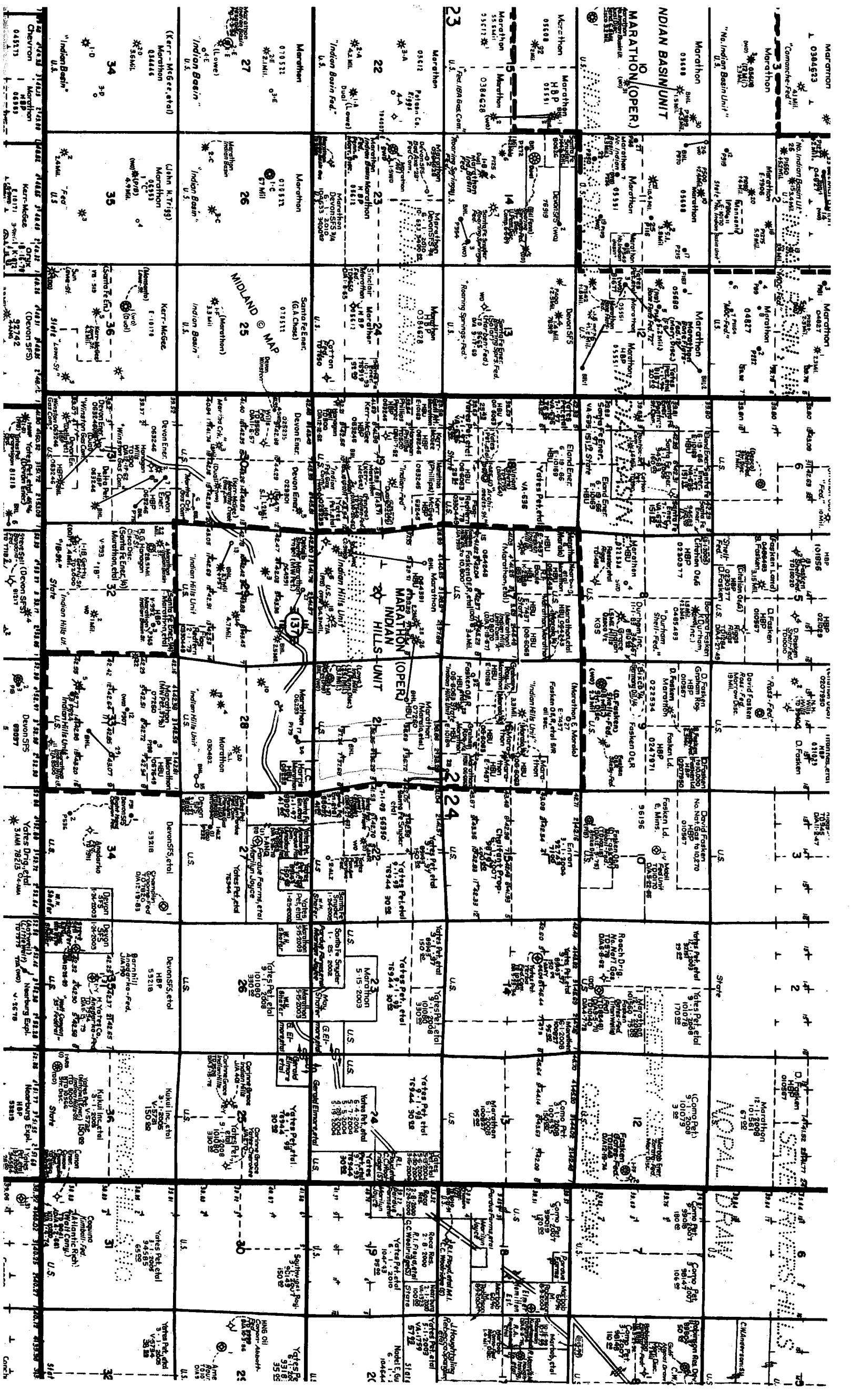


Sec : 21 Twp : 21S Rng : 24E Section Type : NORMAL

D 40.00 Federal owned U	C 40.00 Federal owned U	2 38.26 Federal owned U	1 38.29 Federal owned U
E 40.00 Federal owned U	F 40.00 Federal owned U	3 36.69 Federal owned U	4 36.72 Federal owned U
L 40.00 Federal owned U	K 40.00 Federal owned U	6 36.35 Federal owned U	5 36.29 Federal owned U
M 40.00 Federal owned U A A A A	N 40.00 Federal owned U	7 37.74 Federal owned U	8 37.68 Federal owned U

7 298.02 acres





pKRV0-216135512

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

BETTY RIVERA

Cabinet Secretary

June 18, 2002

Lori Wrotenbery

Director

Oil Conservation Division

Marathon Oil Company
P. O. Box 552
Midland, Texas 79702-0552
Attention: K. W. Tatarzyn

Administrative Order NSL-4750 (BHL) (SD)

Dear Mr. Tatarzyn:

Reference is made to the following: (i) your application filed with the New Mexico Oil Conservation Division ("Division") on June 7, 2002 (*Division application reference No. pKRV0-216135512*); (ii) the Division's records in Santa Fe; and (iii) Mr. Walter Dueease's meeting in Santa Fe with Mr. Michael E. Stogner, Chief Hearing Officer/Engineer with the Division in Santa Fe on May 20, 2002: 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, 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 its proposed Indian Hills Unit Well No. 45 to be drilled as a infill well to an unorthodox subsurface location within an existing standard 298.02-acre spacing and proration unit comprising Lots 1 through 8 (E/2 equivalent) of Section 21, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico.

This unit is currently simultaneously dedicated to Marathon's:

- (i) Indian Hills Unit Well No. 24 (API No. 30-015-31266), located on the surface 685 feet from the North line and 2073 feet from the East line (Unit B) of Section 28, 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 Lot 6 (NW/4 SE/4 equivalent - Unit J) of Section 21; and
- (ii) Indian Hills Unit Well No. 28 (API No. 30-015-31267), located on the surface 218 feet from the South line and 660 feet from the East line (Unit P) of Section 16, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico, and completed within the Indian Basin-Upper Pennsylvanian Associated Pool at a standard sub-surface location within Lot 2 (NW/4 NE/4 equivalent - Unit B) of Section 21.

It is our understanding the proposed Indian Hills Unit Well No. 45, because of topographic reasons, will be spud at a surface location 806 feet from the North line and 1010 feet from the East line

(Unit B) of Section 28, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico, an directionally drilled to the north to a targeted-bottomhole location at an approximate depth 8,300 feet (TVD) 339 feet from the South line and 1148 feet from the East line (Lot 8/Unit P) of Section 21. The well bore will intersect the top of the Upper-Pennsylvanian interval at an approximate depth of 7,400 feet (TVD) 100 feet from the South line and 1119 feet from the East line (Lot 8/Unit P) of Section 21. The proposed well will be unorthodox in that the entire producing interval will be closer then the standard setback distance of 660 from the South line of Section 21. This bottomhole 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. 45 within the E/2 equivalent of Section 21 is hereby approved.

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

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. 24, 28, and 45. Furthermore, Marathon is permitted to produce the allowable assigned the subject 298.02-acre spacing and proration unit from all three 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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Conservation District 2
1301 W. Grand Avenue
Artesia, NM 88210

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

LEASE DESIGNATION AND SERIAL NO.

NM 06 293A

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

2. NAME OF OPERATOR

Marathon Oil Company 14021

3. ADDRESS AND TELEPHONE NO.

P.O. Box 552 Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

806' FNL & 1010' FEL

At proposed prod. zone

Same as above 339' 5" 1148' 8" Sec 21 per SN

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15 miles NW of Carlsbad

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest dir. unit line, if any) 806'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

1100'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED TO THIS WELL

320

19. PROPOSED DEPTH

9600'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3654' G.L.

22. APPROX. DATE WORK WILL START*

ASAP

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12.25"	9-5/8" K-55	36#	1200'	440 sks.
8.750"	7" K-55	23# 26#	9600'	1280 sks.

Carlsbad Controlled Water Basin

Marathon is proposing to drill a Straight hole w/ Upper Penn/ Morrow BHL targets.

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

NSL-4750CBHL (SB)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Greg Fletcher

TITLE Engineer Tech.

DATE 2/22/02

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval 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.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

/s/ JOE G. LARA

TITLE

FIELD MANAGER

DATE

JUN 04 2002

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, 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.

APPROVAL FOR 1 YEAR

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 abandoned well. Use Form 3160-3 (APD) for such proposals.

Oil Cons.
N.M. Div. Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

Case Serial No.
NM-08255-A
Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Marathon Oil Company

3a. Address
P.O. Box 552 Midland, TX 79702

3b. Phone No. (include area code)
915-687-8357

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface in Section 28 T-21-S, R-24-E 806' FNL & 1010' FEL
BHL in Section 21, T-21-S, R-24-E 339' FSL & 1148' FEL
Eddy Co. N.M.

N/A

7. If Unit or CA/Agreement, Name and/or No.
Indian Hills Unit

8. Well Name and No.
Indian Hills Unit 45

9. API Well No.

10. Field and Pool, or Exploratory Area
Indian Basin U. P. Assoc.

11. County or Parish, State
Eddy N.M.

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other _____
☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ 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 recompleate 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 recompleation 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 final site is ready for final inspection.)

Marathon Oil Company is proposing to drill the Indian Hills Unit # 45 to a directional NON STANDARD Upper Penn Assoc. BHL target.

Please see attached new C-102 acreage dedication plat and the directional plan survey.

The casing and cementing program remains unchanged at this time.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Jerry Fletcher

Title

Engineer Tech.

Date 5/16/02

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/s/ JOE G. LARA

Title

FIELD MANAGER

Date

JUN 04 2002

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.

Office

CARLSBAD FIELD OFFICE

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



Marathon Oil Company

Structure : INDIAN HILLS UNIT 45

Slot : slot #1

Field : INDIAN BASIN

Location : Eddy County New Mexico

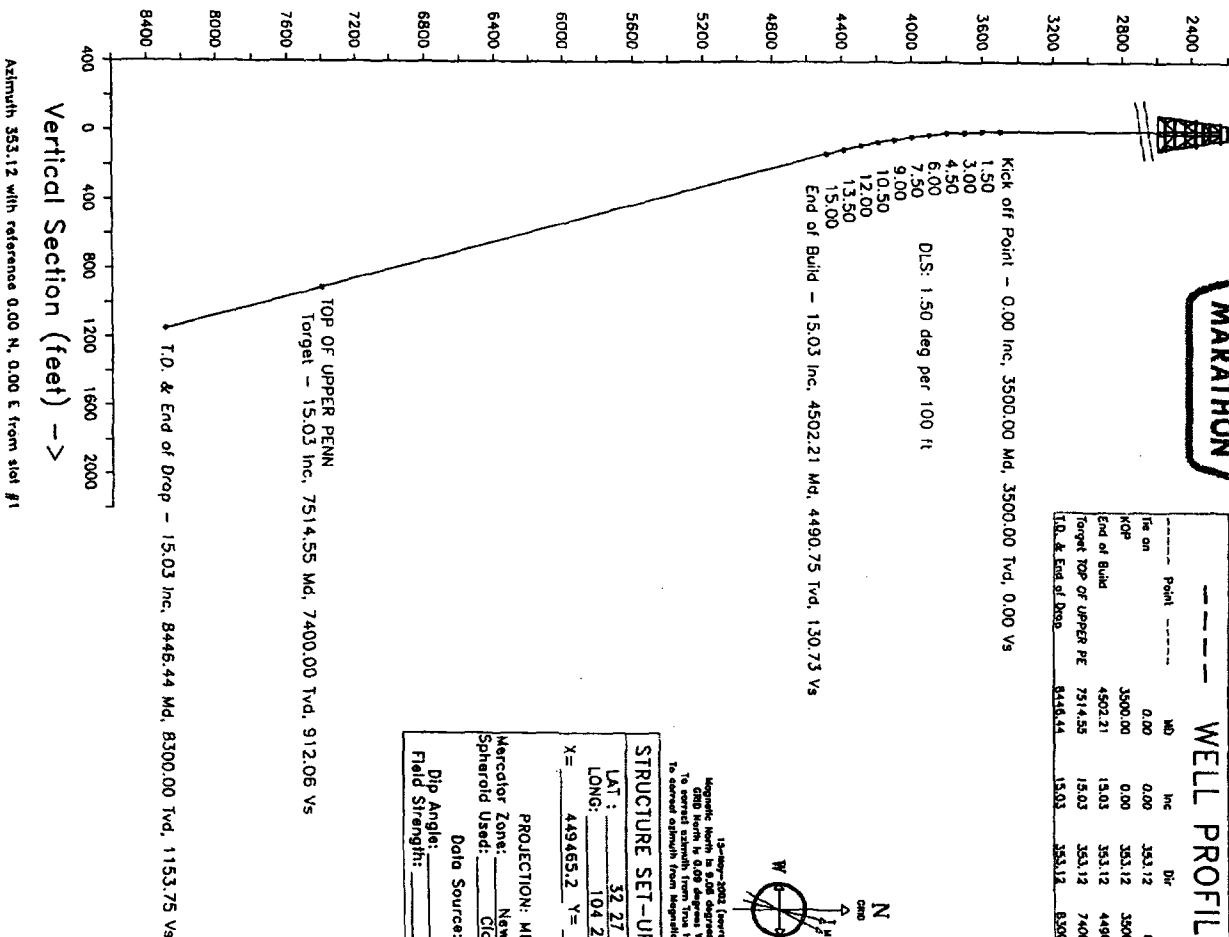
WELL PROFILE DATA

Point	MD	Inc	Dip	TVD	North	East	V. Sect	Deg/100
Run on	0.00	0.00	353.12	0.00	0.00	0.00	0.00	0.00
KCP	3500.00	0.00	353.12	3500.00	0.00	0.00	0.00	0.00
End of Build	4502.21	15.03	353.12	4490.75	128.78	-15.65	130.73	1.50
Target TOP OF UPPER PE	7514.55	15.03	353.12	7400.00	805.50	-109.20	912.06	0.00
T.D. & End of Drop	8446.44	15.03	353.12	8300.00	1145.45	-138.13	1153.75	0.00

Created By Kellym
Date posted: 16-May-2002
Plot Reference is PO 2D RH.
Coordinates are in feet reference slot #1.
True Vertical Depths are reference rotary table.
IHU/45
Baker Hughes INTEQ

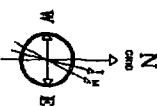
Approved By: _____
Title: _____
Date: _____

< - True Vertical Depth (feet)



16-May-2002 (revise 0004)
Magnetic North is 2.0 degrees East of True North
GDT is 1.50 degrees East of True North
To convert azimuth from Magnetic to GDT add 8.17 deg

STRUCTURE SET-UP REFERENCE	
LAT : 32.27 19.812	N
LONG: 104.29 49.8	W
X = 449465.2	Y = 529464.4
PROJECTION: MERCATOR	
Mercator Zone: New Mexico East	
Spheroid Used: Clarke - 1866	
Data Source: BGM	
Dip Angle: 60.46	deg
Field Strength: 49633.54	nT



T.D. & End of Drop - 8300.00 Tvd, 1145.45 N, 138.13 W
TOP OF UPPER PENN
Target - 7400.00 Tvd, 905.50 N, 109.20 W

< - West (feet)



Vertical Section (feet) ->

Azimuth 353.12 with reference 0.00 N, 0.00 E from slot #1

INTEQ



Marathon Oil Company
INDIAN HILLS UNIT 45

slot #1
INDIAN BASIN
Eddy County New Mexico

P R O P O S A L L I S T I N G

by
Baker Hughes INTEQ

Your ref : P0 2DJ RH
Our ref : prop3294
License :

Date printed : 16-May-2002
Date created : 15-May-2002
Last revised : 16-May-2002

Field is centred on n32 30 0.000,w104 30 0
Structure is centred on 449465.200,529464.400,999.00000,N

Slot location is n32 27 19.812,w104 29 49.800
Slot Grid coordinates are N 529464.400, E 449465.200
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 45, slot #1
INDIAN BASIN, Eddy County New Mexico

PROPOSAL LISTING Page 1
Your ref : P0 2DU RH
Last revised : 16-May-2002

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	G R I D Eastings	C O O R D S Northing
0.00	0.00	353.12	0.00	0.00N	0.00E	0.00	449465.20	529464.40 <i>Surface</i>
500.00	0.00	353.12	500.00	0.00N	0.00E	0.00	449465.20	529464.40
1000.00	0.00	353.12	1000.00	0.00N	0.00E	0.00	449465.20	529464.40
1500.00	0.00	353.12	1500.00	0.00N	0.00E	0.00	449465.20	529464.40
2000.00	0.00	353.12	2000.00	0.00N	0.00E	0.00	449465.20	529464.40
2500.00	0.00	353.12	2500.00	0.00N	0.00E	0.00	449465.20	529464.40
3000.00	0.00	353.12	3000.00	0.00N	0.00E	0.00	449465.20	529464.40
3500.00	0.00	353.12	3500.00	0.00N	0.00E	0.00	449465.20	529464.40
3600.00	1.50	353.12	3599.99	1.30N	0.16W	1.50	449465.04	529465.70
3700.00	3.00	353.12	3699.91	5.20N	0.63W	1.50	449464.57	529469.60
3800.00	4.50	353.12	3799.69	11.69N	1.41W	1.50	449463.79	529476.09
3900.00	6.00	353.12	3899.27	20.77N	2.51W	1.50	449462.69	529485.17
4000.00	7.50	353.12	3998.57	32.44N	3.91W	1.50	449461.29	529496.84
4100.00	9.00	353.12	4097.54	46.69N	5.63W	1.50	449459.57	529511.09
4200.00	10.50	353.12	4196.09	63.50N	7.66W	1.50	449457.54	529527.90
4300.00	12.00	353.12	4294.16	82.87N	9.99W	1.50	449455.21	529547.27
4400.00	13.50	353.12	4391.70	104.78N	12.64W	1.50	449452.56	529569.18
4500.00	15.00	353.12	4488.62	129.22N	15.58W	1.50	449449.62	529593.62
4502.21	15.03	353.12	4490.75	129.79N	15.65W	1.50	449449.55	529594.19
5000.00	15.03	353.12	4971.50	257.97N	31.11W	0.00	449434.09	529722.37
5500.00	15.03	353.12	5454.39	386.73N	46.64W	0.00	449418.56	529851.13
6000.00	15.03	353.12	5937.28	515.48N	62.17W	0.00	449403.03	529979.88
6500.00	15.03	353.12	6420.17	644.24N	77.69W	0.00	449387.51	530108.64
7000.00	15.03	353.12	6903.06	773.00N	93.22W	0.00	449371.98	530237.40
7500.00	15.03	353.12	7385.94	901.75N	108.75W	0.00	449356.45	530366.15

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1153.75 on azimuth 353.12 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 353.12 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Marathon Oil Company
 INDIAN HILLS UNIT 45, slot #1
 INDIAN BASIN, Eddy County New Mexico

PROPOSAL LISTING Page 2
 Your ref : PO 2DJ RH
 Last revised : 16-May-2002

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
7514.55	15.03	353.12	7400.00	905.50N	109.20W	0.00	912.06	449356.00
8446.44	15.03	353.12	8300.00	1145.45N	138.13W	0.00	1153.75	449327.07

530369.90 Top of upper Penn.
 530609.85 T.D.

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

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1153.75 on azimuth 353.12 degrees from wellhead.

Vertical section is from N 0.00 E 0.00 on azimuth 353.12 degrees.

Grid is mercator - New Mexico East (3001).

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

Presented by Baker Hughes INTEQ

Marathon Oil Company
INDIAN HILLS UNIT 45, slot #1
INDIAN BASIN, Eddy County New Mexico

PROPOSAL LISTING Page 3
Your ref : P0 2DJ RH
Last revised : 16-May-2002

			Comments in wellpath	
			=====	
MD	TVD	Rectangular Coords.	Comment	
7514.55	7400.00	905.50N	109.20W	TOP OF UPPER PENN

Targets associated with this wellpath				
=====				
Target name	Geographic Location		T.V.D.	Rectangular Coordinates
TOP OF UPPER PENN	449356.000	530369.900	-925596	7400.00
			905.50N	109.20W
				15-May-2002

DISTRICT I
P.O. Box 1900, Hobbs, NM 88241-1900

DISTRICT II
P.O. Drawer 80, Artesia, NM 88211-0710

DISTRICT III
1000 Rio Grande Rd., Aztec, NM 87410

DISTRICT IV
P.O. Box 8088, Santa Fe, N.M. 87504-8088

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
	33685	Indian Basin Upper Penn. Assoc. Pool
Property Code	Property Name	Well Number
	INDIAN HILLS UNIT	45
OGED No.	Operator Name	Elevation
14021	MARATHON OIL COMPANY	3654'

Surface Location

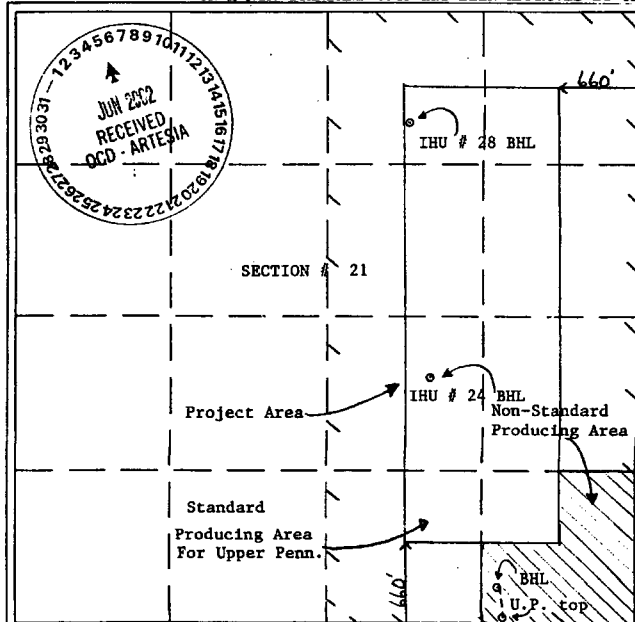
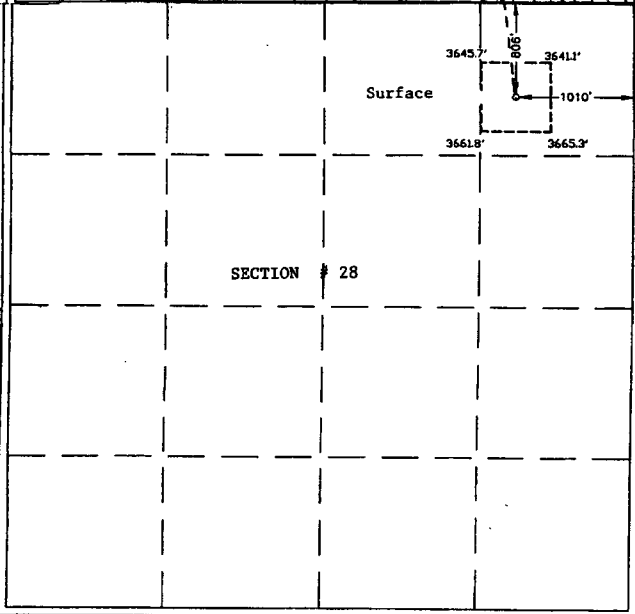
UL or lot No.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
A	28	21-S	24-E		806	NORTH	1010	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
P	21	21-S	24-E		339	SOUTH	1148	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320 E/2	298.02		

