Form 3	). BOX 1980 )BES. NEW N	COMMISSION		IT IN T: ATE® or instructions on reverse side)	FORM APP OMB NO. 1 Expires: Febr	1004-0136	
	DEFAN	AU OF LAND MAN	<b>AGEMENT</b>		5. LEASE DESIGNATION A		
APP			TO DRILL OR D	FEPEN	LC-046295 6. IF INDIAN, ALLOTTEE O	R TRIBE NAME	
a. TYPE OF WORK	RILL X	DEEPEN					
N. TYPE OF WELL		7. UNIT AGREEMENT NAM	E				
NAME OF OPERATOR		HER		MULTIPLE X	8. FARM OR LEASE NAME, WELL NO. C.J. SAUNDERS 4		
Marathon Oil C		·			9. API WELL NO.		
P.O. Box 552,	Midland, TX 79			/682-1626	10. FIELD AND POOL, OR WILDCAT		
At surface 660'FNL & 960		in accordance with any Stat	e requirements.*)		ALTIGWHEAD (E	ARROWHEAD (EUMONT)	
At proposed prod. zone 660'FWL & 960					AND SURVEY OR AREA	-	
DISTANCE IN MILES AN	D DIRECTION FROM NEAL	LEST TOWN OR POST OFFICE	<u></u>		SEC. 1, T-22-S	5, R-36-E	
5 MI. W. OF EL	SED*		16. NO. OF ACRES IN LEASE		LEA	NM	
LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig, u	INE, FT. nit line, if any)	660'	80	17. NO. OF A TO THIS	ACRES ASSIGNED WELL 80		
DISTANCE PROM PROPO TO NEAREST WELL, DR OR APPLIED FOR, ON TH	DSED LOCATION* ILLING, COMPLETED, HIS LEASE, FT. 10	20' **	19. PROPOSED DEPTH 3750'		RY OR CABLE TOOLS		
ELEVATIONS (Show wh				ROTA	22. APPROX. DATE WORK	WILL START*	
3539'		6	spiten Controlled (%	iter Reeln	OCTOBER 1, 1994		
SIZE OF HOLE	GRADE, SIZE OF CA		IG AND CEMENTING PROGR				
7-1/2"	14"	CONDUCTOR			QUANTITY OF CEMI	<u>NT</u>	
<u>-3/4"</u>	7"	26#	1200'	265 – C	IRC		
WELL IS A PROP 1020' TO C Cica Spon Allo	OSED YATES, SE J. SAUNDERS #1 Truel California Tal Stipulations chod BE PROPOSED PROGR	AT 666'FNL & 198 AT 666'FNL & 198 AT 666'FNL & 198 AM: If proposal is to dee locations and measured and	FOR SPECIFIC DETAIL. EN GAS PRODUCER. BO'FWL. epen, give data on present produ true vertical depths. Give blow	SEP 9 DIST. 6 N.	1994 M. C. HUGONA M. HUGONA M. HUGONA M. HUGONA How productive zone. If pr if any. 9-08-9		
(This space for Federal of	of State office use)				DATE	•	
PERMIT NO							
			APPROVAL DATE				
	t warrant or certify that the ap-	piicant-holds legal or equitable tit	le to those rights in the subject lease wi	tich would arrive the analysis	nt to combine		

fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT 1 P.O. Box 1980, Hobts, NM 88240

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DISTRICT II P.O. Drawer DD, Artesia, NM 68210

DISTRICT III 1000 Rio Brazos Rd., Axtec, NM 87410 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Instruction on back 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						
30-123	5-02	行众一	76	Arrowhead (Yates, 7-Rivers				, Queen)				
Property	Code		Property Name						Well Number			
646	i.		C. J. Saunders									
OGRID N	0.	1	Operator Name						Elevation			
1282				Μ	larathon Oil	Co.		353	9'			
					Surface Loc	ation						
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
D/Lot 4	1	22 S	36 E		660			-				
	, , , , , , , , , , , , , , , , , , ,	22 3	l		l	NORTH	960	WEST	LEA			
	· · · · · · · · · · · · · · · · · · ·	····	Bottom	Hole Loo	eation If Diff	erent From Sur	face					
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
Dedicated Acres	s Joint o	r Infill Co	nsolidation	Code Ora	ler No.		- <u></u>		4			
80												
NO ALLO	WABLE W	TILL BE AS	SIGNED	TO THIS	COMPLETION	UNTIL ALL INTER	ESTS HAVE BE	EN CONSOLIDA	TED			
		ORAN	ION-STAN	DARD UN	IT HAS BEEN	APPROVED BY	THE DIVISION					
	VIV TA			1								
) k	660		-	Tet	. a	T a d	OPERATO	R CERTIFICAT	ION			
	9 <u>'</u> _3 <u>5</u> 40.2'	Lot 3	3	Lot		Lot 1	I hereby	certify the the inj	ormation			
			\ \		1			is true and comple	rte to the			
960'	-0		x		1		best of my know	leage and benef.				
3542	4 3537.0				1							
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********	· <u>}</u> }_				+		Signature					
	I				1		T. B. Ar	blom				
	1				1		T. B. Ar Printed Name	,				
	1						Drilling	Supt.				
	1						Title					
	1				1		_9-08-94	·				
	1				ļ		Date					
					1		SURVEYO	R CERTIFICAT	ION			
	·	······································										
					}			that the well locations plotted from field				
	1						actual surveys	made by me or	- )			
	1				1		supervison and correct to CNP	that the one is best Shows beilef.	true and			
	1				e N			N MEX				
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							Date Surveyed					
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	ł						1 Con	Stignat O	2			
	1						W.O. Nur	h. 94-11-13	48 ]			
1.	_ 1	× 24			ł		Certificate No.	JOHN W. WEST	, 67 <b>6</b>			
1 AK	p-t	544						RONALD J. EIDSON				
$ \underline{ V } $	<u> </u>	<u>- 7. l</u>						GARY L JONES	7977			

