

N. M. Oil Cons. Division

811 S. 1ST

ARTESIAN UNIT NO. 07834

(Other instructions on
reverse side)

FORM APPROVED

OMB NO. 1004-0136

Expires: February 28, 1995

Form 560-3
(July 1992)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

915/687-8327

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

At surface

2182' FSL & 591' FWL

At proposed prod. zone

1706' FSL & 1650' FWL

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

10 MILES WEST OF LAKEWOOD, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any) 1650' @ BHL

16. NO. OF ACRES IN LEASE

1920

17. NO. OF ACRES ASSIGNED
TO THIS WELL

640'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1913'

19. PROPOSED DEPTH

9740' MD, 9600' TVD

20. ROTARY OR CABLE TOOLS

ROTARY

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

3694'

22. APPROX. DATE WORK WELL START*

SEPT. 1, 1997

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	40'	CONDUCTOR-REDI MIX
12 1/4"	9 5/8"	36#	1200'	1000 - CIRCULATE
8 3/4"	7"	23#, 26#	9740'	1725 TOC @ +/- 1000'

*DISTANCE TO INDIAN HILLS UNIT #3 @ 1980' FNL & 1650' FWL

MARATHON PROPOSES TO APPLY FOR SIMULTANEOUS DEDICATION APPROVAL FOR THIS WELL.

RECEIVED

AUG 16 '97

BLM
ROSWELL, NM

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 prevention program, if any.

24.

SIGNED

Walter J. Sullivan

TITLE DRILLING SUPERINTENDENT

DATE 7/11/97

(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

Sony L. Ferguson

TITLE

ADM, Minerals

DATE

9/16/97

*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.

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

DISTRICT II
P.O. Drawer 88, Artesia, NM 88211-0718

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

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

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
		Indian Basin (Morrow-Gas)
Property Code	Property Name	Well Number
	INDIAN HILLS UNIT GAS COM	13
OGED No.	Operator Name	Elevation
14021	MARATHON OIL COMPANY	3694'

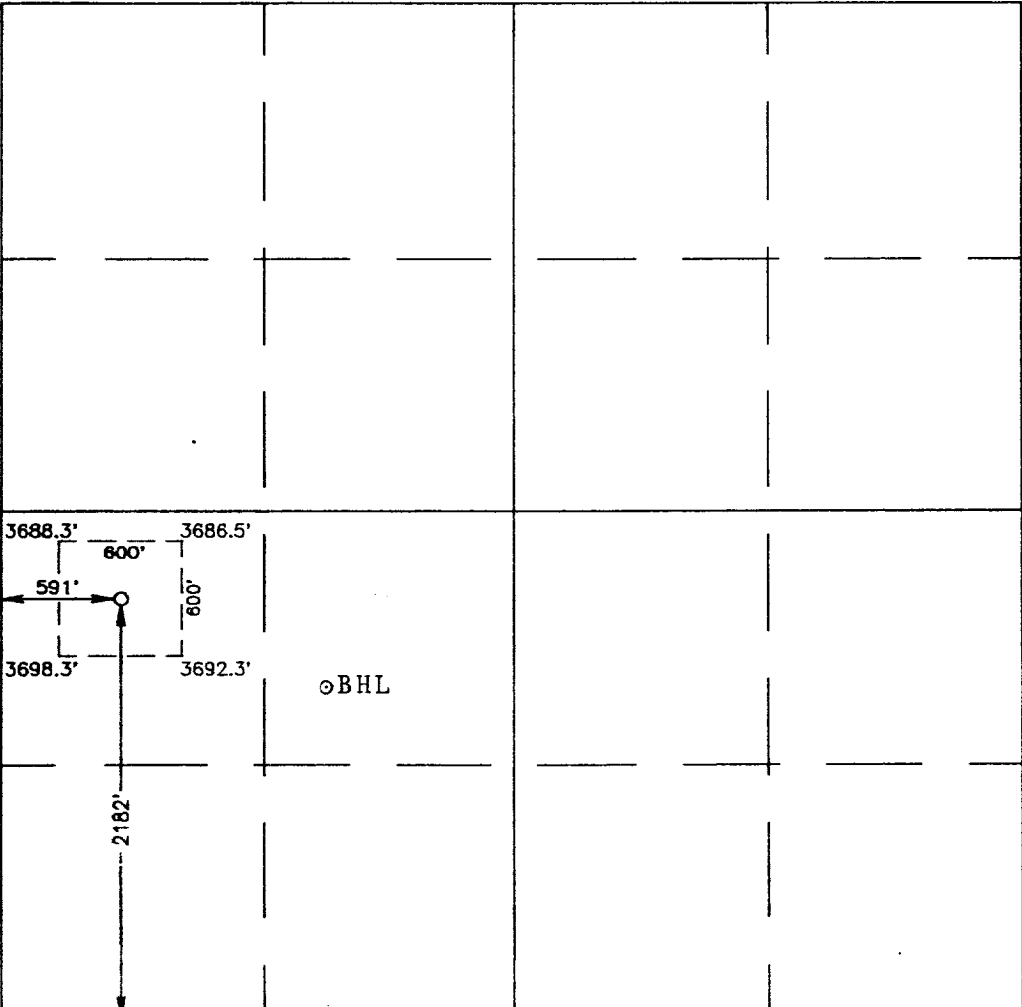
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	29	21 S	24 E		2182	SOUTH	591	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	29	21-S	24-E		1706	South	1650	West	Eddy
Dedicated Acres	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