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

	OPERATOR CERTIFICATION I hereby certify the information contained herein is true and complete to the best of my knowledge and belief. <i>Jerry Fletcher</i> Signature Jerry Fletcher Printed Name Engineer Tech. Title 5/16/02 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JANUARY 29, 2002 Date Surveyed Signature & Seal of Professional Surveyor Professional Surveyor 02.11.0088 Certificate No. RONALD J. EDSON 3239 CARY EDSON 12841
	

DISTRICT I
P.O. Box 1988, Hobbs, NM 88241-1988

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
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0710

OIL CONSERVATION DIVISION
P.O. Box 2088

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

Santa Fe, New Mexico 87504-2088

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 33685	Pool Name Indian Basin Upper Penn. Assoc.
Property Code	Property Name INDIAN HILLS UNIT	Well Number 45
OGRID No. 14021	Operator Name MARATHON OIL COMPANY	Elevation 3654'

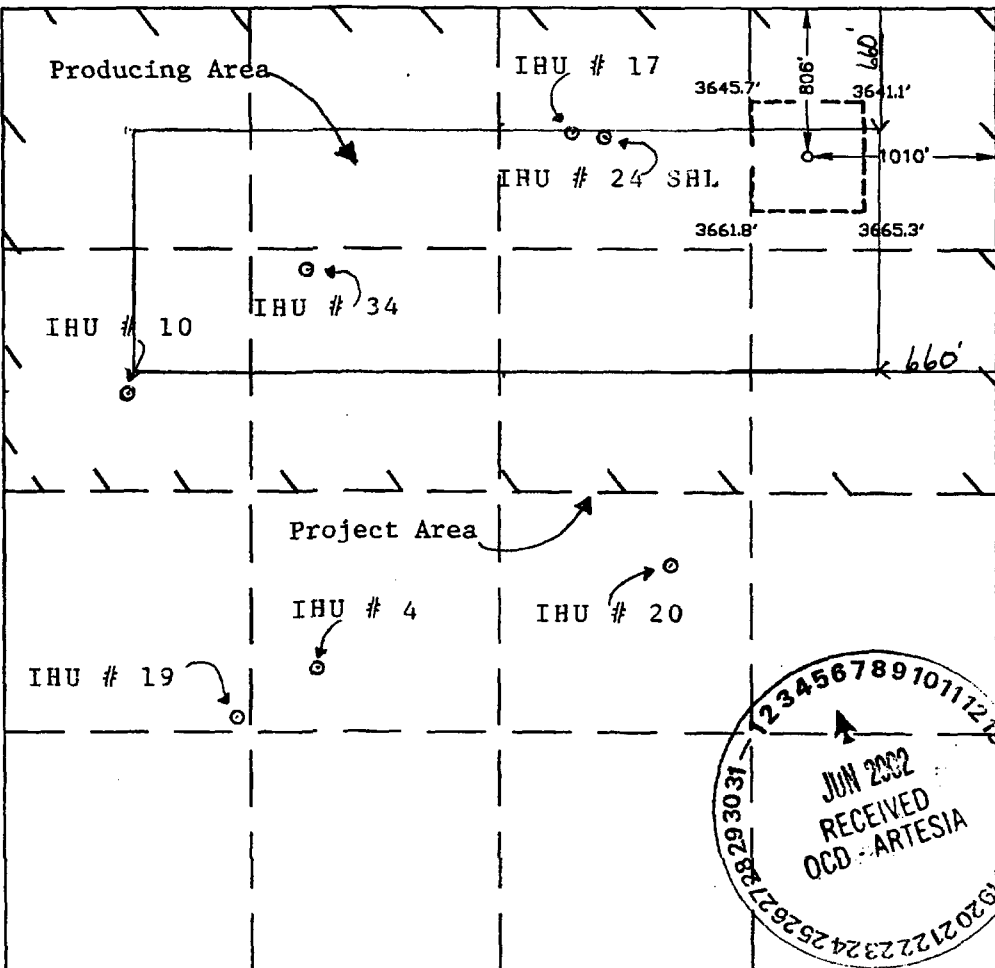
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	21-S	24-E		806	NORTH	1010	EAST	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
Dedicated Acres 320 N/2	Joint or Infill	Consolidation Code	Order No.						

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

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Jerry Fletcher</i> Signature Jerry Fletcher Printed Name Engineer Tech. Title 2/20/02 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JANUARY 29, 2002 Date Surveyed Signature & Seal of Professional Surveyor RONALD E. EDSON 02.11 0089 9/31/02 Certificate No. RONALD E. EDSON 3239 GARY E. EDSON 12641
--	--

DISTRICT I
P.O. Box 1988, Hobbs, NM 88241-1988

DISTRICT II
P.O. Drawer 88, Artesia, NM 88211-0719

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

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
	78960	Indian Basin Morrow Gas Pool
Property Code	Property Name	Well Number
	INDIAN HILLS UNIT	45
OGRID No.	Operator Name	Elevation
14021	MARATHON OIL COMPANY	3654'

Surface Location

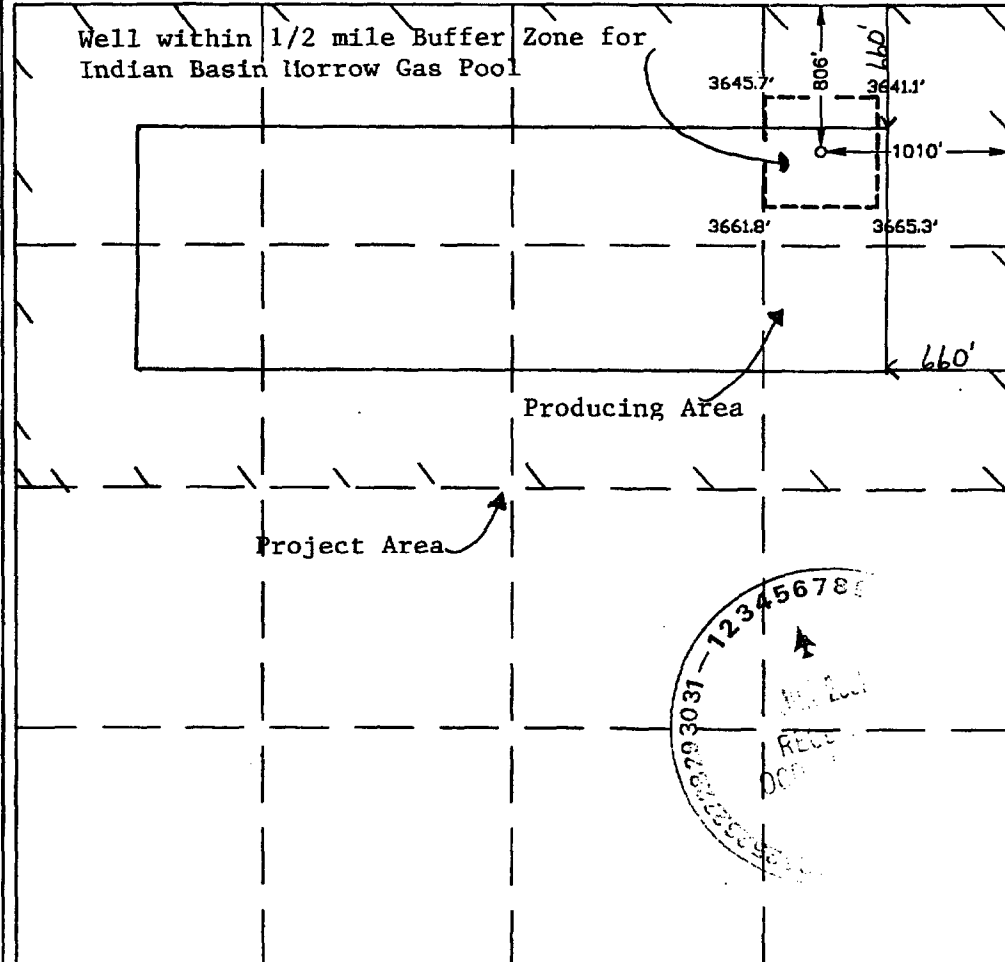
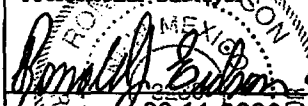
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	21-S	24-E		806	NORTH	1010	EAST	EDDY

Bottom Hole Location If Different From Surface

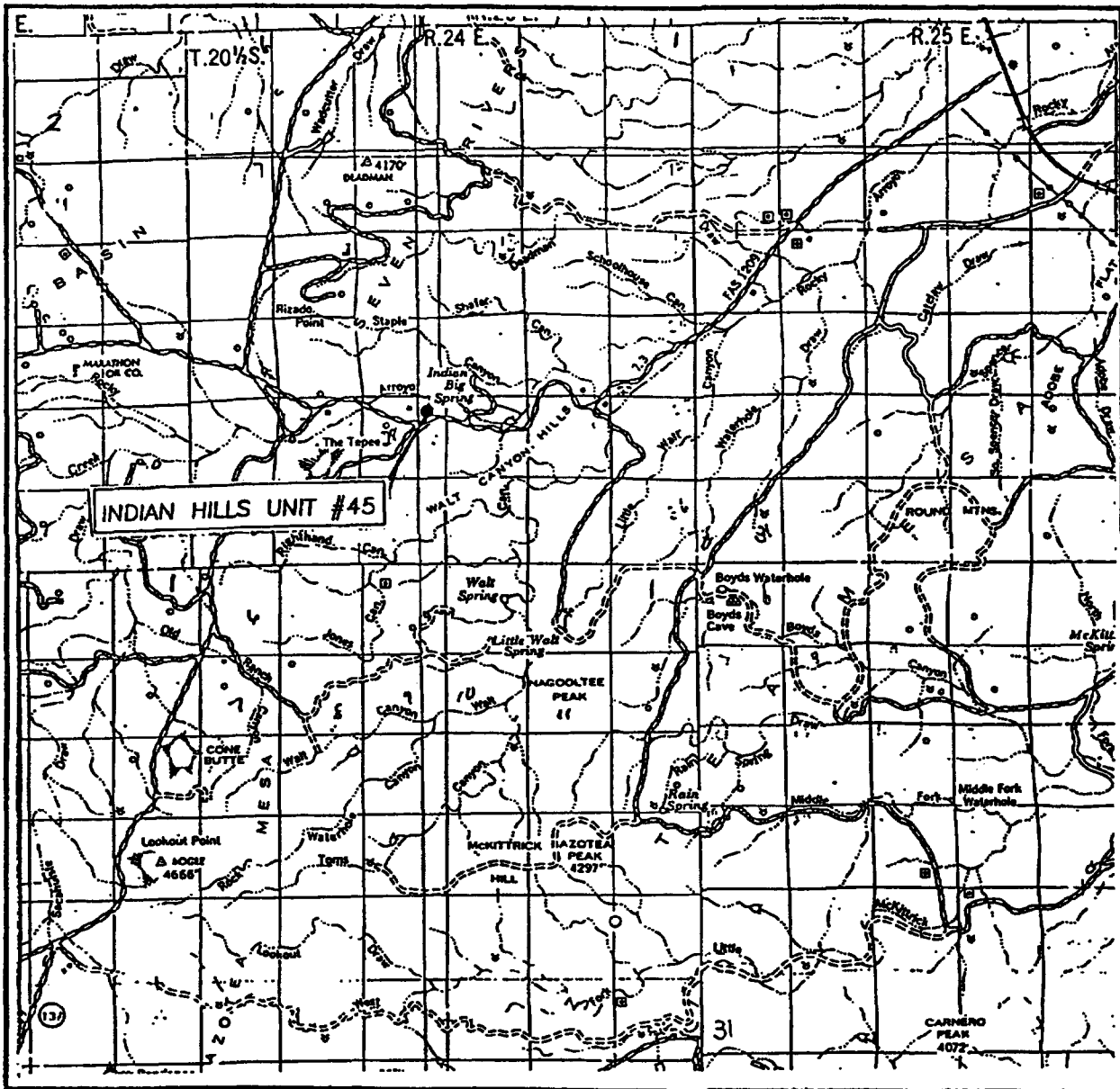
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320 N/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

Well within 1/2 mile Buffer Zone for Indian Basin Morrow Gas Pool  Producing Area Project Area	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  Signature Jerry Fletcher Printed Name Engineer Tech. Title 2/20/02 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JANUARY 29, 2002 Date Surveyed AWB Signature & Seal for Professional Surveyor  Ronald J. Edson 9/31/02 02.11.0089 Certificate No. RONALD J. EDSON 3239 GARY EDSON 12641
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VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 28 TWP. 21-S RGE. 24-E
 SURVEY N.M.P.M.
 COUNTY EDDY
 DESCRIPTION 806' FNL 1010' FEL
 ELEVATION 3654'
 OPERATOR MARATHON OIL COMPANY
 LEASE INDIAN HILLS UNIT

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

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

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

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 806' ENL 1010' FEL

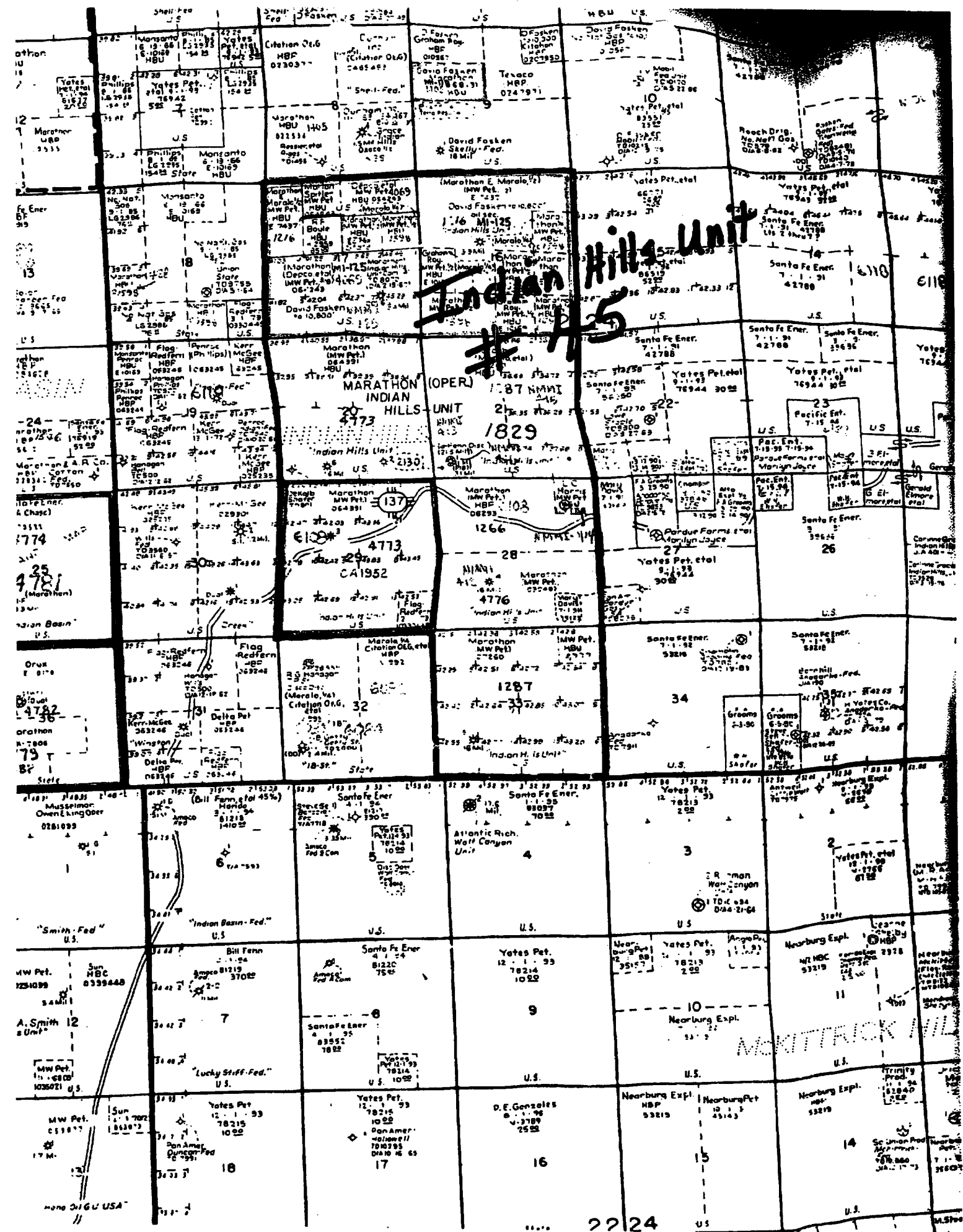
ELEVATION 3654'

OPERATOR MARATHON OIL COMPANY

LEASE INDIAN HILLS UNIT

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

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



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Oil Cons.
N.M. Div-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

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 abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Marathon Oil Company

3a. Address
P.O. Box 552 Midland, TX 79702

3b. Phone No. (include area code)
915-687-8357

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL- Sec. 28, T-21-S, R-24-E 806' FNL & 1010' FEL
BHL- Sec. 21, T-21-S, R-24-E 339' FSL & 1148' FEL
Eddy Co. N.M.

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA/Agreement, Name and/or No.
Indian Hills Unit

8. Well Name and No.
Indian Hills Unit # 45

9. API Well No.
30-015-32338

10. Field and Pool, or Exploratory Area
Indian Basin

11. County or Parish, State
Eddy N.M.

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ 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 recomplate 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 recomplate 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 final site is ready for final inspection.)

Please see attached Subsequent report to form 3160-5 for End of Well report.

ACCEPTED FOR RECORD

AUG 15 2002

ALEXIS C. SWOBODA
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Jerry Fletcher

Title

Engineer Tech.

Date 8/9/02

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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.

Office

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

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 45
 Common Well Name: INDIAN HILLS UNIT NO. 45
 Event Name: ORIGINAL DRILLING
 Contractor Name: MCVAY DRILLING
 Rig Name: MCVAY DRILLING

Start: 7/20/2002
 Rig Release: Group:
 Rig Number: 4

Spud Date: 7/20/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/23/2002					MIRU	Location: 806' FNL & 1010' FEL, Section 28 T-21-S, R-24-E (Surface). X: 449,465.2 Y: 529,464.4 100' FSL & 1100' FEL, Section 28T-21-S,R-24-E (UP top, 7430 TVD) X: 449,356.0 Y: 530,369.9 340' FSL & 1128' FEL, Section 28 T-21-S, R-24-E (BHL, 8215' TVD) X: 449,327.1 Y: 530,609.9 API #: 30-015-32338 Location built by Sweatt & pit lined by Mesquite. Rig moved by Billy Walker Trucking on 7/15/02. McVay sent drawworks in for repairs. McVay performed repairs & maintenance work while waiting on drawworks to be repaired in shop. Recieved drawworks from machine shop on Saturday afternoon 7/20/02. 7/21/02 MIRU Rig & equipment. Made adjustments to drawworks & raised derrick.
	08:00 - 17:30	9.50	Rig	MIRU	MIRU	R/U equipment on ground, floor & derrick. P/U kelly, mousehole & rathole. Had problems getting mousehole down. Re-fab & installed flowline to existing surface stack. Serviced, inspected & repaired misc. equipment. Started inspecting drillstring. Roustabout gang worked on poly lines & water pumping system to pump water from IHU's 35, 22, & 20. Hammer bit will be on location in morning.
7/24/2002	07:30 - 09:00	1.50			MIRU	Pre-job meeting. P/U BHA- 12-1/4" hammer bit. Install rotating rubber. Build air pressure & check lines for leaks.
	09:00 - 19:30	10.50	Drill	HAMR	DRLSUR	Spud 12-1/4" hammeer bit w/ air @ 09:00 CST. Hit water at 230' w/ appx. 2-4 BPM water in returns @ 2500 - 3400 SCFM air rate.
	19:30 - 19:45	0.25	Surv	TOTC	DRLSUR	W/L @ 389' / 0 degrees
	19:45 - 03:30	7.75	Drill	HAMR	DRLSUR	Air drill w/ appx. 3-4 BPM water in returns. Penetration rate slowed to 24 ft./ hr. during last 2 hrs. of drilling.
	03:30 - 04:30	1.00	Trip	BHA	DRLSUR	TOH to L/D hammer bit.
	04:30 - 06:00	1.50	Trip	BHA	DRLSUR	Break down BHA. Load out hammer bit assembly w/ 2 buttons broke off hammer bit (bit in good cond.). Start picking up new BHA.
7/25/2002	06:00 - 08:15	2.25	Trip	BIT	DRLSUR	TIH w/ 12 1/4" bit w/ reamer & shock sub.
	08:15 - 15:45	7.50	Drill	AIR	DRLSUR	Drill w/ 12 1/4" bit w/ air.
	15:45 - 16:00	0.25	Surv	TOTC	DRLSUR	Wireline survey.
	16:00 - 21:00	5.00	Drill	AIR	DRLSUR	Drill w/ 12 1/4" bit w/ air. Buster pump quit
	21:00 - 21:30	0.50	Rig	RCNT	DRLSUR	Worked on buster pump. No way to repair buster pump till morning.
	21:30 - 00:00	2.50	Drill	DOH	DRLSUR	Started #2 pump & swithed to fluid.
	00:00 - 00:45	0.75	Circ	FILL	DRLSUR	Drill w/ 12 1/4" bit w/ fluid to surface T.D. @ Midnight .
	00:45 - 02:30	1.75	Trip	BIT	DRLSUR	POOH Pumped down hole then sweep hole w/ heavy vis pill before coming out of hole.
	02:30 - 05:30	3.00	Csg	RUN	CSGSUR	POOH L/D 12 1/4" reamer, 8" collar, shock sub, & 12 1/4" bit.
	05:30 - 06:00	0.50	Circ	HOLE	CSGSUR	R/U caser's. Held safety meeting. Run 27 jt's 9 5/8" casing 36# to T.D..
7/26/2002	06:00 - 06:30	0.50	Cemt	PRIM	CSGSUR	Tacking btm 3 jt's. Tagged btm @ 1210'. Cir.
	06:30 - 08:30	2.00	Cemt	PRIM	CSGSUR	Cir well while having safety meeting w/ Halliburton.
	08:30 - 09:45	1.25	Cemt	TJOB	CSGSUR	R/U Halliberton & tested line to cement.
	09:45 - 12:45	3.00	Wait	CEMT	CSGSUR	Pumped 500sk's Nitrofiied cement, tailed by 150 sks liquid cement. Plug down @ 0715 A.M. Did not cir.
	12:45 - 15:00	2.25	BOPwhd	DBOP	CSGSUR	Pumped 500 sks nitrofiied cement down back side, capped w/ 75 sks cement. Shut-in.
						Waited on cement.
						Check pressure on back side. None. Picked up stack & cut 9 5/8" csg.
						Pulled surface stack. Cut conductor pipe. Checked on cement on backside. Tagged solid cement 8' down.

