

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 S. 1st Street, Artesia, NM 88210-2834
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 Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

CISF
UP
6713192

Form C-101
Revised October 18, 199
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator name and Address Marathon Oil Company P.O. Box 552 Midland, TX 79702		² OGRID Number 14021
		³ API Number 30-0 15-28232
⁴ Property Code 6411	⁵ Property Name NORTH INDIAN BASIN UNIT	⁶ Well No. 11

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
0	2	21-S	23-E		660'	SOUTH	1980'	EAST	EDDY

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
I	2	21-S	23-E		1940	SOUTH	700	EAST	EDDY
⁹ Proposed Pool 1 SOUTH DAGGER DRAW - UPPER PENN ASSOC. 15473					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary ROTARY	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3771'
¹⁶ Multiple NO	¹⁷ Proposed Depth 8000 TVD	¹⁸ Formation U PENN	¹⁹ Contractor UNKNOWN	²⁰ Spud Date 9/5/98

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
* 14.75"	9.625"	36#	1230'	2188	CIRC
* 8.75"	7"	23#, 26#	8083'	1125	210'

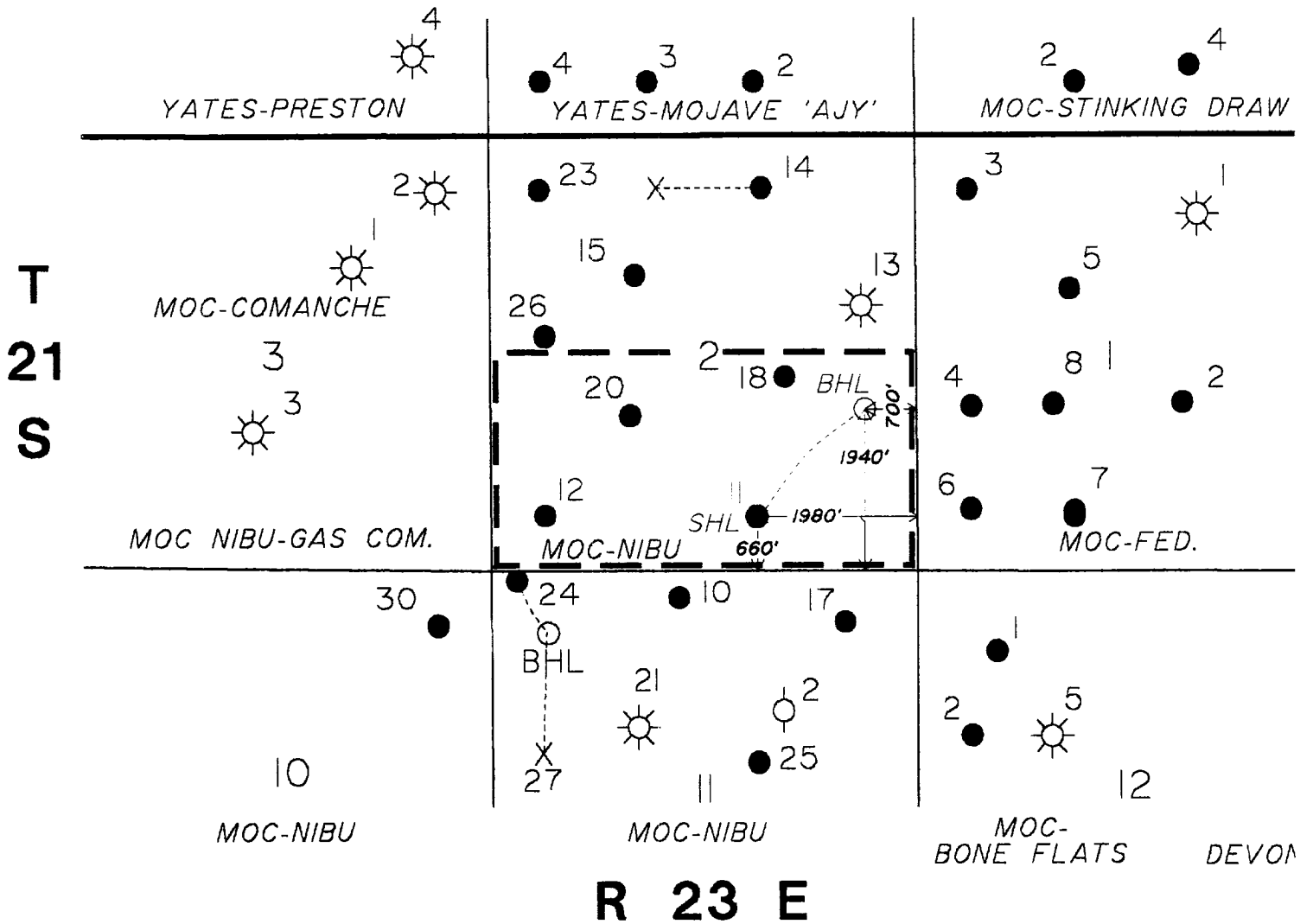
²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

