:00	1	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:00 - 07:15		SURV	MWD	DRLPR	Survey with MWD Tools
	07:15 - 07:30		DRILL	DOHS	DRLPR	Drill Open Slide
	07:30 - 10:00		DRILL	1	DRLPR	Drill Open Hole Rotary
	10:00 - 10:15		SURV	MWD	DRLPR	Survey with MWD Tools
	10:15 - 10:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide
	10:30 - 11:45	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
ı	11:45 - 12:00		SURV	MWD	DRLPR	Survey with MWD Tools
	12:00 - 12:15		DRILL	DOHS	DRLPR	Drill Open Slide
	12:15 - 16:15		DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	16:15 - 16:30		SURV	MWD	DRLPR	Survey with MWD Tools
	16:30 - 16:45		DRILL	DOHS	DRLPR	Drill Open Slide
	16:45 - 18:30		DRILL		DRLPR	Drill Open Hole Rotary
	18:30 - 18:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
			,			

Operations Summary Report

Legal Well Name:

INDIAN HILLS UNIT NO. 53

Common Well Name: INDIAN HILLS UNIT NO. 53

Event Name: Contractor Name: ORIGINAL DRILLING MCVAY DRILLING

Start:

8/7/2003

Spud Date: 8/14/2003

End: Group:

Rig Name:

MCVAY DRILLING

Rig Number: 4

Rig Release: 8/30/2003

Sub Code Description of Operations nom - To Hourst Code Phase 0.25 DRILL DOHS DRLPR **Drill Open Slide** 8/19/2003 18:45 - 19:00 19:00 - 20:45 1.75 DRILL DOHR DRLPR **Drill Open Hole Rotary** 0.25 SURV DRLPR Survey with MWD Tools 20:45 - 21:00 MWD 21:00 - 21:15 0.25 DRILL DOHS DRLPR Drill Open Slide 21:15 - 23:00 1.75 DRILL DOHR DRLPR **Drill Open Hole Rotary** 23:00 - 23:15 0.25 SURV MWD DRLPR Survey with MWD Tools 23:15 - 01:30 2.25 DRILL DOHR DRLPR Drill Open Hole Rotary 01:30 - 01:45 0.25 SURV MWD DRLPR Survey with MWD Tools 01:45 - 02:15 0.50 DRILL DOHS DRLPR **Drill Open Slide** 2.00 DRILL DOHR DRLPR 02:15 - 04:15 **Drill Open Hole Rotary** 04:15 - 04:30 0.25 SURV MWD DRLPR Survey with MWD Tools 04:30 - 06:00 1.50 DRILL DOHR DRLPR **Drill Open Hole Rotary** 8/20/2003 06:00 - 07:00 1.00 DRILL DOHR DRLPR **Drill Open Hole Rotary** 0.25 SURV 07:00 - 07:15 MWD DRLPR Survey with MWD Tools 07:15 - 07:45 0.50 DRILL DOHS DRLPR **Drill Open Slide** 07:45 - 09:45 2.00 DRILL DOHR DRLPR **Drill Open Hole Rotary** 09:45 - 10:00 0.25 SURV MWD DRLPR Survey with MWD Tools 10:00 - 10:30 0.50 DRILL DOHS DRLPR **Drill Open Slide** 10:30 - 12:45 2.25 DRILL DOHR DRLPR **Drill Open Hole Rotary** SURV MWD 12:45 - 13:00 0.25 DRLPR Survey with MWD Tools 13:00 - 16:00 DOHR 3.00 DRILL DRLPR **Drill Open Hole Rotary** 16:00 - 16:15 0.25 SURV MWD DRLPR Survey with MWD Tools DOHR DRLPR 16:15 - 18:45 2.50 DRILL **Drill Open Hole Rotary** 18:45 - 19:00 0.25 SURV MWD DRLPR Survey with MWD Tools DOHS 0.50 DRILL DRLPR 19:00 - 19:30 **Drill Open Slide** 19:30 - 21:45 2.25 DRILL DOHR DRLPR **Drill Open Hole Rotary** 21:45 - 22:00 0.25 SURV MWD DRLPR Survey with MWD Tools 22:00 - 22:30 0.50 DRILL DOHS DRLPR **Drill Open Slide** 22:30 - 01:00 2.50 DRILL DOHR DRLPR **Drill Open Hole Rotary** 01:00 - 01:15 0.25 SURV MWD DRLPR Survey with MWD Tools DOHS DRLPR 01:15 - 02:30 1.25 DRILL Drill Open Slide 02:30 - 04:45 2.25 DRILL DOHR DRLPR **Drill Open Hole Rotary** 04:45 - 05:00 0.25 SURV MWD DRLPR Survey with MWD Tools 05:00 - 06:00 1.00 DRILL DOHR DRLPR **Drill Open Hole Rotary** 8/21/2003 06:00 - 08:00 2.00 DRILL DOHR DRLPR **Drill Open Hole Rotary** 08:00 - 08:15 0.25 SURV MWD DRLPR Survey with MWD Tools DRLPR 08:15 - 10:30 2.25 **DRILL** DOHR **Drill Open Hole Rotary** 10:30 - 10:45 0.25 SURV MWD DRLPR Survey with MWD Tools 10:45 - 13:15 2.50 DRILL DOHR DRLPR **Drill Open Hole Rotary** 13:15 - 13:30 0.25 SURV MWD DRLPR Survey with MWD Tools 13:30 - 16:00 2.50 DRILL DOHR DRLPR **Drill Open Hole Rotary** 16:00 - 16:15 0.25 SURV MWD DRLPR Survey with MWD Tools 16:15 - 16:45 0.50 DRILL DOHS DRLPR Drill Open Slide w/ 180 T/F 16:45 - 19:15 2.50 DRILL DOHR DRLPR **Drill Open Hole Rotary** 19:15 - 19:30 0.25 SURV DRLPR MWD Survey with MWD Tools 19:30 - 23:15 3.75 DRILL DOHR DRLPR Drill Open Hole Rotary . Switched to pump #1, 4319' to 4395'. Lower out put & pressure. Cut back on wt. P-rate slowed down to 25' Per hour. 23:15 - 23:30 0.25 SURV MWD DRLPR Survey with MWD Tools 23:30 - 02:00 2.50 DRILL DOHR DRLPR **Drill Open Hole Rotary** 02:00 - 02:15 SURV MWD 0.25 DRLPR Survey with MWD Tools 02:15 - 05:00 2.75 DRILL DOHR DRLPR Drill Open Hole Rotary 05:00 - 05:15 0.25 SURV MWD DRLPR Survey with MWD Tools 05:15 - 06:00 0.75 DRILL DOHR DRLPR **Drill Open Hole Rotary**

Operations Summary Report

Legal Well Name:

INDIAN HILLS UNIT NO. 53

Common Well Name: INDIAN HILLS UNIT NO. 53

Spud Date: 8/14/2003

Event Name:

ORIGINAL DRILLING

8/7/2003

End:

Contractor Name:

MCVAY DRILLING

Start: Rig Release: 8/30/2003

Group:

Rig Name:

MCVAY DRILLING

Rig Number: 4

* Date	From - To	Hours	Code	Sub Code	Phase	Li Description of Operations
8/22/2003	06:00 - 08:00		DRILL	100 200 100 100 100 100	DRLPR	Drill Open Hole Rotary
0/22/2003	i .	1	SURV	MWD	DRLPR	Survey with MWD Tools
	08:00 - 08:15		DRILL	DOHS	DRLPR	Drill Open Slide . 160R . Switched to pump #1.
	08:15 - 08:45	1	DRILL		DRLPR	Drill Open Hole Rotary.Still on pump #1.Replace swabs on pump #2.
	08:45 - 11:45	3.00	DRILL	DUNK	DRLPR	P-rate slowed down due to less wt on bit & less gpm on motor.
j	44.45 40.00	0.05	CHEV	A MAZO	DRLPR	,
}	11:45 - 12:00	1	SURV	MWD	DRLPR	Survey with MWD Tools Drill Open Hole Betsey Switched back to sump #2
<u> </u>	12:00 - 15:00	1	DRILL		DRLPR	Drill Open Hole Rotary, Switched back to pump #2.
1	15:00 - 15:15	1	DRILL	MWD	DRLPR	Survey with MWD Tools Drill Open Hole Rotary
	15:15 - 17:15 17:15 - 17:30		SURV	MWD	DRLPR	Survey with MWD Tools
	1		L	DOHR	DRLPR	Drill Open Hole Rotary
	17:30 - 20:30 20:30 - 20:45		DRILL	MWD	DRLPR	Survey with MWD Tools
	20:45 - 21:45		DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	21:45 - 00:30		TRIP	BIT	DRLPR	POOH w/ Bit #2.Bearing were going out on motor.Button's on bit
	21.40 - 00.50	2.75	ITALE		DILLIN	started breaking of on gauge roll on all three comb's. Flat crested wear on bit.
	00:30 - 01:30	1.00	TRIP	BBHD	DRLPR	BHA/Bit Handling. Changed out motor bearing was going out & replace
	04.00 05.00	4.00	TOID	DIT	DDI DD	bit. Check motor & MWD O.K Installed bit #3.
	01:30 - 05:30	1	TRIP	BIT	DRLPR	TiH w/ Bit #3 . Picked up kelly & wash 40' to btm. No fill. Drill Open Hole Rotary
0 00 0000	05:30 - 06:00	1	DRILL	DOHR	I	Drill Open Hole Rotary
8/23/2003	06:00 - 08:00 08:00 - 08:15	1	SURV	DOHR	DRLPR	Survey with MWD Tools
	08:15 - 08:30		DRILL	DOHS	DRLPR	Drill Open Slide. 110 R
	08:30 - 10:45		DRILL		DRLPR	Drill Open Hole Rotary
1	10:45 - 11:00		SURV	MWD	DRLPR	Survey with MWD Tools
1	11:00 - 11:15	1	DRILL		DRLPR	Drill Open Slide. 75R
İ	11:15 - 11:45		DRILL		DRLPR	Drill Open Hole Rotary
	11:45 - 12:15		RIG	RCNT	DRLPR	Rig Repair, Contractor owned. Worked on over riding clutch.
	12:15 - 13:45		DRILL	1	DRLPR	Drill Open Hole Rotary
	13:45 - 14:00		SURV	MWD	DRLPR	Survey with MWD Tools
	14:00 - 14:15	1	DRILL	1	DRLPR	Drill Open Slide.H/S
	14:15 - 15:00	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	15:00 - 15:15	0.25	DRILL	DOHS	DRLPR	Drill Open Slide. 15R
	15:15 - 16:15	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	16:15 - 16:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	16:30 - 17:00	0.50	DRILL	DOHS	DRLPR	Drill Open Slide.H/S
	17:00 - 18:00	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
1	18:00 - 18:15		SURV	MWD	DRLPR	Survey with MWD Tools
Į.	18:15 - 18:45		DRILL	DOHS	DRLPR	Drill Open Slide.
I	18:45 - 19:45		DRILL	DOHR	I .	Drill Open Hole Rotary
l	19:45 - 20:00	i	SURV	MWD	DRLPR	Survey with MWD Tools
ŀ	20:00 - 20:30	4	DRILL	1	DRLPR	Drill Open Slide
	20:30 - 21:30		DRILL		DRLPR	Drill Open Hole Rotary
	21:30 - 21:45		SURV	MWD	DRLPR	Survey with MWD Tools
ŀ	21:45 - 22:30		DRILL		DRLPR	Drill Open Slide
J	22:30 - 23:30 23:30 - 23:45		DRILL	1	DRLPR	Drill Open Hole Rotary
	23:45 - 00:30		DRILL	MWD	DRLPR	Survey with MWD Tools
1	00:30 - 01:45		DRILL		DRLPR DRLPR	Drill Open Slide
l	01:45 - 02:00		SURV	MWD	DRLPR	Survey with MWD Tools
	02:00 - 02:45		DRILL		DRLPR	Drill Open Slide
Î	02:45 - 03:45		DRILL	1	DRLPR	Drill Open Hole Rotary
1	03:45 - 04:00		SURV	MWD	DRLPR	Survey with MWD Tools
						•

Operations Summary Report

Start:

Legal Well Name:

INDIAN HILLS UNIT NO. 53 Common Well Name: INDIAN HILLS UNIT NO. 53

Event Name: Contractor Name: **ORIGINAL DRILLING MCVAY DRILLING**

Spud Date: 8/14/2003

End: Group:

8/7/2003 Rig Release: 8/30/2003 Rig Number: 4

Contractor			DKILLIN			Rig Release: 0/30/2003 Group:
Rig Name:	Į	MCVAY	DRILLIN	1G		Rig Number: 4
2394 (400-2400-240-240-240-240-240-240-240-240	POSC TO BE STORY			Ke in	Kerker Billia	
Date	From - To	Hours	Code	Sub	Phase	Description of Operations (
	e are e	4.5	\$10.00 K	Code		
8/23/2003	04:00 - 04:45	0.75	DRILL	DOHS	DRLPR	Drill Open Slide
0/23/2003	l	1	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
0 0 4 0 0 0 0	04:45 - 06:00				DRLPR	1
8/24/2003	06:00 - 07:00		DRILL		1	Drill Open Slide, 15L
	07:00 - 08:15		DRILL	DOHR	DRLPR	Drill Open Hole Rotary
1	08:15 - 08:30		SURV	MWD	DRLPR	Survey with MWD Tools
	08:30 - 09:00	1 .	DRILL	DOHS	DRLPR	Drill Open Slide. 30L
<u> </u>	09:00 - 10:15		DRILL	DOHR	DRLPR	Drill Open Hole Rotary
1	10:15 - 10:30		SURV	MWD	DRLPR	Survey with MWD Tools
	10:30 - 11:00	1	DRILL	DOHS	DRLPR	Drill Open Slide. 30L
ŀ	11:00 - 12:15	1	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
ł	12:15 - 12:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	12:30 - 13:00	0.50	DRILL	DOHS	DRLPR	Drill Open Silde. 30L
ļ	13:00 - 14:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	14:15 - 14:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	14:30 - 15:15	0.75	DRILL	DOHS	DRLPR	Drill Open Slide. 20L
	15:15 - 15:45		DRILL	DOHR	DRLPR	Drill Open Hole Rotary
1	15:45 - 16:15		DRILL		DRLPR	Drill Open Slide. 20L
	16:15 - 16:45	l .	DRILL		DRLPR	Drill Open Hole Rotary
	16:45 - 17:00		SURV	MWD	DRLPR	Survey with MWD Tools
	17:00 - 17:45	L .	DRILL	1	DRLPR	Drill Open Slide. 25L
	17:45 - 18:15	E .	DRILL		DRLPR	Drill Open Hole Rotary
<u> </u>	18:15 - 19:00	i .	DRILL		DRLPR	Drill Open Slide
	19:00 - 19:45	L .	DRILL		DRLPR	Drill Open Hole Rotary
l	1		RIG	RCNT	DRLPR	Rig Repair, Contractor owned.Replaced overriding clutch plate.
	19:45 - 20:45		SURV	MWD	DRLPR	Survey with MWD Tools
	20:45 - 21:00	l .		i .		, •
l	21:00 - 21:30	1	DRILL	DOHS	DRLPR	Drill Open Slide
İ	21:30 - 22:45	l .	DRILL		DRLPR	Drill Open Hole Rotary
	22:45 - 23:00	1	SURV	MWD	DRLPR	Survey with MWD Tools
	23:00 - 00:00		DRILL		DRLPR	Drill Open Slide
1	00:00 - 01:15	ı ·	DRILL		DRLPR	Drill Open Hole Rotary
	01:15 - 01:30		SURV	MWD	DRLPR	Survey with MWD Tools
1	01:30 - 02:15	1	DRILL		DRLPR	Drill Open Slide
	02:15 - 03:45	ı	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
ľ	03:45 - 04:00		SURV	MWD	DRLPR	Survey with MWD Tools
	04:00 - 04:30	1	DRILL	DOHS	DRLPR	Drill Open Slide
j	04:30 - 06:00	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
8/25/2003	06:00 - 06:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
1	06:15 - 06:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide. 45L
1	06:30 - 08:00		DRILL	DOHR	DRLPR	Drill Open Hole Rotary
}	08:00 - 08:15	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
Ì	08:15 - 08:30	0.25	DRILL	DOHS	DRLPR	Drill Open Slide. 110L
	08:30 - 11:00	2.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	11:00 - 11:15		SURV	MWD	DRLPR	Survey with MWD Tools
1	11:15 - 13:30		DRILL		DRLPR	Drill Open Hole Rotary
l '	13:30 - 13:45		SURV	MWD	DRLPR	Survey with MWD Tools
1	13:45 - 14:00	1	NUND	URTH	DRLPR	Install Rotating Head
	14:00 - 14:30		DRILL		DRLPR	Drill Open Slide, 175R
1	14:30 - 16:15		DRILL		DRLPR	Drill Open Hole Rotary
	16:15 - 16:30		SURV		DRLPR	Survey with MWD Tools
	16:30 - 17:00		DRILL		DRLPR	Drill Open Slide, 165R
	17:00 - 18:45		DRILL		DRLPR	Drill Open Hole Rotary
	18:45 - 19:00		SURV		DRLPR	Survey with MWD Tools
	19:00 - 19:30		DRILL	DOHS	DRLPR	Drill Open Slide.
1	'	5.50				
L	l					
-		· · · · · · · · · · · · · · · · · · ·				Printed: 9/29/2003 8:23:28 AM