### DRILLING PROGRAM MARATHON OIL COMPANY

## C. J. Saunders No. 4

# 1. <u>Estimated KB Elevation: 3539'</u>

20224	ТО			BASE			
FORMATION	<u>MEASUREE</u>	<u>SUBSEA</u>	MEASU	<u>RED</u>	<u>SUBSEA</u>	FLUID <u>CONTENT</u>	
Anhydrite Salt B/Salt Yates Seven Rivers Queen Penrose Grayburg	1145' 1285' 2470' 2670' 2930' 3380' 3490' 3680'	2394' 2254' 1069' 869' 609' 159' 49' -141'	1285' 2470' 2470' 2930' 3380' 3490' 3680'		2254' 1069' 869' 609' 159' 49'	oil, gas, water oil, gas, water oil, gas, water gas, oil, water gas, oil, water	
FORMATION				H2S PPM	SIGNIFICAN		
Yates Seven Rivers Queen Penrose Grayburg	4108.54389.04459.04559.04759.0			500 500 500	pay pay pay marker marker		

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. <u>Pressure Control Equipment</u>:

<u>7" Surface:</u> 11" 3M annular tested to 200#/2000#, 11" 3M dual rams, choke manifold and mud cross, tested to 300#/3000#; 2M annular preventer tested to 200/1500#.

Auxillary Equipment:

Surface Hole: Stroke counter, slug pit.

Intermediate Hole: None

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

BOP systems will be consistent with API RP 53. Blowout preventers will be installed 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.

Test Frequency

- 1. When installed.
- 2. Anytime a pressure seal is broken (test 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. <u>Casing and Cement Program</u>:

DEPTH FROM <u>TO</u>	SECTION LENGT	-	HOLE <u>SIZE</u>	CSG <u>ŞIZE</u>	WT. <u>PPF</u>	GRADE	THREA COUPL	ADS	NEW <u>USED</u>	
0 40' 0 1200' 0 3750'	40' 1200' 3750'		17.5" 8.75" 6.125"	14" 7" 4-1/2"	26 10.55	Conduct K-55 K-55	or 8rd, ST( 8rd, LT(		New New	
CASING <u>STRING</u>	DV <u>DPTH</u>	<u>STG</u>	LEAD <u>TAIL</u>	AMT <u>SXS</u>	TYPE <u>CEMEN</u>	<u>T</u>	YIELD <u>CF/SX</u>	WT. <u>PPG.</u>	<u>TQC</u>	ADDITIVES
7"	None	1	L	115	"C" Lite	i	1.86	12.7		6% gel, 2% CaCi <sub>2</sub>
			Т	1 <b>50</b>	"C" Nea	t	1.32	14.8	surf	2% CACl, 1/4# cello
4-1/2"	None	1	L	425	"C" Lite		2.03	12.7	surf	6% gel, 2% CaCl <sub>2</sub> , 1/4 pps cello, .6% Halad 9, 5 pps
4-1/2"			Т	1 <b>30</b>	"C" Neal	t	1.32	14. <b>8</b>	2500'	2% CaCl, .6% CF-19

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:

- 7" Conventional centralizers. Bottom 3 joints and every fourth joint to surface.
- 4- $\frac{1}{2}$ " Conventional centralizers middle of 1st joint, then every joint to 2500', and 1 centralizer every 4th joint thereafter to 500'.

### 5. <u>Mud Program</u>:

DEPT <u>FROM</u>	тн <u>ТО</u>	MUD TYPE	WEIGH <u>(PPG)</u>	IT <u>VIS</u>	WL <u>CC</u>	ADDITIVES	VISUAL <u>MONTR.</u>
0	12 <b>00'</b>	fresh	8.5	28	N/C	Gel, lime, Course	Steel pits
1200'	35 <b>00'</b>	brine	9.0	28-32	N/C	Saturated brine	Reserve
3500'	37 <b>50'</b>	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 anticipated well conditions.

## 6. Logging, Testing & Coring Programs:

LOG/TEST/CORE/MUDLOG/OTHER	INTEI <u>FROM</u>		REMARKS
DLL/MSFL/GR	TD	2500'	
LDT/CNL/GR/CAL	TD	surf casing	
MUD LOGGER			ROP, Lithology, Gas Analysis, Chromatograph
NO CORES OR DST'S			
7. <u>Abnormal Pressures, Tem</u>	peratu	<u>res or</u>	<u>Potential Hazards</u> :

None anticipated.

8. <u>Other Information</u>:

Anticipated Starting Date: As soon as possible. Duration of Well: drilling - 6 days, completion - 10 days.