Marathon Oil Company

Operations Summary Report

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Legal Well Name: INDIAN HILLS UNIT NO. 45
 Common Well Name: INDIAN HILLS UNIT NO. 45
 Event Name: ORIGINAL DRILLING
 Contractor Name: MCVAY DRILLING
 Rig Name: MCVAY DRILLING

Spud Date: 7/20/2002
 End:
 Rig Release:
 Group:
 Start: 7/20/2002
 Rig Number: 4

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/26/2002	15:00 - 17:00	2.00	BOPwhd	UWLH	CSGSUR	Weld on C-22 9 5/8" SOW 11" X 3M Surface head.
	17:00 - 22:00	5.00	NuNd	UWLH	CSGSUR	N/U BOP stack w/ Hydril, chock manifold, & hooked up flowline.
	22:00 - 05:30	7.50	Test	EQUI	CSGSUR	R/U tester. Test BOP equipment. R/D Tester
7/27/2002	05:30 - 06:00	0.50	Trip	BBHD	CSGSUR	Picking up PHA w/ 8 3/4" bit.
	06:00 - 07:30	1.50	Trip	BIT	CSGSUR	Finish picking up PHA & TIH w/ 8 3/4" bit to 1173'.
	07:30 - 08:00	0.50	Test	CSG	CSGSUR	Test casing w/ rig pump to 1000 PSI.
	08:00 - 09:30	1.50	Drill	PLUG	CSGSUR	Drill out float collar & cement to 1189'
	09:30 - 10:00	0.50	Test	CSG	CSGSUR	Test shoe jt w/ rig pump to 1000 PSI. Drill out rest of cement.
	10:00 - 11:00	1.00	Drill	DOH	DRLPR	Drill w/ 8 3/4" bit w/ fluid till PHA was bured below shoe jt.
	11:00 - 11:15	0.25	Drill	AIR	DRLPR	Blew casing clean from fluid.
	11:15 - 13:45	2.50	Drill	AIR	DRLPR	Drill w/ 8 3/4" bit w/ air. Running 50 to 55 thousand on bit.
	13:45 - 14:15	0.50	Surv	TOTC	DRLPR	Ran wireline survey. BOP drill.
	14:15 - 20:30	6.25	Drill	AIR	DRLPR	Drill w/ air w/ 8 3/4" bit. Running 40 to 45 thousand on bit.
	20:30 - 20:45	0.25	Surv	TOTC	DRLPR	Ran wireline survey. BOP drill.
	20:45 - 04:30	7.75	Drill	AIR	DRLPR	Drill w/ air w/ 8 3/4" bit. Running 40 to 45 thousand on bit.
	04:30 - 04:45	0.25	Surv	TOTC	DRLPR	Ran wireline survey.
	04:45 - 06:00	1.25	Drill	AIR	DRLPR	Drill w/ air w/ 8 3/4" bit. Running 45 thousand on bit.
7/28/2002	06:00 - 11:00	5.00	Drill	AIR	DRLPR	Drill w/ air w/ 8 3/4" bit w/ 55 thousand on bit.
	11:00 - 11:30	0.50	Surv	TOTC	DRLPR	W.L.S. & BOP drill.
	11:30 - 15:30	4.00	Drill	AIR	DRLPR	Drill w/ air w/ 8 3/4" bit w/ 55 thousand on bit.
7/29/2002	15:30 - 16:00	0.50	Rig	RCNT	DRLPR	Changed out 2" air line that was leaking between stand pipe & compressors.
	16:00 - 18:15	2.25	Drill	AIR	DRLPR	Drill w/ air w/ 8 3/4" bit. w/ 55 thousand on bit.
	18:15 - 18:30	0.25	Surv	TOTC	DRLPR	W.L.S. & BOP drill.
	18:30 - 00:00	5.50	Drill	AIR	DRLPR	Drill w/ air w/ 8 3/4" bit w/ 55 thousand on bit.
	00:00 - 00:15	0.25	Surv	TOTC	DRLPR	W.L.S. & BOP drill.
	00:15 - 06:00	5.75	Drill	AIR	DRLPR	Drill w/ air w/ 8 3/4" bit w/ 50 thousand on bit.
	06:00 - 07:00	1.00	Drill	AIR	DRLPR	Drill w/ air w/ 8 3/4" bit w/ 55 thousand # on bit.
	07:00 - 07:30	0.50	Surv	TOTC	DRLPR	W.L.S. & BOP drill.
	07:30 - 14:30	7.00	Drill	AIR	DRLPR	Drill w/ air w/ 8 3/4" bit w/ 55 thousand # on bit.
	14:30 - 14:45	0.25	Surv	TOTC	DRLPR	W.L.S.
	14:45 - 16:30	1.75	Drill	AIR	DRLPR	Drill w/ air w/ 8 3/4" bit w/ 55 thousand # on bit.
	16:30 - 17:15	0.75	Circ	FILL	DRLPR	Switched over to fluid & condition hole.
	17:15 - 19:15	2.00	Trip	BHA	DRLPR	TOOH to change out BHA.
	19:15 - 21:30	2.25	Trip	BBHD	DRLPR	L/D PHA. & picked up new BHA. Motor w/ new 8 3/4" bit.
	21:30 - 00:00	2.50	Trip	BIT	DRLPR	TIH w/ bit, motor, teleco, monel, thruster w/ jars.
	00:00 - 00:30	0.50	Circ	HOLE	DRLPR	Broke cir to reserve pit.
	00:30 - 03:30	3.00	WireLn	RURD	DRLPR	R/U Baker & Run gyro. R/D Baker.
	03:30 - 03:45	0.25	Circ	CLN	DRLPR	Orienta tool.
	03:45 - 04:15	0.50	Drill	DOHS	DRLPR	Slide.
	04:15 - 05:15	1.00	Drill	DOHR	DRLPR	Rotate
	05:15 - 05:30	0.25	Circ	FILL	DRLPR	Conn.
	05:30 - 06:00	0.50	Drill	DOHS	DRLPR	Slide.
7/30/2002	06:00 - 06:45	0.75	Drill	DOHR	DRLPR	Rotate
	06:45 - 07:00	0.25	Surv	MWD	DRLPR	Conn
	07:00 - 07:30	0.50	Drill	DOHS	DRLPR	Slide
	07:30 - 08:00	0.50	Drill	DOHR	DRLPR	Rotate.
	08:00 - 08:15	0.25	Surv	MWD	DRLPR	Conn. & BOP drill.
	08:15 - 08:30	0.25	Drill	DOHS	DRLPR	Slide
	08:30 - 09:30	1.00	Drill	DOHR	DRLPR	Rotate
	09:30 - 09:45	0.25	Surv	MWD	DRLPR	Conn.
	09:45 - 10:00	0.25	Drill	DOHS	DRLPR	Slide.
	10:00 - 10:45	0.75	Drill	DOHR	DRLPR	Rotate.

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 45

Common Well Name: INDIAN HILLS UNIT NO. 45

Event Name: ORIGINAL DRILLING

Contractor Name: MCVAY DRILLING

Rig Name: MCVAY DRILLING

Start: 7/20/2002

Rig Release:

Rig Number: 4

Spud Date: 7/20/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/30/2002	10:45 - 11:00	0.25	Surv	MWD	DRLPR	Conn.
	11:00 - 11:15	0.25	Drill	DOHS	DRLPR	Slide.
	11:15 - 12:15	1.00	Drill	DOHR	DRLPR	Rotate
	12:15 - 12:30	0.25	Surv	MWD	DRLPR	Conn.
	12:30 - 12:45	0.25	Drill	DOHS	DRLPR	Slide
	12:45 - 13:30	0.75	Drill	DOHR	DRLPR	Rotate..
	13:30 - 13:45	0.25	Surv	MWD	DRLPR	Conn.
	13:45 - 14:00	0.25	Drill	DOHS	DRLPR	Slide.
	14:00 - 14:30	0.50	Drill	DOHR	DRLPR	Rotate.
	14:30 - 14:45	0.25	Surv	MWD	DRLPR	Conn.
	14:45 - 15:00	0.25	Drill	DOHS	DRLPR	Slide.
	15:00 - 15:45	0.75	Drill	DOHR	DRLPR	Rotate.
	15:45 - 16:00	0.25	Surv	MWD	DRLPR	Conn.
	16:00 - 16:15	0.25	Drill	DOHS	DRLPR	Slide.
	16:15 - 17:15	1.00	Drill	DOHR	DRLPR	Rotate.
	17:15 - 17:30	0.25	Surv	MWD	DRLPR	Conn. & BOP drill.
	17:30 - 17:45	0.25	Drill	DOHS	DRLPR	Slide.
	17:45 - 18:30	0.75	Drill	DOHR	DRLPR	Rotate.
	18:30 - 18:45	0.25	Surv	MWD	DRLPR	Conn.
	18:45 - 19:00	0.25	Drill	DOHS	DRLPR	Slide.
	19:00 - 19:45	0.75	Drill	DOHR	DRLPR	Rotate.
	19:45 - 20:00	0.25	Surv	MWD	DRLPR	Conn.
	20:00 - 20:15	0.25	Drill	DOHS	DRLPR	Slide.
	20:15 - 21:00	0.75	Drill	DOHR	DRLPR	Rotate.
	21:00 - 21:15	0.25	Surv	MWD	DRLPR	Conn.
	21:15 - 21:30	0.25	Drill	DOHS	DRLPR	Slide.
	21:30 - 22:15	0.75	Drill	DOHR	DRLPR	Rotate.
	22:15 - 22:30	0.25	Surv	MWD	DRLPR	Conn.
	22:30 - 22:45	0.25	Drill	DOHS	DRLPR	Slide.
	22:45 - 23:30	0.75	Drill	DOHR	DRLPR	Rotate.
	23:30 - 23:45	0.25	Surv	MWD	DRLPR	Conn.
	23:45 - 00:00	0.25	Drill	DOHS	DRLPR	Slide
	00:00 - 00:45	0.75	Drill	DOHR	DRLPR	Rotate.
	00:45 - 01:00	0.25	Surv	MWD	DRLPR	Conn.
	01:00 - 01:15	0.25	Drill	DOHS	DRLPR	Slide.
	01:15 - 02:15	1.00	Drill	DOHR	DRLPR	Rotate.
	02:15 - 02:30	0.25	Surv	MWD	DRLPR	Conn.
	02:30 - 02:45	0.25	Drill	DOHS	DRLPR	Slide.
	02:45 - 03:45	1.00	Drill	DOHR	DRLPR	Rotate.
	03:45 - 04:00	0.25	Surv	MWD	DRLPR	Conn. & BOP drill.
	04:00 - 04:15	0.25	Drill	DOHS	DRLPR	Slide.
	04:15 - 05:00	0.75	Drill	DOHR	DRLPR	Rotate.
	05:00 - 05:15	0.25	Surv	MWD	DRLPR	Conn.
	05:15 - 05:30	0.25	Drill	DOHS	DRLPR	Slide.
	05:30 - 06:00	0.50	Drill	DOHR	DRLPR	Rotate.
7/31/2002	06:00 - 06:15	0.25	Drill	DOHR	DRLPR	Rotate.
	06:15 - 06:30	0.25	Surv	MWD	DRLPR	Conn.
	06:30 - 06:45	0.25	Drill	DOHS	DRLPR	Slide.
	06:45 - 07:30	0.75	Drill	DOHR	DRLPR	Rotate
	07:30 - 07:45	0.25	Surv	MWD	DRLPR	Conn.
	07:45 - 08:00	0.25	Drill	DOHS	DRLPR	Slide.
	08:00 - 08:45	0.75	Drill	DOHR	DRLPR	Rotate
	08:45 - 09:00	0.25	Surv	MWD	DRLPR	Conn.

Marathon Oil Company
Operations Summary Report

Page 4 of 7

Legal Well Name: INDIAN HILLS UNIT NO. 45
Common Well Name: INDIAN HILLS UNIT NO. 45
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Contractor Name: MCVAY DRILLING
Rig Name: MCVAY DRILLING

Start: 7/20/2002
Rig Release:
Rig Number: 4
Spud Date: 7/20/2002
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/31/2002	09:00 - 09:15	0.25	Drill	DOHS	DRLPR	Slide
	09:15 - 10:15	1.00	Drill	DOHR	DRLPR	Rotate.
	10:15 - 10:30	0.25	Surv	MWD	DRLPR	Conn.
	10:30 - 10:45	0.25	Drill	DOHS	DRLPR	Slide.
	10:45 - 11:30	0.75	Drill	DOHR	DRLPR	Rotate.
	11:30 - 11:45	0.25	Surv	MWD	DRLPR	Conn.
	11:45 - 12:00	0.25	Drill	DOHS	DRLPR	Slide.
	12:00 - 12:45	0.75	Drill	DOHR	DRLPR	Rotate.
	12:45 - 13:00	0.25	Surv	MWD	DRLPR	Conn.
	13:00 - 13:15	0.25	Drill	DOHS	DRLPR	Slide.
	13:15 - 14:00	0.75	Drill	DOHR	DRLPR	Rotate.
	14:00 - 14:15	0.25	Surv	MWD	DRLPR	Conn.
	14:15 - 14:30	0.25	Drill	DOHS	DRLPR	Slide.
	14:30 - 15:00	0.50	Drill	DOHR	DRLPR	Rotate.
	15:00 - 15:15	0.25	Surv	MWD	DRLPR	Conn.
	15:15 - 15:30	0.25	Drill	DOHS	DRLPR	Slide.
	15:30 - 17:30	2.00	Drill	DOHR	DRLPR	Rotate.
	17:30 - 17:45	0.25	Surv	MWD	DRLPR	Conn.
	17:45 - 18:45	1.00	Drill	DOHR	DRLPR	Rotate.
	18:45 - 19:00	0.25	Surv	MWD	DRLPR	Conn.
	19:00 - 20:45	1.75	Drill	DOHR	DRLPR	Rotate.
	20:45 - 21:00	0.25	Surv	MWD	DRLPR	Conn.
	21:00 - 22:00	1.00	Drill	DOHR	DRLPR	Rotate.
	22:00 - 22:15	0.25	Surv	MWD	DRLPR	Conn.
	22:15 - 22:30	0.25	Drill	DOHS	DRLPR	Slide.
	22:30 - 00:15	1.75	Drill	DOHR	DRLPR	Rotate.
	00:15 - 00:30	0.25	Surv	MWD	DRLPR	Conn.
	00:30 - 01:00	0.50	Drill	DOHS	DRLPR	Slide.
	01:00 - 03:00	2.00	Drill	DOHR	DRLPR	Rotate
	03:00 - 03:15	0.25	Surv	MWD	DRLPR	Conn.
	03:15 - 05:30	2.25	Drill	DOHR	DRLPR	Rotate.
	05:30 - 05:45	0.25	Surv	MWD	DRLPR	Conn.
	05:45 - 06:00	0.25	Drill	DOHS	DRLPR	Slide.
8/1/2002	06:00 - 08:30	2.50	Drill	DOHD	DRLPR	Rotate
	08:30 - 08:45	0.25	Surv	MWD	DRLPR	Survey
	08:45 - 11:15	2.50	Drill	DOHD	DRLPR	Slide 4788'-98' & Rotate
	11:15 - 11:30	0.25	Surv	MWD	DRLPR	Survey
	11:30 - 14:00	2.50	Drill	DOHD	DRLPR	Slide 4851'-57' ' & Rotate
	14:00 - 14:15	0.25	Surv	MWD	DRLPR	Survey
	14:15 - 15:00	0.75	Drill	DOHD	DRLPR	Slide 4914'-20' & Rotate. Slow PR & high torque.
	15:00 - 17:30	2.50	Trip	BBHD	DRLPR	TOOH.
	17:30 - 20:30	3.00	Trip	BBHD	DRLPR	Chg bit. TIH. Tagged @ 4585'. Move RT tool f/ 12 stds above HW t/ 4 stds above HW. L/D 10 jts of DP.
	20:30 - 00:45	4.25	Circ	WSHD	DRLPR	Reamed t/ bottom f/ 4585' t/ 4921'.
	00:45 - 02:30	1.75	Drill	DOHD	DRLPR	Rotate
	02:30 - 02:45	0.25	Surv	MWD	DRLPR	Survey
	02:45 - 03:00	0.25	Drill	DOHS	DRLPR	Slide
	03:00 - 04:45	1.75	Drill	DOHD	DRLPR	Rotate
	04:45 - 05:00	0.25	Drill	DOHS	DRLPR	Slide
8/2/2002	05:00 - 06:00	1.00	Drill		DRLPR	Rotate
	06:00 - 07:15	1.25	Drill	DOHD	DRLPR	Rotate
	07:15 - 07:30	0.25	Drill	DOHD	DRLPR	Slide
	07:30 - 09:30	2.00	Drill	DOHD	DRLPR	Rotate

Marathon Oil Company
Operations Summary Report

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Legal Well Name: INDIAN HILLS UNIT NO. 45

Common Well Name: INDIAN HILLS UNIT NO. 45

Event Name: ORIGINAL DRILLING

Contractor Name: MCVAY DRILLING

Rig Name: MCVAY DRILLING

Start: 7/20/2002

Rig Release:

Rig Number: 4

Spud Date: 7/20/2002

End:

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/2/2002	09:30 - 09:45	0.25	Surv	MWD	DRLPR	Survey
	09:45 - 12:00	2.25	Drill	DOHD	DRLPR	Rotate
	12:00 - 12:15	0.25	Surv	MWD	DRLPR	Survey
	12:15 - 14:00	1.75	Drill	DOHD	DRLPR	Rotate
	14:00 - 14:15	0.25	Surv	MWD	DRLPR	Survey
	14:15 - 16:30	2.25	Drill	DOHD	DRLPR	Rotate
	16:30 - 16:45	0.25	Surv	MWD	DRLPR	Survey
	16:45 - 18:45	2.00	Drill	DOHD	DRLPR	Rotate
	18:45 - 19:00	0.25	Drill	DOHD	DRLPR	Slide
	19:00 - 19:15	0.25	Surv	MWD	DRLPR	Survey
	19:15 - 21:00	1.75	Drill	DOHD	DRLPR	Rotate
	21:00 - 21:30	0.50	Drill	DOHD	DRLPR	Slide
	21:30 - 23:00	1.50	Drill	DOHD	DRLPR	Rotate
	23:00 - 23:15	0.25	Surv	MWD	DRLPR	Survey
	23:15 - 01:30	2.25	Drill	DOHD	DRLPR	Rotate
	01:30 - 01:45	0.25	Surv	MWD	DRLPR	Survey
	01:45 - 03:45	2.00	Drill	DOHD	DRLPR	Rotate
	03:45 - 04:00	0.25	Surv	MWD	DRLPR	Survey
	04:00 - 04:15	0.25	Drill	DOHD	DRLPR	Slide
	04:15 - 06:00	1.75	Drill	DOHD	DRLPR	Rotate
8/3/2002	06:00 - 06:15	0.25	Surv	MWD	DRLPR	Survey
	06:15 - 08:15	2.00	Drill	DOHD	DRLPR	Rotate
	08:15 - 08:30	0.25	Surv	MWD	DRLPR	Survey
	08:30 - 10:30	2.00	Drill	DOHD	DRLPR	Rotate
	10:30 - 10:45	0.25	Surv	MWD	DRLPR	Survey
	10:45 - 11:15	0.50	Drill	DOHD	DRLPR	Slide
	11:15 - 13:00	1.75	Drill	DOHD	DRLPR	Rotate
	13:00 - 13:15	0.25	Surv	MWD	DRLPR	Survey
	13:15 - 15:00	1.75	Drill	DOHD	DRLPR	Rotate
	15:00 - 15:15	0.25	Surv	MWD	DRLPR	Survey
	15:15 - 17:15	2.00	Drill	DOHD	DRLPR	Rotate
	17:15 - 17:30	0.25	Surv	MWD	DRLPR	Survey
	17:30 - 18:00	0.50	Drill	DOHD	DRLPR	Slide
	18:00 - 19:45	1.75	Drill	DOHD	DRLPR	Rotate
	19:45 - 20:00	0.25	Surv	MWD	DRLPR	Survey
	20:00 - 20:30	0.50	Drill	DOHD	DRLPR	Slide
	20:30 - 22:30	2.00	Drill	DOHD	DRLPR	Rotate
	22:30 - 22:45	0.25	Surv	MWD	DRLPR	Survey
	22:45 - 00:45	2.00	Drill	DOHD	DRLPR	Rotate
	00:45 - 01:00	0.25	Surv	MWD	DRLPR	Survey
	01:00 - 03:00	2.00	Drill	DOHD	DRLPR	Slide
	03:00 - 03:15	0.25	Surv	MWD	DRLPR	Survey
	03:15 - 03:30	0.25	Drill	DOHD	DRLPR	Slide
	03:30 - 05:15	1.75	Drill	DOHD	DRLPR	Rotate
8/4/2002	05:15 - 05:30	0.25	Surv	MWD	DRLPR	Survey
	05:30 - 06:00	0.50	Drill	DOHD	DRLPR	Rotate
	06:00 - 07:45	1.75	Drill	DOHD	DRLPR	Rotate
	07:45 - 08:00	0.25	Surv	MWD	DRLPR	Survey
	08:00 - 10:30	2.50	Drill	DOHD	DRLPR	Slide f/ 6427'-37'. Rotate f/ 6437'-6481'.
	10:30 - 10:45	0.25	Surv	MWD	DRLPR	Survey
	10:45 - 14:00	3.25	Drill	DOHD	DRLPR	Slide f/ 6489'-99'. Rotate f/ 6499' t/ 6553'
	14:00 - 14:15	0.25	Surv	MWD	DRLPR	Survey
	14:15 - 15:30	1.25	Drill	DOHD	DRLPR	Slide f/ 6553'-63'. Rotate f/ 6563'-6615'.

