		H. C. COMP. 7					
Form 3160-3 (July 1992)		JUES, NEW ME JNITED STATI MENT OF THE	ES	(Other instr reverse	uctions on	FORM APPI OMB NO. 1 Expires: Febr	004-0136
		U OF LAND MANA				5. LEASE DESIGNATION AN NM-03085	ND SERIAL NO.
AP	PLICATION F		O DR	LL OR DEEP	PEN	6. IF INDIAN, ALLOTTEE O	R TRIBE NAME
1. TYPE OF WORK		DEEPEN				7. UNIT AGREEMENT NAM	
OIL X		ER		INGLE MUL ZONE ZONI		8. FARM OR LEASE NAME, LEA UNIT	WELL NO. 17
2. NAME OF OPERATOR Marathon Oil						9. API WELL NO.	
3. ADDRESS AND TELE P.O. Box 552	PHONE NO. 2, Midland, TX 797	02	·	915/682	2-1626	10. FIELD AND POOL, OR V SEE BELOW	VILDCAT LECC
4. LOCATION OF WELL At surface 900'FSL & 1 At proposed prod. zz 900'FSL & 1	ono	n accordance with any State r	equiremen	s.*)		11. SEC., T., R., M., OR BLI AND SURVEY OR AREA SEC. 13, T20S,	
	F EUNICE, NM	EST TOWN OR POST OFFICE*				12. COUNTY OR PARISH LEA	13. STATE NM
15. DISTANCE FROM PI LOCATION TO NEAL PROPERTY OR LEAS (Also to nearest dr) 18. DISTANCE FROM PI	REST SE LINE, PT. 3540' g. unit line, if any)		256	P ACRES IN LEASE	TO THIS	ACRES ASSIGNED WELL 160 Y OR CABLE TOOLS	
TO NEAREST WELL OR APPLIED FOR, O	DRILLING, COMPLETED,	1103'		500'	ROT		
21. ELEVATIONS (Show 3660'GL	whether DF,RT, GR, etc.)	Сар	oitan C	ontrolled Water I	Basin	22. APPROX. DATE WOR ASAP	K WILL START*
23.		PROPOSED CASING	AND CE	MENTING PROGRAM			
SIZE OF HOLE	GRADE, SIZE OF CA			SETTING DEPTH		QUANTITY OF CEM	ENT
26"	20"	CONDUCTOR		80'		K TO SURFACE	
17-1/2"	13-3/8"	48#, 55.5#		1700'			
12-1/4"	9-5/8"	40#, 43.5#		5580'	1700 S	X – CIRCULATE	
7-7/8"	¹ 5–1/2"	¹ 17#, 20#, 23	3#	14,500'	' 1800 S	SX - TOC @ +/- 50	00'

WELL IS A PROPOSED LEA DELAWARE, NORTHEAST FIELD, BONE SPRING/PENN/DEVONIAN POOL WELL.

** DISTANCE TO #3

Aponvei Subject to General Requirements and Special Stipulations Attached

OPER. OGRID NO. 4021		
PROPERTY NO. 6422	s Nam - s	•
POOL CODE 37542		÷ 1
EFF. DATE 1-9-95	\$ 30	*] • • • •
APINO. 30-625-32794		·
	c	

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.

signed W.J. Quean FOR T.B.A.	DRILLING SUPT.	
(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 CONDITIONS OF APPROVAL, IF ANY:	title to those rights in the subject lease which would entitle the app	plicant to conduct operations thereon.
(CRID, COMPANY, CREDING, COMPANY,	AREA MANAGER	DATE 12/19/94
	structions On Reverse Side	DATE

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.

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JAN 0 6 1995 OOD HOBBS OFFICE DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, 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

A DI Mus	nher						AGE DEDICATI				
			Pool Code			Pool Name					
Property Code		94 37590				Lea Northeast (Devonian) Property Name			Well N	Well Number	
6422					EÀ UNI			1			
OGRID No.	<u> </u>				Op	erator Nel	ne		Eleva		
14021					MARAT	HON C	DIL CO.		3660'		
					Surf	ace Loc	ation				
UL or lot No. Se	oction	Township	Range	Lot Id	in Feet	from the	North/South line	Feet from the	East/West line	County	
0	13	205	34E		9	00	SOUTH 1756		EAST	LEA	
<u> </u>		11	Bottom	Hole	Location	If Diff	erent From Sur	face	L	I	
UL or lot No. Se	etion	Township	Range	Lot Id	in Feet	from the	North/South line	Feet from the	East/West line	County	
Dedicated Acres	Joint or	Infill Con	solidation (Code	Order No.		<u> </u>	·····	L	L	
160 - SE/4											
NO ALLOWA	BLE WI	LL BE AS	SIGNED 7	TO TH	IS COMPI	ETION 1	UNTIL ALL INTER	ESTS HAVE BE	EN CONSOLIDA	TED	
		OR A N	ON-STAN	DARD	UNIT HA	S BEEN	APPROVED BY 1	HE DIVISION			
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	1					I		Printed Name	E		
	i					1		Drilling Title	Supt.		
	1					1		11-22-94			
	1					1		Date			
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	I		ŀ	•		1		Date Surveyed	3239		
						<u> </u>		Professional	Surveyor	111	
			۱. ۱	36	59.2' <u> </u>	3659.2'	1756'	A. Po	MEN		
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	Í		h	36	59.9' +	¹ 3659.9'		W.O. Nu	m./94-11-19	08	
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	Ì		h					Cordineate No	RONALD J. EIDSON	11	
L	i			<u> </u>	<u>ماد د د</u>	حأحب	<u></u>	1 [