PROPOSE TO PLUG BACK TO +/- 7650' AND HORIZONTALLY DRILL TO A STANDARD BHL
IN THE SOUTH DAGGER DRAW - UPPER PENN ASSOC. POOL

* Csg. Cemented in place.

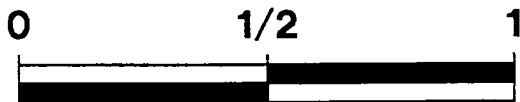
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Walter R. Hall</i>		OIL CONSERVATION DIVISION	
Printed name: D. R. HALL		Approved by: ORIGINAL SIGNED BY TIM W. GUM DISTRICT II SUPERVISOR	
Title: DRILLING SUPERINTENDENT		Title:	
		Approval Date: 8-31-98	Expiration Date: 8-31-99

R 24 E



320 ACRE
PROJECT AREA

PRODUCING AREA
660' FROM ENDS & SIDES



MILE

MARATHON OIL COMPANY
MID-CONTINENT REGION

**NORTH INDIAN BASIN
UNIT**

***SOUTH DAGGER DRAW
(UPPER PENN ASSOC.)***

EDDY COUNTY, NEW MEXICO

NIBU #11

MARATHON OIL COMPANY

Structure : North Indian Basin Unit No. 11

Slot : slot #1

Field : INDIAN BASIN

Location : EDDY CO., NEW MEXICO

WELL PROFILE DATA

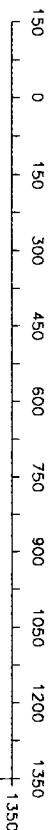
Point	MD	Inc	Dlr	TVD	North	East	V. Sect	Dev/100
Tie on	7652.00	0.00	45.00	7652.00	0.00	0.00	0.00	0.00
End of Build	7900.19	90.00	45.00	7810.00	111.72	111.72	158.00	36.26
End of Build	7913.39	92.64	45.00	7809.70	121.05	121.05	171.20	20.00
End of Hold	9122.58	92.64	45.00	7754.00	975.18	975.18	1379.11	0.00
End of Build	9152.40	95.98	45.00	7751.76	996.20	996.20	1408.84	11.20
T.D. & End of Build	9353.66	118.19	45.00	7693.00	1131.38	1131.38	1600.02	11.04



Respective points to East degree line of 1998 Azimuth
To convert azimuths from Magnetic to True and Easting