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 53 Common Well Name: INDIAN HILLS UNIT NO. 53

Spud Date: 8/14/2003

Event Name:

ORIGINAL DRILLING

8/7/2003

End:

Contractor Name:

MCVAY DRILLING

Start: Rig Release: 8/30/2003

Group:

Rig Name:

MCVAY DRILLING

Rig Number: 4

Trug I vario.	T Supplemental Company of the Compan	to opposite the	service and the service and	THE CONTRACTOR AND A	EMERGENOR SON STREET, N. D. W. STON ST. CO.	
Date	From To	Hours	Code	Sub	Phase	Description of Operations
				Code	Phase.	
8/25/2003	19:30 - 21:00	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
0/20/2005	21:00 - 21:15	1	SURV	MWD	DRLPR	Survey with MWD Tools
	21:15 - 23:15	1	DRILL		DRLPR	Drill Open Hole Rotary
ŀ	23:15 - 23:30	1	SURV	MWD	DRLPR	Survey with MWD Tools
	23:30 - 00:30	1	DRILL	DOHS	1	Drill Open Slide, 25R
!	00:30 - 02:15	1	DRILL		DRLPR	Drill Open Hole Rotary
}	02:15 - 02:30	1	SURV	MWD	DRLPR	Survey with MWD Tools
•	02:30 - 03:45	1	DRILL	DOHS	DRLPR	Drill Open Slide. HS
ì	03:45 - 06:00	1	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Switched to pump #1 @ depth 7145' to 7170'.
				l ·	i	Swab on motor side went out. Switched back to #2 @ 7170'.
8/26/2003	06:00 - 06:45	0.75	DRILL	DOHS	DRLPR	Drill Open Slide. 30L
	06:45 - 07:15	0.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Pumped 10 bbl sweeps w/ magnifiber & gel to
	1			ŀ		clean hole.
	07:15 - 07:45	0.50	DRILL	DOHS	DRLPR	Drill Open Slide. 15L
	07:45 - 08:30	0.75	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	08:30 - 08:45	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
	08:45 - 09:15	0.50	DRILL	DOHS	DRLPR	Drill Open Slide. 30L
	09:15 - 10:45	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Pump 10-15 bbl sweeps w/ magnifiber & gel to
			Ì			clean hole.
	10:45 - 11:00	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
1	11:00 - 11:30	0.50	DRILL		DRLPR	Drill Open Slide. 45L
İ	11:30 - 13:00	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
1	13:00 - 13:15		SURV	MWD	DRLPR	Survey with MWD Tools
i	13:15 - 13:45	1	DRILL		DRLPR	Drill Open Slide. 25L
:	13:45 - 15:15	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Pump 10-15 bbl sweeps w/ magnifiber & gel to
					ļ	clean hole.
Į	15:15 - 15:30	i	SURV	MWD	DRLPR	Survey with MWD Tools
	15:30 - 17:30		DRILL		DRLPR	Drill Open Hole Rotary
	17:30 - 17:45	1	SURV	MWD	DRLPR	Survey with MWD Tools
1	17:45 - 18:00		DRILL		DRLPR	Drill Open Slide. 120L
	18:00 - 19:30		DRILL		DRLPR	Drill Open Hole Rotary. Pumped
	19:30 - 19:45		SURV	MWD	DRLPR	Survey with MWD Tools
	19:45 - 20:15	1	DRILL	DOHS	DRLPR	Drill Open Slide. 120L
	20:15 - 21:45	1.50	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Pump 10-15 bbl sweeps w/ magnifiber & gel to
			0.15.1			clean hole .
	21:45 - 22:00	1	SURV	MWD	DRLPR	Survey with MWD Tools
	22:00 - 23:15	1.25	DRILL	DOHR	DRLPR	Drill Open Hole Rotary. Started losing returns.Pit check. 18-20
			i			BPH.Stared pumping 25 bbl sweeps w/ magnifiber to clean hole & help
	00.45 00.00	0.05	CLIDY	1 414/5	00100	W/ lost returns.
1	23:15 - 23:30	1	SURV	MWD	DRLPR	Survey with MWD Tools
1	23:30 - 00:00		DRILL	1	DRLPR	Drill Open Slide. 120L
	00:00 - 01:00	1	DRILL		DRLPR	Drill Open Hole Rotary
1	01:00 - 01:15 01:15 - 01:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
1	01:15 - 01:30		DRILL		DRLPR DRLPR	Drill Open Side. 140L
{	02:30 - 02:45		SURV	MWD	DRLPR	Drill Open Hole Rotary Survey with MWD Tools
i	02:45 - 04:15	i	DRILL	2	DRLPR	Drill Open Hole Rotary. Pump 25 bbl sweep w/ magnifiber w/ gel to
i	02.70 - 07.10	"	SINICE	John	DINLER	sweep hole & help w/ lost returns.
1	04:15 - 04:30	0.25	SURV	MWD	DRLPR	Survey with MWD Tools
J	04:30 - 05:00	i	DRILL		DRLPR	Drill Open Slide, 140L
1	05:00 - 06:00		DRILL		DRLPR	Drill Open Hole Rotary. Losing up to 30-35 bph.
8/27/2003	06:00 - 06:15		SURV	MWD	DRLPR	Survey with MWD Tools
	06:15 - 06:30		DRILL		DRLPR	Drill Open Slide. 160L
}	<u> </u>			1	l	
		•			1	

Operations Summary Reports

Start:

Legal Well Name:

INDIAN HILLS UNIT NO. 53

Common Well Name: INDIAN HILLS UNIT NO. 53

Event Name: Contractor Name: ORIGINAL DRILLING

MCVAY DRILLING

Rig Release: 8/30/2003

Spud Date: 8/14/2003

End:

8/7/2003

Group:

Contractor			DIVILLI			Tig Noicasc. 0/00/2000 Cloup.
Rig Name:		MCVAY	DRILLIN	١G		Rig Number: 4
				Sub,		
A Date of	From- To	Hours	Code	Code	Phase	Description of Operations
	74 12 St 11 2 Se	7840 8	CIE SUCK	Code		
8/27/2003	06:30 - 07:30	1.00	DRILL	DOHR	DRLPR	Drill Open Hole Rotary
	07:30 - 07:45		SURV	MWD	DRLPR	Survey with MWD Tools
	07:45 - 09:00		DRILL		DRLPR	Drill Open Hole Rotary
	09:00 - 09:15		SURV	MWD	DRLPR	Survey with MWD Tools
1 .	1		DRILL		DRLPR	Drill Open Slide. 150L
	09:15 - 09:45				i .	
	09:45 - 11:00		DRILL			Drill Open Hole Rotary. Started mudding up @ 8120'.
	11:00 - 11:15		SURV	MWD	DRLPR	Survey with MWD Tools
	11:15 - 13:00		DRILL		DRLPR	Drill Open Slide
	13:00 - 13:15		SURV	MWD	DRLPR	Survey with MWD Tools
	13:15 - 15:15		DRILL	l .	DRLPR	Drill Open Hole Rotary
*	15:15 - 15:30		SURV	MWD	DRLPR	Survey with MWD Tools
ļ	15:30 - 17:45		DRILL	DOHR	DRLPR	Drill Open Hole Rotary
1	17:45 - 18:00		SURV	MWD	DRLPR	Survey with MWD Tools
	18:00 - 20:30	2.50	CIRC	HOLE	DRLPR	Circulate and Condition Hole
	20:30 - 21:30	1.00	TRIP	WTRP	DRLPR	Wiper Trip. 12 stand round trip.
	21:30 - 22:15	0.75	CIRC	HOLE	DRLPR	Circulate and Condition Hole. Wash down 31' & spotted pill.
ļ	22:15 - 02:30		TRIP		DRLPR	POOH to log. Strapped out.
İ	02:30 - 03:30		TRIP		DRLPR	BHA/Bit Handling.L/D Baker tool's & loaded on truck.
	03:30 - 06:00		LOG	4	DRLPR	Standard Open Hole Logging R/U & make up tools to log well.
8/28/2003	06:00 - 10:00		LOG		EVALPR	Standard Open Hole Logging. Top of the logging tools hung in the
0,20,2000	00.00	7.50		J. 2		bottom of Logging Adapater . Pulled out of rope socket dropping 60' of
•		1		1	ļ	tools down hole.
1	10:00 - 11:30	1 50	FISH	PFSH	EVALPR	Walted on overshot
			FISH	PFSH	EVALPR	Made up 7 3/8" OD overshot, 3 5/8" grapple. TIH. t/ top of fish @ 8240'.
	11:30 - 18:00	0.50	rion	IFFOR	EVALPR	
]						Ingaged overshot over fish. Good increase in pump pressure 2-4,000#
İ						drag.
1	18:00 - 23:30		FISH	PFSH	EVALPR	Pull out of Hole with Fishing Tools / Fish
i	23:30 - 00:30		FISH	PFSH	EVALPR	L/D logging tool & tools. Full recovery.
1	00:30 - 01:45		TRIP	BIT	EVALPR	TIH w/ 8 3/4" bit & Dc's.
	01:45 - 03:15		RIG	SCDL	EVALPR	Slip and Cut Drill Line
	03:15 - 06:00	2.75	TRIP	BIT	EVALPR	TIH w/ 8 3/4" bit t/ 8300'. Circ @ 00600 hrs.
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Operations Summary Report

Legal Well Name:

INDIAN HILLS UNIT NO. 53

Common Well Name: INDIAN HILLS UNIT NO. 53

Event Name: Contractor Name: ORIGINAL COMPLETION

MCVAY DRILLING

Start:

8/7/2003 Rig Release: 8/30/2003 Spud Date: 8/14/2003

End: Group:

Rig Name:

MCVAY DRILLING

Rig Number: 4

Rig Ivaille.	Anne supre of the supre			TO Nazemasa	45285 0000000000000000000	INGINUTION. T The state of the control of the contr
# Dalgra	From To	Hous	Code	Sub Code	Phase	Description of Operations
8/29/2003	06:00 - 08:00		DRILL	DOHR	CSGPRO	Circ/Drill Open Hole Rotary
	08:00 - 09:30		CIRC	CLN	CSGPRO	Circulate Clean
	09:30 - 17:30		TRIP	LDDP	CSGPRO	RU L/D machine. Safety meeting. LD DP & DC's.
	17:30 - 02:30	9.00	CSG	RUN	CSGPRO	Safey meeting. Ran FS, FS, FC, 78- jts of 7", 26#, 100 jts of 7" 23#
				1]	csg. Landed @ 8315'. No fill.
	02:30 - 03:45		CIRC	CLN	CSGPRO	Circulate
	03:45 - 06:00	2.25	CEMT	PRIM	CSGPRO	Safety meeting. RU cmt head. Tested lines t/ 4000 psi. Pumped 50,000 SCF of N2 ahead. Pumped 10 bbls of 2% CaCl2 water, 10 bbl water spacer, 24 bbls of Super flush, 10 bbls of water, Slurry-1 Cemented w/ 100 sks of foamed acid soluable cement @ 15 ppg Yield- 2.55. Slurry-2 1200 sks of foamed Premuim 2% Zonesealant, Yield-1.125 @ 15.2 ppg tailed w/ 120 sks of Mod. "H". Cmt @ 06000 hrs.
8/30/2003	06:00 - 08:00	2.00	CEMT	PRIM	CSGPRO	Safety meeting. RU cmt head. Tested lines t/ 4000 psi. Pumped 50,000
						SCF of N2 ahead. Pumped 10 bbls of 2% CaCl2 water, 10 bbl water spacer, 24 bbls of Super flush, 10 bbls of water, Slurry-1 Cemented w/ 100 sks of foamed acid soluable cement @ 15 ppg Yield- 2.55. Slurry-2 1200 sks of foamed Premuim 2% Zonesealant, Yield-1.25 @ 15.2 ppg tailed w/ 120 sks of Mod. "H". Cmt Yield-1.67 @ 13 ppg. Circ 320 sks. Capped w/ 75sks of Premuim plus.
	08:00 - 14:00	6.00	NUND	DBOP	хмво	ND BOP. Set 7" slips. Cut off 7" csg. Pulled BOP. NU 11" x 7 1/16"3M Tubing Head. Tested t/ 2000 psi.
•	14:00 - 15:00	1.00	EQUIP	RURD	хмво	Jet pits. Rig released @ 1500 hrs CST.
9/4/2003	07:00 - 10:00		RIG		MIRU	Pre job safety meeting. WO anchors to be set. Unload, prep and tally
						267 jts of 2 7/8" L-80 new tubing. Set and tested anchors. RU PU.
	10:00 - 16:00	6.00	PLRNRP	•	OTHER	RU PU/LD machine. PU 264 jts. of tubing. RIH tag at 8269'
	16:00 - 18:00	2.00	FLUID	DPLC	RCMP	Displace hole with freshwater. Pickle tubing with 1000 gals 17% HCl. Reverse out to acid tank.
	18:00 - 19:00	1.00	PLRNRP		RCMP	POOH with tubing 50 stands. SDFN.
9/5/2003	06:00 - 07:00	1.00	PLRNRP	1	l	PJSM, POOH with tubing.
	07:00 - 11:30	4.50	LOG	CSGD		RU Baker Atlas cased hole loggers. RIH and log from PBTD to 7400'. POOH with W/L Encountered slight drag on bottom 50'. RD cased hole
						loggers.
·	11:30 - 17:30	6.00	PERF			RU Baker Atlas. RIH and get on depth. Perforate Upper Penn. Made 9 perf runs (see perforation report). IFL - 500' from surface. FFL - 650' from surface.
	17:30 - 18:00	0.50	PLRNRP		İ	RIH with killstring. SDFN.
9/6/2003	06:45 - 07:30		PLRNRP	1		PJSM. POOH with killstring.
J. V. B. V. V	07:30 - 10:00		PERF			RU Baker Atlas. RIH and perforate Upper Penn. 5 runs from 76212'-7732'. Fluid level at start of operations, 4000' from surface, fluid
	10:00 - 12:00	2.00	PKRPLG			level on last run, 4400' from surface. RD Baker Atlas. PU 7" PPI packers with 2' spacings. RIH and swing above top perf.
9/8/2003	07:00 - 08:00	1.00	RIG			SDFW. PJSM. MIRU Halliburton Energy Services. Test lines to 3850 psi. Drop RFC valve and function test.
•	08:00 - 19:00	11.00	STIM			PPI new perforations with 100 gpf 17% CCA sour. POOH 10 stands. SDFN.
9/9/2003	07:00 - 09:30	2.50	PLRNRP			PJSM. POOH with PPI packers on production tubing. LD PPI tools.
	09:30 - 10:30	1.00	PKRPLG			PU 7" BV RBP and RIH to 3500'. Load and test to 500 psi. POOH to 40 stand killstring. SDFN.
9/10/2003	06:00 - 06:30	0.50	SAFETY	SMTG	RCMP	Safety Meeting
	06:30 - 14:30		PLRNRP		RCMP	BO psi. POH w/ KS. PU and assembled GC2900 pump w/ 223 stages and tandem 150 HP motors. RU 3 spoolers. Respliced motor lead due to burr in cable. Located 72 protector clamps left over from other job.
i	l .	1		ı	ı	i