Marathon Oil Company
Operations Summary Report

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Legal Well Name: INDIAN HILLS UNIT NO. 45
Common Well Name: INDIAN HILLS UNIT NO. 45
Event Name: ORIGINAL DRILLING
Contractor Name: MCVAY DRILLING
Rig Name: MCVAY DRILLING

Start: 7/20/2002
Rig Release:
Rig Number: 4
Spud Date: 7/20/2002
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/4/2002	15:30 - 15:45	0.25	Surv	MWD	DRLPR	Survey
	15:45 - 18:15	2.50	Drill	DOHD	DRLPR	Rotate
	18:15 - 18:30	0.25	Surv	MWD	DRLPR	Survey
	18:30 - 21:15	2.75	Drill	DOHD	DRLPR	Rotate f/ 6679'-6710'.
	21:15 - 22:00	0.75	NuNd	URTH	DRLPR	Install rotating head rubber.
	22:00 - 22:45	0.75	Check	BHA	DRLPR	Ck downhole motor. Stalling out. Blew nail on pump. Ck OK.
	22:45 - 00:00	1.25	Drill	DOHD	DRLPR	Rotate
	00:00 - 00:15	0.25	Surv	MWD	DRLPR	Survey
	00:15 - 02:00	1.75	Drill	DOHD	DRLPR	Rotate
	02:00 - 02:15	0.25	Surv	MWD	DRLPR	Survey
	02:15 - 05:15	3.00	Drill	DOHD	DRLPR	Rotate
	05:15 - 05:30	0.25	Surv	MWD	DRLPR	Survey
	05:30 - 06:00	0.50	Drill	DOHD	DRLPR	Rotate
8/5/2002	06:00 - 08:15	2.25	Drill	DOHD	DRLPR	Rotate
	08:15 - 08:30	0.25	Surv	MWD	DRLPR	Survey
	08:30 - 11:15	2.75	Drill	DOHD	DRLPR	Slide f/ 6929'-39'. Rotate f/ 6939'-92'.
	11:15 - 11:30	0.25	Surv	MWD	DRLPR	Survey
	11:30 - 14:15	2.75	Drill	DOHD	DRLPR	Slide f/ 6992' t/ 7002'. Rotate f/ 7002'-56'.
	14:15 - 18:00	3.75	Trip	MOTR	DRLPR	Motor stalled out. High pump pressure due t/ Motor. TOOH. Found small hole in DP. Slip area. Std # 38.
	18:00 - 20:15	2.25	Trip	BBHD	DRLPR	Bearing out on Motor. Chg out motor & bit. Seal out on bit. Cone # 1. 1/4" out of gauge.
	20:15 - 21:15	1.00	Trip	BIT	DRLPR	TIH w/ DC's & HWDP.
	21:15 - 22:00	0.75	Rig	SCDL	DRLPR	Cut drilling line
	22:00 - 00:00	2.00	Trip	BIT	DRLPR	TIH w/ DP.
	00:00 - 00:30	0.50	BOPwhd	URTH	DRLPR	Intalled Rotaing head. Washed 15' to bottom. No fill.
	00:30 - 01:00	0.50	Surv	MWD	DRLPR	Orientate tool. Survey
	01:00 - 01:45	0.75	Drill	DOHD	DRLPR	Slide f/ 7056'-66' Rotate
	01:45 - 02:00	0.25	Surv	MWD	DRLPR	Survey
8/6/2002	02:00 - 03:00	1.00	Drill	DOHD	DRLPR	Slide f/ 8088'-98'. Rotate
	03:00 - 03:15	0.25	Surv	MWD	DRLPR	Survey
	03:15 - 05:00	1.75	Drill	DOHD	DRLPR	Slide f/ 7120'-30' Rotate 7130'-84'
	05:00 - 05:15	0.25	Surv	MWD	DRLPR	Survey
	05:15 - 06:00	0.75	Drill	DOHD	DRLPR	Slide f/ 7184'-94'. Rotate t/ 7245'.
	06:00 - 06:15	0.25	Surv	MWD	DRLPR	Survey
	06:15 - 07:15	1.00	Drill	DOHD	DRLPR	Slide f/ 7245' t/ 7257'. Rotate t/ 7277'.
	07:15 - 07:30	0.25	Surv	MWD	DRLPR	Survey
	07:30 - 08:15	0.75	Drill	DOHD	DRLPR	Slide f/ 7277'-87'. Rotate t/ 7309'.
	08:15 - 08:30	0.25	Surv	MWD	DRLPR	Survey
	08:30 - 09:15	0.75	Drill	DOHD	DRLPR	Slide f/ 7277'-87'. Rotate t/ 7309'.
	09:15 - 09:30	0.25	Surv	MWD	DRLPR	Survey
	09:30 - 10:15	0.75	Drill	DOHD	DRLPR	Slide f/ 7241'-51'. Rotate t/ 7372'.
	10:15 - 10:30	0.25	Surv	MWD	DRLPR	Survey
	10:30 - 11:15	0.75	Drill	DOHD	DRLPR	Slide f/ 7272'-82'. Rotate t/ 7404'.
	11:15 - 11:30	0.25	Surv	MWD	DRLPR	Survey
	11:30 - 12:30	1.00	Drill	DOHD	DRLPR	Slide f/ 7404'-14'. Rotate t/ 7436'.
	12:30 - 12:45	0.25	Surv	MWD	DRLPR	Survey
	12:45 - 13:30	0.75	Drill	DOHD	DRLPR	Slide f/ 7436'-44'. Rotate t/ 7468'.
	13:30 - 13:45	0.25	Surv	MWD	DRLPR	Survey
	13:45 - 15:00	1.25	Drill	DOHD	DRLPR	Slide f/ 7468'-78'. Rotate t/ 7500'.
	15:00 - 15:15	0.25	Surv	MWD	DRLPR	Survey
	15:15 - 15:45	0.50	Drill	DOHD	DRLPR	Slide f/ 7500'-10'. Rotate t/ 7532'.
	15:45 - 16:00	0.25	Surv	MWD	DRLPR	Survey

Marathon Oil Company
Operations Summary Report

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Legal Well Name: INDIAN HILLS UNIT NO. 45
Common Well Name: INDIAN HILLS UNIT NO. 45
Event Name: ORIGINAL DRILLING
Contractor Name: MCVAY DRILLING
Rig Name: MCVAY DRILLING

Start: 7/20/2002
Rig Release:
Rig Number: 4
Spud Date: 7/20/2002
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/6/2002	16:00 - 17:00	1.00	Drill	DOHD	DRLPR	Slide f/ 7542' 52'. Rotate t/ 7564'. Top of Cisco @ 7562'. Drilled w/ 80% returns thru Cisco. No complete loses.
	17:00 - 17:15	0.25	Surv	MWD	DRLPR	Survey
	17:15 - 18:15	1.00	Drill	DOHD	DRLPR	Slide f/ 7564'-74'. Rotate t/ 7595'.
	18:15 - 18:30	0.25	Surv	MWD	DRLPR	Survey
	18:30 - 19:00	0.50	Drill	DOHD	DRLPR	Slide f/ 7595'-7605'. Rotate t/ 7627'.
	19:00 - 19:30	0.50	Rig	RCNT	DRLPR	Chg out flowline valve.
	19:30 - 20:00	0.50	Surv	MWD	DRLPR	Survey
	20:00 - 20:45	0.75	Drill	DOHD	DRLPR	Slide f/ 7629'-39'. Rotate t/ 7659'.
	20:45 - 21:15	0.50	Surv	MWD	DRLPR	Survey. Started to build angle while rotating.
	21:15 - 22:00	0.75	Drill	DOHD	DRLPR	Rotate
	22:00 - 22:15	0.25	Surv	MWD	DRLPR	Survey
	22:15 - 22:45	0.50	Drill	DOHD	DRLPR	Rotate
	22:45 - 23:00	0.25	Surv	MWD	DRLPR	Survey
	23:00 - 00:00	1.00	Drill	DOHD	DRLPR	Slide f/ 7723'-33'. Rotate
	00:00 - 00:15	0.25	Surv	MWD	DRLPR	Survey
	00:15 - 01:30	1.25	Drill	DOHD	DRLPR	Rotate
	01:30 - 01:45	0.25	Surv	MWD	DRLPR	Survey
	01:45 - 02:30	0.75	Drill	DOHD	DRLPR	Rotate
	02:30 - 02:45	0.25	Surv	MWD	DRLPR	Survey
	02:45 - 04:00	1.25	Drill	DOHD	DRLPR	Slide f/ 7914'-24'. Rotate Mudding up @ 7900'.
	04:00 - 04:15	0.25	Surv	MWD	DRLPR	Survey
	04:15 - 06:00	1.75	Drill	DOHD	DRLPR	Slide f/ 7976'-86'. Rotate
8/7/2002	06:00 - 08:00	2.00	Drill	DOHD	DRLPR	Rotate
	08:00 - 08:15	0.25	Surv	MWD	DRLPR	Survey
	08:15 - 11:00	2.75	Drill	DOHD	DRLPR	Rotate
	11:00 - 11:15	0.25	Surv	MWD	DRLPR	Survey
	11:15 - 15:15	4.00	Drill	DOHD	DRLPR	Rotate. TD w/ 95% returns (46 vis, 20 YP)
	15:15 - 16:45	1.50	Circ	MUD	DRLPR	Circ.
	16:45 - 18:15	1.50	Trip	WTRP	DRLPR	Pulled 10 stds w/ 45,000 drag. TIH . Washed 48' to bottom. No fill.
	18:15 - 19:30	1.25	Circ	MUD	DRLPR	Circ.
	19:30 - 00:00	4.50	Trip	BIT	DRLPR	TOOH t/ log.
	00:00 - 02:00	2.00	Trip	BBHD	DRLPR	L/D Inteq's tool. Loaded out on truck
8/8/2002	02:00 - 06:00	4.00	Log	OPEN	EVALPR	RU Schlumberger. Ran Platform Express ,HALS,HRLA,NGT, FMI. Run t/ 8130'. (stayed 100' off bottom). Logging the Wolfcamp @ 0600 hrs.
	06:00 - 10:00	4.00	Log	OPEN	EVALPR	Finish logging & R/D loggers.

Casing Report

Legal Well Name: INDIAN HILLS UNIT NO. 45
 Common Well Name: INDIAN HILLS UNIT NO. 45
 Event Name: ORIGINAL DRILLING

Report #: 1
 Start: 7/20/2002

Spud Date: 7/20/2002
 Report Date: 7/25/2002
 End:

General Information

String Type: SURFACE CASING	Permanent Datum: KELLY BUSHING	Hole Size: 1.210.0 (ft)
Hole TVD: 1,210.0 (ft)	KB-Datum: 0.00 (ft)	Water TMD: (ft)
3round Level: 3,654.00 (ft)	CF Elevation: (ft)	Liner Overlap: (ft)
Circ Hours: 1.50 (hr)	Mud Lost: (bbl)	KB to Cutoff: (ft)
		Days From Spud: 2 (days)

Casing Flange / Wellhead

Manufacturer: Hanger Model: 1 1/2 3M Model: FMC C-22
 Packoff Model: Top Hub/Flange: (in) / (psi)
 BTM Hub/Flange: (in) / (psi)

Actual TMD Set: 1,209.850 (ft)

Integral Casing Detail

Item	Size (in)	Weight (lb/ft)	Grade	Drift (in)	Threads	JTS	Length (ft)	Top (ft)	MU Torq (ft-lb)	THD	Manufacturer	Model	Cond.	Max OD (in)	Min ID (in)	Comp. Name
CASING JOINT(S)	9.625	36.0	J-55	8.921	8rd	26	1,162.280	1,162.28								
CASING FLOAT COLLA	9.625		J-55	8.921	8rd		1,200	1,162.28								
CASING JOINT(S)	9.625	36.0	J-55	8.921	8rd	1	44.870	1,163.48								
CASING FLOAT SHOE	9.625		J-55	8.921	8rd		1,500	1,208.35								

Non-Integral Casing Accessories

Accessory	Manufacturer	Number	Spacing (ft)	Interval	How Fixed
CENTRALIZER	Weatherford	16	45.0	Top (ft)	CLAMPED

Marathon Oil Company

Cementing Report

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Legal Well Name: INDIAN HILLS UNIT NO. 45 Report #: 1 Spud Date: 7/20/2002
Common Well Name: INDIAN HILLS UNIT NO. 45 Start: 7/20/2002 Report Date: 7/26/2002
Event Name: ORIGINAL DRILLING End:

Cement Job Type: Primary

Primary	Squeeze Open Hole	Squeeze Casing	Plug
Hole Size: 12.250 (in)	Hole Size:	Hole Size:	Hole Size:
TMD Set: 1,210.0 (ft)	SQ TMD: (ft)	TMD Set:	Top Set: (ft)
Date Set: 7/25/2002	SQ Date:	Date Set:	BTM set: (ft)
Csg Type: SURFACE CASING	SQ Type:	Csg Type:	Plug Date:
Csg Size: 9.625 (in)		SQ TMD:	Plug Type:
		SQ Date:	Drilled Out:
Cmt. Csg: SURFACE CASING	Cmt. Csg:	Cmt. Csg:	Cmt. Csg:

Cement Co: HALLIBURTON

Cementer:

Pipe Movement: NO MOVEMENT

Pipe Movement

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

Stage No: 1 of 1

Type: PRIM CMT 1ST STAGE Volume Excess %: 100.00 Meas. From: T.D. to surface Time Circ Prior To Cementing: 1.00 Mud Circ Rate: 310 (gpm) Mud Circ Press: 400 (psi)	Start Mix Cmt: 06:30 Start Slurry Displ: : Start Displ: : End Pumping: : End Pump Date: Top Plug: N Bottom Plug: N	Disp Avg Rate: 6.00 (bbl/min) Disp Max Rate: 7.50 (bbl/min) Bump Plug: Y Press Prior: 120 (psi) Press Bumped: 660 (psi) Press Held: 5 (min) Float Held: Y	Returns: None Total Mud Lost: (bbl) Cmt Vol to Surf: (bbl) Ann Flow After: N Mixing Method: Density Meas By:
--	--	---	---

Mud Data

Type: FOAM Density: 8.4 (ppg) Visc: 38 (s/qt) PV/YP: (cp)/(lb/100ft²) Gels 10 sec: (lb/100ft²) Gels 10 min: (lb/100ft²)
 Bottom Hole Circulating Temperature: (°F) Bottom Hole Static Temperature: (°F)
 Displacement Fluid Type: FRESH WATER Density: 8.4 (ppg) Volume: 90.30 (bbl)

Stage No: 1 Slurry No: 1 of 4

Slurry Data

Fluid Type: LEAD	Description: NITRIFIED	Class: CLASS C	Purpose: FILLER CEM
Slurry Interval: 12,100.00 (ft): 1,210.00 (ft)	Cmt Vol: 500 (sk)	Density: 14.8 (ppg)	Yield: 1.34 (ft ³ /sk)
Water Source: Frac tanks	Slurry Vol: 20.0 (bbl)	Water Vol: 20.0 (bbl)	Other Vol: ()
			Foam Job: Y

Test Data

	Temperature: (°F)	Time	Temp	Pressure
Thickening Time:		Compressive Strength 1:	(°F)	(psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2:	(°F)	(psi)
Fluid Loss: (cc)	Temperature: (°F)			
Fluid Loss Pressure: (°F)				

Marathon Oil Company

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Cementing Report

Legal Well Name: INDIAN HILLS UNIT NO. 45
Common Well Name: INDIAN HILLS UNIT NO. 45
Event Name: ORIGINAL DRILLING

Report #: 1
Start: 7/20/2002

Spud Date: 7/20/2002
Report Date: 7/26/2002
End:

Stage No: 1 Slurry No: 2 of 4

Slurry Data

Fluid Type: TAIL Description: NEAT Class: CLASS C Purpose: FILLER CEM
Slurry Interval: 1,210.00 (ft) To: 1,210.00 (ft) Cmt Vol: 150 (sk) Density: 6.3 (ppg) Yield: 14.80 (ft³/sk) Mix Water: 6.30 (gal/sk)
Water Source: Frac-tank Slurry Vol: (bbl) Water Vol: 35.0 (bbl) Other Vol: () Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°F)	Compressive Strength 1:	(°F) (psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2:	(°F) (psi)
Fluid Loss: (cc)	Temperature: (°F)		
Fluid Loss Pressure: (°F)			

Stage No: 1 Slurry No: 3 of 4

Slurry Data

Fluid Type: OTHER Description: FOAM Class: CLASS C Purpose: FILLER CEM
Slurry Interval: 8.00 (ft) To: 500.00 (ft) Cmt Vol: 500 (sk) Density: 14.8 (ppg) Yield: 1.34 (ft³/sk) Mix Water: 6.30 (gal/sk)
Water Source: Frac-tank Slurry Vol: (bbl) Water Vol: 20.0 (bbl) Other Vol: () Foam Job: Y

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°F)	Compressive Strength 1:	(°F) (psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2:	(°F) (psi)
Fluid Loss: (cc)	Temperature: (°F)		
Fluid Loss Pressure: (°F)			

Stage No: 1 Slurry No: 4 of 4

Slurry Data

Fluid Type: OTHER Description: NEAT Class: CLASS C Purpose: FW PROTEC
Slurry Interval: 9.00 (ft) To: 500.00 (ft) Cmt Vol: 75 (sk) Density: 14.8 (ppg) Yield: 1.34 (ft³/sk) Mix Water: 6.30 (gal/sk)
Water Source: Frac-tank Slurry Vol: (bbl) Water Vol: 26.5 (bbl) Other Vol: () Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°F)	Compressive Strength 1:	(°F) (psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2:	(°F) (psi)
Fluid Loss: (cc)	Temperature: (°F)		
Fluid Loss Pressure: (°F)			

Marathon Oil Company
Cementing Report

Page 3 of 3

Legal Well Name: INDIAN HILLS UNIT NO. 45
Common Well Name: INDIAN HILLS UNIT NO. 45
Event Name: ORIGINAL DRILLING

Report #: 1
Start: 7/20/2002

Spud Date: 7/20/2002
Report Date: 7/26/2002
End:

Casing Test

Shoe Test

Liner Top Test

Test Press: (psi)
For: (min)
Cement Found between
Shoe and Collar:

Pressure: (ppge)
Tool:
Open Hole: (ft)
Hrs Before Test:

Liner Lap:
Pos Test: (ppge)
Neg Test: (ppge)
Hrs Before Test:
Cement Found on Tool:

Tool:
Tool:

Log/Survey Evaluation

Interpretation Summary

CBL Run:
Under Pressure: (psi)
Bond Quality:
Cet Run:
Bond Quality:
Temp Survey:
Hrs Prior to Log:

Cement Top: (ft)
How Determined:
TOC Sufficient:
Job Rating:
If Unsuccessful Detection Indicator:
Remedial Cementing Required:
Number of Remedial Squeezes:

Remarks

Pumped 500sks foam cement down backside & capped off w/ 75 sks. Shut-in well for 3 Hr's. Tagged top of cement 8' below surface.

Marathon Oil Company

Operations Summary Report

Page 1 of 1

Legal Well Name: INDIAN HILLS UNIT NO. 45
 Common Well Name: INDIAN HILLS UNIT NO. 45
 Event Name: ORIGINAL COMPLETION
 Contractor Name: MCVAY DRILLING
 Rig Name: MCVAY DRILLING

Start: 8/2/2002
 Rig Release:
 Rig Number: 4
 Spud Date: 7/20/2002
 End:
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/8/2002	10:00 - 13:15	3.25	Trip	BIT	CSGPR	TIH to condition well.
	13:15 - 15:00	1.75	Circ	CLN	CSGPR	Cir & condition hole to run casing.
	15:00 - 21:45	6.75	Trip	LDDP	CSGPR	POOH L/D D.P., HWDP, Jars, & Dill collars.
	21:45 - 22:45	1.00	Csg	RUN	CSGPR	R/U casers & held sSafety Meeting. Changed out rams.
	22:45 - 06:00	7.25	Csg	RUN	CSGPR	Run 189 jys of 7" 26# & 23 # csg to 8230'.
8/9/2002	06:00 - 08:30	2.50	Circ	HOLE	CSGPR	Cir. & condition hole. Circulated alittle longer than normal due to waiting for traffic to slow down f/ road where if we got alot of N2 around might cross the road.
	08:30 - 13:30	5.00	Cemt	PRIM	CSGPR	Held safety meeting. R/U Halliburton. Changed out swedge w/ cementing head. Tested lines to 4000PSI. Pumped 50000 SCF of N2 ahead. Followed by 10 bbl's C.C. wtr w/ N2, 10 bbl wtr spacer, Followed w/ 24 bbl's Super flush 101, 10 bbl wtr spacer behind w/ N2, 1st stage 200 sks acid sol. cement. (91 bbl's). Nitrofiged. 2nd stage 1000 sks Premium H. (223 bbl's). Nitrofiged. Tailed w/ 120 sks Super H. (36 bbl's). Dropped plug Displaced w/ 318 bbl's fresh wtr. Bumped plug to 3750 PSI. Cir about 80 sks to pit. Pressures were higher than normal while cementing. After 60 bbls of displacement csg pressue started increasing. Bump plug @ 12:30A.M.. Capped backside w/ 75 sks P.+ w/ 10# calseal. (18 bbl's).
	13:30 - 17:30	4.00	Wait	CEMT	CSGPR	Waiting on cement.
	17:30 - 22:00	4.50	BOPwhd	UWLH	CSGPR	Bleed off casing pressure & Picked up stack & set slips. Cut off 7" casing. Pulled stack. R/U Tbg hanger & tested to 3000 PSI.
	22:00 - 22:30	0.50	BOPwhd	BOP	CSGPR	Removed 7" pipe rams from BOP. Released rig from well @ 22:30Hr 8/8/2002.

Casing Report

Legal Well Name: INDIAN HILLS UNIT NO. 45
 Common Well Name: INDIAN HILLS UNIT NO. 45
 Event Name: ORIGINAL COMPLETION

Report #: 1
 Start: 8/2/2002

Spud Date: 7/20/2002
 Report Date: 8/8/2002
 End:

General Information

String Type: PRODUCTION CASING #1	Permanent Datum: KELLY BUSHING	Hole Size:	Hole TMD: 8,230.0 (ft)
Hole TVD: 8,071.0 (ft)	KB-Datum: 0.00 (ft)	Water TMD:	Str Wt on Slips: (lb)
Round Level: 3,654.00 (ft)	CF Elevation:	Liner Overlap:	Max Hole Angle: 18.00 (°)
Circ Hours: 2.00 (hr)	Mud Lost:	KB to Cutoff:	Days From Spud: (days)

Casing Flange / Wellhead

Manufacturer: Woods Group
 Hanger Model: 11"
 Model: FMC C-22
 Packoff Model:

Top Hub/Flange: (in) / (psi)
 BTM Hub/Flange: (in) / (psi)

Actual TMD Set: 8,238.400 (ft)

Integral Casing Detail

Item	Size (in)	Weight (lb/ft)	Grade	Drift (in)	Threads	JTS	Length (ft)	Top (ft)	MU Torq. (ft-lb)	TMD	Manufacturer	Model	Conc.	Max OD (in)	Min ID (in)	Comp. Name
CASING JOINT(S)	7.000	26.0	K-55	6.276	8rd	6	262.270	262.27						7.656	6.151	
CASING JOINT(S)	7.000	23.0	K-55	6.366	8rd	98	4,365.810	4,628.08						7.656	6.241	
CASING JOINT(S)	7.000	26.0	K-55	6.276	8rd	68	2,893.980	7,522.06						7.656	6.151	
PUP JOINT	7.000	26.0	K-55	6.276	8rd	1	20.650	7,542.71						7.656	6.151	
SING JOINT(S)	7.000	26.0	K-55	6.276	8rd	15	649.980	8,192.69						7.656	6.151	
CASING FLOAT COLLA	7.000			6.276	8rd		1.500	8,194.19						7.656	6.151	
CASING JOINT(S)	7.000			6.276	8rd	1	42.710	8,236.90						7.656	6.151	
CASING GUIDE SHOE	7.000	26.0	K-55	6.276	8rd		1.500							7.656	6.151	

Non-Integral Casing Accessories

Accessory	Manufacturer	Number	Spacing (ft)	Interval	How Fixed
CENTRALIZER	Weatherford	20	80.0	Top (ft) Bottom (ft)	CLAMPED

Marathon Oil Company

Cementing Report

Page 1 of 2

Legal Well Name: INDIAN HILLS UNIT NO. 45	Report #: 1	Spud Date: 7/20/2002
Common Well Name: INDIAN HILLS UNIT NO. 45	Start: 8/2/2002	Report Date: 8/8/2002
Event Name: ORIGINAL COMPLETION		End:

Cement Job Type: Primary

Primary	Squeeze Open Hole	Squeeze Casing	Plug
Hole Size: 8.750 (in)	Hole Size:	Hole Size:	Hole Size:
TMD Set: 8,230.0 (ft)	SQ TMD: (ft)	TMD Set:	Top Set: (ft)
Date Set: 8/8/2002	SQ Date:	Date Set:	BTM set: (ft)
Csg Type: PRODUCTION CASIN	SQ Type:	Csg Type:	Plug Date:
Csg Size: 7.000 (in)		SQ TMD:	Plug Type:
		SQ Date:	Drilled Out:
Cmtd. Csg: OPEN HOLE	Cmtd. Csg:	Cmtd. Csg:	Cmtd. Csg:

Cement Co: HALLIBURTON	Cementer:	Pipe Movement: NO MOVEMENT
------------------------	-----------	----------------------------

