District I PO Box 1980, Hobbs, NM 88241-1980 District II 11 S. 1st Street, Artesia, NM 88210-2834 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

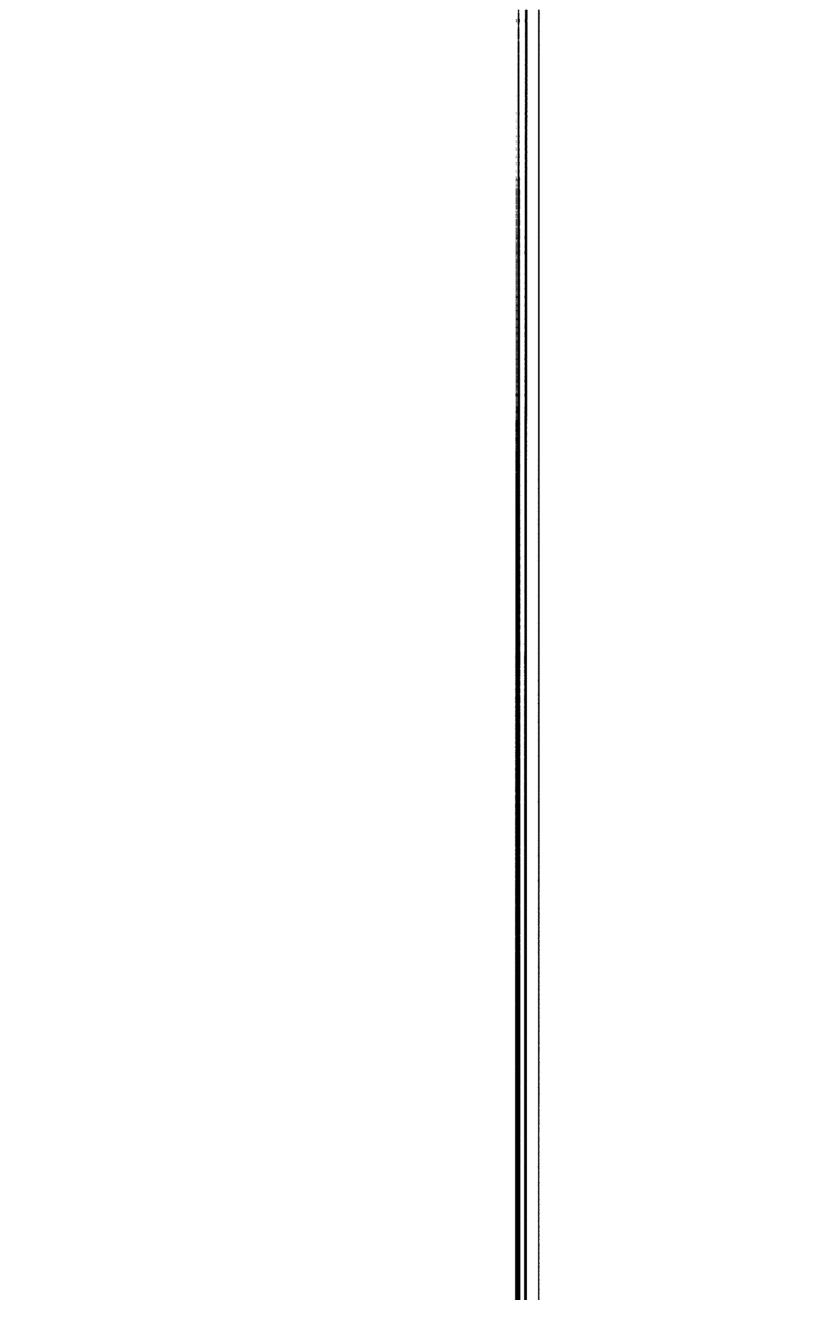
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico gy, Minerals & Natural Resources Department

JIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-101 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