Legal Well Name: INDIAN HILLS UNIT NO. 53 Common Well Name: INDIAN HILLS UNIT NO. 53

Event Name:

ORIGINAL COMPLETION

Contractor Name: Rig Name:

MCVAY DRILLING MCVAY DRILLING Start:

8/7/2003

Spud Date: 8/14/2003

End:

Rig Release: 8/30/2003

Group:

Rig Number: 4

Rig Name:			DRILLIN	NG		Rig Number: 4
Dale	From: To	Hours	Code	Sub. Code	Phase	Description of Operations
9/10/2003 9/11/2003	06:30 - 14:30 06:30 - 07:00 07:00 - 14:00	0.50	PLRNRP SAFETY PLRNRP	SMTG	RCMP RCMP RCMP	RIH on 36 stands of 2 7/8" L-80 tubing until collar clamp supply was exhuasted. Left pump swinging. Closed torus and SDFN. Notified engineering to obtain additional clamps for run in tomorrow. Safety Meeting Bled off. Opened torus. Unloaded pallet of cable clamps. Prepped clamps. CIH w/ pump on 14 additional stands of 2 7/8" tubing to RBP. Latched on to RBP. Allowed pressure to equalize. CIH w/ remaining 157 jts of 2 7/8" tbg. Used a total of 202 protector clamps (1690' f/ surface) PU new hanger. Made top splice. Connected cable to bottom
						of hanger and 2 CT nylon lines Land hanger in wellhead. Nipple down blow out preventer and torus annular. Build wellhead tubing connections in to casing wrap around. Open flowline. SDFN
						·

Page 1 of 2

MARATHON OIL COMPANY

Daily Drilling Report Development-Gas

						D	evelopi	ment-G	as				•			
WELL N	AME				KB	GL		24 HR PRO	G TMD	TVD	DFS	DOL	R	PT#	DATE	~
UTLEY	' A-9				22.6	0	357.00		5,090	5,056	7	8	. L	7	28-Se	p-2003
SUPERV				1	RIG HAME	& NO.			AUTH MD	WBS					_	BS COST
_	Jacksor	1				NABO	ORS 365		12.637	DD.	.03.0920	8.CAF	DRL		931	,000
FIELD N		•			RIG PHON				MOC WI	NRI	DAILY				VELL CO	
- 	CREE	к		ľ			389-1208		37.5000	31.0246		0,498.			80,469	
STATE/P					COUNTY/C			AST CASING			XT CASING			<u> </u>	LEAK	
Texas						Freestone	1	9.625 (in)		90 (ft)	4.500 (12 65	O (8)		
	T STATUS	R/MTS				110001011		24 HR FOR		<i>y</i> (7.000 [117 (62)	12,00	<u> </u>		
P/U Mo																
	ION COM	MENTS						L								
			Nipple up	BOP												
11010	or o oug.	, Comone	,р.г		·····	OPF	RATION	AMILS S	AADV							
FROM	TO	HRS	FROM	TO	SUB	PHASE	OP	TRBL	<u>IIAN I</u>		DESC	RIPTIO	M			
	07:00		5,090	5,090		DRLIN1	TRIP		iniah L/D Di	-antional Ta		-				
06:00	_	1.00						 	inish L/D Di						· · · · · ·	
07:00	07:30	0.50	5,090	5,090	AF	CSGIN1	SAFETY	1 1	iold Pre Job Operators, A	•	_	h Csg	. Crev	v, L/D I	Machin	9
07:30	08:30	1.00	5,090	5,090	AF ·	CSGIN1	EQUIP	F	RU Bo Gray	Csg. Crew	& Lay Do	own M	achin	е.		
08:30	09:00	0.50	5,090	5,090	TA	CSGIN1	EQUIP	_	Veld up J ho							-
09:00	13:30	4.50	5,090	5.090		CSGIN1			A/U Float Sh			D	140 %	f O	E/07 40	
09:00	13.30	4.50	5,090	5,090	AF	CSGINT	CSG	1 1	Csg. to 5,09							
13:30	14:00	0.50	5,090	5,090	AF	CSGIN1	CEMT	1	nstall Halibu	rton Cemer	nting Hea	ad and	lines			
14:00	15:30	1.50	5,090	5,090	AF	CSGIN1	CIRC		Circulate and	Condition	Hole for	cemer	nt iob.			
15:30	17:00	1.50	5,090	5,090		CSGIN1			umped 20 b						Cemer	at 970
								0 1 T	ks. Haliburto 0.25# sx. Pho 1.93 CF/sx. 3 Failed with 23 20 15.6 ppg.	enoseal LC 134 bbl. slui 30 sxs. Pre	M, + 10. rry. mium Ce	64 GP ement,	S wat 5.23	er. Mix GPS n	ed @ 1	12.4 pp er. Mixe
	i		- 1		ļ			1 1	bls. 9.1 ppg					-	•	
					1		1		,100 psi. Flo			-			•	
		İ													Ketum	s throug
		ł				i	İ	°	ut job. Retu	med 80 bbl	s. Ceme	nt to S	urfac	е.		
								1 1	axed TRRC	District 5 N	Notification	on For	m and	l Intent	tion of	
45.00	10.00		5 000				<u> </u>		Cementing.							
17:00	18:00	1.00	5,090	5,090		CSGIN1	NUND		lush out Ris							
18:00	21:30	3.50	5,090	5,090	AF	CSGIN1	NUND	[L	ift Riser Set	slips with 1	100% Str	ing wt	. of 12	25,000.	. Make	Rough
			1				J	j Jo	Cut on Csg. I	Remove Ris	ser and (Csg. fr	om ur	nder Ri	g, Mak	e Final
			1			[1		Cut on Csg. I							
21:30	02:00	4.50	5,090	5,090	AF	CSGIN1	NUND		lipple up 11		OURNI, č	U (CS	i iU I	,out pa)i.	
02:00		2.50	5,090	5,090		CSGIN1						<u> </u>				
UZ.UU	U+:30	2.50	3,090	5,090	A F	COGINT	TEST		est Bop and si. high. Tes						wol Uc	, 5,000
04:30	05:00	0.50	5,090	5,090	AF	CSGIN1	DRILL		Rig Up & Cle						se Cea	Value
05:00		1.00	5,090	5,090		DRLPR	TRIP		/lake up Bit,				, u at ill	.g, OIU	ee csy	. valve.
		7		5,000	- "		11715		incre up bit,	motor, rele	JUINI SUL	<i>'</i>				
DENS		0.40) PP		ECI		MUD DA	TA DAIL	Y COST	0.00	. 10	CUM C	OST	, .	2937.0	0
DEMOI	TY(ppg)	9.10						17							,,	
FV	TY(ppg) PV/YP			HP FC	/T.SOL	OW	%Sand/MB1	', ', '	Pf/Mf	CI/Ca	CaC12		H28	LIME	ES	6RPM

Page 2 of 2

Daily Drilling Report Development-Gas

WELL NAME			KB	GL		24 HR PROG	TMD	TVD	DFS	DOL	RPT#	DATE
UTLEY A-9			22.0		357.00		5,090	5,056	7	8	· 7	28-Sep-20
			ı	MATER	IALS /	CONSUM	PTION	•	· ·			
ITEM		UNITS	USAGE		HAND	ITE		UNI	TS	USAGI	E	ON HAND
DIESEL												
				PI	ERSON	NEL DAT	A				POB	@ 06:00:
COMPA	NY	SERVIC	E	NO.	HOURS	COM	PANY		SERV	1CE	NO	HOURS
Nabors Drilling	USA	Drilling Contract	or	11	132.00	Woods Group		Well	Well Head			1 5.0
Baroid Drilling	Fluids	Mud Engr		1	2.00	Bo Gray		Csg.	Crew &	L/D Machin	e	4 28.0
Brammer Eng.		Consulting		1	24.00	Haliburton		Ceme	enting			4 20.0
Scientific Drillin	ng	Directional drille	& MWD	3	18.00	Jet Blast		Bop '	esting			1 6.0
Bo Gray		L/D Machine, Cs	g. Crew	5	40.00	Simons Pet	roleum	Fuel				1 2.0
				C	ASING S	SUMMAR	Υ					
LAST BOP TE	ST: 9/2	8/2003				ASING TES			NEX	T BOP TES	ST:	
SIZE (in)	ID (in)	SHOE TEST (ppg)		MAX SIC	P	MD (ft)	TVD	(ft) V	/T (lb/ft)	GRA	DE	BURST (ps
13.375	12.715		(F	osi) @ (p	pg)	1,076	1,07	76	48.00	H-4	10	1,730
9.625	8.835		(psi) @ 9.10	(ppg)	5,090	5,0	56	40.00	J-5	55	3,950

Page 1 of 2

MARATHON OIL COMPANY

Daily Drilling Report Development-Gas

							D	evelop	ment-G	as						
WELL NA	ME				Ti-	KB	GL		24 HR PRO	OG TMD	TVD	DFS	DOL	RPT#	DATE	
UTLEY	C-15_					21.		408.00	185.0	10,445	10,445	13	18	13	28-Sep-200	
SUPERVI	SOR				ļı	RIG NAM				AUTH MD	WBS			•	SAP/WBS COS	
Bruce E							NABORS E	PRILLING	151	12,650			3.CAP.DI		850,000	
FIELD NA		·			- "	RIG PHOI		00 0474		MOC WI 36.8939	NRI 24.40		ELL COST	_ I	WELL COST	
MIMMS STATE/PI		^				COUNTY		88-8174	LAST CASIN			T CASING	<u>,973.58 </u>		577,530.38 LEAKOFF	
Texas	NOV.					JOON 17	Freestone	1	9.625 (in		53 (ft)		n) @ 12.7	700 (8)	LEAROFF	
CURREN	STATUS	S/MTS					1100000000	·	24 HR FOI		00 (11)	4.000 (OO (III)		
Orlg @	10,445								Drill ahe	ad						
OPERATI	ON COM	MENTS											•	•	-	
Bit trip,	cut drill	line, ser	vice rig	, TIH to	10,17	o', wast					260' to 10,44	45 '.				
									IS SUM	MARY					·	
FROM	то	HRS	FRO		то	SUB	PHASE	OP	TRBL			DESC	RIPTION			
06:00	10:00	4.00	10,	260	10,260	AF	DRLPR	TRIP		Trip out for E	Bit No. 5		•			
l	1		ł							Note: Hale s	lick and took	the righ	nt amount	of fill.		
									<u> </u>	Bit graded a	s: 8-8-WT-A	E-2-BT-	PR			
10:00	12:00	2.00	10,	260	10,260	AF	DRLPR	TRIP		Trip in w/ Bit	No. 6 to 9-5	/8" casir	ng shoe.			
12:00	13:00	1.00	10,	260	10,260	AF	DRLPR	RIG		Slip and Cut	Drill Line					
13:00	13:30	0.50	10,	260	10,260	AF	DRLPR	RIG		Service Rig						
	15:00	1.50	10,	260	10,260	AF	DRLPR	TRIP		Trip in w/ Bit	No. 6 to 10,	170'.				
15:00	16:30	1.50	10,		10,260		DRLPR	TRIP		Wash/Ream	from 10,170)' to 10.2	260'.			
			,								bit was 1/8"	•				
16:30	06:00	13.50	10,	260	10,445	AF	F DRLPR DRILL Drill Open Hole Rotary from 10,260' to 10,445'.									
DENSI	TY(ppg)	8.	90	PP		EC	D N	IUD DA	TA DAII	LY COST	438.00	1	CUM COST	r	9282.00	
FV	PV/YP	GEI	S V	/L/HTH	FC	/T.SOL	OW	%Sand/ME		A PF/Mf	CI/Ca	CaCl2(wt%) H2	S LIME	ES GRPM	
29	2/2	/3		22.0/	2	.0/3.0	7	1	8/	0.1/	1,000 /	1				
											.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				<u> </u>	
		1:							ITS							
BIT/RUN			ANUF.	-	TYPE		SERIAL NO	·——	JETS OF			IN DAT			L-B-G-O-R	
5/1	8.750		mith		F80D		MP0765		10/10/11			9/25/2			-E- 2-WT-PR	
6/1	8.750) 5	mith	Щ.	F80D)	MP3621		11/10/10	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	10,260.	0 9/28/	2003	0	<u> </u>	
BIT /	RUN	W	ОВ	RPI	A	GPM	PRESS	P BIT	HRS	24Hr DI	ST 24Hr R	OP CL	JM HRS	CUM DEP	TH CUM ROP	
5	/1	60	/ 65	58 / (60	327	2,100	1,446			15.6	0	50.00	728.0		
						327		- ',			10.0.					
•	/ 1	60	/ 65	55 /	55 I			l	13.50	185 (13.7	n	13 M L			
	/ 1	60	/ 65	55 /	55	321	2,100		13.50	185.0	13.7	0	13.50	185.0	13.70	
									НА							
	. LEN	IGTH	FF WT.	PIC	(UP	SLACK	OFFROTV				HRS JAR		WD HRS	MTR HE		
5	. LEN	IGTH	EFF WT.	PICI 26	K UP 5,000	SLACK 240,0	OFFROT V	VT. TOR	HA QUE (max/	min) BH/						
BHA NO 5 BHA DE:	. LEN	IGTH	EFF WT.	PICI 26	K UP 5,000	SLACK 240,0	OFFROT V	VT. TOR	HA QUE (max/							
5	. LEN	IGTH	EFF WT.	PICI 26	K UP 5,000	SLACK 240,0	OFFROT V	VT. TOR (36), 9 Jo	HA QUE (max/ / pints 4-1/2	min) BHA						
5	. LEN	IGTH 1 169.09 10N 7	EFF WT.	PICI 26 Bit , B	K UP 5,000	SLACK 240,0 6-1/4"	OFF ROT V	VT. TOR (36), 9 Jo	HA QUE (max/ / pints 4-1/2	min) BH/ " HWDP (9)	AHRS JAR	HRS N	AWD HRS	MTR HE	RS SS HRS	
5 BHA DE:	LEN 1,3 SCRIPTI	IGTH 1869.09 10N 7	EFF WT. 0 ri-Cone	PICI 26 Bit , B	K UP 5,000	SLACK 240,0 6-1/4"	OFF ROT V	(36), 9 Jo P / HYD LINER (in)	HA QUE (max/ / bints 4-1/2 RAULIC	min) BH/ " HWDP (9) C DATA Q (gpm)	HRS JAR	HRS N	WD HRS	MTR HE	RS SS HRS PRESSURE	
5 BHA DES NO.	LEN 1,3 SCRIPTI	IGTH I 169.09 I ION T	EFF WT. 0 ri-Cone	PICI 26 Bit , B	K UP 5,000	SLACK 240,0 6-1/4"	OFF ROT V	VT. TOR (36), 9 Jo	HA QUE (max/ / bints 4-1/2 RAULIC	min) BH/ " HWDP (9)	AHRS JAR	TOTAL	Q KIL	MTR HE	PRESSURE 925	
5 BHA DE: NO.	LEN 1,3 SCRIPTI	IGTH I 169.09 I ION T	EFF WT. 0 ri-Cone	PICI 26 Bit , B	K UP 5,000	SLACK 240,0 6-1/4"	OFF ROT V	(36), 9 Jo P / HYD LINER (in)	HA QUE (max/ / bints 4-1/2 RAULIC	min) BH/ " HWDP (9) C DATA Q (gpm)	HRS JAR	HRS N	Q KIL	MTR HE	RS SS HRS PRESSURE	
5 BHA DES NO.	LEN 1,3 SCRIPTI	IGTH I 169.09 I ION T	EFF WT. 0 ri-Cone	PICI 26 Bit , Bi	⟨UP 5,000 it Sub ,	SLACK 240,0 6-1/4"	OFF ROT V DOO Drill Collars PUMF ROKE (in) 9.000 9.000	VT. TOR (36), 9 Jo P / HYD LINER (in) 6.000	HA QUE (max/) / bints 4-1/2 RAULIC SPM) 104	min) BH/ " HWDP (9) DATA Q (gpm) 326.51	HRS JAR	TOTAL 326.	Q KIL	MTR HE	PRESSURE 925	
5 BHA DES NO.	LEN 1,3 SCRIPTI NATIO	IGTH I 169.09 I ION T	EFF WT. 0 ri-Cone	PICI 26 Bit , Bi	⟨UP 5,000 it Sub ,	SLACK 240,0 6-1/4"	OFF ROT V DOO Drill Collars PUMF ROKE (in) 9.000 9.000	VT. TOR (36), 9 Jo P / HYD LINER (in) 6.000	HA QUE (max/) / bints 4-1/2 RAULIC SPM) 104	min) BH/ " HWDP (9) DATA Q (gpm) 326.51	PRESS. (psi)	TOTAL 326.	Q KIL	MTR HF	PRESSURE 925	
5 BHA DE: NO. 1 2	LEN 1,3 SCRIPTI NATIO	IGTH I 169.09 I ION T	0 'ri-Cone	PICI 26 Bit , Bi	⟨UP 5,000 it Sub ,	SLACK 240,0 6-1/4"	OFF ROT V DOO Drill Collars PUMF ROKE (in) 9.000 9.000	VT. TOR (36), 9 Jo P / HYD LINER (in) 6.000	HA QUE (max/) / bints 4-1/2 RAULIC SPM) 104	min) BH/ " HWDP (9) C DATA Q (gpm) 326.51	PRESS. (psi) 2,100	TOTAL 326.	Q KIL	MTR HF	PRESSURE 925 975	
5 BHA DES NO. 1 2	LEN 1,3 SCRIPTI NATIO	IGTH 1869.09 100N T	0 'ri-Cone	PICI 26 Bit , Bi	⟨UP 5,000 it Sub ,	SLACK 240,0 6-1/4"	OFF ROT V DOO Drill Collars PUMF ROKE (in) 9.000	(36), 9 Jo 2 / HYD LINER (in) 6.000	HA QUE (max/) pints 4-1/2 RAULIC SPM 104	min) BH/ " HWDP (9) DATA Q (gpm) 326.51 VELOCIT TOTAL 1,510.0	PRESS. (psi) 2,100	TOTAL 326.	Q KIL	MTR HF	PRESSURE 925 975	
5 BHA DES NO. 1 2 HO: 810	NATIO	IGTH II I69.09 ION T MA DNAL	Ori-Cone	PICI 26 Bit , B	CUP 5,000 it Sub ,	SLACK 240,0 6-1/4" STI	PUMF PONE (in) 9.000 MES (bt	(36), 9 Jo (36), 9 Jo (7 HYD) LINER (in) 6.000 (1) / ANI	HA QUE (max/) pints 4-1/2 RAULIC SPM 104 NULAR	min) BH/ " HWDP (9) DATA Q (gpm) 326.51 VELOCIT TOTAL 1,510.0	PRESS. (psi) 2,100 IES (ft/m) MUD LOS	TOTAL 326.	Q KIL 51 51	MTR HF	PRESSURE 925 975 ANN VEL DC	
5 BHA DES NO. 1 2	LEN 1,3 SCRIPTI NATIO	IGTH II I69.09 ION T MA DNAL 70 AZIM	O'ri-Cone	PICI 26 Bit , Bi	(UP 5,000 it Sub ,	SLACK 240,6 6-1/4" STI	OFF ROT V DOO Drill Collars PUMF ROKE (in) 9.000 9.000 MES (bt	(36), 9 Jo (36), 9 Jo (7 HYD) LINER (in) 6.000 (1) / ANI	HA QUE (max/) pints 4-1/2 RAULIC SPM 104 NULAR	min) BH/ " HWDP (9) DATA Q (gpm) 326.51 VELOCIT TOTAL 1,510.0	PRESS. (psi) 2,100 IES (ft/m) MUD LOS	TOTAL 326.	Q KIL 51 51	MTR HF	PRESSURE 925 975	