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>Walter J. Duman</u> Signature</p> <p>D. P. Nordt Printed Name</p> <p>Drilling Superintendent Title</p> <p>8/13/97 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>JUNE 30, 1997</p> <p>Date Surveyed CDG</p> <p>Signature & Seal of Professional Surveyor</p> <p><u>Ronald J. Edson</u> 97-11-0893</p> <p>Certificate No. RONALD J. EDSON 3239 GARY EDSON 12641</p>
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DISTRICT I
P.O. Box 1988, Hobbs, NM 88241-1988

DISTRICT II
P.O. Drawer 88, Artesia, NM 88211-8719

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

Form C-102
Revised February 10, 1984
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OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
		Indian Basin Upper Penn
Property Code	Property Name	Well Number
	INDIAN HILLS UNIT GAS COM	13
OGED No.	Operator Name	Elevation
14021	MARATHON OIL COMPANY	3694'

Surface Location

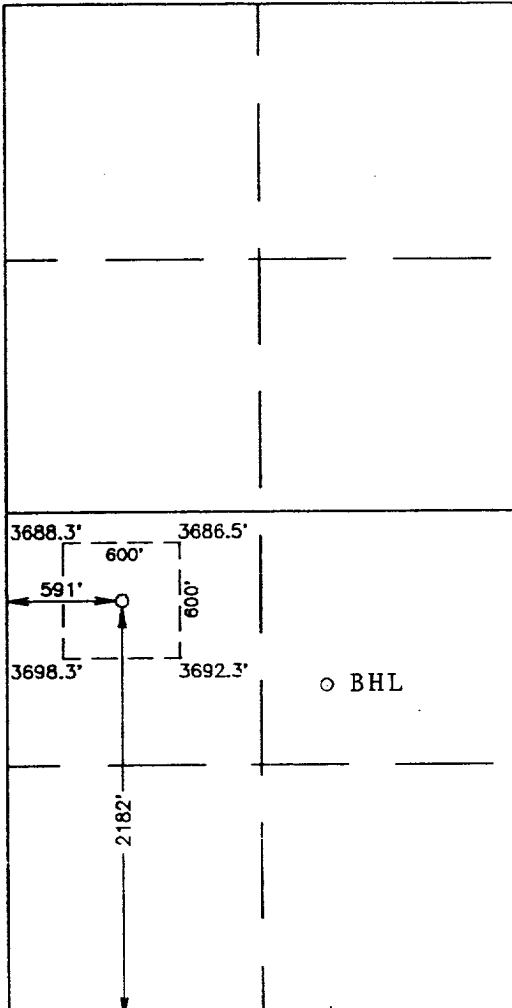
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**DRILLING PROGRAM
MARATHON OIL COMPANY**

Indian Hills Unit Gas Com #13

1. **Estimated KB Elevation: 3708'**

<u>FORMATION</u>	<u>-----TOP-----</u>		<u>-----BASE-----</u>		<u>FLUID CONTENT</u>
	<u>MEASURED</u>	<u>SUBSEA</u>	<u>MEASURED</u>	<u>SUBSEA</u>	
Queen	Surface	+3708'	650'	+3058'	water
San Andres	650'	+3058'	2250'	+1458'	water
Glorietta	2250'	+1458'	2355'	+408'	
Delaware	3300'	+408'	4300'	-592'	
Bone Spring	4300'	-592'	5950'	-2242'	oil gas
Wolfcamp	5950'	-2242'	7520'	-3812'	oil gas
B/Permian Shale	7520'	-3812'	7530'	-3822'	
U. Penn	7530'	-3822'	7550'	-3842'	gas, oil, water
Penn Dolomite	7550'	-3842'	8500'	-4442'	gas, oil, water
T/Strawn	8150'	-4442'	8800'	-5092'	
T/Atoka	8800'	-5092'	9050'	-5342'	
T/Morrow	9050'	-5342'	9500'	-5792'	

<u>FORMATION</u>	<u>--EST PSIG</u>	<u>SBHP-- PPG EMW</u>	<u>EST SBHT DEG f</u>	<u>H2S PPM</u>	<u>--SIGNIFICANCE-- (obj. marker, etc.)</u>
Bone Springs	1210	8.5		500	marker
Wolfcamp	1680	9.0			marker
B/Permian Shale	1810	9.0			marker
U. Penn	2050	9.0		5000	objective pay
Penn Dolomite	2164	9.0		5000	objective
Morrow	3460	9.2			Objective

2. See (1) above.
If any unexpected water or mineral bearing zones are encountered, they will be reported, evaluated, and protected as circumstances and regulations require.

3. **Pressure Control Equipment:**

9 5/8" Surface: 11" 3M annular tested to 200#/2000#, 11" 3M dual rams, choke manifold and mud cross, tested to 300#/3000#.

Auxiliary Equipment:

Surface Hole: Annular or rotating head w/air rig.

Intermediate Hole: N/A

Production Hole: Flow indicator, PVT, H₂S Sensors, air packs, stroke counter, rotating head.

BOP systems will be consistent with API RP 53. Blowout preventers will be installed and tested prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers and casing will be pressure tested before drilling casing cement plugs.