										DED REPORT		
APPLI	CATION				LL, RE-E	NTER, DE	EPEN,	PLUGBAC	K, OR ADD	A ZONE RID Number		
Manathan O	:1 C	•	erator name an	a Address						KID Number		
Marathon O	•	У								14021		
P.O. Box 55									PI Number			
Midland, T	operty Code					Property Name			30-0 15	-31c48		
•••									·	Well No.		
<u> </u>	6411				NORTH 1	[NDIAN BAS]	IN UNIT					
UL or lot no.	Section	Township	Range	Lot. Idn	⁷ Surface 1		South Line	Feet from the	East/West line	Govern		
F	16	1	~							County		
<u> </u>	1 10	21-S 8	Proposed	Rottom	Hole Locati	on If Diffo	IORTH	1650 m Surface	WEST	EDDY		
UL or lot no.	Section	Township	Range	Lot. Idn			South Line					
OL of lot no.	Section	Township	Range	Lot. Iuli	Feet from t	ine North	South Line	Feet from the	East/West line	County		
	<u> </u>	9 Proposed	Pool 1			<u> </u>		10 Proposed	Pool 2			
	TNDTAN	-	PPER PENN	CAS				Troposed	1 001 2			
	INDIAN	DASIN, U	FFER FEININ	, UAS		<u></u>		<u>-</u>				
11 Work	Type Code	12	Well Type Code 13 Cable/		Rotary	otary 14 Lease Type Code		15 Ground Level Elevation				
	N		G		DOT	ROTARY		S				
16 M	ultiple		17 Proposed De						3993 20 Spud Date			
	•		•				IVON M. MAN		·			
M::-	NO TVO C		8200'	21	CISCO/CANYON McVAY 21 Proposed Casing and Cement Program					4/15/00		
	m WOC					and Ceme	nt Progra	ım				
Hole			ing Size	Size Casing weig		foot Setting Dep				timated TOC		
12 1		9	5/8"	<u> </u>	36#	120				IRCULATE		
8 3/	<u> </u>	1	7"	23	#. 26#	780	0	1000	<u></u>	IRCULATE		
				 		<u> </u>						
												
Describe the blo	wout preventi	on program, i	fany. Use add	ditional shee	ets if necessary I UPPER PENN		the present	productive zone a	and proposed new p	roductive zone.		
			OCD at specification of the second of the se		10		94	10. 14.70 15.4				
	ععد	Απο	ched					٠ ١٠ يون ١ ١ ١ ١ ١ يون				
²³ I hereby certif	y that the info	rmation giver	above is true	and comple	te to the best		OU C	ONICEDUAT	CION DIVIO	ONI		
of my knowledge Signature:	and belief.	6						ONSEKVAI	TION DIVISI	ON		
Signature:	W. /.	Quel	in-	·		Approved by:	Q.			v. gun/3 60		
Printed name:	R. J. LON	GMIRE	·· ·			Title:		STRICT II SU				
Title:	DRILLING	SUPERINTE	NDENT			Approval Dat	e: 3 - 2	14-00 I	Expiration Date: 3	5-24-01		



1.

DRILLING PROGRAM MARATHON OIL COMPANY

N18U #36

Estimated KB Elevation:

39931

	TOP		BASE	FLUID	
FORMATION	MEASURED	SUBSEA	MEASURED	SUBSEA	CONTENT
Queen San Andres Glonetta	Surface 650' 2250'	+3790° +3140° +1540′	650° 2250' 2355	+3140" +1540" +490"	water
Delaware Bone Spring Wolfcermp BiPermian Shale U. Penn	3300° 4300° 5950° 7520° 7530°	+490' -510' -2160' -3730' -3740'	4300' 5950' 7520' 7530' 7550'	-510' -2160' -3730' -3740' -3760'	oil gas oil gas gas, oil, water

EORMATION	—EST PSIG	SBHP— PPG EMW	EST DEG!	SBHT PPM	H25	SIGNIFICANCE (Obj. marker, etc.)
Bone Springs Wolfcamp	1210 1680	8.5 9.0			500	marker marker
B/Permian Shale 1810 U. Penn Morrow	9.0 20 50 34 60	9.0 9.2			5000	Objective pay Objective pay Objective pay

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

<u>Production Hole:</u> 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.

Upper and lower kelly cocks with valve handle and safety valve and subs to fit all drillstring connections in use will be available on rig floor.

A. P. D. (cont.)
Thirteen Point Surface ' flan
NIBU #36

5. Mud Program:

DEPT	TQ	MUD TYPE	WEIGH (PPG)	T YIS	WL CC	ADDITIVES	Visual Montr
0	1200	air/mist	NA	N/A	N/A	Soap for mist	Reserve
1200	5000'	fresh	8.5	28-32	NC	Gel, caustic, H,S Scavenger	Reserve
5000"	7000	cut brine	9.0	32-36	NC	Saturated brine	Reserve
7000	960 '	cut brine	9.0	32-36	<20	Salt gel, starch, caustic	Steel Pits

Sufficient quantities of additives will be on location to maintain above mud properties for any enticipated well conditions.