Page 2 of 2

Daily Drilling Report Development-Gas

WELL NAME	KB	GL	24 HR PROG	TMD	TVD	DF8	DOL	RPT#	DATE
UTLEY C-15	21.0	408.00	185.0	10,445	10,445	13	18	13	28-Sep-2003
	MA'	TERIALS / C	MUSINO	DTION					

	MATERIALS / CONSUMPTION													
ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND							
GEL, FRESH	392	28	392	Mica	50		73							
BARITE SACKS	480	40	320	EZ Mud	13		12							
Lime	5		5	EZ Spot	9		9							
Caustic Soda	44 .		42	B-Seal	300		300							

	PERSONNEL DATA POB @ 06:00: 13													
COMPANY	SERVICE	NO.	HOURS	COMPANY	SERVICE	NO.	HOURS							
Marathon		1	24.00	Baroid Drilling Fluids		1	1.00							
Nabors Drilling USA		11	144.00											

		CASING	SUMMARY				
LAST BOP TE	ST: 9/19/2003	LAST (CASING TEST:	NEXT E	10/3/2003		
SIZE (in)	ID (in) SHOE TEST (ppg)	MAX SICP	MD (ft)	TVD (ft)	WT (lb/ft)	GRADE	BURST (psi)
13.375	12.715	(psi) @ (ppg)	1,070	1,070	48.00	H-40	1,730
9.625	8.835	(psi) @ (ppg)	5,053	5,053	40.00	K-55	3.920

Page 1 of 2

Daily Drilling Report Development-Gas

						D	evelop	ment-Ga	as						
WELL NA	AME				кв	GL		24 HR PROC	G TMD	TVD	DFS	DOL	RPT #	DAT	ΓE
UTLEY	' A-9				22.0	<u> </u>	357 <u>.00</u>	2,108.0	7,198	7,164	8	9		8 29	Sep-2003
SUPERV					RIG NAME & NO.				AUTH MD	WBS				SAI	WBS COST
Danny	Jacksor	1.				NABO	DRS 365		12,637	DC	0.03.092	208.CAP.	DRL_		931,000
FIELD NAME					RIG PHONE				MOC WI	NRI	DAILY	WELL COS	ST CI	UM WEL	. COST
MIMMS CREEK					903-389-1208				37.5000	31.0246	3 3	<u> 22,810.00</u>	<u>) </u>	503,	279.08
STATE/PROV					COUNTY/C	THER		LAST CASING		N	EXT CASI	NG		L L	EAKOFF
Texas						Freestone		9.625 (in)		90 (ft)	4.500	(in) @ 1	<u>2,650 (f</u>	<u>t) </u>	
CURRENT STATUS / MTS						•		24 HR FOR	ECAST						
Drilling															
	TON COM														
DRII F/s	5,090' to	7,196				ODE	DATION	IC CLIMA	AADV						
FROM	то	HRS	FROM	TO	SUB	PHASE	OP	VS SUMN	AAKT	· · ·	DES	CRIPTION			
FROM			 			DRLPR	TRIP		VI 1 hdodon 3	Caladala Ti			<u>-</u> -		
06:00	09:00	3.00	5,090						P/U Motor, 1			000			
09:00	09:30	0.50	5,090			DRLPR	TEST	1	est 9 5/8 C						
09:30	10:00	0.50	5,090	+		DRLPR	DRILL	+	Orill Cemen		<u> </u>				
10:00	17:30	7.50	5,090			DRLPR	DRILL		Orill F/5,090	to 5,898'					
17:30	18:00	0.50	5,898			DRLPR	RIG		Service Rig						
18:00	20:00	2.00	5,898			DRLPR	DRILL		orill F/5,898	' to 6,245'					
20:00	21:00	1.00	6,245	6,245	TA	DRLPR	RIG	<u> </u>	Change Swi	vel Packing	2				
21:00	02:00	5.00	6,245	6,830	AF	DRLPR	DRILL		Orill F/6,245	' to 6,830'					
02:00	02:30	0.50	6,830	6,830	TA	DRLPR	RIG		Changed Sv	vab #2 Muc	Pump		* *		
02:30	05:30	3.00	6,830	7,198	AF	DRLPR	DRILL		Orill F/6,830	' to 7,198'					
05:30	06:00	0.50	7,198	7,198	AF	DRLPR	SURV	7	eledrift Sur	veys @ 5,3	33, 5,8	17', 6,067	r, 6,325	5', 6,57	5', 6,801',
					<u> </u>	<u> </u>	<u> </u>		',051'						
DENS	iTY(ppg)	9.	10 PF	· [EC	D N	AUD DA	TA DAIL	Y COST	0.00	. 1	CUM CO	ST	293	7.00
FV	PV/YF		S WLI	ITHP FO	T.SOL	OW	%Sand/Mi	BT Ph/pM	Pf/Mf	CVCa	CaC	12(w1%) 1	H2S LI	ME E	S 6RPM
34	5/5	2/	7 18	.0/	7	1	1	8/	7	600 /					
	ul 0175	- 50	ANUF.	TYPE		SERIAL NO		ITS		7 2527		.== 01	T		
BIT/RUN								JETS OR			H IN DA)-D-L-B-	6-0-K
3/1	8.750) <u> </u>	Reed	DS199	3N	105399		B/18/18/18/	18/18////	5,090	0.0 9/29	9/2003	<u> </u>	0-0	
BIT	/ RUN	W	ОВ	RPM	GPM	PRESS	P BIT	HRS	24Hr DI	ST 24Hr	ROP (CUM HRS	CUM E	DEPTH	CUM ROP
3	1/1	1											+		120.46
=	,,,	1	/ 8	0 / 100	565	2,300	120	17.50	2.108	0 120	.46	17.50	2.10	08.O I	
			/ 8	0 / 100	565	2,300	120	17.50	2,108	.0 120	.46	17.50	2,10	08.0	
							В	НА				17.50			
BHA NC). LEN	IGTH 1	EFF WT.	PICK UP	SLACK	OFF ROT V	VT. TOR				.46	17.50 MWD HR			SS HRS
BHA NO). LEN	IGTH 1	EFF WT. 42,850	PICK UP 200,000	SLACK 160,0	OFF ROT W	VT. TOR	B HA RQUE (max/m	nin) BH/	HRS JAF	HRS	MWD HR	RS MTR	HRS	
3). LEN	IGTH 1 32.87 ION F	EFF WT. 42,850 Polycrystall	PICK UP 200,000 ine Diamor	SLACK 160,0 nd Bit , P	OFF ROT W	VT. TOR	НА	nin) BH/	HRS JAF	HRS	MWD HR	RS MTR	HRS	
3). LEN	IGTH 1 32.87 ION F	EFF WT. 42,850 Polycrystall	PICK UP 200,000	SLACK 160,0 nd Bit , P	OFF ROT W	VT. TOR	B HA RQUE (max/m	nin) BH/	HRS JAF	HRS	MWD HR	RS MTR	HRS	
3). LEN	IGTH 1 32.87 ION F	EFF WT. 42,850 Polycrystall	PICK UP 200,000 ine Diamor	SLACK 160,0 nd Bit , P	OFF ROT W 00 175,0 cositive Dis (9)	VT. TOR	RHA RQUE (max/m / nt Motor , Te	nin) BH/	HRS JAF	HRS	MWD HR	RS MTR	HRS	
3 BHA DE). LEN	IGTH 1 32.87 ION F	EFF WT. 42,850 olycrystall -1/2" Heav	PICK UP 200,000 ine Diamor y Weight D	SLACK 160,0 nd Bit , P Oritl Pipe	OFF ROT V 00 175,0 cositive Dis (9)	BYT. TOR	HA QUE (max/m / nt Motor , Te	nin) BH/ eledrift , 6-1	A HRS JAF	HRS	MWD HR	RS MTR	HRS	l Collar (3)
3 BHA DE	D. LEN 90 SSCRIPT	IGTH B32.87 ION F	42,850 Polycrystall -1/2" Heav	PICK UP 200,000 ine Diamor y Weight D	SLACK 160,0 nd Bit , P Oritl Pipe	OFF ROT V 00 175,0 cositive Dis (9)	P / HYD	HA QUE (max/m / nt Motor , Te	eledrift , 6-1 DATA Q (gpm)	AHRS JAR /4" Drill Co PRESS. (psi	HRS	MWD HR	RS MTR	HRS	
3 BHA DE NO.	D. LEN 91 SCRIPT	IGTH I B2.87 I ION F 4	42,850 Polycrystall -1/2" Heav	PICK UP 200,000 ine Diamor y Weight D	SLACK 160,0 nd Bit , P Oritl Pipe	OFF ROT W 00 175,0 ositive Dis (9) PUMF OKE (in)	VT. TOR 000 placemen P / HYD LINER (in) 6.000	RAULIC SPM	pledrift , 6-1 DATA Q (gpm) 282.56	AHRS JAF /4" Drill Co PRESS. (psi 2,300	R HRS	MWD HR	RS MTR	HRS	l Collar (3)
3 BHA DE	D. LEN 91 SCRIPT	IGTH B32.87 ION F	42,850 Polycrystall -1/2" Heav	PICK UP 200,000 ine Diamor y Weight D	SLACK 160,0 nd Bit , P Oritl Pipe	OFF ROT V 00 175,0 cositive Dis (9)	P / HYD	RAULIC SPM	eledrift , 6-1 DATA Q (gpm)	AHRS JAR /4" Drill Co PRESS. (psi	R HRS	MWD HR	RS MTR	HRS	l Collar (3)
3 BHA DE NO. 1 2	O. LEN 99 GARD	MANER-DE	42,850 lolycrystall -1/2" Heav KE OF PUR NVER	PICK UP 200,000 ine Diamor y Weight D	SLACK 160,0 nd Bit , P Oritl Pipe	OFF ROT W 00 175,0 cositive Dis (9) PUMF ROKE (in) 9.000	P / HYD LINER (in) 6.000 SURVE	RAULIC SPM D 90 90 EY DATA	DATA Q (gpm) 282.56	AHRS JAF /4" Drill Co PRESS. (psi 2,300 2,300	HRS HRS	MWD HR	Jar , 6-1	HRS 1/4" Dril	I Collar (3)
NO. 1 2	GARD	MANER-DE	42,850 Polycrystall -1/2" Heav NVER NVER	PICK UP 200,000 ine Diamor y Weight D	SLACK 160,0 nd Bit , P Oriti Pipe STR	OFF ROT W 00 175,0 cositive Dis (9) PUMF OKE (in) 9.000 9.000	P / HYD LINER (in) 6.000 SURVE	RAULIC SPM 90 90 90 SY DATA	DATA Q (gpm) 282.56 INCL A	A HRS JAF /4" Drill Co PRESS. (psi 2,300 2,300	HRS ar (18) TOTA 566	MWD HR	Jar , 6-1	HRS 1/4" Dril	ESSURE
3 BHA DE NO. 1 2 MD 5,333.0	GARD INCL I 1.00	MANER-DE	42,850 Polycrystall -1/2" Heav NVER NVER UTH TV	PICK UP 200,000 ine Diamor y Weight D AP U VS 0 0.00	SLACK 160,0 nd Bit , P Drill Pipe STR N/S CL 0.00	OFF ROT W 00 175,0 cositive Dis (9) PUMF OKE (in) 9.000 9.000	P / HYD LINER (in) 6.000 SURVE	RAULIC SPM D 90 D 90 FY DATA 6,325.0	DATA Q (gpm) 282.56 282.56 INCL A	A HRS JAF /4" Drill Co PRESS. (psi 2,300 2,300 ZIMUTH 0.00	HRS HRS HRS HRS HRS HRS 568 TVD D.00	MWD HR	Jar, 6-1 KILL SPA	HRS 1/4" Dril	ESSURE MDOGLEG 0.00
NO. 1 2	GARD INCL	MANER-DE NER-DE AZIM	42,850 Polycrystall -1/2" Heav NVER NVER UTH TVI 00 0.0	PICK UP 200,000 ine Diamor y Weight D AP D VS 0 0.00 0 0.00	SLACK 160,0 nd Bit , P Oriti Pipe STR	OFF ROT W 00 175,0 cositive Dis (9) PUMF OKE (in) 9.000 9.000	P / HYD LINER (in) 6.000 SURVE	RAULIC SPM 90 90 90 SY DATA	DATA Q (gpm) 282.56 INCL A	A HRS JAF /4" Drill Co PRESS. (psi 2,300 2,300 ZIMUTH 0.00 0.00	HRS ar (18) TOTA 566	MWD HR	Jar , 6-1	HRS 1/4" Dril	ESSURE

Printed: 9/29/2003 6:08:59 AM

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Daily Drilling Report Development-Gas