Pipe Movement

Rot Time Start: 00:00	Time End: :	RPM:	Init Torque: (ft-lbf)	Avg Torque: (ft-lbf)	Max Torque: (ft-lbf)
Rec Time Start: :	Time End: :	SPM:	Stroke Length: (ft)	Drag Up: (lb)	Drag Down: (lb)

Stage No: 1 of 1

Type: PRIM CMT 1ST STAGE	Start Mix Cmt: 20:00	Disp Avg Rate: (bbl/min)	Returns:
Volume Excess %: 100.00	Start Slurry Displ: :	Disp Max Rate: (bbl/min)	Total Mud Lost: (bbl)
Meas. From:	Start Displ: :	Bump Plug: Y	Cmt Vol to Surf: 20.00 (bbl)
Time Circ Prior	End Pumping: :	Press Prior: (psi)	
To Cementing: 2.00	End Pump Date:	Press Bumped: 3,700 (psi)	Ann Flow After: N
Mud Circ Rate: 5 (gpm)	Top Plug: N	Press Held: 45 (min)	Mixing Method:
Mud Circ Press: (psi)	Bottom Plug: N	Float Held: Y	Density Meas By:

Mud Data

Type: FRESH WATER Density: (ppg) Visc: (s/qt)	PV/YP: (cp)/(lb/100ft ²) Gels 10 sec: (lb/100ft ²) Gels 10 min: (lb/100ft ²)	
Bottom Hole Circulating Temperature: 75 (°F)	Bottom Hole Static Temperature: (°F)	
Displacement Fluid Type:	Density: (ppg)	Volume: (bbl)

Stage No: 1 Slurry No: 1 of 3

Slurry Data

Fluid Type: SPACER	Description: NITRIFIED	Class: CLASS H	Purpose: FILLER CEM
Slurry Interval: (ft) To: (ft)	Cmt Vol: 200 (sk)	Density: 15.0 (ppg)	Yield: 2.55 (ft ³ /sk)
Water Source: Frac tank	Slurry Vol: 10.0 (bbl)	Water Vol: 91.0 (bbl)	Other Vol: ()
			Mix Water: 11.70 (gal/sk)
			Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°F)	Compressive Strength 1: (°F)	(psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2: (°F)	(psi)
Fluid Loss: (cc)	Temperature: (°F)		
Fluid Loss Pressure: (°F)			

Marathon Oil Company Cementing Report

Page 2 of 2

Legal Well Name: INDIAN HILLS UNIT NO. 45
Common Well Name: INDIAN HILLS UNIT NO. 45
Event Name: ORIGINAL COMPLETION

Report #: 1
Start: 8/2/2002

Spud Date: 7/20/2002
Report Date: 8/8/2002
End:

Stage No: 1 Slurry No: 2 of 3

Slurry Data

Fluid Type: SPACER	Description: NITRIFIED	Class: CLASS H	Purpose: FILLER CEM
Slurry Interval: (ft) To: (ft)	Cmt Vol: 1,000 (sk)	Density: 15.2 (ppg)	Yield: 1.25 (ft ³ /sk)
Water Source: Frac-tank	Slurry Vol: (bbl)	Water Vol: 223.0 (bbl)	Other Vol: ()
			Mix Water: 5.74 (gal/sk)
			Foam Job: Y

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°F)	Compressive Strength 1:	(°F) (psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2:	(°F) (psi)
Fluid Loss: (cc)	Temperature: (°F)		
Fluid Loss Pressure: (°F)			

Stage No: 1 Slurry No: 3 of 3

Slurry Data

Fluid Type: TAIL	Description: FLOW AFTER CEMENT	Class: CLASS H	Purpose: SHOE INTEG
Slurry Interval: (ft) To: (ft)	Cmt Vol: 120 (sk)	Density: 13.0 (ppg)	Yield: 1.67 (ft ³ /sk)
Water Source: Frac tank	Slurry Vol: (bbl)	Water Vol: 36.0 (bbl)	Other Vol: ()
			Mix Water: 8.27 (gal/sk)
			Foam Job: N

Test Data

	Time	Temp	Pressure
Thickening Time:	Temperature: (°F)	Compressive Strength 1:	(°F) (psi)
Free Water: (%)	Temperature: (°F)	Compressive Strength 2:	(°F) (psi)
Fluid Loss: (cc)	Temperature: (°F)		
Fluid Loss Pressure: (°F)			

Casing Test

Shoe Test

Liner Top Test

Test Press: (psi)
For: (min)
Cement Found between
Shoe and Collar:

Pressure: (ppge)
Tool:
Open Hole: (ft)
Hrs Before Test:

Liner Lap:
Pos Test: (ppge) Tool:
Neg Test: (ppge) Tool:
Hrs Before Test:
Cement Found on Tool:

Log/Survey Evaluation

Interpretation Summary

CBL Run: Under Pressure: (psi) Bond Quality: Cet Run: Bond Quality: Temp Survey: Hrs Prior to Log:	Cement Top: (ft) How Determined: TOC Sufficient: Job Rating: If Unsuccessful Detection Indicator: Remedial Cementing Required: Number of Remedial Squeezes:
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Oil Cons.
N.M. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

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 abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Marathon Oil Company

3a. Address

P.O. Box 552 Midland, TX 79702

3b. Phone No. (include area code)

800-352-1417

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL: UL "A", 806 FNL & 1010 FEL, SECTION 28, T-21-S, R-24-E

BHL: UL "P", 305 FSL & 1136 FEL, SECTION 21, T-21-S, R-24-E

5. Lease Serial No.

NM07260

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

INDIAN HILLS UNIT

70964A

8. Well Name and No.

INDIAN HILLS UNIT NO. 45

9. API Well No.

30-015-32338

10. Field and Pool, or Exploratory Area

INDIAN BASIN UPPER PENN
ASSOCIATED GAS POOL

11. County or Parish, State

EDDY COUNTY NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☒ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Alter Casing	☒ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ 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 recompleat 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 recompleat 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 final site is ready for final inspection.)

Work began August 4, 2003 to acid frac this well. MURU PU, tanks & reverse unit. ND wellhead & NU BOPs. POOH w/pump & thg. RIH w/7" RBP to 8021'. Hot water & chemical treated thg for paraffin. Ran BHP bombs @ 8011'. Pumped 500 gals 17% OCA acid w/55 gals parasperse. Pumped 15000 gals fresh water spacer. Pumped 29500 gals 17% OCA acid. Flushed w/20000 gals of fresh water. All fluids were heated to 180 degrees F. Pump rates and pressure were very inconsistent. Max rate of 47.0 BPM @ 2550 psig. Pick up and assemble RA 7 pump package & RIH on 257 jts 2-7/8" thg. PU hanger & make final splice. ND BOPs, NU wellhead & RD PU. Turned well over to production department on 8/9/03.

ACCEPTED FOR RECORD

SEP 22 2003

ALEXIS C. SWOBODA
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Ginny Larke

Title

Engineer Technician

Date 9/12/03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

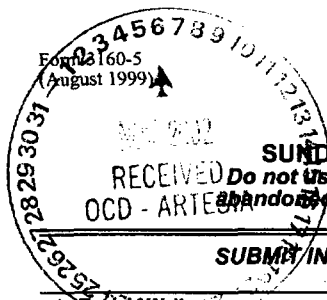
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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

NMOCF

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

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

5. Lease Serial No. NM07260
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No. 70964A
8. Well Name and No. INDIAN HILLS UNIT 45
9. API Well No. 30-015-32338
10. Field and Pool, or Exploratory INDIAN BASIN UPPER PENN ASSOC.
11. County or Parish, and State EDDY COUNTY, NM

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	2. Name of Operator MARATHON OIL COMPANY	Contact: GINNY LARKE E-Mail: vllarke@marathonoil.com
3a. Address P.O. BOX 552 MIDLAND, TX 79702	3b. Phone No. (include area code) Ph: 800.351.1417 Ext: 8321 Fx: 915.687.8305	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 21 T21S R24E SESE-305FSL-1130FEL 82011 - 1002		

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 recompleat 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 recompleat 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.)

Location shown above is the BHL. SHL is UL "A", 806' FNL & 1010 FEL, Section 28, T-21-S, R-24-E.

As required by Onshore Order No. 7, Marathon Oil Company is notifying you of the methods of water disposal from this well. Produced water will be sent, via pipeline, to one of the wells listed under PRIMARY DISPOSAL in the attachment. If additional capacity is required, water may be sent, via pipeline, where existing, or truck hauled to any of the wells listed under SECONDARY DISPOSAL in the attachment.

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS ATTACHED

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #15640 verified by the BLM Well Information System
For MARATHON OIL COMPANY, sent to the Carlsbad
Committed to AFSS for processing by Armando Lopez on 10/30/2002 ()

Name (Printed/Typed) GINNY LARKE	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 10/30/2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By (ORIG. SGD.) ALEXIS C. SWOBODA	Title PETROLEUM ENGINEER NOV 05 2002
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.	Office

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

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Form 3160-5
(August 1999)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

NOV 2002

RECEIVED
OCD - ARTESIAN

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☐ Oil Well ☐ Gas Well ☒ Other: UNKNOWN		5. Lease Serial No. NM07260
2. Name of Operator MARATHON OIL COMPANY		6. If Indian, Allottee or Tribe Name
3a. Address P.O. BOX 552 MIDLAND, TX 79702		7. If Unit or CA/Agreement, Name and/or No. 70964A
3b. Phone No. (include area code) Ph: 800.351.1417 Ext: 8321 Fx: 915.687.8305		8. Well Name and No. INDIAN HILLS UNIT 45
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 21 T21S R24E SESE 305FSL 1136FEL		9. API Well No. 30-015-32338
		10. Field and Pool, or Exploratory INDIAN BASIN UPPER PENN ASSOC.
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Production Start-up
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 recompleat 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 recompleat 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.)

Location shown above is the BHL. SHL is UL "A", 806' FNL & 1010 FEL, Section 28, T-21-S, R-24-E.

Initial completion work began 9/7/02. MIRU PU, RU Reverse Unit, NU BOP & test. RIH w/bit & csg scraper & tag bottom @ 8186'. Pickled tbg w/900 gals 15% HCL acid. Reversed acid to pit & circulated hole clean w/FW. RU wireline & perf well 7627'-7635', 7704'-7708', 7716'-7720', 7796'-7800', 7829'-7833' (total 96 holes) w/4 spf. RIH w/7" RBP & RTTS packer. Acid frac perfs from 7704'-7833' w/18,000 gals 17% CCA sour acid & flushed w/FW. Max press-7200 psi, AIR-22.6 bpm @ 5199 psi. Acid frac perfs 7627'-7635' w/4300 gals 17% CCA sour acid & flushed w/FW. Max press-7000 psi, AIR-9 BPM @ 5060 psi. SI well. RIH & released packer & plug @ 7686'. POOH resetting RBP @ 3500'. RIH w/pump pkg to RBP, equalized & released RBP. Pump cable grounded out. Replaced cable and pump still wouldn't run. POOH and found pump lead severed. POOH w/all equipment. RIH w/repared equipment. ND BOP, NU wellhead and hang well off. Ran Pro Technics log which indicated acid frac

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #15635 verified by the BLM Well Information System
For MARATHON OIL COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by Armando Lopez on 10/30/2002 ()

Name (Printed/Typed) GINNY LARKE

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 10/30/2002

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

NOV - 5 2002

Date

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.

Office

ALEXIS C. SWOBODA
PETROLEUM ENGINEER

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.

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

Additional data for EC transaction #15635 that would not fit on the form

32. Additional remarks, continued

stayed in zone from 7895' up to 7770' & from 7740' up to 7654' & from 7640' up to 7600'. All zones open. Turned well over to production department and started producing 10/1/02.

Marathon Oil Company
INDIAN HILLS UNIT 45

slot #1
INDIAN BASIN
Eddy County New Mexico

SURVEY LISTING

by
Baker Hughes INTEQ

Your ref : MWD
Our ref : svy2010
License :

Date printed : 7-Aug-2002
Date created : 29-Jul-2002
Last revised : 7-Aug-2002

Field is centred on n32 30 0.000,w104 30 0
Structure is centred on 449465.200,529464.400,999.00000,N

Slot location is n32 27 19.812,w104 29 49.800
Slot Grid coordinates are N 529464.400, E 449465.200
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



Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	0.00	449465.20	529464.40
100.00	0.40	138.10	100.00	0.26S	0.23E	0.40	-0.28	449465.43	529464.14
200.00	0.23	140.71	200.00	0.68S	0.59E	0.16	-0.74	449465.79	529463.72
300.00	0.30	149.23	300.00	1.06S	0.86E	0.07	-1.15	449466.06	529463.34
400.00	0.20	174.94	400.00	1.45S	1.00E	0.15	-1.56	449466.20	529462.95
500.00	0.15	149.16	500.00	1.73S	1.09E	0.09	-1.85	449466.29	529462.67
600.00	0.13	142.00	599.99	1.94S	1.23E	0.03	-2.07	449466.43	529462.46
700.00	0.20	76.84	699.99	1.99S	1.47E	0.19	-2.15	449466.67	529462.41
800.00	0.57	86.14	799.99	1.92S	2.14E	0.37	-2.16	449467.34	529462.48
900.00	0.65	101.74	899.99	2.00S	3.18E	0.18	-2.36	449468.38	529462.40
1000.00	0.65	111.69	999.98	2.32S	4.26E	0.11	-2.81	449469.46	529462.08
1100.00	0.93	127.15	1099.97	3.02S	5.43E	0.35	-3.65	449470.63	529461.38
1200.00	1.33	142.31	1199.95	4.43S	6.79E	0.50	-5.21	449471.99	529459.97
1300.00	1.59	145.04	1299.92	6.49S	8.29E	0.27	-7.43	449473.49	529457.91
1400.00	1.64	141.23	1399.88	8.74S	9.99E	0.12	-9.87	449475.19	529455.66
1500.00	1.70	148.95	1499.84	11.13S	11.65E	0.23	-12.45	449476.85	529453.27
1600.00	1.65	147.41	1599.79	13.62S	13.19E	0.07	-15.10	449478.39	529450.78
1700.00	1.67	148.58	1699.75	16.08S	14.73E	0.04	-17.72	449479.93	529448.32
1800.00	1.59	147.72	1799.71	18.49S	16.23E	0.08	-20.30	449481.43	529445.91
1900.00	1.65	149.62	1899.67	20.90S	17.70E	0.08	-22.87	449482.90	529443.50
2000.00	1.55	145.51	1999.63	23.26S	19.19E	0.15	-25.39	449484.39	529441.14
2100.00	1.54	142.98	2099.60	25.45S	20.76E	0.07	-27.75	449485.96	529438.95
2200.00	1.44	144.79	2199.56	27.55S	22.30E	0.11	-30.02	449487.50	529436.85
2300.00	1.41	144.43	2299.53	29.58S	23.74E	0.04	-32.21	449488.94	529434.82
2400.00	1.39	148.03	2399.50	31.60S	25.10E	0.09	-34.38	449490.30	529432.80
2500.00	1.36	147.34	2499.47	33.63S	26.38E	0.03	-36.55	449491.58	529430.77
2600.00	1.32	149.56	2599.45	35.63S	27.60E	0.07	-38.68	449492.80	529428.77
2700.00	1.28	151.48	2699.42	37.60S	28.72E	0.06	-40.77	449493.92	529426.80
2800.00	1.30	153.55	2799.39	39.60S	29.76E	0.05	-42.88	449494.96	529424.80
2900.00	1.29	150.64	2899.37	41.60S	30.82E	0.07	-44.99	449496.02	529422.80
3000.00	1.22	148.88	2999.34	43.50S	31.93E	0.08	-47.01	449497.13	529420.90
3100.00	1.09	147.66	3099.32	45.22S	32.99E	0.14	-48.84	449498.19	529419.18
3200.00	1.02	148.19	3199.31	46.78S	33.96E	0.07	-50.51	449499.16	529417.62
3300.00	0.96	155.09	3299.29	48.29S	34.79E	0.13	-52.11	449499.99	529416.11
3400.00	0.88	160.79	3399.28	49.78S	35.39E	0.12	-53.66	449500.59	529414.62
3474.00	0.62	149.40	3473.27	50.66S	35.78E	0.40	-54.58	449500.98	529413.74
3506.00	0.26	244.40	3505.27	50.84S	35.81E	2.17	-54.77	449501.01	529413.56
3538.00	1.20	313.30	3537.27	50.64S	35.50E	3.54	-54.53	449500.70	529413.76
3569.00	2.20	322.70	3568.26	49.95S	34.90E	3.34	-53.77	449500.10	529414.45
3601.00	2.90	327.00	3600.22	48.78S	34.09E	2.27	-52.51	449499.29	529415.62
3633.00	3.40	331.50	3632.18	47.27S	33.19E	1.74	-50.90	449498.39	529417.13
3664.00	4.00	333.60	3663.11	45.49S	32.28E	1.98	-49.03	449497.48	529418.91
3696.00	5.00	334.40	3695.01	43.23S	31.18E	3.13	-46.66	449496.38	529421.17
3727.00	5.20	336.40	3725.89	40.73S	30.03E	0.86	-44.03	449495.23	529423.67
3759.00	6.20	336.10	3757.73	37.82S	28.75E	3.13	-40.99	449493.95	529426.58
3791.00	6.00	338.20	3789.55	34.69S	27.43E	0.94	-37.72	449492.63	529429.71
3823.00	6.50	337.50	3821.36	31.46S	26.11E	1.58	-34.36	449491.31	529432.94
3854.00	7.20	336.50	3852.14	28.06S	24.67E	2.29	-30.81	449489.87	529436.34
3886.00	8.10	338.60	3883.85	24.12S	23.05E	2.94	-26.71	449488.25	529440.28
3918.00	8.50	340.30	3915.52	19.79S	21.43E	1.47	-22.22	449486.63	529444.61

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

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1118.13 on azimuth 353.52 degrees from wellhead.

Vertical section is from S 0.00 E 0.00 on azimuth 353.12 degrees.

Grid is mercator - New Mexico East (3001).

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

Presented by Baker Hughes INTEQ

Marathon Oil Company
INDIAN HILLS UNIT 45, slot #1
INDIAN BASIN, Eddy County New Mexico

SURVEY LISTING Page 2
Your ref : MWD
Last revised : 7-Aug-2002

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
3950.00	9.10	340.30	3947.14	15.19S	19.78E	1.87	-17.44	449484.98	529449.21
3982.00	9.50	338.90	3978.72	10.34S	17.97E	1.44	-12.42	449483.17	529454.06
4013.00	9.90	337.50	4009.28	5.49S	16.03E	1.50	-7.37	449481.23	529458.91
4045.00	10.30	339.30	4040.78	0.27S	13.97E	1.59	-1.94	449479.17	529464.13
4077.00	10.90	339.60	4072.23	5.24N	11.90E	1.88	3.78	449477.10	529469.64
4108.00	11.50	341.40	4102.64	10.92N	9.89E	2.24	9.65	449475.09	529475.32
4139.00	12.10	343.10	4132.99	16.95N	7.96E	2.24	15.88	449473.16	529481.35
4171.00	12.80	344.20	4164.24	23.57N	6.02E	2.31	22.68	449471.22	529487.97
4202.00	13.40	346.30	4194.43	30.37N	4.24E	2.47	29.64	449469.44	529494.77
4233.00	13.90	347.40	4224.55	37.49N	2.57E	1.82	36.91	449467.77	529501.89
4265.00	14.20	348.40	4255.60	45.09N	0.95E	1.21	44.65	449466.15	529509.49
4296.00	14.80	350.20	4285.61	52.71N	0.49W	2.42	52.39	449464.71	529517.11
4360.00	16.20	352.60	4347.28	69.62N	3.03W	2.41	69.48	449462.17	529534.02
4392.00	15.70	352.70	4378.05	78.34N	4.16W	1.56	78.28	449461.04	529542.74
4455.00	15.30	352.30	4438.76	95.04N	6.35W	0.66	95.11	449458.85	529559.44
4487.00	14.80	352.30	4469.66	103.27N	7.47W	1.56	103.42	449457.73	529567.67
4551.00	14.80	353.00	4531.54	119.48N	9.56W	0.28	119.77	449455.64	529583.88
4614.00	15.50	352.60	4592.35	135.82N	11.62W	1.12	136.23	449453.58	529600.22
4676.00	14.90	350.90	4652.18	151.91N	13.95W	1.21	152.48	449451.25	529616.31
4738.00	14.80	350.50	4712.11	167.59N	16.52W	0.23	168.36	449448.68	529631.99
4801.00	15.80	350.90	4772.87	183.99N	19.20W	1.60	184.97	449446.00	529648.39
4864.00	16.30	350.90	4833.42	201.19N	21.96W	0.79	202.37	449443.24	529665.59
4927.00	16.30	351.20	4893.88	218.66N	24.71W	0.13	220.04	449440.49	529683.06
4990.00	16.10	351.60	4954.38	236.04N	27.34W	0.36	237.61	449437.86	529700.44
5053.00	16.30	353.30	5014.88	253.46N	29.65W	0.82	255.18	449435.55	529717.86
5117.00	17.00	353.30	5076.20	271.67N	31.79W	1.09	273.52	449433.41	529736.07
5179.00	16.90	353.30	5135.50	289.62N	33.89W	0.16	291.60	449431.31	529754.02
5239.00	16.40	353.30	5192.99	306.70N	35.90W	0.83	308.79	449429.30	529771.10
5301.00	16.30	353.30	5252.48	324.03N	37.94W	0.16	326.24	449427.26	529788.43
5364.00	15.70	352.60	5313.04	341.26N	40.07W	1.00	343.61	449425.13	529805.66
5427.00	15.50	353.30	5373.72	358.08N	42.15W	0.44	360.55	449423.05	529822.48
5490.00	15.60	353.30	5434.41	374.85N	44.12W	0.16	377.44	449421.08	529839.25
5553.00	15.60	352.30	5495.09	391.66N	46.24W	0.43	394.38	449418.96	529856.06
5616.00	15.90	350.90	5555.73	408.57N	48.74W	0.77	411.47	449416.46	529872.97
5679.00	16.30	351.20	5616.26	425.83N	51.46W	0.65	428.93	449413.74	529890.23
5742.00	16.30	353.30	5676.73	443.35N	53.84W	0.94	446.61	449411.36	529907.75
5805.00	16.30	353.00	5737.19	460.91N	55.95W	0.13	464.29	449409.25	529925.31
5869.00	16.60	353.00	5798.57	478.89N	58.16W	0.47	482.41	449407.04	529943.29
5932.00	16.50	353.30	5858.96	496.71N	60.30W	0.21	500.36	449404.90	529961.11
5996.00	15.90	353.00	5920.42	514.44N	62.43W	0.95	518.21	449402.77	529978.84
6059.00	15.50	353.30	5981.07	531.37N	64.46W	0.65	535.26	449400.74	529995.77
6123.00	16.70	353.70	6042.56	549.00N	66.47W	1.88	553.01	449398.73	530013.40
6186.00	16.70	354.00	6102.90	567.00N	68.41W	0.14	571.11	449396.79	530031.40
6250.00	16.00	354.40	6164.31	584.92N	70.23W	1.11	589.12	449394.97	530049.32
6313.00	16.40	354.10	6224.81	602.41N	71.99W	0.65	606.70	449393.21	530066.81
6377.00	15.80	354.00	6286.30	620.06N	73.83W	0.94	624.44	449391.37	530084.46
6439.00	16.00	353.70	6345.93	636.95N	75.65W	0.35	641.43	449389.55	530101.35
6503.00	15.90	353.70	6407.47	654.43N	77.58W	0.16	659.01	449387.62	530118.83
6565.00	16.20	354.00	6467.05	671.47N	79.42W	0.50	676.15	449385.78	530135.87
6629.00	16.20	353.00	6528.51	689.21N	81.44W	0.44	694.01	449383.76	530153.61