Lea Unit No. 17 ADDITIONAL INFORMATION Comply with Order 1

In conjunction with Form 9-331C, Application to Drill subject well, Marathon Oil Company submits the following items of information in accordance with BLM requirements:

1. <u>Geological Name of Surface Formation</u>

Quaternary Alluvium

2. Estimated tops of geological markers and depths of water, oil or gas bearing formations:

FORMATIONS	TOP	LITHOLOGY	COMMENTS	
Dewey Lake	Surface	Sand-Shale		
Rustler	1745'	Anhy, dol, salt, sh.		
Yates	3525'	Anhy, dol, SD		
Capitan Reef	3900'	LS	SWD Zone	
Queen	4750'	LS, SD		Oil, Wtr
San Andres	4985'	LS, dol		<i>•u</i> , <i>•u</i>
Delaware	5633'	SD, dol, LS		Oil, Wtr
Bone Spring	8285'	LS, SD, dol		Oil, Gas, Wtr
1st Sand	9490'	SD, dol	2nd objective	Oil, Gas, Wtr
2nd Carbonate	9788'	LS, SD, dol	5	Oil, Gas, Wtr
2nd Sand	10,145'	SD, SH, dol		Oil, Gas, Wtr
3rd Carbonate	10,595'	LS		Oil, Gas, Wtr
3rd Sand	10,865'	SD, Sh		Oil, Gas, Wtr
Wolfcamp	11,307'	LS, Sh		Oil, Gas
Strawn	12,040	LS		Oil, Gas
Bend	12,340'	Sh		Oil, Gas
Atoka	12,455'	LS		Gas
Morrow	12,705'	SD, Sh		Gas
Mississippi	13,486'	LS		Gas
Woodford	14,076'	Sh		Gas
Devonian	14,254'	LS, dol		Gas

3. <u>Casing and Cement Program</u>

20" Surface to 80':	Cement to surface w/ redi- mix.
13-3/8" Intermediate to 1700':	Circ to surface w/ 1000 sx Class "C" w/ 4% gel, 2% CaCl ₂ , tail in w/ 600 sx Class "C" w/ 2% CaCl ₂ . Set ECP @ ± 1500' w/ FO cementer.

Additional Information Page 7

9-5/8" Intermedia	ate to 5580':	Set DV/ECP tool @ 3500'. lst stage, 465 sx Class "C", 10#/sk salt, tail in w/ 145 sx Class "C" neat. 2nd stage lead - 850 sx Class "C" w/ 4% gel, 10#/sk salt, tail in w/ 240 sx Class "C" w/ 2% CaCl ₂ . Propose to circulate cmt.
5-1/2" Productior	n to 14,500':	Set DV/ECP tool @ 9000'. lst stage 1050 sx, Class "H" w/ 3% KCl; 2nd stage lead - 520 sx Class "H" w/ 5#/sk salt. Tail in w/ 230 sx Class "H". Propose to lift cmt to 4500'.
Surface Hole:	1300', 48#; H-40, STC 400', 55.5#, K-55, STC	
Intermediate Hole:	5100', 40#, L-80, STC 480', 43.5#, L-80, STC	

Production Hole: 2000', 17#, L-80, LTC 11,000', 20#, L-80, LTC 1500', 23#, L-80, LTC

4. <u>Pressure Control Equipment</u> (Exhibit E)

Casing	Description	Test Pressure
20"	21-1/4" 2M Annular 6" HCR w/ 6" diverter line	Function Test Pump thru lines
13-3/8*	13-5/8" 3M Annular 13-5/8" 3M dual ram & mud cross Casing tested to 1200 psi	200/1500 200/3000
9-5/8*	11" 5M Annular11" 5M dual ram & mud crossCasing tested to 2700 psi	200/3000 500/5000 200/3000 500/5000

Casing rams will be installed and seals tested before running 9-5/8" & 5-1/2".

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5. <u>Proposed Mud Program</u>

0-1800'	FW spud mud/gel/lime, mud wt. 8.5, viscosity 45, FL - N/C
1800-5400'	Saturated brine, brine gel, mud wt. 10.0, viscosity 28, FL - N/C
5400-8300'	FW/starch/gel mud wt. 8.5, viscosity 32, FL - 10cc
8300-10,500′	FW gel/lime, mud wt. 8.6, viscosity 30, FL - N/C
10,500-14,500′	Cut brine polymer, mud wt. 9.6, viscosity 36, FL - 10cc

7. <u>Auxiliary Equipment</u>

A safety value and subs to fit all strings will be kept on the floor at all times. An upper kelly cock value will be utilized with the handle available on the rig floor. Surface Hole: Stroke Counter/PVT Intermediate Hole: Stroke Counter/PVT, Gas Separator, H₂S Monitor

8. <u>Testing, Logging, and Coring Programs</u>

A. Coring Program:

None anticipated.

B. Testing Program:

(2) possible drillstem tests in the Delaware and Bone Spring.

C. Logging Program:

Production Hole (14,500'-8300'): GR/LDT/CNL, DLL/MSFL (sidewall cores optional)

Production Hole (14,500'-8300'): GR/LDT/CNL, DLL/MSFL (RFT, FMI optional)

D. Mud Logging Services:

Two-man unit w/ full service to begin @ 3000'.

9. <u>Abnormal Pressures, Temperatures or Potential Hazards</u>

Possible H_2S in Bone Spring. Hydrogen Sulfide safety and monitoring equipment shall be rigged up at the 9-5/8" casing point. Possible severe lost circulation in the intermediate hole.

10. Anticipated Starting Date

As soon as possible

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