							D	evelop	ment-G	as								
WELL NAME KB						GL		24 HR PROG TMD		TVI	TVD DFS		DOL		RPT#		DATE	
UTLEY A-9					22.0		357.00	2,108.0	7,1	98	7,164	8		9	8	29-Sep-2003		
							-	SURVE	Y DATA								_	
MD	ID INCL AZIMUTH TVD V		vs	N/S CUME/W CL				INCL	AZIMU	UTH TVD		VS N		N/S CUME/		DOGLEG		
7,051.0	1.00	0.0	0	0.00	0.00	0.00	0.00	0.00										
		-					AATFI	RIALS /	CONSUM	APTIC)N							
ITEM UNITS			Г	USAGE			ITEM			UNITS		u	USAGE		ON HAND			
DIESEL	IESEL																	
			,				P	ERSON	NEL DA	ΓΑ						POB	@0	6:00:
C	OMPAI	VY.	T	SE	RVICE		NO. HOURS		COMPANY			SERVICE			NO		HOURS	
Nabors Drilling USA Drilling Contract				tracto	r	11 132.00		Brammer Eng.			Consulting				1	24.00		
Baroid D	rilling F	luids	Mı	ud Engr			1	2.00										
								ASING S	SUMMAI	RY								····
LAST BO	OP TES	T: 9/2	8/200	3 .					ASING TE				NEX	T, BOF	TES	T:		
SIZE	(in)	ID (in)	SHO	E TEST	(ppg)		MAX SIG	ÇP	MD (f	1)	TVD (ft)	W	Γ (lb/ft)		GRA	DE	BUF	RST (psi)
13.37	75	12.715				(5	osi) @ (ppg)	1,070	5]	1,076	4	8.00		H-4	0		1,730
9.62	5	8.835	_				@ 9.1		5,090	ם ד	5.056	1	0.00		J-5	5		3,950

172232426									
BECEIVED W B	UNITED STATES EPARTMENT OF THE II UREAU OF LAND MANA NOTICES AND REPOI is form for proposals to II. Use form 3160-3 (API	NTERIOR		OCD	OMB 1				
SUPMIT IN TRI					7. If Unit or CA/Agr	eement, Name and/or No.			
1. Type of Well Soll Well Gas Well Ot				8. Well Name and No					
Name of Operator MARATHON OIL COMPANY	Contact:	CHARLES KENI E-Mail: cekendrix@		com	9. API Well No. 30-015-32875-				
3a. Address P O BOX 552 MIDLAND, TX 79702		3b. Phone No. (in Ph: 800.351.1 Fx: 915.687.83	417 Ext: 810		10. Field and Pool, o INDIAN BASIN	r Exploratory I UPPER PENN ASSOC			
4. Location of Well (Footage, Sec., 7 Sec 28 T21S R24E SENW Lo	• •				11. County or Parish EDDY COUNT	,			
12. CHECK APP	ROPRIATE BOX(ES) TO	INDICATE NA	TURE OF 1	NOTICE, RE	PORT, OR OTHE	R DATA			
TYPE OF SUBMISSION			TYPE O	F ACTION					
Notice of Intent Subsequent Report	☐ Acidize ☐ Alter Casing ☐ Casing Repair	☐ Deepen ☐ Fracture ☐ New Co				☐ Water Shut-Off ☐ Well Integrity ☐ Other			
Final Abandonment Notice	☐ Change Plans ☐ Convert to Injection	☐ Plug and Abandon			☐ Temporarily Abandon ☑ Water Disposal				
13. Describe Proposed or Completed Op If the proposal is to deepen direction Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f As required by ONSHORE Of methods of water disposal fro to one of the wells listed unde required, water may be sent v under SECONDARY DISPOS	ally or recomplete horizontally, in will be performed or provide a operations. If the operation restandonment Notices shall be file inal inspection.) RDER #7, Marathon Oil Com this well. Produced water PRIMARY DISPOSAL or is pipeline (if available) or is pipeline (if available) or	give subsurface loca the Bond No. on file ults in a multiple co d only after all required company is notifying or from this well on the attached so truck hauled to	tions and measi with BLM/BLA mpletion or rex irements, includ- ing you of ex- will be sent, vineets. If addi	ired and true vera. Required sub- ompletion in a ning reclamation isting and intivia pipeline, tional capaci	rical depths of all perti sequent reports shall be ew interval, a Form 31, have been completed, ended	nent markers and zones. e filed within 30 days 60-4 shall be filed once			
		•		APPROV	/AL SUBJECT	· TO			
					L REQUIREM				
				SPECIAL	. STIPULATIO	INS ATTACHED			
	# Electronic Submission For MARATH Ommitted to AFMSS for pro	24372 verified by DN OIL COMPAN cessing by LINDA	the BLM Well f, sent to the ASKWIG on	I Information Carlsbad 10/20/2003 (0	System 4LA0027SE)				
Name (Printed/Typed) CHARLES	SKENDRIX	Tit	le AUTHO	RIZED REP	RESENTATIVE				
Signature (Electronic	Submission)	Da	tc 10/17/2	003					
	THIS SPACE FO	R FEDERAL (OR STATE	OFFICE US	BE				
Approved By ALEXIS C SWOBO	PA		itlePETROLE	UM ENGINE	ER	Date 10/21/2003			
Conditions of approval, if any, are attache certify that the applicant holds legal or eq which would entitle the applicant to condi-	d. Approval of this notice does	not warrant or subject lease	ffi∝ Carlsba						
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a	crime for any person	knowingly and	willfully to ma	ke to any department o	r agency of the United			

ATTACHMENT I

Marathon Oil Company Indian Basin

Primary Disposal: MOC Battery Disposal System

Operated By: Marathon Oil Company

Well Name:

MOC SWD # 1 UL "M", Section 7, T-20-S, R-25-E SWD 448 Location:

Permit#:

Operated By: Marathon Oil Company Well Name: Indian Hills State Com # 7

UL "F", Section 36, T-20-S, R-24-E Location:

Permit #: SWD 570

Primary Disposal: IBGP Disposal System

Operated By: Marathon Oil Company

Well Name:

AGI # 1 SWD UL "E", Section 23, T-21-S, R-23-E SWD 784 Location:

Permit #:

Operated By: Marathon Oil Company Well Name: Marathon Federal # 1

UL "K", Section 24, T-21-S, R-23-E SWD 55 Location:

Permit #:

Primary Disposal: Indian Hills Unit Disposal System

Operated By: Marathon Oil Company

Well Name:

Rocky Hills #1 SWD UL "O", Section 19, T-21-S, R-24-E SWD 691 Location:

Permit #:

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

Location:

Permit #:

Operated By: Marathon Oil Company Well Name: Indian Hills Unit #30 SWD

UL "L", Section 20, T-21-S, R-24-E SWD 801 Location:

Permit #:

Secondary Disposal

Well Name: Springs SWD

Operator: Rowland

Location: Sec 27, T-20-S, R-26-E

Permit#: **SWD 86**

Well Name: BKE Operator: Rowland

Sec 13, T-23-S, R-27-E SWD 495 Location:

Permit#:

Well Name: Salty Bill SWD Operator: Grace Oil

Location: Sec 36, T-22-S, R-26-E

Permit#: SWD R-118 Fed ID # 850303046

October 17, 2003

Well Name:

Big Eddy Federal 100 SWD (Whistle Stop) Dakota Resources Unit "L", Sec 8, T-21-S, R-28-E SWD 461

Operator:

Location:

Permit#:

Well Name: Operator:

Dorstate SWD Mesquite Services Sec 27, T25S, R26E

Location: Permit#:

SWD 247

Well Name:

Aikman SWD State # 1 Section 27, T-19-S, R-25-E

Location: Permit#:

SWD 417

Well Name:

Holstun # 1 SWD

Operated By: Nearburg Producing Company Section 4, T-20-S, R-25-E

Location: Permit#:

R 9269

Well Name:

Charlotte McKay Federal # 1 SWD

Operated By:

Yates Petroleum

Location:

Section 25, T-20-S, R-25-E SWD 460

Permit#:

Well Name:

Location:

Walter Solt State No. 1 Unit "L", Sec 5, T-18-S, R-28-E SWD 318

Permit#:

Well Name:

Dagger Draw Salt Water Disposal Sec 22, T-19-S, R-25-E R7637

Location:

Permit#:

Well Name:

Corrine Grace Salt Water Disposal Well

Location:

Sec 36, T-22-S, R-26-E K6290

Permit#:

Well Name:

Myrtle-Myra WIW # 1 Sec 21, T-21-S, R-27-E NMOCD-FWD-391

Location: Permit#:

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

Well Name:

CRI SWD

Location: Permit #:

Sec 27, T20S, R32E

SWD R91166

	UNITED STATES PARTMENT OF THE IN PREAU OF LAND MANACHOTICES AND REPOR PROPOSALE TO THE TOP TO THE TOP TO THE TOP TO THE TOP TO THE TOP TO THE TOP TO THE TOP TO THE TOP TO THE TOP TO THE TOP TO THE TOP TO THE TOP TO THE T	TERIOR EMENT	OCD	OMB N Expires: No 5. Lease Serial No. NMNM030482 6. If Indian, Allottee of	
SUBMIT IN TRIP	PLICATE - Other instruct	ions on reverse side.		7. If Unit or CA/Agre NMNM70964A	ement, Name and/or No.
K Type of Wells Gas Well Cho	er			8. Well Name and No. INDIAN HILLS UP	NIT 53
2. Name of Operator MARATHON OIL COMPANY	Contact: (CHARLES KENDRIX E-Mail: cekendrix@maratho	noil.com	9. API Well No. 30-015-32875-0)0-S1
3a. Address P O BOX 552 MIDLAND, TX 79702		3b. Phone No. (include area Ph: 800.351.1417 Ext: Fx: 915.687.8307		10. Field and Pool, or INDIAN BASIN	Exploratory UPPER PENN ASSOC
4. Location of Well (Footage, Sec., T.,	R., M., or Survey Description)			11. County or Parish,	and State
Sec 28 T21S R24E SENW Lot	F 1383FNL 1586FWL			EDDY COUNTY	r, NM
12. CHECK APPR	OPRIATE BOX(ES) TO	INDICATE NATURE	OF NOTICE, R	EPORT, OR OTHE	R DATA
TYPE OF SUBMISSION		TYF	PE OF ACTION		
- Ned a State	☐ Acidize	Deepen	☐ Produc	tion (Start/Resume)	☐ Water Shut-Off
☐ Notice of Intent	☐ Alter Casing	☐ Fracture Treat	☐ Reclam	nation	□ Well Integrity
Subsequent Report	Casing Repair	☐ New Construction	n 🗇 Recom	plete	⊠ Other
☐ Final Abandonment Notice	☐ Change Plans	Plug and Abando	n 🛮 Tempo	rarily Abandon	Production Start-up
·	☐ Convert to Injection	Plug Back	☐ Water 1	Disposal	
following completion of the involved testing has been completed. Final Abdetermined that the site is ready for fir 09/04/2003 Rigged up and tag casing intervals 7612-7616, 76 7761-7771, 7790-7810, 7816-7 at 4 shots per ft.	nal inspection.) gged at 8269'. Run cased 30-7650, 7660-7669, 767 7822, 7832-7842, 7846-76 gpf 17% CCA sour total o //kills string. RIH w/ GC29	hole logs from PBTD 82 77-7687, 7690-7717, 772 354, 7867-7937, 7944-79 of 25000 gals. POOH with	269 to 7400. Per 24-7732, 7736-7 946, 7950-7952,	forated 750, 7956-7980	0-4 shall be filed once and the operator has
tubing. Nipple up well head and		/11/2003.			
tubing. Nipple up well head and	true and correct. Electronic Submission # For MARATHO mmitted to AFMSS for proc	24317 verified by the BLM ON OIL COMPANY, sent to bessing by LINDA ASKWK	o the Carlsbad G on 10/20/2003 (04LA0026SE)	
tubing. Nipple up well head and	true and correct. Electronic Submission # For MARATHO mmitted to AFMSS for proc	24317 verified by the BLM ON OIL COMPANY, sent to bessing by LINDA ASKWK	o the Carlsbad G on 10/20/2003 (•	
tubing. Nipple up well head and	true and correct. Electronic Submission #/ For MARATHO mmitted to AFMSS for proc KENDRIX	24317 verified by the BLM DN OIL COMPANY, sent to bessing by LINDA ASKWK Title AU	o the Carlsbad G on 10/20/2003 (04LA0026SE)	
tubing. Nipple up well head and 14. I hereby certify that the foregoing is Con Name (Printed/Typed) CHARLES	true and correct. Electronic Submission #; For MARATHO mmitted to AFMSS for proc KENDRIX ubmission)	24317 verified by the BLM DN OIL COMPANY, sent to bessing by LINDA ASKWIK Title AU Date 10/	o the Carlsbad G on 10/20/2003 (ITHORIZED REI 117/2003 ATE OFFICE U	04LA0026SE) PRESENTATIVE	
tubing. Nipple up well head and 14. I hereby certify that the foregoing is Con Name (Printed/Typed) CHARLES	true and correct. Electronic Submission #; For MARATHO mmitted to AFMSS for proc KENDRIX ubmission)	24317 verified by the BLM DN OIL COMPANY, sent transfer of the AUNDA ASKWK Title AU Date 10/	o the Carlsbad G on 10/20/2003 (ITHORIZED REI	04LA0026SE) PRESENTATIVE	Date 10/21/2003

Form 3160-4

UNITED STATES

FORM APPROVED

August 1999)			DEPAR BUREAL		IT OF T										1004-0137 mber 30, 2000
	WELL (COMPL	ETION C						AND I	LOG			ase Serial MNM030		·
a. Type of	Well	Oil Well	Gas '	Well	Dry	0	Other					6. If	Indian, Al	lottee o	r Tribe Name
b. Type of	f Completion	No Other	rw Well	□ Wo	rk Over	O D	eepen	Plug	Back	☐ Diff	Resvr.	7. U	nit or CA	Agreem 164A	ent Name and No.
	THON OIL C		·		Co		-Mail: ca		@marati	nonoil.co		11	ase Name VDIAN HI	LLS U	
. Address	P O BOX MIDLAND	552 , TX 7970	02				3a. Ph:	Phone No 800.351	o. (includ .1417 E	e area coo ext: 8104	le)	9. Al	PI Weil No		15-32875-00-\$1
	of Well (Re		-		cordance	with Fed	icral requ	uirements))*			10. F	ield and P NDIAN BA	ool, or SIN U	Exploratory PPER PENN ASS
At surfa	ce SENVI rod interval :		83FNL 158		E 4202E	NI 450	REWI					11. S	Sec., T., R. r Arca Se	, M., or 90 28 T	Block and Survey 218 R24E Mer Ni
At total		•	2384FSL 1			INL 130	OFWL						County or I	Parish	13. State NM
4. Date Sp 08/15/2	audded	100 000	15. D		Reached		T	16. Date	A 🔀	ed Ready to	Prod.			(DF, K '02 GL	B, RT, GL)*
8. Total D	epth:	MD TVD	8315 8115		19. Plu	g Back 1	г.D.:	MD TVD		.69 .69	20. De	pth Brid	ige Plug S		MD TVD
	lectric & Oth RALDENSI	er Mechan		un (Sub	mit copy	of cach)				22. Wa Wa	s well core s DST run ectional St	zd? ? srvev?	No No No		s (Submit analysis) s (Submit analysis) s (Submit analysis)
. Casing an	d Liner Reco	ord (Repor	1 all strings	set in w	vell)										
Hole Size	Size/G		Wt. (#/ft.)	To (MI		Sottom (MD)		Comenter epth		of Sks. & of Cemen		y Vol. BL)	Cement	Тор*	Amount Pulled
12.250 8.750		825 K55 000 L80	36.0 23.0		<u> </u>	1210 8315				14	35 05			<u>0</u>	
6.730	,,	OOU LOU	23.0		-	0313	-			1-4-1	-				
	}						╂──								<u> </u>
4. Tubing	Record			<u></u>											
2.875		ID) Pa	cker Depth	(MD)	Size		th Set (M			pth (MID)	Size	De	pth Set (M	(D)	Packer Depth (MD
	ng Intervals				D			tion Reco			6'	т.	1. Y7.1	т—	D-C State
) }	UPPER P	ENN	Тор	7612	Botton 7	980	r	erformed		O 7980	Size	+-	lo. Holes	OPE	Perf. Status
)															Perf. Status N 22232
; <u>) </u>						+-			-			+	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	/3	Ø' <u>)</u>
	acture, Treat	ment, Cem	ent Squeeze	e, Etc.						J		•		16	ママン・ハルリン
	Depth Interva							Ar	nount an	d Type of	Material			19	0010
	76	12 TO 79	BO 36800 G	ALLON	8 17% CC	A SOUP	R							12/27	OCD - ART
														-\&	<u> </u>
															41,
	on - Interval Test	Hours	Test	Oil	Gas	I,	Water	Oil On		To-			14-4-4		1016810
	Date 10/14/2003	Tested 24	Production —	6BL 186.	MCF		2635.0	Corr. /		Gas Grav	rity .	ı	on Method ELECTRIC	PUMP	SUB-SURFACE
•		Cag. Press.	24 Hr. Rate	OII BBL	Gas MCF		Water BBL	Gan;Oi Ratio	1	Wel	Status				
	Si tion - Interva	180.0		188		40	2635			L	POW	AC	CEPI	ED.	FOR RECO
te First	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF		Water BBL	Oll Ger Corr. A		Gas Grav	rlty	roducti			0 2000
*	Tbg. Press. Flwg. Si	Cag. Press.	24 Hr. Rate	Oil BBL	Gas MCF		Water BBL	Gas:Oi Ratio	1	Wei	Status	-	1 00	II 2	0 2003 aes
	ons and space	es for addi	tional data									1	ALEY	Terr	
E 118211 (M.).				ON reve	rse suro:							1			SWOBODA M ENGINEER