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1118.13 on azimuth 353.52 degrees from wellhead.
Vertical section is from S 0.00 E 0.00 on azimuth 353.12 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Marathon Oil Company
INDIAN HILLS UNIT 45, slot #1
INDIAN BASIN, Eddy County New Mexico

SURVEY LISTING Page 3
Your ref : MWD
Last revised : 7-Aug-2002

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES	Dogleg Deg/100ft	Vert Sect	GRID Easting	COORDS Northing	
6692.00	16.80	354.10	6588.91	707.00N	83.45W	1.08	711.90	449381.75	530171.40
6755.00	16.70	355.10	6649.24	725.07N	85.15W	0.49	730.05	449380.05	530189.47
6817.00	17.40	354.80	6708.52	743.18N	86.76W	1.14	748.22	449378.44	530207.58
6879.00	16.90	354.70	6767.76	761.39N	88.43W	0.81	766.50	449376.77	530225.79
6942.00	15.80	355.80	6828.21	779.06N	89.90W	1.81	784.22	449375.30	530243.46
7006.00	14.60	354.70	6889.97	795.78N	91.29W	1.93	800.99	449373.91	530260.18
7070.00	14.70	355.80	6951.89	811.91N	92.63W	0.46	817.16	449372.57	530276.31
7134.00	13.40	356.50	7013.97	827.41N	93.67W	2.05	832.67	449371.53	530291.81
7197.00	12.00	352.30	7075.43	841.19N	95.00W	2.66	846.51	449370.20	530305.59
7259.00	12.20	350.50	7136.05	854.04N	96.94W	0.69	859.50	449368.26	530318.44
7322.00	13.50	349.80	7197.48	867.84N	99.34W	2.08	873.49	449365.86	530332.24
7386.00	14.80	352.30	7259.53	883.29N	101.76W	2.24	889.12	449363.44	530347.69
7450.00	14.40	351.90	7321.47	899.27N	103.98W	0.64	905.25	449361.22	530363.67
7514.00	14.60	354.40	7383.43	915.18N	105.88W	1.03	921.27	449359.32	530379.58
7577.00	14.80	354.40	7444.37	931.09N	107.45W	0.32	937.26	449357.75	530395.49
7641.00	16.50	356.20	7505.99	948.30N	108.85W	2.76	954.51	449356.35	530412.70
7673.00	17.00	357.20	7536.63	957.50N	109.37W	1.80	963.71	449355.83	530421.90
7736.00	17.10	355.50	7596.87	975.94N	110.55W	0.81	982.15	449354.65	530440.34
7800.00	16.40	354.80	7658.15	994.31N	112.11W	1.14	1000.58	449353.09	530458.71
7864.00	17.10	355.10	7719.43	1012.69N	113.73W	1.10	1019.02	449351.47	530477.09
7926.00	16.30	353.40	7778.82	1030.41N	115.51W	1.51	1036.83	449349.69	530494.81
7989.00	15.30	351.60	7839.44	1047.42N	117.74W	1.77	1053.98	449347.46	530511.82
8053.00	15.70	352.60	7901.11	1064.36N	120.09W	0.75	1071.08	449345.11	530528.76
8116.00	15.40	352.60	7961.80	1081.11N	122.26W	0.48	1087.97	449342.94	530545.51
8180.00	15.30	352.60	8023.52	1097.91N	124.45W	0.16	1104.91	449340.75	530562.31
8230.00	15.30	352.60	8071.75	1110.99N	126.15W	0.00	1118.10	449339.05	530575.39

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1118.13 on azimuth 353.52 degrees from wellhead.
Vertical section is from S 0.00 E 0.00 on azimuth 353.12 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Marathon Oil Company
INDIAN HILLS UNIT 45, slot #1
INDIAN BASIN, Eddy County New Mexico

SURVEY LISTING Page 4
Your ref : MWD
Last revised : 7-Aug-2002

NO PROPOSAL

[illegible]

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
UPPER PENN	7550	8230	DOLOMITE, LIMESTONE & SHALE VUGS	SAN ANDRES GLORIETA YESO BASE OF BONE SPRING SANDS TUBB ABO WOLFCAMP CISCO CANYON	783 2400 2556 T5187 6764 6858 6885 7550 7721

32. Additional remarks (include plugging procedure):
Logs, Inclination Survey and Directional Survey will be sent by regular mail. I will include one copy of this report for reference.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7. Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #15628 Verified by the BLM Well Information System.
For MARATHON OIL COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by Armando Lopez on 10/30/2002 ()

Name (please print) GINNY LARKE

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 10/30/2002

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.

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

Additional data for transaction #15... that would not fit on the form

26. Perforation Record, continued

Perf Interval	Size	No. Holes	Perf Status
7829 TO 7833		16	OPEN

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised March 25, 1999

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1 Operator name and Address Marathon Oil Company P. O. Box 552 Midland, TX 79701		2 OGRID Number 014021
3 Reason for Filing Code New Well		
4 API Number 30-0 30-015-32338	5 Pool Name Indian Basin Upper Perm Associated Pool	6 Pool Code 33685
7 Property Code 6409	8 Property Name Indian Hills Unit	9 Well Number 45

II. Surface Location

UL or lot no. A	Section 28	Township 21-S	Range 24-E	Lot. Idn	Feet from the 806	North/South Line North	Feet from the 1010	East/West line East	County Eddy
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Bottom Hole Location

UL or lot no. P	Section 21	Township 21-S	Range 24-E	Lot. Idn	Feet from the 305	North/South Line South	Feet from the 1136	East/West line East	County Eddy
12 Lse Code F	13 Producing Method Code Pump	14 Gas Connection Date 10/1/02	15 C-129 Permit Number	16 C-129 Effective Date	17 C-129 Expiration Date				

III. Oil and Gas Transporters

18 Transporter OGRID 014035	19 Transporter Name and Address MARATHON OIL COMPANY P. O. BOX 1324 ARTESIA, NM 88211-1324	20 POD 2823213	21 O/G GAS	22 POD ULSTR Location and Description UL "P", SECTION 19, T-21-S, R-24-E, LOT 12
2264	BIG TEK CRUDE OIL COMPANY P. O. BOX 5722 ABILENE, TX 79608	2816323	OIL	UL "P", SECTION 19, T-21-S, R-24-E, LOT 12

IV. Produced Water

23 POD 2823214	24 POD ULSTR Location and Description UL "P", SECTION 19, T-21-S, R-24-E
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V. Well Completion Data

25 Spud Date 7/24/02	26 Ready Date 9/25/02	27 TD 8237	28 PBDT 8193	29 Perforations 7627'-7833'	30 DHC, MC
31 Hole Size 12.25	32 Casing & Tubing Size 9.625	33 Depth Set 1208	34 Sacks Cement 1225		
8.75	7	8237	1395		
	3.5	8129			

VI. Well Test Data

35 Date New Oil 10/1/02	36 Gas Delivery Date 10/1/02	37 Test Date 10/8/02	38 Test Length 24 HRS	39 Tbg. Pressure 290	40 Csg. Pressure 220
41 Choke Size 111	42 Oil 328	43 Water 200	44 Gas PUMP	45 AOF	46 Test Method

47 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Ginny Lark*

Printed name:
Ginny Lark

Title:
Engineer Technician

Date:
10/30/02

Phone:
915-687-8321

Approved by:

ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR

Title:

Approval Date:

NOV 06 2002

48 If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

Geol. Tops per 1Bch (M-D)
San Andres 726
Glorieta 2405
Bone Spring
Wolfcamp Sh 6886
Upper Penn 7556

TVD: MD
11-1-02
WV/30-LD/CN/NGT
200-8100
WV/NGR/SPECTROSCOPY
1208-8100

NSL-4750
(BHL) (SD)

CMD : ONGARD 04/23/04 10:51:05
OG6IWCW INQUIRE WELL COMPLETIONS OGOMES -TQBA

API Well No : 30 15 32539 Eff Date : 12-05-2003 WC Status : A
Pool Idn : 33685 INDIAN BASIN;UPPER PENN (ASSOC)
OGRID Idn : 14021 MARATHON OIL CO
Prop Idn : 6409 INDIAN HILLS UNIT

Well No : 041
GL Elevation: 4017

U/L Sec Township Range North/South East/West Prop/Act (P/A)

B.H. Locn : H 21 21S 24E FTG 1770 F N FTG 1251 F E P
Lot Identifier:
Dedicated Acre: 320.00
Lease Type : F
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll
PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06
PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

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

Form C-104
Revised June 10, 2003

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1 Operator name and Address Marathon Oil Company P.O. Box 3487 Houston, Texas 77253-3487		2 OGRID Number 14021
4 API Number 30-0 15-32539		3 Reason for Filing Code/Effective Date NEW
5 Pool Name INDIAN BASIN UPPER PENN ASSOCIATED	6 Pool Code 33685	
7 Property Code 006409	8 Property Name INDIAN HILLS UNIT	9 Well Number 41

II. Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
P	16	21S	24E		199	NEL	524	NEL	EDDY

11 Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
H	21	21S	24E		1770	NEL	1251	NEL	EDDY

12 Lse Code P	13 Producing Method Code P	14 Gas Connection Date 12/05/2003	15 C-129 Permit Number	16 C-129 Effective Date	17 C-129 Expiration Date
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III. Oil and Gas Transporters

18 Transporter OGRID	19 Transporter Name and Address	20 POD	21 O/G	22 POD ULSTR Location and Description
138648	AMOCO PIPELINE TRUCKS 502 N. WEST AVENUE LIVELAND, TEXAS 79336	2816323	OIL	UL "P", SECTION 19, T-21-S, R-24-E
14035	MARATHON OIL COMPANY P.O. BOX 1324 ARTESIA, NEW MEXICO 88211-1324	2829026	GAS	UL "N", SECTION 17, T-21-S, R-24-E
				RECEIVED
				APR 08 2004
				OCD-ARTESIA

IV. Produced Water

23 POD 2829027	24 POD ULSTR Location and Description UL "P", Section 19, T-21-S, R-24-E, Eddy county, New Mexico
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V. Well Completion Data

25 Spud Date 11/01/2003	26 Ready Date 12/05/2003	27 TD 8800	28 PBTD 8698	29 Perforations 8140 -- 8432	30 DHC, MC
31 Hole Size 12.250	32 Casing & Tubing Size 9.625	33 Depth Set 1800	34 Sacks Cement 1300		
8.750	7.00	8800	1275		

VI. Well Test Data

35 Date New Oil 12/05/2003	36 Gas Delivery Date 12/05/2003	37 Test Date 12/23/2003	38 Test Length 24	39 Tbg. Pressure 240	40 Csg. Pressure 200
41 Choke Size N/A	42 Oil 324.0	43 Water 1014.0	44 Gas 830	45 AOF	46 Test Method Pumping

47 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Charles E. Kendrick*

Printed name:
Charles E. Kendrick

Title:
Engineering Technician

Email:
cekendrix@marathonoil.com

Date:
04/05/2004

Phone:
713-296-2096

OIL CONSERVATION DIVISION

Approved by:

Line Oil Division
District Supervisor

Title:

Approval Date:

APR 09 2004

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other		5. Lease Serial No. NMNM07260	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator MARATHON OIL COMPANY		7. Unit or CA Agreement Name and No. NMNM70964X	
3. Address P.O. BOX 3487 HOUSTON, TX 77253-3487		8. Lease Name and Well No. INDIAN HILLS UNIT 41	
3a. Phone No. (include area code) Ph: 713.296.2098		9. API Well No. 30-015-32539	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SESE Lot P 199FSL 524FEL At top prod interval reported below SENE Lot H 1592FNL 1193FEL At total depth SENE Lot H 1770FNL 1251FEL		10. Field and Pool, or Exploratory INDIAN BASIN U. PENN. ASSOC.	
14. Date Spudded 11/01/2003		11. Sec., T., R., M., or Block and Survey or Area Sec 16 T21S R24E Mer NMP	
15. Date T.D. Reached 11/19/2003		12. County or Parish EDDY	
16. Date Completed ☐ D & A ☒ Ready to Prod. 12/05/2003		13. State NM	
17. Elevations (DF, KB, RT, GL)* 4017 GL			
18. Total Depth: MD 8800 TVD 8457		19. Plug Back T.D.: MD 8698 TVD 8359	
20. Depth Bridge Plug Set: MD TVD			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GAMMA RAY, DUAL SPACED NEUTRON, SPRECTRAL DENSITY		22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)	

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	9.625 K 55	36.0		1800		1300		0	0
8.750	7.000 K 55	26.0		8800	7010	1240		0	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	8490							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
INDIAN BASIN U. PENN. ASSOC.	8108	8432	8140 TO 8432		588	SIX INTERVALS 4 SHOTS /FT
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8140 TO 8432	TREATED IN 2' INTERVALS W/100 GAL. 17% CCA SOUR PER FT. 15,000 GALS TOTAL

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28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/05/2003	12/23/2003	24	→	324.0	830.0	1014.0			ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. 240 SI	Csg. Press. 200.0	24 Hr. Rate →	Oil BBL 324	Gas MCF 830	Water BBL 1014	Gas:Oil Ratio 2562	Well Status PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

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(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #28336 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Plwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Plwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
UPPER PENN	8118	8442		SAN ANDRES GLORIETA YESO BONE SPRING WOLFCAMP CISCO	1119 2842 3026 5686 7354 8118

32. Additional remarks (include plugging procedure):

A COPY OF THE INCLINATION REPORT, DEVIATION SURVEY, AND LOGS WILL BE SENT TO THE BLM'S ROSWELL OFFICE.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #28336 Verified by the BLM Well Information System.
For MARATHON OIL COMPANY, sent to the Carlsbad

Name (please print) CHARLES KENDRIXTitle AUTHORIZED REPRESENTATIVESignature (Electronic Submission)Date 04/05/2004

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

RECEIVED

APR 08 2004

* * * N A U T I C A L (V e r s i o n 4 . 0) * * *

Well: Indian Hills Unit #41

Target Azimuth: 199.76

Target TVD: 8450

Closure Direction: 200.00 ~~200.00~~ ARTESIA

Calculation Method - Minimum Curvature

Measured Depth (ft)	Inclination (deg.)	Azimuth (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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	<==== Tie-in Data				
100.00	0.49	218.11	100.00	0.41	-0.34	-0.26	0.43	0.005	2.181	0.49	gyro
200.00	0.26	302.53	200.00	0.76	-0.55	-0.72	0.91	-0.002	0.844	0.53	gyro
300.00	0.52	241.56	300.00	1.05	-0.64	-1.31	1.46	0.003	-0.610	0.45	gyro
400.00	0.43	150.84	399.99	1.63	-1.19	-1.53	1.93	-0.001	-0.907	0.68	gyro
500.00	0.23	128.20	499.99	1.94	-1.64	-1.19	2.02	-0.002	-0.226	0.24	gyro
600.00	0.20	88.58	599.99	1.95	-1.76	-0.85	1.96	0.000	-0.396	0.15	gyro
700.00	0.16	71.63	699.99	1.80	-1.71	-0.55	1.80	0.000	-0.170	0.07	gyro
800.00	0.13	40.39	799.99	1.60	-1.58	-0.34	1.62	0.000	-0.312	0.08	gyro
900.00	0.16	355.44	899.99	1.37	-1.36	-0.28	1.38	0.000	-0.450	0.11	gyro
1000.00	0.22	357.62	999.99	1.06	-1.03	-0.30	1.07	0.001	0.022	0.06	gyro
1100.00	0.36	359.33	1,099.99	0.59	-0.52	-0.31	0.60	0.001	0.017	0.14	gyro
1200.00	0.55	6.47	1,199.98	-0.17	0.27	-0.26	0.37	0.002	0.071	0.20	gyro
1300.00	0.58	24.69	1,299.98	-1.14	1.21	0.01	1.21	0.000	0.182	0.18	gyro
1400.00	0.73	26.61	1,399.97	-2.28	2.24	0.50	2.29	0.002	0.019	0.15	gyro
1500.00	0.95	23.55	1,499.96	-3.74	3.57	1.12	3.74	0.002	-0.031	0.22	gyro
1600.00	0.86	29.67	1,599.95	-5.30	4.98	1.82	5.30	-0.001	0.061	0.13	gyro
1700.00	0.76	50.29	1,699.94	-6.61	6.06	2.71	6.63	-0.001	0.206	0.31	gyro
1800.00	0.30	105.47	1,799.94	-7.20	6.41	3.47	7.29	-0.005	0.552	0.64	gyro
1875.00	0.34	358.67	1,874.94	-7.43	6.58	3.65	7.53	0.001	3.376	0.69	gyro
1950.00	1.58	210.81	1,949.93	-6.62	5.91	3.12	6.69	0.017	-1.971	2.50	mwd
2028.00	3.43	209.06	2,027.85	-3.26	2.95	1.43	3.28	0.024	-0.022	2.37	mwd
2091.00	4.57	208.30	2,090.69	1.08	-0.91	-0.67	1.13	0.018	-0.012	1.81	mwd
2155.00	5.50	205.90	2,154.45	6.65	-5.91	-3.22	6.73	0.015	-0.038	1.49	mwd
2218.00	7.20	203.10	2,217.06	13.60	-12.26	-6.09	13.69	0.027	-0.044	2.74	mwd
2281.00	9.20	202.40	2,279.41	22.57	-20.55	-9.56	22.66	0.032	-0.011	3.18	mwd
2345.00	10.90	200.90	2,342.43	33.73	-30.93	-13.67	33.82	0.027	-0.023	2.69	mwd
2407.00	12.40	202.00	2,403.15	46.24	-42.58	-18.25	46.33	0.024	0.018	2.45	mwd
2471.00	14.10	200.90	2,465.44	60.90	-56.24	-23.61	60.99	0.027	-0.017	2.69	mwd
2535.00	16.00	200.20	2,527.24	77.52	-71.80	-29.43	77.60	0.030	-0.011	2.98	mwd
2598.00	17.70	198.80	2,587.54	95.78	-89.01	-35.52	95.84	0.027	-0.022	2.77	mwd
2661.00	18.90	199.50	2,647.35	115.56	-107.70	-42.01	115.60	0.019	0.011	1.94	mwd
2723.00	19.90	198.90	2,705.83	136.15	-127.15	-48.78	136.18	0.016	-0.010	1.64	mwd
2787.00	19.90	198.90	2,766.01	157.93	-147.76	-55.84	157.96	0.000	0.000	0.00	mwd
2850.00	19.90	199.20	2,825.25	179.38	-168.03	-62.84	179.39	0.000	0.005	0.16	mwd
2914.00	19.20	198.90	2,885.56	200.79	-188.27	-69.83	200.80	-0.011	-0.005	1.10	mwd
2977.00	18.80	199.50	2,945.12	221.30	-207.64	-76.57	221.31	-0.006	0.010	0.71	mwd
3040.00	18.90	198.80	3,004.74	241.65	-226.87	-83.25	241.66	0.002	-0.011	0.39	mwd
3104.00	19.70	199.50	3,065.15	262.80	-246.85	-90.19	262.81	0.013	0.011	1.30	mwd
3166.00	20.30	200.20	3,123.41	284.01	-266.79	-97.39	284.01	0.010	0.011	1.04	mwd
3230.00	19.60	201.30	3,183.57	305.84	-287.21	-105.12	305.85	-0.011	0.017	1.24	mwd
3294.00	19.10	201.30	3,243.95	327.04	-306.97	-112.83	327.05	-0.008	0.000	0.78	mwd
3356.00	18.50	201.70	3,302.64	347.01	-325.56	-120.15	347.02	-0.010	0.006	0.99	mwd
3420.00	18.60	202.00	3,363.32	367.36	-344.46	-127.73	367.38	0.002	0.005	0.22	mwd
3483.00	19.20	203.10	3,422.92	387.74	-363.30	-135.56	387.77	0.010	0.017	1.11	mwd
3546.00	18.90	202.70	3,482.47	408.27	-382.24	-143.56	408.31	-0.005	-0.006	0.52	mwd
3608.00	19.10	200.60	3,541.09	428.44	-401.00	-151.00	428.49	0.003	-0.034	1.15	mwd
3672.00	19.70	200.30	3,601.46	449.70	-420.92	-158.43	449.75	0.009	-0.005	0.95	mwd
3736.00	20.30	199.50	3,661.60	471.59	-441.50	-165.88	471.64	0.009	-0.013	1.03	mwd
3799.00	20.30	198.50	3,720.69	493.44	-462.17	-172.99	493.49	0.000	-0.016	0.55	mwd
3862.00	19.30	197.10	3,779.96	514.77	-482.49	-179.52	514.80	-0.016	-0.022	1.76	mwd
3926.00	19.10	197.80	3,840.40	535.80	-502.56	-185.83	535.82	-0.003	0.011	0.48	mwd
3989.00	19.60	197.10	3,899.84	556.66	-522.48	-192.09	556.67	0.008	-0.011	0.87	mwd
4053.00	20.20	197.10	3,960.02	578.42	-543.30	-198.50	578.42	0.009	0.000	0.94	mwd

