р 	M. OIL CONS. CO O. BOX 1990 OBBS. NEW MEX UNIT DEPARTMENT	ICO 88240 ED STATES	SUBMIT IN TR (Other instruc reverse si TFRIOR	ctions on OMB NO. 1004-0136 ide) Expires: February 28, 1995
**********		LAND MANAGE	- /	5. LEASE DESIGNATION AND SERIAL NO.
APPL	ICATION FOR P	ERMIT TO DI	RILL OR DEEPEN	0. IF INDIAN, ALLOTTEB OR TRIBE NAME
1a. TYPE OF WORK		DEEPEN	- C	NA
b. TIPE OF WELL		DEEPEIN	or, Mark Jo	7. UNIT AOBEEMENT NAME NA
	WELL OTHER		ZONN ASL ZONE	LE S. FARM OR LEASE NAME, WELL NO.
Mallon Oil	Company		and the second sec	Mallon 34 Federal
3. ADDRESS AND TELEPHONE NO	. SUITE 170	0	· · · · · · · · · · · · · · · · · · ·	3
4. LOCATION OF WELL (Report location clearly and	Colorado (80202 (303)293-	
1980 FSL &	660 FEL (NE/S	SE)	and some requirements.")	Delaware 11. SEC. T. B. M. OR BUX
At proposed prod. zo			lait I	11. SEC., T., E., M., OR BLK. AND SURVEY OR ABEA
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	LEST TOWN OR POST	OFFICE*	Sec 34, T195, R-34E 12. COUNTY OR PARISH 13. STATE
	S.W. of Hobbs	N.M.		LEA N.M.
LOCATION TO NELSES	LINE, FT. 660 '	1	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ABSIGNED TO THIS WELL 4()
18. DISTANCE PROM PRO	DOGED TOOLSTONE		660	20. ROTARY OR CABLE TOOLS
OR APPLIED FOR, ON TI		150'	6200'	Rotary
3594 GR	hether DF. RT. GR. etc.)			22. APPROX. DATE WORK WILL START*
23.		PROPOSED CASING	GAND CEMENTING PROGRAM	July 24th 1994
SIZE OF HOLE	ORADE, SIZE OF CASING	WEIGHT PER FOOT		
25 "	20"	0.3 wall		Redi - Mix to Surface
<u> 13 3/4" </u> 7 7/8"	9 5/8	36# 14 & 15.	1500CIRCUL	1200 SX Lite, 200 SK Class C 710 SX Lite, 200 SK Class H
Cemented. I in a manner as per Onsh attachments Drilling Pr Surface Use Exhibit #1 Exhibit "A" Exhibit "B" Exhibit "C"	f nonproductä consistent w ore Oil & Gas :	Plan Plan Elevation	ductive, 5 1/2" 11 will be plug 1 regulations. are outlined in uip. Exhibit	Specific programs ON TAB the following ON DATE The following ON DATE The following ON DATE ON THE
÷				
	BE PROPOSED PROGRAM: If tinent data on subsurface location	proposal is to deepen, giv s and measured and true	e data on present productive zone a vertical depths. Give blowout preven	and proposed new productive zone. If proposal is to drill or ther program, if any.
sigver uan	a Ch Int	VV		cintendenture 6/22/94
(This space for Fed	eral or State office use)			
PER:11T NO Appl. cation approval does CONDITIONS OF APPROVA	not warrant or certify that the app L, IF ANY:	licant holds legal or equit	APPROVAL DATE	APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND case which would entitle SPECIAL ISTIPULATIONS ATTACHED
APPROVED BY	chard L.H	NUS TILE _	ons On Reverse Side	Ger DATE 7-72-94

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



	01588 UL 8	33 H	CON	SERVATI	Resources Department	SION	Revised Februar	n on back trict Office - 4 Copies
1000 Rio Brazos Rd., Astec, N	AREA !		Santa F	e, New Mexic	0 87504-2088		🗆 AMENDED) REPORT
		WELL LO		AND ACREA	AGE DEDICATI	ON PLAT		
API Number 30-125-322	1.7	37	Pool Code 584	\mathcal{N}	E Lea	Pool Name	eres Ces Ce	
Property Code 15398			MA	Property Nan			Well Na 3	umber
OGRED No. 13425			МА	Operator Nam			Elevat	
••••••••••••••••••••••••••••••••••••••				Surface Loca			369	4
UL or lot No. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
34	195	34E	L	1980	SOUTH	660	EAST	LEA
UL ar let No. Section	Township	* Bottom Range	Hole Loc	cation If Diffe	rent From Sur	face Feet from the	.	·
	-				Not cly boath time	reat from, the	Enst/West line	County
Dedicated Acres Joint or 40 555	r Infill Co	nsolidation	Code Or	der No.				·
		CIONED						
NO ALLOWABLE W	OR A N	ION-STAN	IDARD UN	IT HAS BEEN	APPROVED BY	RESTS HAVE BE THE DIVISION	EN CONSOLIDA	TED
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i						Title	2-94	
				1		Date		
			······			SURVEYO	R CERTIFICAT	ION
				1			that the well locations plotted from field	
				36	98.7	actual surveys	-	under my
					660'		best of my balie!	
				36	89.7 - 3691.9	ALLA ALLA	NE 7. 1894	
				·	·	Date Surveyed	Self. pf	
					980.	Protectional :	Surveyor	
				1	6	2) 0.50 N.O. West	L-11-091	<u>92</u> 86
				1		Certificate No		
L							RONALD J. EIDSON, GARY L. JONES,	· 11