28b. Production - Intervention Date First	Hours Tested Press. Rail D Hours Tested Press. Rail D Hours Tested Press. Sold, used for file Zones (Include Zones of porosite th interval tested	at Oduction Bi	BL BL BL BL BL BL BL BL BL BL BL BL BL B	Gas MCF Gas MCF Gas MCF Gas MCF Gas MCF	flowing and a	Oil Gravity Corr. API Gas:Oil Ratio Oil Gravity Corr. API Gas:Oil Ratio	C S S S S S S S S S S S S S S S S S S S	Production Method Production Method Formation (Log) Markers Name Name QUEEN SAN ANDRES SLORIETA (ESO IONE SPRING UBB-	Top Meas. Dep 617 1216 2423 2584 4812 6684
Produced Date Choke Tog. Press. Size Flwg. S1 28c. Production - Interv. Data First Date Choke Tog. Press. Flwg. S1 29. Disposition of Gas/SOLD 30. Summary of Porous Show all important tests, including dept and recoveries. Formation	Tested Press. Cag. 24 Press. Ra Val D Hours Tested Press. Cag. 24 Press. Ras Sold, used for fix Zones (Include zones of porosit th interval tested	at obtaction Bit of the last o	BL BL BL BL BL BL BL BL BL BL BL BL BL B	Ges MCF Ges MCF Ges MCF	Water 9BL Water BBL Water BBL	Corr. API Gas:Oil Ratio Oil Gravity Corr. API Gas:Oil Ratio	Gravity Well Status Cas Gravity Well Status	Production Method Formation (Log) Markers Name DUEEN SAN ANDRES SLORIETA FESO IONE SPRING	Meas. Dep 617 1216 2423 2584 4812 6684
Size Flwg St 28c. Production - Interv Date First Test Produced Osce Choke Tbg. Press. Size Flwg. St 29. Disposition of Gas(SOLD 30. Summary of Porous Show all important tests, including dopt and recoveries.	Press. Ra val D Hours Tested Pre Cag. 24 Press. Ra Sold, used for fix Zones (Include zones of porosit th interval testee	at oduction of the control of the co	Bil Bil Bil Bil Bil Bil Bil Bil Bil Bil	Gas MCF Gas MCF	Water BBL Water BBL stervals and a flowing and s	Oil Gravity Corr. API Gas:Oil Rasio	Gas Gravity Well Status	Name DUEEN SAN ANDRES SLORIETA TESO IONE SPRING	Meas. Dep 617 1216 2423 2584 4812 6684
Date First Produced Dete Produced Dete Press. Choke Tbg. Press. Flwg. St. 29. Disposition of Gas/a SOLD 30. Summary of Porous Show all important tests, including dept and recoveries.	Hours Tested Cag. Press. Sold, used for fix Zones (Include zones of porosit th interval tested	tr. or steel, vented, vented, vented, vented, vented, vented, cashion of the control of the cashion of the cash	BL. . etc.) : tents thereo used, time thereo	Gas MCF	BBL BBL stervals and a flowing and s	Corr. API Gas:Oli Ratio	Gravity Well Status 31. E	Name DUEEN SAN ANDRES SLORIETA TESO IONE SPRING	Meas. Dep 617 1216 2423 2584 4812 6684
Choke Tog. Press. Size Thug. St. 29. Disposition of Gas/SOLD 30. Summary of Porous Show all important tests, including dept and recoveries.	Cag. 24 Press. Rai Sold, used for fi a Zones (Include zones of porosit th interval tested	tr. or steel, vented, vented, vented, vented, vented, vented, cashion of the control of the cashion of the cash	BL. . etc.) : tents thereo used, time thereo	Gas MCF	BBL BBL stervals and a flowing and s	Corr. API Gas:Oli Ratio	Gravity Well Status 31. E	Name DUEEN SAN ANDRES SLORIETA TESO IONE SPRING	Meas. Dep 617 1216 2423 2584 4812 6684
29. Disposition of Gasa SOLD 30. Summary of Porous Show all important tests, including dept and recoveries. Formation	Press. Rai	te Bi	etc.) tents thereoused, time	of: Cored in	atervals and a	Rasio Il drill-stem shut-in pressures	31. F	Name QUEEN SAN ANDRES BLORIETA ("ESO IONE SPRING	Meas. Dep 617 1216 2423 2584 4812 6684
SOLD 30. Summary of Porous Show all important tests, including dept and recoveries. Formation	Zones (Include zones of porosi th interval tested	e Aquifers) ty and cont d, cushion	tents thereo used, time	of: Cored in tool open, i	flowing and a	thut-in pressures	C S S S S S S S S S S S S S S S S S S S	Name QUEEN SAN ANDRES BLORIETA ("ESO IONE SPRING	Meas. Dep 617 1216 2423 2584 4812 6684
30. Summary of Porous Show all important tests, including dept and recoveries. Formation	zones of porosit th interval tested	ty and cont i, cushion op	tents thereo used, time t	of: Cored in tool open, t	flowing and a	thut-in pressures	C S S S S S S S S S S S S S S S S S S S	Name QUEEN SAN ANDRES BLORIETA ("ESO IONE SPRING	Meas. Dep 617 1216 2423 2584 4812 6684
					Description	s, Contents, etc.	S O	QUEEN SAN ANDRES BLORIETA 'ESO IONE SPRING	Meas. Dep 617 1216 2423 2584 4812 6684
UPPER PENN	7:	568	8315				S O	SAN ANDRES SLORIETA 'ESO IONE SPRING	1216 2423 2584 4812 6684
							V	BO VOLFCAMP ISCO PANYON	6876 6954 7568 7784
Additional remarks Inclination Survey Circle enclosed attact	will be sent at	ng procedu later date	rc): • with the i	ogs.	· · · · · · · · · · · · · · · · · · ·	·····			
1. Electrical/Mechan	nical Logs (1 fu	ill set reg'd	l.)	2.	. Geologic R	.eport	3. DST R	keport 4. Di	rectional Survey
5. Sundry Notice for	r plugging and o	cement ven	rification	6.	. Core Analy	eis.	7 Other:		
34. I hereby certify that Name (please print)	Com	Electron mitted to A	ile Subinia For MAI	sion #2397 RATHON	2 Verified b	y the BLM Well ANY, sent to the NDO LOPEZ o	Information S ie Carlsbad in 10/16/2003 (0	•	tructions):
Signature	(Electronic Su	bmission)				Date <u>10/</u>	16/2003	·	

Form 3160-5 UNITED STATES (August 1999)

Approved By

Conditions of approval, if any, are attached. Approval of this notice does not warrant or 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.

FORM APPROVED OMB NO. 1004-0135

Date

(0 ,		PARTMENT OF THE						ember 30, 2000
	SUNDRY	JREAU OF LAND MANA NOTICES AND REPO	ORTS ON WI	ELLS 25	27282	93031	5. Lease Serial No. NM 030482	
Do aba	not use thin Indoned wel	s form for proposals to l. Use form 3160-3 (AF	o drill or to re PD) for such <u>f</u>	-éntér a orposa V	is.		6. If Indian, Allottee or	Tribe Name
SUI	BMIT IN TRII	PLICATE - Other instru	ctions on rev	jerse sie	Tel Lago	.0	7. If Unit or CA/Agree 70964A	ment, Name and/or No.
1. Type of Well Oil Well Ga	as Well Oth	ner	/8	54 O	RECEIVE CD - ART	ESI CO	8. Well Name and No. INDIAN HILLS UN	IT 53
2. Name of Operator MARATHON OIL	COMPANY	Contact:	CHARLES K E-Mail: CEKer	ENDRIX ndrix @ Wy	rathonOil.	coliniy or	9. API Well No. 30-015-32875	
3a. Address P.O. BOX 552 MIDLAND, TX 79	9702		3b. Phone No Ph: 432.68 Fx: 432.68	37.8104	area code)		10. Field and Pool, or INDIAN BASIN	Exploratory UPPER PENN ASSOC
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description	n)				11. County or Parish, a	ind State
Sec 28 T21S R24	4E SENW 13	83FNL 1586FWL					EDDY COUNTY	′, NM
12. C	HECK APPI	ROPRIATE BOX(ES) T	O INDICATE	NATU	RE OF N	OTICE, R	EPORT, OR OTHEI	RDATA
TYPE OF SUBM	ISSION				TYPE OF	ACTION		
☐ Notice of Intent		☐ Acidize	Dee	pen		☐ Product	ion (Start/Resume)	■ Water Shut-Off
☐ Notice of Intent	•	☐ Alter Casing	☐ Frac	cture Tre	at	☐ Reclam	ation	■ Well Integrity
Subsequent Rep	ort	Casing Repair	☐ Nev	w Constru	action	□ Recom	plete	Other
☐ Final Abandonn	nent Notice	Change Plans	☐ Plu	g and Ab	andon	☐ Tempor	arily Abandon	Production Start-up
		Convert to Injection	n 🔲 Plug	g Back		☐ Water I	Disposal	
If the proposal is to d Attach the Bond unde following completion testing has been comp determined that the si 09/04/2003 Rigg casing intervals 7 7761-7771, 7790 at 4 shots per fit PPI new perforate RBP tested to 35	eepen directions of the involved pleted. Final Atte is ready for fined up and ta 7612-7616, 76-7810, 7816-ions with 100 00#. POOH	eration (clearly state all pertinally or recomplete horizontally divided in the operations. If the operation is pandonment Notices shall be final inspection.) gged at 8269'. Run case 630-7650, 7660-7669, 77822, 7832-7842, 7846-0 gpf 17% CCA sour total wikills string. RIH w/ GC and turned to production of	y, give subsurface le the Bond No. o results in a multip filed only after all ad hole logs fro 677-7687, 768 678-7854, 7867-79 1 of 25000 gals 2900 sumersit	e locations in file with the complete requirements om PBTI 90-7717, 937, 794	and measur BLM/BIA. tion or recorents, including D 8269 to 7724-77: 14-7946, 7	red and true we Required sumpletion in a sing reclamation 7400. Perf 32, 7736-77950-7952, packers. F	ertical depths of all pertin bequent reports shall be new interval, a Form 316 n, have been completed, a corated 750, 7956-7980	ent markers and zones. filed within 30 days 0-4 shall be filed once
14. I hereby certify that	the foregoing is	true and correct. Electronic Submission For MARATHO						
Name(Printed/Typed) CHARLES	KENDRIX		Title	AUTHO	RIZED REI	PRESENTATIVE	
Signature	(Electronic S	Submission)		Date	10/17/20	003		
		THIS SPACE F	OR FEDERA	AL OR	STATE (OFFICE II	SE	
							<u> </u>	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

Title

Office

NIVOCD

Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an 27 28 abandoned well. Use form 3160-3 (APD) for such proposals. 5. Lease Serial No. NMNM030482 6. If Indian, Allottee or Tribe Name												
	PLICATE - Other instruc		erse side. T	3//	7. If Unit or CA/Agree NMNM70964A	ment, Name and/or No.						
I. Type of Well ☑ Oil Well ☐ Gas Well ☐ Oth	er	2021	997-2003 RECEIVE	D 20	8. Well Name and No. INDIAN HILLS UN	П 53						
2. Name of Operator MARATHON OIL COMPANY	Contact:	CHARLES E E-Mail: cekend	KENDRIKH L.	SIA e	9. API Well No. 30-015-32875-0	0-S1						
3a. Address P O BOX 552 MIDLAND, TX 79702		3b. Phone No Ph: 800.35 Fx: 915.687	(include area code 1.141,7 Ext: 810 1.8196 (EL CL)	Holes	10. Field and Pool, or I INDIAN BASIN (Exploratory JPPER PENN ASSOC						
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description,				11. County or Parish, a	and State						
Sec 28 T21S R24E SENW Lo	F 1383FNL 1586FWL				EDDY COUNTY	, NM						
12. CHECK APPR	OPRIATE BOX(ES) TO	INDICATE	NATURE OF	NOTICE, R	EPORT, OR OTHER	R DATA						
TYPE OF SUBMISSION			TYPE C	F ACTION								
	☐ Acidize	☐ Dee	pen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off						
Notice of Intent	☐ Alter Casing	☐ Frac	ture Treat	☐ Reclam	_	☐ Well Integrity						
☐ Subsequent Report	Casing Repair	□ Nev	Construction	☐ Recom	plete	Other						
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug	and Abandon	☐ Tempor	arily Abandon	Surface Commingling						
_	Convert to Injection	Plug	Back	☐ Water I	Disposal							
Convert to Injection Plug Back Water Disposal 13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.) Please amend the Indian Basin Field commingle as follows: Production from the Indian Hills Unit 53 is sent to Station 128 Satelite Facility. The production manifold tied to the test and production separators allow for individual well testing of the Indian Hills Unit wells 10, 17, 19, 24, 34, 45, 49 & 53, while production from the remainder of these wells flows to the production separator. After separation, the gas and liquids are handled in the same manner described in the paragraph titled "Station 128 Satelite Facility in the current commingle agreement. I have attached an updated diagram of this facility and copies of this diagram will be sent of you by mail and to the Carlsbad office as well to update their site security diagrams for this facility.												
14. I hereby certify that the foregoing is	Electronic Submission #	ON OIL COMP	ANY, sent to th	e Carlsbad	-							
Name (Printed/Typed) CHARLES	E. KENDRIX		Title AUTH	ORIZED REF	PRESENTATIVE							
Signature (Electronic S	ubmission)		Date 10/22/2	2003								
	THIS SPACE FO	R FEDERA	L OR STATE	OFFICE U	SE							
_Approved By_ALEXIS C SWOBOD			TitlePETROL	EUM ENGIN	EER	Date 10/23/2003						
Conditions of approval, if any, are attached certify that the applicant holds legal or equi which would entitle the applicant to condu	itable title to those rights in the	not warrant or subject lease	Office Carlsba	ad								
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a tatements or representations as	crime for any pe to any matter w	rson knowingly an thin its jurisdiction	d willfully to m	ake to any department or a	agency of the United						

Form 3160-4 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: November 30, 2000