* * * N A U T I C A L (V e r s i o n 4 . 0) * * *

Well: Indian Hills Unit #41

Target Azimuth: 199.76
Target TVD: 8450

Closure Direction: 200

Calculation Method - Minimum Curvature

Measured Depth (ft)	Inclination (deg.)	Azimuth (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)
4116.00	19.90	196.70	4,019.20	599.99	-563.97	-204.78	599.99	-0.005	-0.006	0.52	mwd
4180.00	19.90	197.40	4,079.38	621.75	-584.79	-211.16	621.75	0.000	0.011	0.37	mwd
4244.00	18.90	198.80	4,139.75	642.99	-605.00	-217.76	642.99	-0.016	0.022	1.72	mwd
4307.00	18.90	198.80	4,199.35	663.40	-624.32	-224.34	663.40	0.000	0.000	0.00	mwd
4369.00	19.40	198.50	4,257.92	683.73	-643.59	-230.84	683.73	0.008	-0.005	0.82	mwd
4432.00	19.50	199.20	4,317.33	704.71	-663.44	-237.62	704.71	0.002	0.011	0.40	mwd
4496.00	19.70	197.40	4,377.62	726.17	-683.82	-244.36	726.17	0.003	-0.028	0.99	mwd
4559.00	19.90	198.10	4,436.89	747.49	-704.14	-250.86	747.50	0.003	0.011	0.49	mwd
4622.00	20.10	198.20	4,496.09	769.03	-724.62	-257.58	769.04	0.003	0.002	0.32	mwd
4686.00	20.50	197.80	4,556.12	791.23	-745.74	-264.44	791.23	0.006	-0.006	0.68	mwd
4749.00	20.00	197.80	4,615.23	813.02	-766.50	-271.10	813.03	-0.008	0.000	0.79	mwd
4813.00	19.90	198.50	4,675.38	834.85	-787.25	-277.90	834.86	-0.002	0.011	0.40	mwd
4876.00	19.90	197.80	4,734.62	856.28	-807.63	-284.58	856.30	0.000	-0.011	0.38	mwd
4939.00	19.70	197.40	4,793.90	877.61	-827.97	-291.04	877.63	-0.003	-0.006	0.38	mwd
5002.00	20.00	197.80	4,853.16	898.98	-848.36	-297.51	899.01	0.005	0.006	0.52	mwd
5072.00	19.80	198.50	4,918.98	922.80	-871.00	-304.93	922.83	-0.003	0.010	0.44	mwd
5134.00	19.50	198.80	4,977.36	943.65	-890.75	-311.59	943.68	-0.005	0.005	0.51	mwd
5197.00	18.70	199.90	5,036.90	964.26	-910.20	-318.42	964.29	-0.013	0.017	1.39	mwd
5260.00	18.50	199.90	5,096.61	984.35	-929.10	-325.26	984.39	-0.003	0.000	0.32	mwd
5324.00	18.80	198.80	5,157.25	1,004.82	-948.41	-332.04	1,004.85	0.005	-0.017	0.72	mwd
5386.00	19.10	198.80	5,215.88	1,024.95	-967.47	-338.53	1,024.98	0.005	0.000	0.48	mwd
5449.00	19.70	199.20	5,275.31	1,045.87	-987.25	-345.34	1,045.91	0.010	0.006	0.98	mwd
5513.00	19.30	198.10	5,335.64	1,067.23	-1,007.49	-352.17	1,067.27	-0.006	-0.017	0.85	mwd
5576.00	19.80	198.50	5,395.00	1,088.31	-1,027.51	-358.79	1,088.35	0.008	0.006	0.82	mwd
5640.00	20.20	199.50	5,455.14	1,110.19	-1,048.20	-365.92	1,110.24	0.006	0.016	0.82	mwd
5703.00	19.50	198.80	5,514.40	1,131.58	-1,068.41	-372.94	1,131.63	-0.011	-0.011	1.17	mwd
5765.00	18.20	198.80	5,573.07	1,151.61	-1,087.37	-379.40	1,151.66	-0.021	0.000	2.10	mwd
5828.00	17.90	197.80	5,632.97	1,171.13	-1,105.91	-385.53	1,171.18	-0.005	-0.016	0.68	mwd
5890.00	18.60	200.20	5,691.86	1,190.54	-1,124.26	-391.86	1,190.59	0.011	0.039	1.66	mwd
5954.00	18.50	201.30	5,752.53	1,210.89	-1,143.30	-399.07	1,210.94	-0.002	0.017	0.57	mwd
6018.00	18.20	202.00	5,813.28	1,231.03	-1,162.02	-406.50	1,231.07	-0.005	0.011	0.58	mwd
6080.00	18.30	199.20	5,872.16	1,250.44	-1,180.19	-413.33	1,250.48	0.002	-0.045	1.42	mwd
6144.00	18.90	198.10	5,932.82	1,270.85	-1,199.53	-419.85	1,270.89	0.009	-0.017	1.09	mwd
6207.00	19.60	197.10	5,992.29	1,291.60	-1,219.33	-426.13	1,291.65	0.011	-0.016	1.23	mwd
6271.00	19.50	196.00	6,052.60	1,312.98	-1,239.86	-432.23	1,313.04	-0.002	-0.017	0.60	mwd
6334.00	19.10	195.70	6,112.06	1,333.76	-1,259.89	-437.92	1,333.83	-0.006	-0.005	0.65	mwd
6398.00	18.90	197.10	6,172.58	1,354.56	-1,279.88	-443.80	1,354.64	-0.003	0.022	0.78	mwd
6462.00	18.60	198.50	6,233.18	1,375.12	-1,299.47	-450.09	1,375.21	-0.005	0.022	0.85	mwd
6526.00	18.80	198.10	6,293.80	1,395.63	-1,318.95	-456.53	1,395.72	0.003	-0.006	0.37	mwd
6589.00	18.50	198.10	6,353.49	1,415.77	-1,338.10	-462.79	1,415.87	-0.005	0.000	0.48	mwd
6651.00	18.40	196.70	6,412.31	1,435.37	-1,356.82	-468.66	1,435.48	-0.002	-0.023	0.73	mwd
6714.00	19.50	197.10	6,471.89	1,455.80	-1,376.39	-474.61	1,455.92	0.017	0.006	1.76	mwd
6777.00	19.30	200.30	6,531.32	1,476.72	-1,396.21	-481.31	1,476.84	-0.003	0.051	1.72	mwd
6839.00	18.80	199.60	6,589.92	1,496.95	-1,415.23	-488.22	1,497.07	-0.008	-0.011	0.89	mwd
6903.00	18.80	198.80	6,650.51	1,517.58	-1,434.71	-495.00	1,517.70	0.000	-0.012	0.40	mwd
6966.00	20.10	199.50	6,709.91	1,538.55	-1,454.52	-501.88	1,538.68	0.021	0.011	2.10	mwd
7030.00	20.30	198.80	6,769.97	1,560.65	-1,475.40	-509.13	1,560.77	0.003	-0.011	0.49	mwd
7093.00	19.50	199.90	6,829.21	1,582.09	-1,495.63	-516.23	1,582.22	-0.013	0.017	1.40	mwd
7156.00	18.50	201.30	6,888.78	1,602.60	-1,514.83	-523.44	1,602.72	-0.016	0.022	1.74	mwd
7220.00	18.20	200.90	6,949.53	1,622.74	-1,533.63	-530.70	1,622.85	-0.005	-0.006	0.51	mwd
7284.00	19.60	202.00	7,010.07	1,643.46	-1,552.92	-538.28	1,643.57	0.022	0.017	2.26	mwd
7348.00	21.20	203.10	7,070.06	1,665.74	-1,573.52	-546.85	1,665.83	0.025	0.017	2.57	mwd
7411.00	20.20	204.80	7,128.99	1,687.95	-1,593.87	-555.88	1,688.02	-0.016	0.027	1.85	mwd
7475.00	18.90	206.60	7,189.30	1,709.25	-1,613.17	-565.15	1,709.30	-0.020	0.028	2.24	mwd

* * * N A U T I C A L (V e r s i o n 4 . 0) * * *

Well: Indian Hills Unit #41

Target Azimuth: 199.76

Closure Direction: 200

Target TVD: 8450

Calculation Method - Minimum Curvature

Measured Depth (ft)	Inclination (deg.)	Azimuth (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)
7539.00	17.80	208.70	7,250.05	1,729.21	-1,631.02	-574.49	1,729.24	-0.017	0.033	2.01	mwd
7603.00	17.60	209.40	7,311.02	1,748.41	-1,648.03	-583.94	1,748.42	-0.003	0.011	0.46	mwd
7666.00	17.00	209.00	7,371.17	1,766.89	-1,664.38	-593.08	1,766.89	-0.010	-0.006	0.97	mwd
7729.00	16.90	209.40	7,431.43	1,785.01	-1,680.42	-602.04	1,785.01	-0.002	0.006	0.24	mwd
7793.00	17.30	207.30	7,492.60	1,803.61	-1,696.98	-610.97	1,803.61	0.006	-0.033	1.15	mwd
7857.00	18.00	201.30	7,553.59	1,822.93	-1,714.65	-618.93	1,822.93	0.011	-0.094	3.04	mwd
7919.00	17.70	198.10	7,612.61	1,841.93	-1,732.53	-625.34	1,841.93	-0.005	-0.052	1.65	mwd
7983.00	17.20	197.10	7,673.66	1,861.11	-1,750.82	-631.14	1,861.11	-0.008	-0.016	0.91	mwd
8045.00	17.00	197.80	7,732.92	1,879.32	-1,768.21	-636.61	1,879.32	-0.003	0.011	0.46	mwd
8108.00	16.50	198.10	7,793.25	1,897.47	-1,785.49	-642.20	1,897.47	-0.008	0.005	0.81	mwd
8800.00	16.50	198.00	8,456.75	2,093.92	-1,972.35	-703.10	2,093.93	0.000	0.000	0.00	proj



McVAY DRILLING COMPANY
Post Office Box 924
Hobbs, New Mexico 88241
(505) 397-3311
FAX: 39-DRILL

Well Name and Number: Indian Hills Unit # 41

Location: Sec 16, 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	
¼	319	19 ¼	3294	18 ½	5954
¼	624	19 ¾	3608	18 ¾	6080
½	933	20 ½	3799	19 ½	6271
½	1239	18 ¾	4307	18 ½	6589
½	1552	19 ¾	4496	21 ¼	7347
¾	1777	20	4622	17 ¾	7539
3 ½	2028	19 ¾	4813	17	7665
4 ¼	2091	19 ¾	4939	18 ¼	7855
5 ¼	2155	20	5002	16 ½	8108
¼	2281	18 ½	5260		
16	2535	19	5386		
19 ¾	2850	20 ¼	5640		
19 ¾	3104	17 ¾	5828		

RECEIVED

APR 08 2004

GEB-ARTESIA

Drilling Contractor: McVay Drilling Company

By: [Signature]

Subscribed and sworn to before me this 25th day of November, 2003

[Signature]
Notary Public

My Commission Expires: 8-16-05

Lea County, New Mexico

NMOC

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

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

5. Lease Serial No.
NMNM07260

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM70964X

8. Well Name and No.
INDIAN HILLS UNIT 41

9. API Well No.
30-015-32539-00-X1

10. Field and Pool, or Exploratory
INDIAN BASIN UPPER PENN ASSOC

11. County or Parish, and State
EDDY COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
MARATHON OIL COMPANY

Contact: CHARLES KENDRIX
E-Mail: cekendrix@marathonoil.com

3a. Address
P O BOX 3487
HOUSTON, TX 77253-3487

3b. Phone No. (include area code)
Ph: 713.296.2096
Fx: 713.499.6750

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 16 T21S R24E SESE 199FSL 524FEL

RECEIVED

MAR - 4 2004

OCD-ARTESIA

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Production Start-up
	☐ 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 recompleat 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 recompleat 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.)

12/01/2003 RIH w/ 6 1/8" bit and scraper on 2 7/8" tubing tagged at 7002' drilled out cement and DV tool. Cont RIH tagged PBTD @ 8698 (281 jts).
12/02/2003 Rigged up Baker Atlas perforated in six intervals w/ 4 shots per foot 147 ft w/ 588 shots total at depths as follows:
8140' - 8162'
8177' - 8236'
8289' - 8296'
8309' - 8314'
8348' - 8358'
8388' - 8432'
RIH w/ 7" PPI Packers.
12/03/2003 Rigged up HES Acidizers treat perfs in 2' increments 78 settings w/ 100 gal per/ft 17%

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #27879 verified by the BLM Well Information System
For MARATHON OIL COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by LINDA ASKWIG on 02/26/2004 (04LA0207SE)

Name (Printed/Typed) CHARLES KENDRIX

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 02/26/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	(BLM Approver Not Specified) Title (ORIG. SGD.) ALEXIS C. SWOBODA	Date 03/02/2004
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.		
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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #27879 that would not fit on the form

32. Additional remarks, continued

CCA sour acid total of 15,000 gals. RIH w/ RBP set and tested.

12/04/2003 Pull kill string. RIH w/ ESP and tubing unset RPB cont in hole with pump 271 jts 2 7/8 bottom of tubing set at 8490'. Bottom of pump assembly at 8647'.

12/04/2003

12/04/2003

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOC

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 abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

RECEIVED

FFR 2-0 2004

AGARTESIA

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other		5. Lease Serial No. NMNM07260
2. Name of Operator MARATHON OIL COMPANY		6. If Indian, Allottee or Tribe Name
3a. Address P O BOX 3487 HOUSTON, TX 77253-3487		7. If Unit or CA/Agreement, Name and/or No. NMNM70964X
3b. Phone No. (include area code) Ph: 713.296.2096 Fx: 713.499.6750		8. Well Name and No. INDIAN HILLS UNIT 41
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 16 T21S R24E SESE 199FSL 524FEL		9. API Well No. 30-015-32539-00-X1
		10. Field and Pool, or Exploratory INDIAN BASIN UPPER PENN ASSOC
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ 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 recompleat 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 recompleat 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.)

11/04/2003 Setting of surface casing submitted in detail on well spud sundry.
11/05/2003 RIH w/ 8.75" bit tagged cement at 1730' drilled out cement to 1800'
Drilled formation from 1800' to 1895' started directional kickout at 1895' drilled to 2150'.
11/06/2003 through 11/16/2003 Directional drilled 2150' to 7911'.
11/17/2003 Drilled 7911' to 8219. Lost complete returns, dry drilled from 8219 to 8733' (TD).
11/18/2003 Made conditioning trip to run casing.
11/19/2003 Washed and reamed to TD @ 8800'. Condition hole to run casing.
Ran 7.0" K55 23 & 26# in the following design top to bottom.
2 jts 7" 26# K55
100 jts 7" 23# K55
49 jts 7" 26# K55
DV Tool N80

14. I hereby certify that the foregoing is true and correct. Electronic Submission #27827 verified by the BLM Well Information System For MARATHON OIL COMPANY, sent to the Carlsbad Committed to AFMSS for processing by ARMANDO LOPEZ on 02/17/2004 (04AL0102SE)	
Name (Printed/Typed) CHARLES KENDRIX	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 02/13/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	ALEXIS C SWOBODA <i>ACS</i> Title PETROLEUM ENGINEER	Date 02/18/2004
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.		
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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #27827 that would not fit on the form

32. Additional remarks, continued

ECP N80
37 jts 7" 26# K55
Float collar
1 jt 7" 26# K55
Float shoe

cont 11/19/2003 Cement Production casing

1st stage: Pumped 50,000 SCF N₂, 10 bbls 10% CaCl water, 10 bbl fresh water, 100 sacks Foamed Acid Soluble Cement mixed at 15.0 ppg., 2.55 cuft/sk yeild, 170 sks Foamed Premium Cement @ 15.2 ppg, 1.25 cuft/sk yield, 120 sacks Super H Cement @ 13.0 ppg, 1.68 cuft/sk yield. Dropped plug and displaced with 348 bbls fresh water. Bumped plug with 1500 psi. Set ECP, opened DV Tool circulated through DV tool.

2nd stage: Circulated through DV Tool returned dirty water and some N₂. Pumped 10 bbls fresh water 750 sks Interfill C @ 11.9 ppg, 2.46 cuft/sk yield, 100 sks Premium Plus @ 14.8 ppg, 1.32 cuft/sk yeild, Dropped plug and displaced with 273 bbls fresh water. Bumped plug with 2830 psi, closed DV Tool. (Got cement returns at surface at full circulation started loosing returns with 20 bbls left to pump)

Set slips, cut off 7" casing installed 11" 3M x 7 1/16" 3M tubing head.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on
reverse side)

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

CISF

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Marathon Oil Company

3. ADDRESS AND TELEPHONE NO.

P.O. Box 552 Midland, TX 79702

915-687-8360

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

199' FSL & 524' FEL
At proposed prod. zone

1800' FNL & 660' FEL

SUBJECT TO LIKE APPROVAL BY STATE

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15 miles NW of Carlsbad

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drip unit line, if any)

660' BHL

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320 E/2

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

*1600'

19. PROPOSED DEPTH

8500'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4017' G.L.

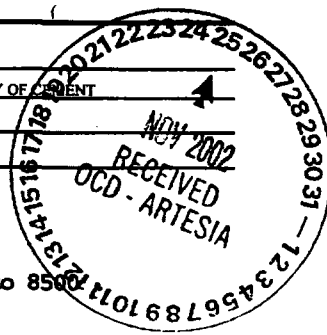
Carlsbad Controlled Water Basin

22. APPROX. DATE WORK WILL START*

ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12.25"	9-5/8" K--55	36#	1800'	640 sks.
8.750"	7" K-55	23#/ 25#	8500'	1280 sks.



Marathon Oil company is proposing to drill a directional Upper Perm. Assoc. gas well to 8500'

This well will have a Standard Bottom Hole Location which terminates within the 660'
set back for the Upper Perm. Associated Gas Pool.

*The proposed BHL of the IHU # 41 will be approximately 1600' Southeast of the IHU # 28
BHL.

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

James Fletcher

TITLE Engineer Tech.

DATE 10/04/02

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval 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.

CONDITIONS OF APPROVAL, IF ANY:

IS/ JOE G. LARA

ACTING

FIELD MANAGER

NOV 21 2002

APPROVED BY

TITLE

*See Instructions On Reverse Side

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001, 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.

DISTRICT I
P.O. Box 1988, Hobbs, NM 88241-1988

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

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

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 33685	Pool Name Indian Basin Upper Penn. Assoc.
Property Code	Property Name INDIAN HILLS UNIT	Well Number 41
OGRID No. 14021	Operator Name MARATHON OIL COMPANY	Elevation 4017'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	16	21-S	24-E		199'	SOUTH	524'	EAST	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
H	21	21-S	24-E		1800'	NORTH	660'	EAST	EDDY

Dedicated Acres 320 E/2	Joint or Infill	Consolidation Code	Order No.
----------------------------	-----------------	--------------------	-----------

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

SURF. LOC. GEODETIC COORDINATES NAD 27 NME Y = 535566.2 N X = 449530.7 E LAT. 32°28'20.20" N LONG. 104°29'49.14" W		SURF. LOC. 4009.1' 3993.7' 524'	
SEC. 16		SEC. 21	
Project Area		Producing Area	
IHU # 23 BHL		BH LOC. Y = 533568.0 X = 449401.8	

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Jerry Fletcher
Signature

Jerry Fletcher
Printed Name

Engineer Tech.
Title

10/04/02
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

SEPTEMBER 30, 2002

Date Surveyed
Signature & Seal of Professional Surveyor
Professional Surveyor
NEW MEXICO
02-11-05790
Certificate No. RONALD G. EIDSON 3239
CARY EIDSON 12641

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

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

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

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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 33685	Pool Name Indian Basin Upper Penn. Assoc.
Property Code	Property Name INDIAN HILLS UNIT	Well Number 41
GRID No. 14021	Operator Name MARATHON OIL COMPANY	Elevation 4017'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Bottom Hole Location If Different From Surface

UL or lot No. "H"	Section 21	Township 21-S	Range 24-E	Lot Idn	Feet from the 1800'	North/South line NORTH	Feet from the 660'	East/West line EAST	County EDDY
Dedicated Acres 320 E/2	Joint or Infill	Consolidation Code	Order No.						

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

Project Area Producing Area SECTION 2 1 IHU # 28 BHL IHU # 41 BHL IHU # 24 BHL 1800' 660' IHU # 45 BHL	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Jerry Fletcher</i> Signature Jerry Fletcher Printed Name Engineer Tech. Title 10/04/02 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Signature & Seal of Professional Surveyor Certificate No.
---	---

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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 abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Marathon Oil Company

3a. Address

P.O. Box 552 Midland, TX 79702

3b. Phone No. (include area code)

915-687-8360

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL @ 199' FSL & 524' FEL Section 16, T-21-S, R-24-E

BHL @ 1800' FNL & 753' FEL Section 21, T-21-S, R-24-E

Eddy Co. N.M.

5. Lease Serial No.

NM-07260

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA/Agreement, Name and/or No.

Indian Hills Unit

8. Well Name and No.

Indian Hills Unit 41

9. API Well No.

10. Field and Pool, or Exploratory Area

Indian Basin U.P. Assoc.

11. County or Parish, State

Eddy N.M.

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☐ Other

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 recompleate 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 recompleation 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 final site is ready for final inspection.)

Marathon Oil Company has changed the BHL on the directional plan to make sure the Penetration point and Terminus fall within the set back distance for the Indian Basin Upper Perm. Assoc. Gas Pool which is 660' from the outer boundary of the proration unit.

Please see attached new Directional Survey furnished by Baker Inteq for details as well as a new C-102 acreage dedication plat.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Jerry Fletcher

Title

Engineer Tech.

Date 11/15/02

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/s/ JOE G. LARA

Title

FIELD MANAGER

Date

NOV 21 2002

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.

Office

CARLSBAD FIELD OFFICE

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

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State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
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WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

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Property Code	Property Name INDIAN HILLS UNIT	Well Number 41
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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
H	21	21-S	24-E		1800'	NORTH	753'	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320 E/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

SURF. LOC. GEODETIC COORDINATES NAD 27 NME Y = 535566.2 N X = 449530.7 E LAT. 32°28'20.20" N LONG. 104°29'49.14" W		SEC. 16	
		SEC. 21	
Project Area		4009.1'	
660'		4013.1'	
660'		4011.2'	
1800'		753'	
BH Loc X= 533568.0 Y= 449301.8		IHU # 28 BHL	
Producing Area			

OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Jerry Fletcher
Signature
Jerry Fletcher
Printed Name
Engineer Tech.
Title
10/04/02
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

SEPTEMBER 30, 2002

Date Surveyed
Signature & Seal of Professional Surveyor
RONALD E. EIDSON
10/02/02
1092.11.0578

Certificate No. RONALD E. EIDSON 3239
GARY EIDSON 12641

Created By Kellym
 Date posted: 13-Mar-2002
 Plot Reference is PU 314 KJ/DH
 Coordinates are in feet reference slot #1
 True Vertical Depths are reference rotary high
 ihud174
 --- Baker Hughes INTEQ ---

Marathon Oil Company

Structure : Indian Hills Unit 41 Slot : slot #1
 Field : INDIAN BASIN Location : Eddy County New Mexico

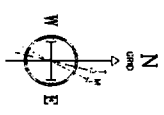
WELL PROFILE DATA

Foot	MD	Inc.	Dr	TRD	Birth	East	V. Steel	Depth
Top of	0.00	0.00	186.53	0.00	0.00	0.00	0.00	0.00
Top	2000.00	0.00	186.53	2000.00	0.00	0.00	0.00	0.00
End of Build	2726.17	18.15	186.53	2714.08	-11.34	-12.98	114.08	7.50
T.D. & Target	TD IHU 41	8815.19	18.15	186.53	8500.00	-1298.90	2011.27	0.00