DRILLING PROGRAM

Attached to Form 3160-3 Mallon Oil Company Mallon "34" Federal No.3 1980 FSL, 660 FEL, Sec.34 T19S R34E Lea County, New Mexico

Lease Number: NM-052

- 1. Geologic Name of Surface Formation is : Quaternary Alluvium
- 2. Estimated Tops of Important Geologic Markers

vium Surface
1590
1720
3326
3513
3821
4516
5800
6200

3. The Estimated Depths of Anticipated Fresh water, Oil or Gas:

Quaternary Alluvium	300'	Fresh Water.
Yates	3513'	Oil
Queen	4516'	Oil
Delaware	5800'	Oil

No other formations are expected to give up Oil, Gas, or Fresh Water in measurable quantities. The surface fresh water sands will be protected by setting 9 5/8" csg at 1500' and circulating cement back to surface. Potash will be protected by setting 5 1/2" csg at total depth and circulating cement back to 1300' from surface.

4. Proposed Casing Program:

<u>Hole Size</u> 25"	<u>Interval</u> 0-40'	<u>Csg OD</u> 20"		veight grade, Jt., Type Cond uctor, 0.30" wall thickness	
13 3/4"	0-1500'	9 5/8"	36#	K-55 STC	
7 7/8"	0-5300 5300-TD	5 1/2" 5 1/2"	14# 15.5#	K-55 STC K-55 STC	
Cement Prog	gram:				
20" Conductor csg:		Cemented with ready-mix to surface			
9 5/8" Surface csg:		Cemented to Surface with 700 sx Pacesetter Lite 6.00% Gel (Bentonite)+0.25 lb/sk Cello-Seal 105.% Fresh Water			
5 1/2" Production csg.		Cemented with 710 sacks Pacesetter Lite (C) 6.00% Gel (Bentonite)+0.25 lb/sk Cello-Seal 5.00% Salt+105.00% Fresh Water,This cement slurry is designed to bring TOC to 1300'.			

5. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram type (3000psi WP) preventer. The unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and drill pipe rams on bttom. The BOP will be nippled up on the 9-5/8" surface csg and used continuosly until TD is reached. BOP and accessory equipment will be tested to 1000 psi before drilling out of surface casing. Pipe rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and 2" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a kelly cock and floor safety valve and choke lines and choke manifold with 3000 psi WP rating.

6. Types and Characteristics of the Proposed Mud System:

The well will be drilled to TD with a combination of brine, cut brine, and polymer/KCL mud system. The applicable depths and properties of this system are as follows:

Depth	Туре	Weight	Viscosity	Waterloss
		(ppg)	(sec)	(cc)
0-40	Fresh Water (spud)	8.5	40-45	N.C.
0-1500	F.W. (Gel/Lime)	8.5-9.0	32-36	N.C.
1500-T	D Brine Water	10.0	32-34	10-12cc

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

- 7. Auxiliary Well Contol and Monitoring Equipment:
 - (A) A Kelly cock will be kept in the drill string at all times.
 - (B) A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
 - (C) The drilling fluids systems will be visually monitored at all times.
- 8. Testing, Logging and Coring Program:

Drill Stem Tests:	None Anticipated
Logging:	TD to Surface casing, GR, CNL-FDC, DLL, MSFL
Coring:	None Planned

9. Abnormal Conditions, Pressures, Temperatures, & Potential Hazards:

No abnormal pressures or temperatures are anticipated. The proposed mud program will be modified to control excess pressure if abnormal pressures are encountered. The estimated bottom hole temperature (BHT) at TD is 150 F and estimated maximum bottom-hole pressure (BHP) is 2800 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. Anticipated starting date: August 1, 1994 Anticipated completion of Drilling operations: Expected duration of 3 weeks.

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

3,000 psi Working Pressure

3 MWP

			· · · · · · · · · · · · · · · · · · ·	··
No.	ltem		Min. I.D.	Min. Nominal
1	Flowline			
2	Fill up line			2*
3	Drilling nipple			
5	Two single or one dual hy operated rams	draulically		
6a	Drilling spool with 2" min. 3" min choke line outlets			
6b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above.)			
7	Valve	Gate 🗆 Plug 🗆	3-1/8*	
8	Gate valve-power operation	led	3-1/8"	
9	Line to choke manifold			3*
10	Valves	Gate 🗆 Piug 🗅	2-1/16"	
11	Check valve		2-1/16*	
12	Casing head			
13	Valve	Gate 🗆 Piug 🗅	1-13/16*	
14	Pressure gauge with need	ile valve		
15	Kill line to rig mud pump r	nanifold		2*

STACK REQUIREMENTS



CONFIGURATION

	OPTIONAL					
16	Flanged valve	1-13/18*				

CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 psi, minimum.
- 2.Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3.BOP controls, to be located near drillers position.
- 4.Kelly equipped with Kelly cock.
- 5. Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 6.Kelly saver-sub equipped with rubber casing protector at all times.
- 7.Plug type blowout preventer tester.
- Extra set pipe rams to fit drill pipe in use on location at all times.
- 9. Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

- 1.Bradenhead or casinghead and side valves.
- 2. Wear bushing, if required.

GENERAL NOTES:

- 1.Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through chore. Valves must be full opening and suitable for high pressure mud service.
- Controls to be of standard design and each marked, showing opening and closing position.
- 4.Chokes will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All valves to be equipped with handwheels or handles ready for immediate use.
- 6. Choke lines must be suitably anchored.

- 7.Handwheels and extensions to be connected and ready for use.
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All seamless steel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- 10.Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations.

Mallon "34" Federal No.3 Lea County New Mexico Exhibit 1