	WELL C	OMPLI	ETION O	R RE	CON	MPLETIC	ON RE	EPORT	AND L	.og			ease Serial I M 030482		
la. Type of	Well	Oil Well	Gas V	Vell	D D	ry 🔲 🤇	Other					6. If	Indian, Alle	ottee o	r Tribe Name
b. Type of	Completion (Ne Other		[] Wo	rk Ove	er 🔲 D	eepen 	☐ Plu	g Back	☐ Diff	. Resvr.		Init or CA A	greem	ent Name and No.
2. Name of MARAT	Operator THON OIL C	OMPANY	,			Contact: C			ORIX @marath	onoil.co	om		ease Name a NDIAN HIL		
3. Address	P.O. BOX MIDLAND)2				3a. Ph	Phone N : 800.35	lo. (include 1.1417 E	area co xt: B104	de)	9. A	PI Well No.		30-015-32875
4. Location	of Well (Rep			d in acc	ordan	ce with Fed	eral req	uirement	s)*			10.	Field and Po	ol, or l	Exploratory PENN ASSOC.
At surfa	ce SENW	Lot F 138	33FNL 158	6FWL								11.	Sec., T., R.,	M., or	Block and Survey
At top p	rod interval r	eported be	low SEN	W Lot	F 138	33FNL 158	6FWL						County or P		21S R24E Mer NMP
At total	depth SEN	W Lot F	2384FSL 1	979FW	/L					_			EDDY	arisn	NM NM
14. Date Sp 08/15/2	oudded 2003			te T.D. /27/200		hed			te Complete k A 23 14/2003	ed Ready t	o Prod.	17.		DF, KI 02 GL	B, RT, GL)*
18. Total D	epth:	MD TVD	8315 8115		19.	Plug Back	Γ.D.:	MD TVD		69 69	20.	Depth Br	idge Plug Se	et:	MD TVD
21. Type E	lectric & Oth RAL DENS			ın (Sub NEUTI	mit co	opy of each) SPECTRA	L GAN	M		22. W	as well c	ored? run? Survey?	No No	O Yes	s (Submit analysis) s (Submit analysis) s (Submit analysis)
23. Casing at	nd Liner Reco	ord (Repor	t all strings	set in w	vell)				<u> </u>	<u></u>	10000111				· · · · · · · · · · · · · · · · · · ·
Hole Size	Size/G	rade	Wt. (#/ft.)	To (MI	•	Bottom (MD)		Cemente Depth		of Sks. & of Cerner		urry Vol. (BBL)	Cement	Гор*	Amount Pulled
8.750		000 L80	23.0				_								
12.250		625 K55	36.0 26.0	-	0		_				935 495		 	<u>0</u> 0	
8.750	<u>'</u>	000 L80	26.0			831	╫─		1	. 14	495				
24. Tubing	Record			L		<u> </u>			<u> </u>				<u> </u>		<u></u>
	Depth Set (N	(D) Pa	cker Depth	(MD)	Si	ze Dep	th Set (MD)	Packer De	pth (MD) Si	ze D	epth Set (M	D)	Packer Depth (MD)
2.875		8209													
25. Produci			T	—т	- D-			ration Re		~~			NI- 11-1	Т	D. C. Cartin
F(Ormation UPPER F	PENN	Тор	7612	БО	7980		<u>гепогаце</u>	d Interval 7612 T	O 7980	Si	ze	No. Holes	OPE	Perf. Status N
B)															
<u>C)</u>													·	<u> </u>	277820
D) 27. Acid, F:	racture, Treat	ment, Cerr	ent Squeeze	, Etc.		L					1			7.0	202128293032
	Depth Interv	al							Amount an	d Type o	of Materi	al	Z	N. T.	*
	76	12 TO 79	80 36800 G	ALLON	S 179	6 CCA SOU	R						/ _{\(\)}	<i>/</i>	25,0003
			-										27.2		POL SING
											_		<u> </u>		OCD - ARTESIA
	ion - Interval													¥.	
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL		Gas MCF	Water BBL		Gravity r. API	Ga Gr	us uvity	Produc	tion Method	13.6	· .
09/14/2003	10/14/2003	24		186.	\rightarrow	740.0	2635						ELECTRIC	PUMP	SUB-SURFACE
Choke Size	Tog. Press. Flwg. 240 SI	Csg. Press. 180.0	24 Hr. Rate	Oil BBL		Gas MCF	Water BBL	Gas: Rati		l w	ell Status PGW				
28a. Produc	tion - Interva								·			. ,,,,,			
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL		Gas MCF	Water BBL		Gravity : AP1	Ga Gr	s avity	Produc	tion Method		
Choke Size	Tog. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL		Gas MCF	Water BBL	Gas: Rati		W	ell Status				

	uction - Interv		T-		<u> </u>	Inc	011 C	To		Production Method		
te First duced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravit	у	Production Method		
oke e	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well :	Status			
8c. Prod	luction - Interv	a) D										
te First educed	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravi	iy	Production Method		
oke te	Tbg. Press. Flwg. Sl	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well :	Status			·
9. Dispo	sition of Gas(Sold, used	for fuel, vent	ed, etc.)								
	nary of Porous	Zones (In	clude Aquife	rs):					31. For	mation (Log) Ma	rkers	
Show tests,	all important	zones of p	orosity and c	ontents then	eof: Cored i e tool open	intervals and a , flowing and s	ll drill-stem thut-in pressures	i		· -		
	Formation		Тор	Bottom		Description	s, Contents, etc.			Name		Top Meas. De
PPER F 32. Addi Inclir	PENN tional remarks nation Survey	(include p	7568	8315	e logs.				SA GL YE BC TU AB WC	JEEN IN ANDRES ORIETA SO SO SO SO SO SO SO SO SO SO SO SO SO		617 1216 2423 2584 4812 6684 6876 6954 7568 7784
1. El 5. St	e enclosed atta lectrical/Mechandry Notice for eby certify that	nical Log or plugging	g and cement oing and attac	verification thed informations	ation is con	972 Verified I	ysis	7 ed from all	ation Sy	e records (see atta	4. Direction	
Name	e(please print)	CHARLE	ES KENDRI)	<u> </u>			Title A	UTHORIZ	ZED REI	PRESENTATIVE	<u> </u>	
Siene	ature	(Electro)	nic Submissi	ion)			Data 1	0/16/2003				



McVAY DRILLING COMPANY

Post Office Box 924 Hobbs, New Mexico 88241 (505) 397-3311

FAX: 39-DRILL

Well Name and Number: Indian Hills Unit #53

Location: Sec. 23, T21S, R24E

Operator: Marathon

Drilling Contractor: McVay Drilling Company

The undersigned 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
1/4	235	12 ¾	3312	16 1/4	6513
1/2	481	14 1/2	3597 ·	17 1/2	6735
1/4	721	13 1/2	3787	14 ¾	7053
1/4	969	13 ¾	4639	13 1/2	7148
1/4	1151	12 ¾	4831	13 ¾	7371
1/4	1227	13 1/4	5053	12 ¾	7612
4 1/4	1480	11 1/4	5345	13	7812
14 1/4	1862	11 1/2	5627	11 ¾	7939
14 ¾	2057	11 1/4	5880	11 %	8129
13 1/4	2493	12	6134	13 1/4	8240
12 3/4	2842	14 ¾	6324		
13 1/4	3028	16	6451		

Drilling Contractor: McVay Drilling Company

Subscribed and sworn to before me this 2/5t day of

2003

My Commission Expires: 8/64

Lea County, New Mexico



N A U T I C A L (V e r s i o n Well: Indian Hills Unit 53 Closure Direction:

Target Azimuth: 164.55 Target TVD: 8199

Calculation Method - Minimum Curvature

			ou.	June			_, _			_ \%	OCD
Measur	Inclination	n Azimuth	True	Vertical	North/	East/	Closure	Build	Waik	Dogleg,	o_Tool
Depth	(deg.)	(deg.)	vertical	Section	South	West	(ft)	Rate	Rate	Severity	
(ft)	(408.)	(303.)	Depth (ft)	(ft)	(ft)	(ft)		(deg/ft)	(deg/ft)	(d/100')	(deg) 91 ;
0.	0.0	0.00	0.00	0.00	0.00	0.00	<===== T	ie-in	Data		
235.	00 0.2	5 64.00		-0.09	0.22	0.46	0.51	0.001	0.272		MSS
481.				-0.05	0.55	1.80	1.88	0.001	0.081		MSS
724.				0.57	0.24	2.99	3.00	-0.001	0.226		MSS
969.				1.00	0.03	3.84	3.84	0.000			MSS
1,150.			•	0.96	0.17	4.21	4.21	-0.001	0.000		MSS
1,222.			•	1.00	0.16	4.33	4.34	0.003			MWD
1,293.				1.35	-0.15	4.52	4.53	0.004			MWD
1,354				2.77	-1.58	4.69	4.94	0.028			MWD
1,416			-	5.74	-4.60	4.88	6.71	0.019			MWD
1,480			-	9.97	-8.87	5.32	10.34	0.014			MWD
1,544			-	15.55	-14.46	6.07	15.68 23.04	0.023			MWD
1,608. 1,671.			-	23.03 32.49	-21.99 -31.51	6.90 7.96	23.04 32.50		0.023 -0.017		MWD MWD
1,735				44.15	-43.18	9.51	32.30 44.21	0.030			MWD
1,798				57.44	-56.38	11.62	57.56				MWD
1,862			•	72.54	-71.27	14.42	72.72				MWD
1,926				88.58	-87.03	17.62	88.79				MWD
1,988			-	104.37	-102.56	20.74	104.63				MWD
2,052				120.78	-118.72	23.82	121.09				MWD
2,114			-	136.72	-134.42	26.88	137.08				MWD
2,178			•		-150.52	30.52	153.58				MWD
2,239			•		-165.32	34.48	168.88				MWD
2,303			-	184.07	-180.24	38.82	184.37				MWD
2,366			•	199.36	-194.90	43.19	199.62				MWD
2,430			•	214.72	-209.56	47.81	214.94				MWD
2,493			-	229.35	-223.42	52.56	229.52				MWD
2,556	.00 13.9	0 160.90	2,528.31	244.13	-237.41	57.44	244.26	0.010	0.005	0.96	MWD
2,651	.00 13.6	0 163.70	2,620.58	266.69	-258.91	64.31	266.78	-0.003	0.029	0.77	MWD
2,747	.00 13.5	0 166.50	2,713.91	289.17	-280.64	70.09	289.26	-0.001	0.029	0.69	MWD
2,842		0 165.10	2,806.40	310.86	-301.67	75.41	310.95	-0.006	-0.015	0.72	MWD
2,937			2,898.87	332.63	-322.68	81.14	332.72	0.007	-0.007	0.76	MWD
3,028			**		-343.03	86.95	353.88				MWD
3,123				376.13	-364.45	93.28	376.20				MWD
3,218			•	398.62	-385.93	99.97	398.67				MWD
3,312			-		-405.95	107.21	419.87				MWD
3,407			•		-425.76	115.24	441.08				MWD
3,502			•		-446.78	124.13	463.70				MWD
3,597			•		-468.79	133.36	487.38				MWD
3,692			-		-490.87	141.24	510.78				MWD
3,787 3,883			-		-512.71	146.83	533.32				MWD
3,977			•		-533.90	151.74	555.04				MWD
4,069					-553.94	157.39	575.87				MWD
4,164					-573.75 -594.80	163.64 170.36	596.63 618.72				MWD
4,259											MWD
4,354			•		-616.03 -637.07	176.49 182.07	640.81 662.58	-0.005 0.001			MWD MWD
4,449					-658.41	187.51	684.59				MWD
4,544					-679.79	193.38	706.76				MWD
4,639			•		-701.26	200.09	729.25				MWD
4,735					-722.24	206.73					MWD
4,831					-742.49	212.65	772.34				MWD
4,925			•		-762.44	218.89	793.23				MWD
5,021			-		-782.68	226.38	814.77				MWD

AUTICAL (Version

Well: Indian Hills Unit 53

Target Azimuth: 164.55 Target TVD: 8199

Closure Direction: 165

Calculation Method - Minimum Curvature

Measured Depth (ft)	Inclination (deg.)	(deg.)	True Vertical Depth (ft)	Vertical Section (ft)	North/ South (ft)	East/ West (ft)	Closure (ft)	Build Rate (deg/ft)	Walk Rate (deg/ft)	Dogleg Severity (d/100')	Tool Face (deg)
5,053.00	13.20	157.80	4,957.22	821.94	-789.44	229.09	822.01	0.003	-0.022	0.59	MWD
5,154.00	13.50	154.60	5,055.49	845.01	-810.77	238.51	845.12	0.003	-0.032	0.79	MWD
5,250.00	12.30	157.40	5,149.07	866.19	-830.33	247.24	866.36	-0.013	0.029	1.41	MWD
5,345.00	11.20	161.60	5,242.08	885.45	-848.43	254.04	885.65	-0.012	0.044	1.47	MWD
5,439.00	11.10	164.80	5,334.31	903.61	-865.82	259.30	903.82	-0.001	0.034	0.67	MWD
5,502.00	11.30	169.40	5,396.11	915.83	-877.74	262.02	916.02	0.003	0.073	1.45	MWD
5,565.00	11.60	170.40	5,457.85	928.28	-890.05	264.21	928.44	0.005	0.016	0.57	MWD
5,627.00	11.50	170.80	5,518.60	940.62	-902.30	266.24	940.76	-0.002	0.006	0.21	MWD
5,690.00	11.30	172.20	5,580.36	952.98	-914.62	268.08	953.10	-0.003	0.022	0.54	MWD
5,754.00	11.20	171.80	5,643.13	965.36	-926.98	269.82	965.45	-0.002	-0.006	0.20	MWD
5,816.00	11.20	171.80	5,703.95	977.31	-938.90	271.54	977.38	0.000	0.000	0.00	MWD
5,880.00	11.30	172.90	5,766.72	989.68	-951.27	273.20	989.73	0.002	0.017	0.37	MWD
5,943.00	12.00	176.40	5,828.42	1,002.19	-963.94	274.37	1,002.22	0.011	0.056		MWD
6,006.00	11.90	177.10	5,890.05	1,014.94	-976.96	275.11	1,014.96	-0.002	0.011	0.28	MWD
6,070.00	12.00	176.70	5,952.67	1,027.89	-990.19	275.83	1,027.89	0.002			MWD
6,134.00	12.00		6,015.27	•	-1,003.47	276.71	1,040.92	0.000			MWD
6,196.00			6,075.90	1,053.65	-1,016.36	277.84	1,053.65	0.002			MWD
6,260.00			6,138.30	1,067.71	-1,030.50	279.44	1,067.72	0.023			MWD
6,324.00	14.80		6,200.34	1,083.29	-1,046.01	281.83	1,083.32	0.019		2.24	MWD
6,387.00			6,261.18	1,099.58	-1,062.13	284.65	1,099.61	0.008			MWD
6,451.00	16.00		6,322.81	1,116.73	-1,079.18	287.32	1,116.78	0.011	0.022	1.24	MWD
6,513.00			6,382.38	1,133.81	-1,096.17	289.98	1,133.88	0.003	-0.023		MWD
6,576.00	16.80		6,442.78	•	-1,113.76	293.23	1,151.72	0.010	-0.027	1.22	MWD
6,671.00	17.10		6,533.66	1,179.29	-1,140.63	299.84	1,179.38	0.003			MWD
6,735.00	17.40		6,594.78	1,198.26	-1,158.81	305.28	1,198.35	0.005	-0.011	0.57	MWD
6,799.00			6,655.94	-	-1,176.85	310.85	1,217.21	-0.008			MWD
6,862.00			6,716.37	1,234.91	-1,193.92	315.83	1,234.98	-0.016			MWD
6,926.00			6,777.91	1,252.49	-1,210.93	320.28	1,252.57	0.002			MWD
6,989.00			6,838.51	1,269.70	-1,227.55	324.73	1,269.78	-0.005			MWD
7,053.00			6,900.25	1,286.58	-1,243.88	329.01	1,286.66	-0.013			MWD
7,116.00			6,961.25	1,302.27	-	332.34	1,302.36	-0.014			MWD
7,180.00			7,023.46	1,317.24	-1,274.08	334.86	1,317.35	-0.013			MWD
7,244.00			7,085.69	1,332.06	-1,288.86	336.99	1,332.19	0.009			MWD
7,307.00			7,146.90	1,346.86	-1,303.64	339.07	1,347.01	-0.003	0.006		MWD
7,371.00			7,209.09	1,361.80	-1,318.63	340.93	1,361.99	0.002			MWD
7,434.00			7,270.34	1,376.34	-1,333.32	342.36	1,376.57	-0.005			MWD
7,497.00			7,331.61	1,390.71	-1,347.93	343.42	1,390.99	0.002	0.017		MWD
7,559.00			7,392.03	1,404.32	-1,361.79	344.38	1,404.66	-0.018	-0.011		MWD
7,621.00			7,452.55	1,417.58	-1,375.21	345.60	1,417.97	0.005	-0.029		MWD
7,684.00			7,513.95	1,431.55	-1,389.21	347.40	1,431.98	0.008	-0.038		MWD
7,748.00			7,576.31	1,445.89	-1,403.31	350.21	1,446.35	-0.006	-0.087		MWD
7,812.00	13.00		7,638.69	•	-1,417.13	353.82	1,460.63	0.003	-0.017		MWD
7,875.00	12.70		7,700.12		-1,430.59	357.70	1,474.63	-0.005	-0.029		MWD
7,939.00			7,762.67		-1,443.48	361.81	1,488.13	-0.016			MWD
8,002.00	11.30		-		-1,455.31	366.02	1,500.63	-0.006			MWD
8,066.00			. ,		-1,466.96	370.79	1,513.10	0.002			MWD
8,129.00 8,193.00			7,948.86 8,011.38		-1,478.53 -1,490.90	376.07	1,525.61	0.008			MWD
8,240.00					-1,490.90	381.95	1,539.04	0.014			MWD
8,300.00	13.70		8,057.17 8,115.52		-1,500.40	386.57 392.97	1,549.40 1,563.01	0.009	-0.023		MWD
0,000.00	13.70	102.00	0, 110.02	1,002.02	1,012.01	382.87	1,503.01	0.008	-0.025	1.02	htol