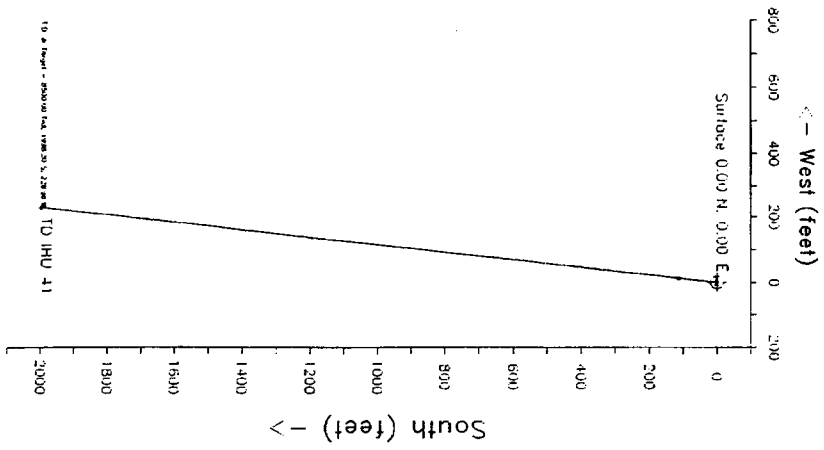
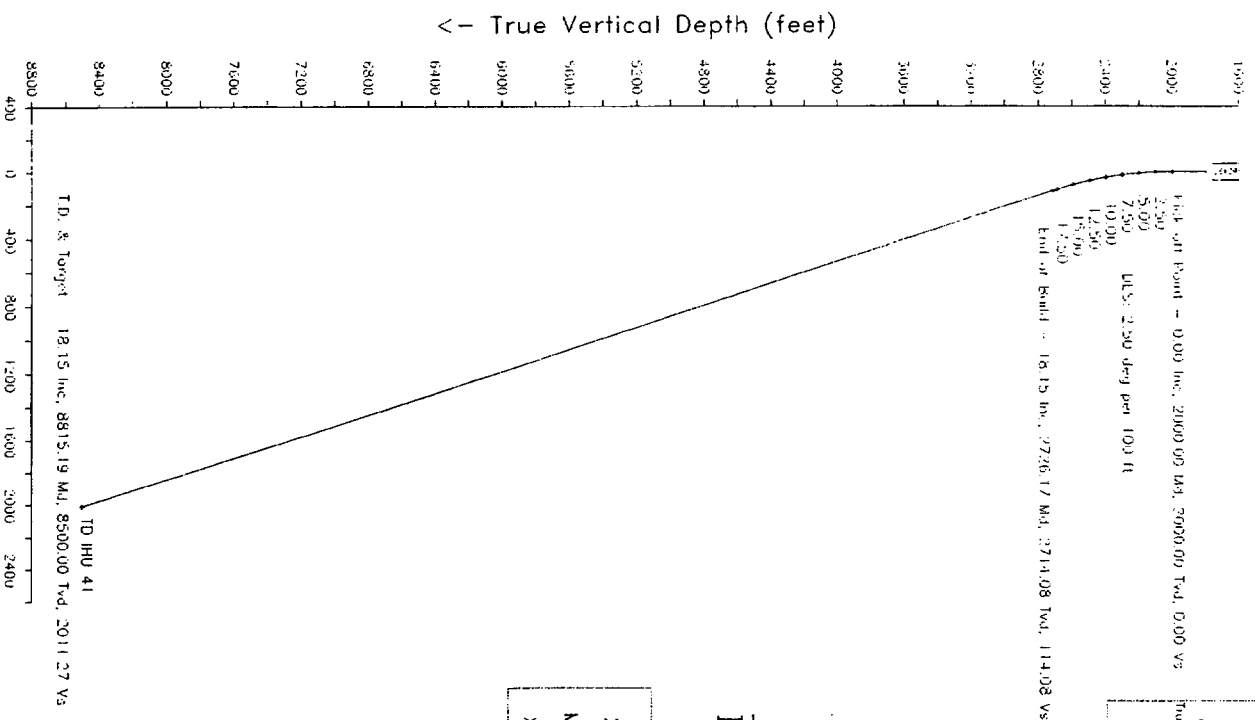
BAKER HUGHES
INTEQ

PROPOSED BHL
 2011.27' ON AZI 186.53 DECS
 FROM SURFACE LOCATION
 M.D.: 8815.19' T.V.D.: 8500.00'
 S-- 1998.20' W-- 228.90'
 X= 449301.80 Y= 533568.00



18-Mar-2002 (Source: BGM)
 Magnetic North is 824 degrees East of True North
 GRID North is 0.00 degrees East of True North
 To convert from True North to GRID North, add 824.00
 To convert from GRID North to True North, subtract 824.00

STRUCTURE SET-UP REFERENCE
 LAT : 33.28 20.137 N
 LONG : 101.79 48.165 W
 X = 449301.80 Y = 533568.00
 PROJECTION: MERCATOR
 Mercator Zone: 18N
 Spheroid Used: Clarke 1866
 Data Source: BGM
 Dip Angle: 0.00 deg
 Field Strength: 41000.50 nT



Azimuth 186.53 with reference 0.00 N, 0.00 E from slot #1

Marathon Oil Company
Indian Hills Unit 41

slot #1
INDIAN BASIN
Eddy County New Mexico

P R O P O S A L L I S T I N G

by
Baker Hughes INTEQ

Your ref : PO 2DJ RC/DH
Our ref : prop3497
License :

Date printed : 13-Nov-2002
Date created : 1-Oct-2002
Last revised : 13-Nov-2002

Field is centred on n32 30 0.000,w104 30 0
Structure is centred on 449530.700,535566.200,999.00000,N

Slot location is n32 28 20.197,w104 29 49.145
Slot Grid coordinates are N 535566.200, E 449530.700
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 41, slot #1
INDIAN BASIN, Eddy County New Mexico

PROPOSAL LISTING Page 1
Your ref : P0 2DU RC/DH
Last revised : 13-Nov-2002

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
0.00	0.00	186.53	0.00	0.00N	0.00	0.00	449530.70	535566.20
500.00	0.00	186.53	500.00	0.00N	0.00	0.00	449530.70	535566.20
1000.00	0.00	186.53	1000.00	0.00N	0.00	0.00	449530.70	535566.20
1500.00	0.00	186.53	1500.00	0.00N	0.00	0.00	449530.70	535566.20
2000.00	0.00	186.53	2000.00	0.00N	0.00	0.00	449530.70	535566.20
2100.00	2.50	186.53	2099.97	2.17S	0.25W	2.50	449530.45	535564.03
2200.00	5.00	186.53	2199.75	8.66S	0.99W	2.50	449529.71	535557.54
2300.00	7.50	186.53	2299.14	19.48S	2.23W	2.50	449528.47	535546.72
2400.00	10.00	186.53	2397.97	34.59S	3.96W	2.50	449526.74	535531.61
2500.00	12.50	186.53	2496.04	53.97S	6.18W	2.50	449524.52	535512.23
2600.00	15.00	186.53	2593.17	77.58S	8.89W	2.50	449521.81	535488.62
2700.00	17.50	186.53	2689.17	105.38S	12.07W	2.50	449518.63	535460.82
2726.17	18.15	186.53	2714.08	113.34S	12.98W	2.50	449517.72	535452.86
3000.00	18.15	186.53	2974.28	198.11S	22.69W	0.00	449508.01	535368.09
3500.00	18.15	186.53	3449.39	352.88S	40.42W	0.00	449490.28	535213.32
4000.00	18.15	186.53	3924.50	507.66S	58.15W	0.00	449472.55	535058.54
4500.00	18.15	186.53	4399.61	662.43S	75.88W	0.00	449454.82	534903.77
5000.00	18.15	186.53	4874.72	817.21S	93.61W	0.00	449437.09	534748.99
5500.00	18.15	186.53	5349.83	971.98S	111.34W	0.00	449419.36	534594.22
6000.00	18.15	186.53	5824.94	1126.76S	129.07W	0.00	449401.63	534439.44
6500.00	18.15	186.53	6300.06	1281.53S	146.80W	0.00	449383.90	534284.67
7000.00	18.15	186.53	6775.17	1436.31S	164.53W	0.00	449366.17	534129.89
7500.00	18.15	186.53	7250.28	1591.08S	182.26W	0.00	449348.44	533975.12
8000.00	18.15	186.53	7725.39	1745.86S	199.99W	0.00	449330.71	533820.34
8500.00	18.15	186.53	8200.50	1900.63S	217.72W	0.00	449312.98	533665.57
8815.19	18.15	186.53	8500.00	1998.20S	228.90W	0.00	449301.80	533568.00

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
 Coordinates from slot #1 and TVD from rotary table.
 Bottom hole distance is 2011.27 on azimuth 186.53 degrees from wellhead.
 Vertical section is from N 0.00 E 0.00 on azimuth 186.53 degrees.
 Grid is mercator - New Mexico East (3001).
 Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
 Presented by Baker Hughes INTEQ

Marathon Oil Company
 Indian Hills Unit 41, slot #1
 INDIAN BASIN, Eddy County New Mexico

PROPOSAL LISTING Page 2
 Your ref : P0 2DJ RC/DH
 Last revised : 13-Nov-2002

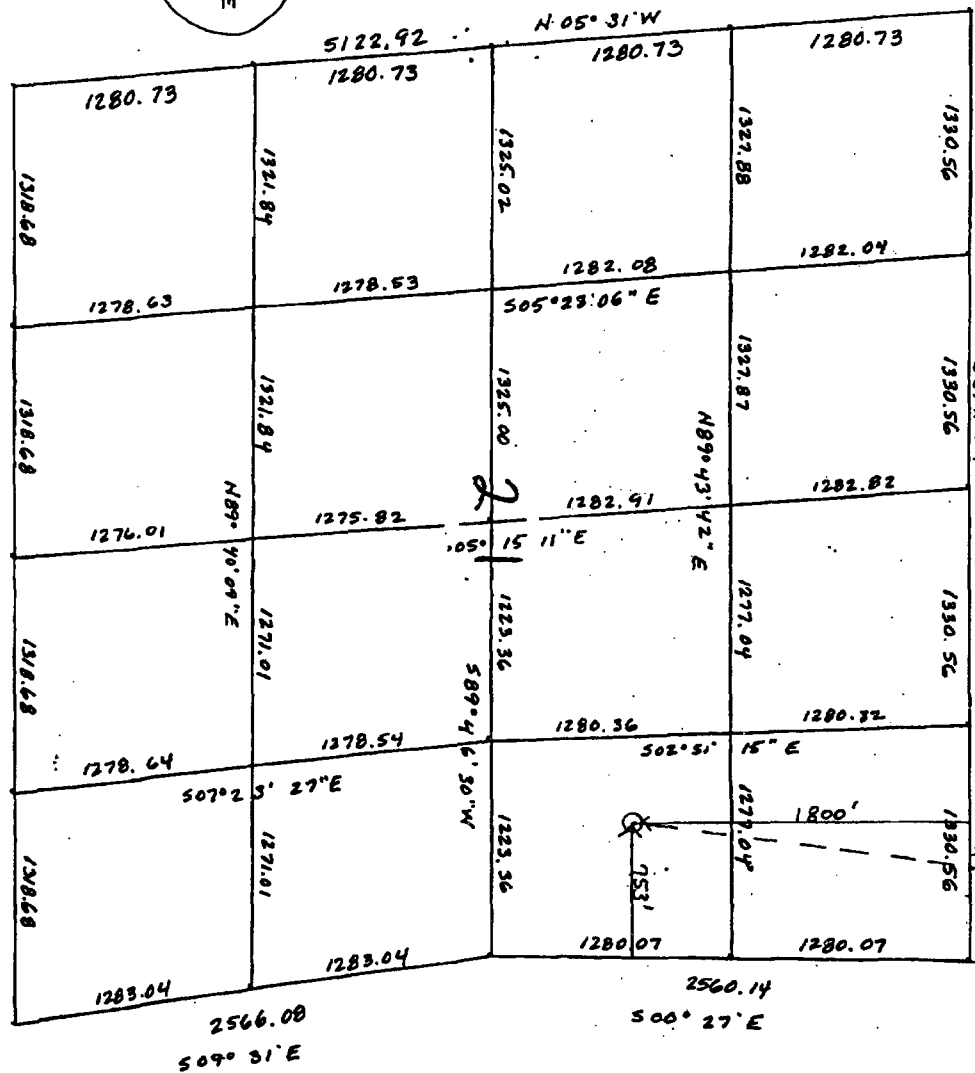
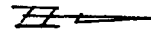
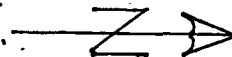
Comments in wellpath
 =====
 MD TVD Rectangular Coords. Comment

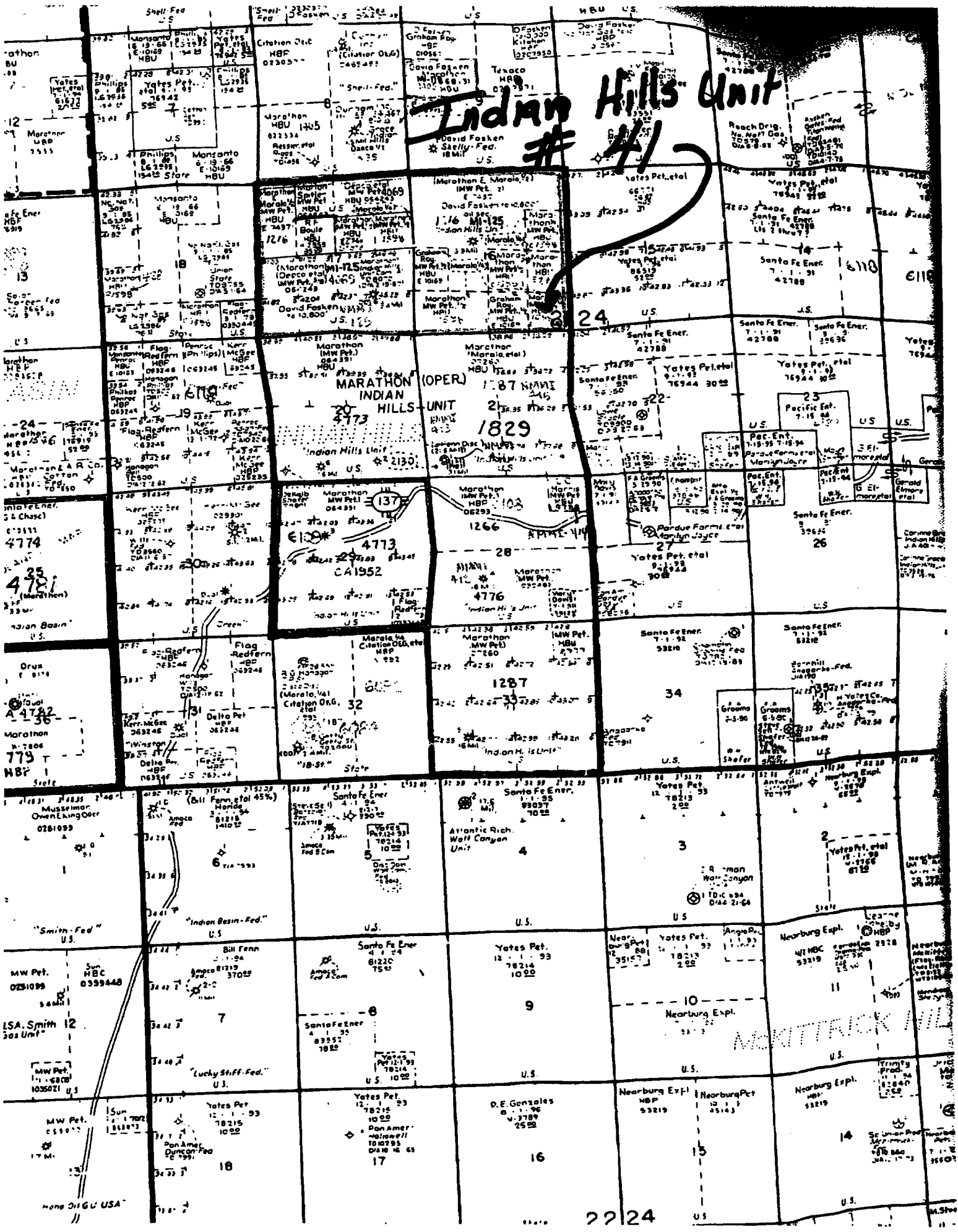
8815.19 8500.00 1998.20S 228.90W TD IHU 41

Targets associated with this wellpath
 =====
 Target name Geographic Location T.V.D. Rectangular Coordinates Revised

TD IHU 41 449301.800, 533568.000, 0.00000 8500.00 1998.20S 228.90W 1-Oct-2002

Section 21
T215, R24E
Eddy Co.





Indian Hills Unit
41

MARATHON INDIAN HILLS UNIT (OPER.)

1829

4773

CA1952

4776

1287

4776

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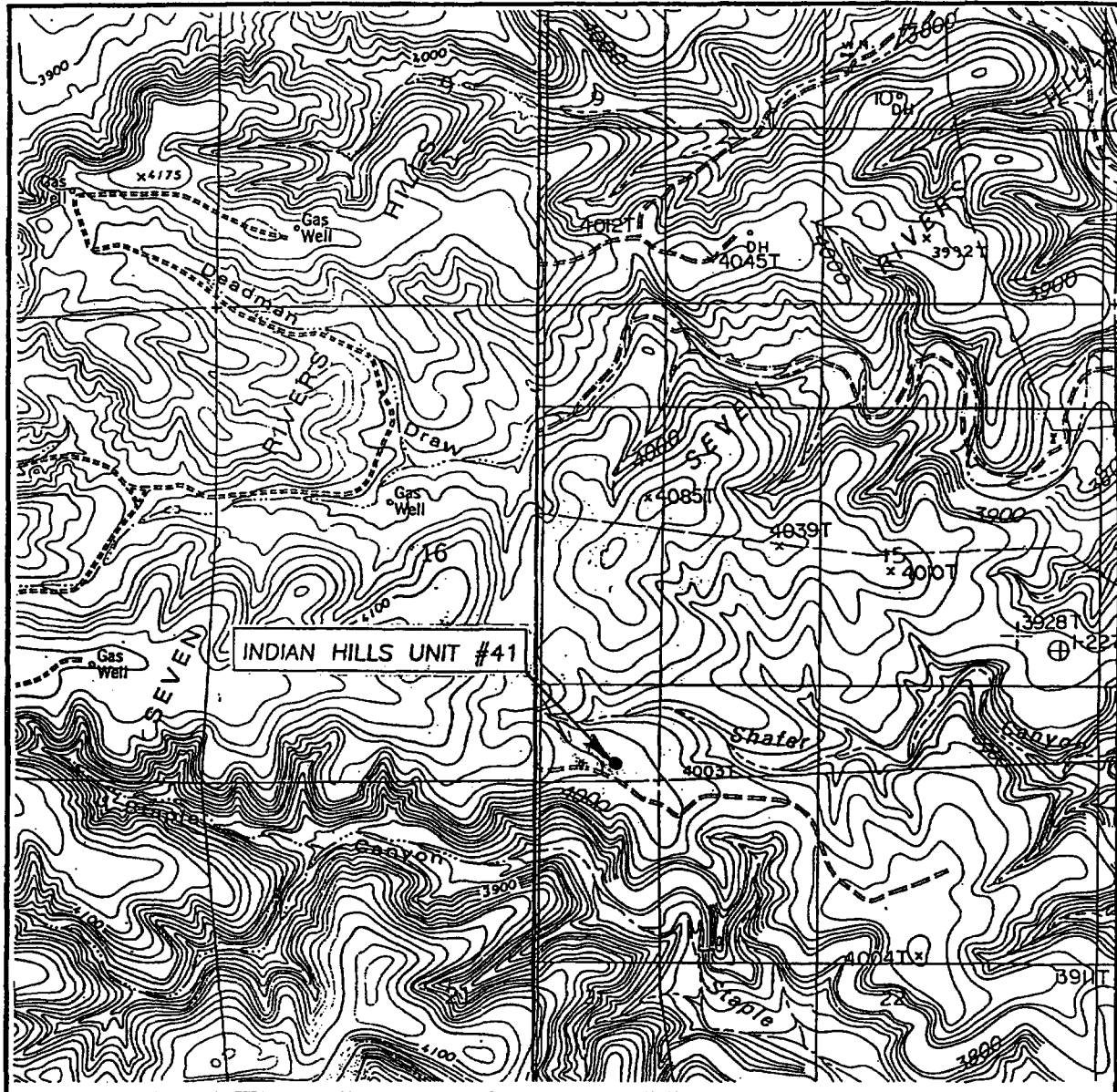
1287

4776

1287

4776

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

SEC. 16 TWP. 21-S RGE. 24-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 199' FSL 524' FEL

ELEVATION 4017'

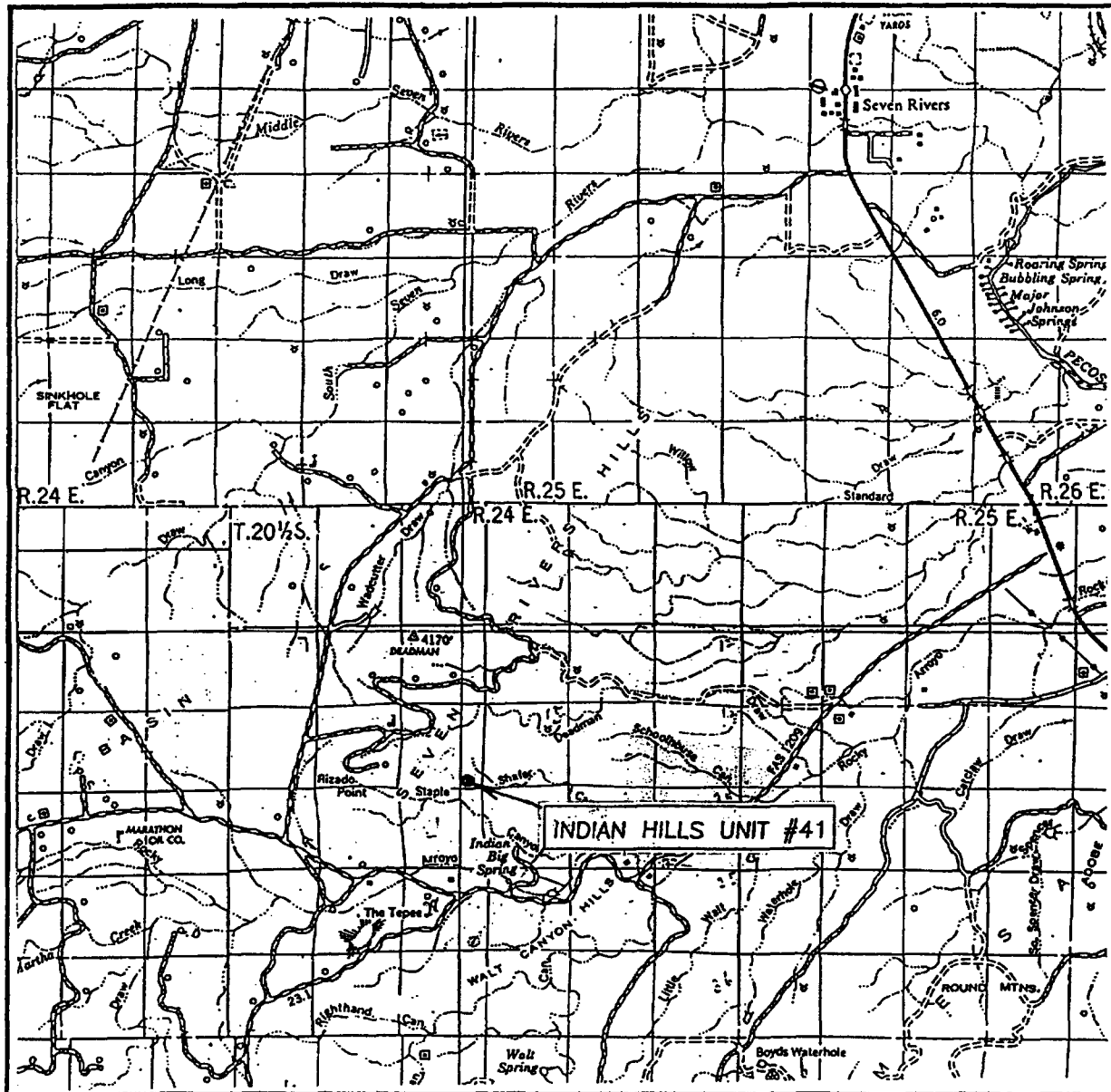
OPERATOR MARATHON OIL COMPANY

LEASE INDIAN HILLS UNIT

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

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

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 16 TWP. 21-S RGE. 24-E
 SURVEY N.M.P.M.
 COUNTY EDDY
 DESCRIPTION 199' FSL 524' FEL
 ELEVATION 4017'
 OPERATOR MARATHON OIL COMPANY
 LEASE INDIAN HILLS UNIT

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