6. Logging, Testing & Coring Programs:

LOGITESTICOREIMUDLOGIOTHER	-INTER	RVAL.	REMARKS
OLL/MSFL/GR/CNULDT/CAL	TD	5000'	
LDT/CNL/GR/CAL	TĎ	surf casing	
MUD LOGGER	6000,	מד	ROP, Lithology, Gas Analysis, Chromatograph

NO CORES OR DST'S

7. Abnormal Pressures, Temperatures or Potential Hazards:

None anticipated. Possible H₂S in Cisco & Upper Penn. See H₂S Drilling Operations Plan.

8. Other information:

Anticipated Starting Date: As soon as possible.

Duration of Well: drilling - 25 days, completion - 10 days.

A. P. D. (cont.)
Thirteen Point Surface I fan
NIBU #36

Test Frequency

1. When installed.

Anytime a pressure seal is broken (lest confined only to affected equipment).

3. At least every 20 days.

4. Blind and pipe rams shall be activated each trip but not more than once/day.

4. Casing and Cement Program:

DEPT EROM	H	SECTION		HOLE SIZE	CSG SIZE	WT. PPE	GRADE	THREA COUPL		NEW USED
0 0 4700	1200° 4700° 9600°	1200' 4700' 4950'	:	12.25" 8.75" 8.751	9.625" 7" 7"	36 23 26	K-55 K-55 K-55	8rd, STO 8rd, LTO 8rd, LTO		New New
Casing String	DV Depth	Stg.	Lead Tail	Amt SXS	Type Cemen		Yield CE/SX	Wt. PPG.	IOC	Additives
9.625	None	1	L ·	200	"C" Nea	it	1.51	14.6	Suri	10% Gel, 3% CACL, 1/4# cello
9.625"			T .	200	"C" Nea	it	1.32	14.8	Surf	2% CACI, 1/4# cello
7*	±5600°	1	L	270	"H" Lite		1.28	15.3	5600'	5 pps Silica. 6% Halad 9, 3% salt, 3 pps Gilsonite
7*		2	L	800	65:35 P	oz	1.91	12.6	5500	5 pps. salt, 3 pps Gilsonite, 4% Gel, 1/4 pps Cello
7-		2	7	100	"Ç" Nea	et	1 32	14.8	±1000°	2% CaCI2

Each stage will be preceded by an appropriate mud flush. Actual production hole volumes will be based on the caliper volume plus 15% excess.

Centralizer Program:

9 5/8" Conventional centralizers. Bottom 3 joints and every fourth joint to surface.

7" Conventional centralizers middle of 1st joint, then every joint to 7500', and 1 centralizer every 4th joint thereafter to 1100'.

State of New Mexico

Energy, Minerals and Natural Resources Departmen

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, Artonia, NM 88211-0719

DISTRICT III 1000 Rio Brazon Rd., Astec, NM 67410

OIL CONSERVATION DIVISION P.O. Box 2088

DISTRICT IV P.O. BOX 2088, SANTA FR, N.M. 87504-2088 Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Na	ıme		
	79040	Indian Basin, Upper Penn,	, Gas		
Property Code 6411	Property Code Property Name				
ogrid no. 14021		ator Name OIL COMPANY	Elevation 3993		

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	16	21 S	23 E		2210	NORTH	1650	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
Dedicated Acres	Joint of	r Infill Co	nsolidation (Code Or	der No.			•	
640									

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

	UK A NON-STA	NDARD UNIT HAS BEEN	APPROVED BY	THE DIVISION
			Ψ.	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the
			8	best of my knowledge and belief. William Signathuse
		3996.4' 4001.1'		R. J. Longmire Printed Name Drilling Superintendent Title
1650'	SEE DETAIL	3989.4' 3987.9' <u>DETAIL</u>		3/09/00 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 supervisen and that the same is true and correct to the best of my belief.
	o#q		i	FEBRUARY 22, 2000 Date Surveyed DC Signature & Seal of Professional Surveyor
				Amila Couldon 2/25/2000
				Certificate No. RONALD J EIDSON 3239 GARY EIDSON 1264 MACON MCDONALD 1218