1383'FUL +1513' 2896 FNC

Page 2/2

10/3/2003

District 1 1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy, Minerals & Natural Resources

Form C-104 Revised March 25, 1999

District II

OIL CONSERVATION DIVISION 2040 South Pacheco

Submit to Appropriate District Office

811 South First, Artesia, NM 88210

District III 1000 Rio Brazos Re	d Anton Nil	M 97410				M 8750					5 Copies
District IV	u., Azec, N	WI 8/410		Janta	10,11		,5			Пам	ENDED REPORT
2040 South Pachec											
1.	REQ				AN	<u>D AUT</u>	HORIZ/	ATIO	N TO TRA	NSPOR	
		•	perator name an	d Address					,	אנושאו כואטא	per
Marathon O	_	αy							3.5	014021	
P.O. Bost 5									, Re	son for Filin	·
Midland, T	PI Number		Γ		-	5 Pool Nar	TIE		L	MEM METS	6 Pool Code
30-0 30	0-015-32	07E		INDIAN BASI	N 77794	es Demi	3000	m 7%	5 7000		22505
	perty Code	6/3	<u> </u>	TURNIN PHOT		Property N		a) Gaz	POLE	_	33685 9 Well Number
	6409				IND	IAN HILL	s unit				53
10	Surface	Locatio	n								
UL or lot no.	Section	Township	Range	Lot. Idn	Feet fre	om the	North/South	Line	Feet from the	East/West	line County
7	28	21-S	24-E		,	.383	NORT	EL .	1586	WEST	EDDX
11	Bottom	Hole L	ocation								
UL or lot no.	Section	Township	Range	Lot. Idn	Feet fr	om the	North/South	Line	Feet from the	East/West	line County
K	28	21-8	24-B			2384	SOUT		1979	WEST	RODY
12 Lse Code		ng Method C		Connection Date	1 5	С-129 Реги	nit Number		C-129 Effective I	Date '	⁷ C-129 Expiration Date
F YYY O'I I		MPING		/14/2003				<u> </u>			
III. Oil and	Gas Ir		ers ransporter Nam		-	20 POD	21	O/G	22 PO	D ULSTR La	cation
OGRID			and Address							and Descripti	
138648	AMO	O PIPEL	INE TRUCKS			28163	23	0117	TT 1170 CTA		m 21 / m 24 m
	767616722	n. West			33.2				LOT 12	FIUN 19,	T-21-S, R-24-E
20088888888888 1			EX 79336			38880298	\$66500000000000000000000000000000000000	255555E			
14035		O. BOX 1	L COMPANY		885	28232	13	CAS 2005588		TON 19,	T-21-S, R-24-E
	882288		88211-13	24					LOT 12		
											18910
456000000000000000000000000000000000000	\$5000 \$5000 \$5000 \$5000				5555					2456	189101172
3855555555555555555	200000				2588	5000000000	000000000000000000000000000000000000000	2500000		/.v	1/C -
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					0000			00000 00004		<u>ه</u>	By 32, Q2
IV. Produc	ed Wat	<u>er</u>			24	POD III C	TR Location a	and Dec	rintion	8 8	**************************************
							IN LOCATION (mu Des	міфион	103	16 ⁹ /
V. Well Co			", SECTION	19, T-21-8	, R-2	4-B				<u></u>	200000
25 Spud Dat			ady Date	27 *	TD		28 PBTD	,	²⁹ Perfort	tions	30 DHC, MC
08/15/2003		09/14/2	003	8315		82	69		7612-798	0	
	le Size			ng & Tubing Size	:		33 Depti	n Set			cks Cement
<u> </u>	_					1 .					
1	2-1/4			9~5/8"		7	121				835 SX
	3.75"			7 P			831				495 SX
											A33 SA
VI. Well T	est Data	a		2-7/8"			820	13.	L		· · · · · · · · · · · · · · · · · · ·
35 Date New		36 Gas Deli	very Date	37 Test Date	e	38 7	Test Length		39 Tbg. Pressure	• [40 Csg. Pressure
09/14/20	103	09/14	/2003	10/14/20	201		24 HRS		240		180
41 Choke Size		42 Oi		43 Water			¹⁴ Gas		⁴⁵ AOF		46 Test Method
		18	16	740		\	2635				PUMPING
⁴⁷ I hereby certify complied with and	that the rule	s of the Oil	Conservation D	ivision have been	the I	AKT		CON	SERVATIO	N DIVIS	
best of my knowle		ef.	,	•		Approved by					
<u>'</u>	rache	S. 1	tendas	<u> </u>				•	sem a	· Mi	m upewisor
Printed name: Charles E.	Kendris	£				Title:			Kie	truts	Expervisor
Title:					1	Approval Da	ite:			OCT	2 8 2003
Brineer T		n	Phone:		- 1	<u>-</u> -					
	/2003	ator 61 - 41	43	2-687-8104 ber and name of the	<u> </u>						
- u uma is a cha	wife or ober	ator IIII III (II)	こくらんさい かりかん	ocrains traine of the	не ргечк	ous operator	r .				/ 1

Printed Name

Previous Operator Signature

Form 3160-5 (August 1999)

Notice of Intent

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

NMOCD

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

☐ Water Shut-Off

☐ Well Integrity

Expires: November 30, 2000

5. Lease Serial No.

☐ Production (Start/Resume)

☐ Reclamation

NMNM030482 SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA/Agreement, Name and/or No. NMNM70964A SUBMIT IN TRIPLICATE - Other Instructions on reverse side. 1. Type of Well 8. Well Name and No. **INDIAN HILLS UNIT 53** Oil Well Gas Well Other API Well No. 30-015-32875-00-\$1 **CHARLES KENDRIX** Name of Operator MARATHON OIL COMPANY E-Mail: CEKENDRIX@MARATHONOIL.COM 3b. Phone No. (include area code) Ph: 713-296-2096 10. Field and Pool, or Exploratory INDIAN BASIN UPPER PENN ASS 3a. Address P O BOX 3487 HOUSTON, TX 77253 RECEIVED 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. County or Parish, and State Sec 28 T21S R24E SENW Lot F 1383FNL 1586FWL EDDY COUNTY, NM JAN 1-0 2005 QQD:ABTESIA 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION

□ Deepen

☐ Fracture Treat

Indian Hills Unit # 53 is a directionally drilled Upper Penn Asoc.gas well wheefs: 7612' to 7980'(MD). Marathon intends to squeeze off current perfs.w/ approx 150 sks of cement, and cut a window in the 7" casing at appox. 7810'. Then drill a 4.75" horizontal lateral to a new TL-of 800' FSL & 2050' FWL of same section and producing interval. This will be an Open Hole completion. Please see attached C-102 and directional plan.

☐ Acidize

Alter Casing

14. I hereby certify t	hat the foregoing is true and correct. Electronic Submission #52644 verified For MARATHON Oil. COMP Committed to AFMSS for processing by ARI	ANY, £	ent to the Carisbad	
Name (Printed/Ty	ped) MIKE MICK	Title	AUTHORIZED REPRESENTATIVE	
Signature	(Electronic Submission)	Date	01/05/2005	
	THIS SPACE FOR FEDERA	VL OR	STATE OFFICE USE	
Approved By ALE	XIS C SWOBODA WOO	TitleF	ETROLEUM ENGINEER	Date 01/06/20
Conditions of approval certify that the applicar	, if any, are attached. Approval of this notice does not warrant or at holds legal or equitable title to those rights in the subject lease applicant to conduct operations thereon.	Office	Carlsbad	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aziec, NM 87410

12 Dedicated Acres

320 8/2

13 Joint or Infili

State of New Mexico Energy, Minerals & Natural Resources

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

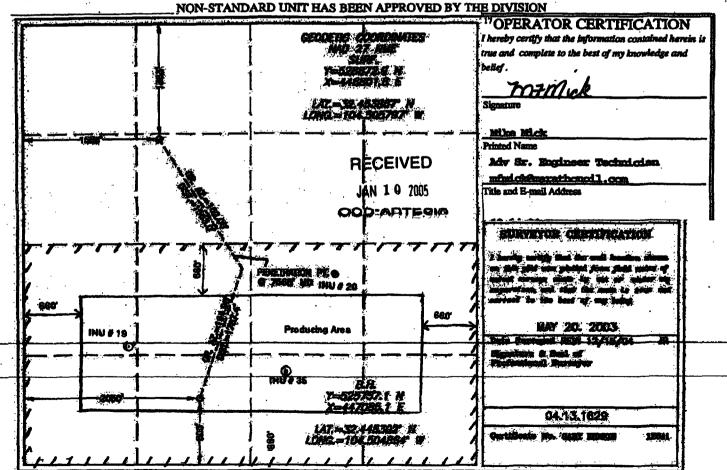
Form C-102

District IV AMENDED REPORT 1220 S. St. Francis Dr., Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code ¹ API Number 33685 30-015-32875 INDUNE BASIN UPPER PERM ASSOCIATED ⁵ Property Name 6 Well Number Property Code 6409 indian hitle unit Operator Name Elevation OCERID No. 4021 accethon Oil Company 3702 ¹⁰Surface Location Feet from the North/South line Feet from the Rest/West lin Township Range County UL or lot no. 1383 Morth 1586 21-S 24-E Mest EIN 28 **Bottom Hole Location If Different From Surface** Lot. Idn North/South line East/West lin County Township Feet from the Peet from the Section UL or lot no. 1001 South 20501 Bidy 21-8 24-E

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A

15 Order No.

14 Consolidation Code



Marathon Oil Company Indian Hills Unit #53

slot #1 INDIAN BASIN Eddy County New Mexico

PROPOSAL LISTING

by Baker Hughes INTEQ

Your ref : Plan 1 Borizontal Our ref : prop4417 License :

Date printed : 8-Dec-2004 Date created : 8-Dec-2004 Last revised : 8-Dec-2004

Field is centred on 445535.500,521332.200,-105.00000,N Structure is centred on 446801.800,528872.900,-105.00000,N

Slot location is n32 27 13.917,w104 30 20.874
Slot Grid coordinates are N 528872.900, E 446801.800
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is Grid North

Marathon Oil Company Indian Hills Unit #53, slot #1 INDIAN BASIN, Eddy County New Maxico

PROPOSAL LISTING Page 1 Your ref : Plan 1 Horizontal Last revised : 8-Dec-2004

Measured	Inclin	Azimuth	True Vert	RECTAN	GULAR Dogle	Vert	GRID COORDS
Depth	Degrees	Degrees	Depth	COORDI	NATES Deg/100	ft Sect	Easting Northing
7748.00	12.80	165.90	7576.31	1403.305	350.24E 0.00	1422.93	447152.04 527469.60
7810.00	12.80	165.90	7636.77	1416.625	353.59E 0.00	1436.44	447155.39 527456.28
7900.00	53.52	182.07	7710.64	1464.548	354.76E 45.93	1484.34	447156.56 527408.36
7986.08	92.93	185.48	7735.00	1545.148	349.19E 45.93	1564.41	447150.99 527327.76
8000.00	92.93	185.48	7734.29	1558.988	347.86E 0.00	1578.13	447149.66 527313.92
8100.00	92.93	185.48	7729.18	1658.398	338.33E 0.00	1676.73	447140.13 527214.51
8200.00	92.93	185.48	7724.07	1757.815	328.79E 0.00	1775.32	447130.59 527115.09
8300.00	92.93	185.48	7718.96	1857.22S	319.26E 0.00	1873.91	447121.06 527015.68
8400.00	92.93	185.48	7713.85	1956.635	309.72E 0.00	1972.51	447111.52 526916.27
8500.00	92.93	185.48	7708.74	2056.04S	300.18E 0.00	2071.10	447101.98 526816.86
8600.00	92.93	185.48	7703.62	2155.465	290.64E 0.00	2169.69	447092.44 526717.44
8700.00	92.93	185.48	7698.51	2254.875	281.11E 0.00	2268.29	447082.91 526618.03
8800.00	92.93	185.48	7693.39	2354.285	271.57E 0.00	2366.88	447073.37 526518.62
8900.00	92.93	185.48	7688.28	2453.695	262.03E 0.00	2465.47	447063.83 526419.21
9000.00	92.93	185.48	7683.16	2553.11S	252.49E 0.00	2564.06	447054.29 526319.79
9100.00	92.93	185.48	7678.04	2652.525	242.95E 0.00	2662.66	447044.75 526220.38
9200.00	92.93	185.48	7672.93	2751.935	233.41E 0.00	2761.25	447035.21 526120.97
9300.00	92.93	185.48	7667.81	2851.345	223.87E 0.00	2859.84	447025.67 526021.56
9400.00	92.93	185.48	7662.69	2950.768	214.33E 0.00	2958.43	447016.13 525922.14
9500.00	92.94	185.48	7657.57	3050.175	204.78E 0.00	3057.02	447006.58 525822.73
9550.13	92.94	185.48	7655.00	3100.00S	200.00E 0.00	3106.44	447001.80 525772.90

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid Presented by Baker Hughes INTEQ

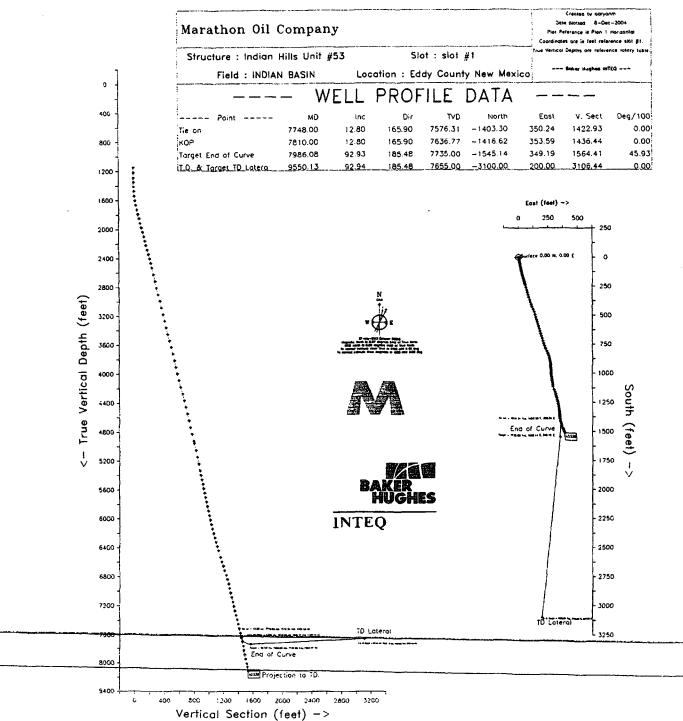
Marathon Oil Company Indian Hills Unit \$53,8lot \$1 INDIAN BASIN,Eddy County New Mexico PROPOSAL LISTING Page 2 Your ref : Plan 1 Horizontal Last revised : 8-Dec-2004

Comments in wellpath

C C 하면 된 다른 나는 다른 도로를 보고 무지하는데,										
MD	TVD	Rectangular (Coords.	Comment						
7986.08	7735.00	1545.148	•	End of Curve						
9550.13	7655.00	3100.00S	200.00E	TD Lateral						

Targets associated with this wellpath

Target name	Geographic Location		Rectangular		Revised
End of Curve		7735.00	1545.148	349.19E	8-Dec-2004
TD Lateral		7655.00	3100.008	200.00E	8-Dec-2004



Azimuth 176.31 with reference 0.00 S, 0.00 E from slot #1