East (feet) -->



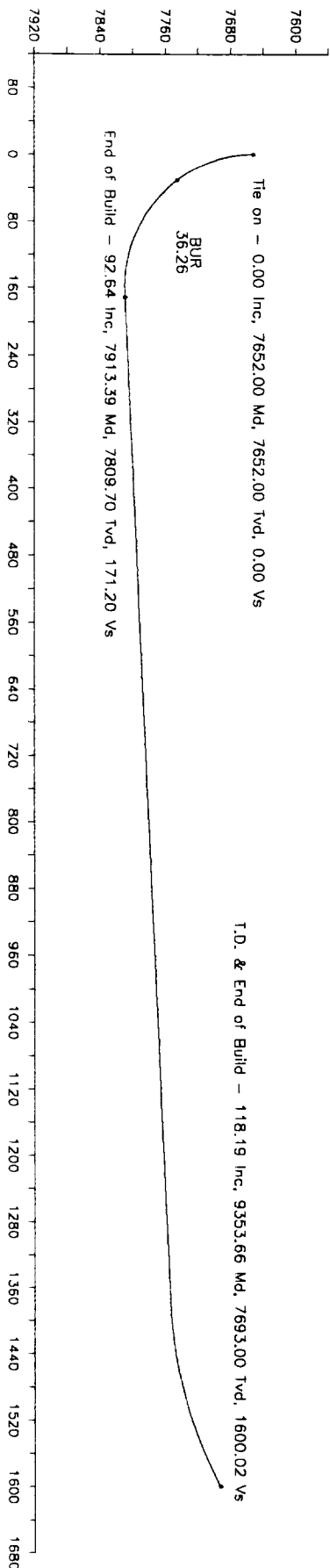
T.D. & End of Build - 7693.00 Tvd, 1131.38 N, 1131.38 E

Bottom Hole Location
Unit O, 1940' FSL, 700' FEL
Section 2, T21S, R23E
Eddy County, New Mexico

Surface Location
Unit O, 660' FSL & 1980' FEL
Section 2, T21S, R23E
Eddy County, New Mexico

< - North (feet)

< - True Vertical Depth (feet)



Tie on - 0.00 Inc, 7652.00 Md, 7652.00 Tvd, 0.00 Vs

End of Build - 92.64 Inc, 7913.39 Md, 7809.70 Tvd, 171.20 Vs

T.D. & End of Build - 118.19 Inc, 9353.66 Md, 7693.00 Tvd, 1600.02 Vs

Vertical Section (feet) -->

Azimuth 45.00 with reference 0.00 N, 0.00 E from slot #1

MARATHON OIL COMPANY

North Indian Basin Unit No. 11, slot #1
INDIAN BASIN, EDDY CO., NEW MEXICO

PROPOSAL LISTING Page 1
Your ref : 36.2 Deg BUR
Last revised : 5-Aug-98

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
7652.00	0.00	45.00	7652.00	0.00 N	0.00	0.00
7752.00	36.26	45.00	7745.46	21.64 N	36.26	30.60
7852.00	72.53	45.00	7802.71	78.18 N	36.26	110.56
7900.19	90.00	45.00	7810.00	111.72 N	36.26	158.00
7913.39	92.64	45.00	7809.70	121.05 N	20.00	171.20
8000.00	92.64	45.00	7805.71	182.23 N	0.00	257.72
8500.00	92.64	45.00	7782.68	535.41 N	0.00	757.19
9000.00	92.64	45.00	7759.65	888.59 N	0.00	1256.66
9122.58	92.64	45.00	7754.00	975.18 N	0.00	1379.11
9152.40	95.98	45.00	7751.76	996.20 N	11.20	1408.84
9182.65	99.32	45.00	7747.73	1017.40 N	11.04	1438.82
9282.65	110.35	45.00	7722.17	1085.65 N	11.04	1535.33
9353.66	118.19	45.00	7693.00	1131.38 N	11.04	1600.02

All data is in feet unless otherwise stated.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1600.02 on azimuth 45.00 degrees from wellhead.

Vertical section is from N 0.00 E 0.00 on azimuth 45.00 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

Marathon Oil Company

North Indian Basin Unit of 11

South Dakota: 1 Drive

Eddy **How Johnson**

Schünberger

[illegible][illegible]

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[illegible]

Age Group	Total (%)	Female (%)	Male (%)	Unknown (%)
18-24	~45	~45	~45	~45
25-34	~35	~35	~35	~35
35-44	~25	~25	~25	~25
45-54	~15	~15	~15	~15
55-64	~10	~10	~10	~10
65+	~5	~5	~5	~5

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Upper Penn Formation