(July, 1992)	NI	TED STATE	s N	I.M. OIL CI			SSION FORM		a
	DEPARTN	T OF THE I	NTE	INDES NE	W Are	STO I	BB 240 DEBIGN	February 28, 1	
	BUREAU OF	LAND MANA	GEME	TUDDa, NE	AA AALE				EIAL NO.
APPL	ICATION FOR F	ERMIT TO	DRIL		PEN	1.00	6_IF INDIAN, ALL	OTTEN OR TRI	BE NAME
1a. TYPE OF WORK							NA		
D. TYPE OF WELL	RILL 🛛	DEEPEN			/	30	T. ONIT LOBEEMI	NT NAME	,
	GAB		81		MULTIPI	. — 11	NA 1001		
2. NAME OF OPERATOR	WELL OTHER	·····		a ko	ZONE		18. ANNA OR LEASE NA		
Mallon Oil	Company				/		Mallon 9. ARVELAND	<u>34/Fed</u>	eral
3. ADDRESS AND TELEPHONE NO	-	· _ · · · · · · · · · · · · · · · · · ·		(303)293-	2222	C EHS	1.6 NITVI	3/	
999 18th Str	eet, Suite17	00, Dénve:	- 0 -	1 0000	_	No	10. FIELD PO	OL, OR WILD	CAT
At surface	clearly and	a in accordance wi	th any S	State requirement	s.*)		ad, New Delawar	e	
1980 FNL &	660 FWL (SW,	/NW)					11. SEC., T., R., M. AND SURVEY	OR BLE	
At proposed prod. zo		(**** * * * * * * * * * * * * * * * * *	_				Sec 34, T		345
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	NW) Unit	E T OFFIC	E*			12. COUNTY OF PA		
<u>35 Miles</u>	S.W. of Hobbs						LEA	N.I	
LOCATION TO NEARES	OSED*		16. NC	. OF ACRES IN LI	EASE	ן 17. אס. ס	F ACRES ASSIGNED		······
Also to nearest dri	lg. unit line, if any) 66	50'		660		40	IIS WELL		
15. DISTANCE FROM FRO TO NEAREST WELL, I	DRILLING, COMPLETED,		19. PH	OPOSED DEPTH		20. ROTAE	T OR CABLE TOOLS		
OR APPLIED FOR, ON TH	±	150'		6200'		Ro	tary		
3690 GR	teater or, al, Ga, etc.)						22. APPROX. DAT		
23.	······································						July 2		
SIZE OF HOLE		PROPOSED CASI		CEMENTING P	ROGRAM	l			
25"	GRADE, SIZE OF CASING	WEIGHT PER F		SETTING DEP			QUANTITY OF C	_	
13 3/4	<u> </u>	<u>0.3 wa1</u> 36# CIRC		<u>40'</u> E 1500'			- Mix to S		
7 7/8	5 1/2	14 & 15			ACH	700 S2	X Lite, 20 X Lite, 20	$\frac{10}{20}$ SX (lass
in a manner as per Onsh attachments Drilling Pr Surface Use Exhibit #1 Exhibit "A" Exhibit "B" Exhibit "C"		ve, The with Fede: s Order # Plan reventer 1 Elevation bads cess Boads	well ral l ar Equi n Pla	will be regulatic e outline p. Exh at Exh	plug ons. ed in nibit nibit	gged a Speci the "E"- "F"-	nd abando fic proff following Mell Size Product Central O	EHEN NO 15308 W	
IN ABOVE SPACE DESCRIB deepen directionally, give perti 34.	E PROFOSED PROGRAM: If inent data on subsurface location	proposal is to deepen, j		l depuis. Give blowd	out prevent	er program, if	new productive z@c. 1 any. 1 denotate _6/2		
(This space for Fede	ral or State office use)						APPROVAL	SUBJECT	TO .
PERMIT NO.				APPROVAL DATE			GENERAL	-	
Application approval does r CONDITIONS OF APPROVAL	not warrant or certify that the app , IF ANY:	licant holds legal or eq	uitable title	e to those rights in the	subject lea	se which wou	SPECIAL S ald entitle the applicant ATTACHED	TIPULATIC	NS ations thereon
APPROVED BY SIL	iohard L.	*See Instruc	Are tions (Dn Reverse Sid		eC	DATE	5-94	<u> </u>

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

DISTRICT I					State of	of Ne	w Mexico		For Revised Februar	m C-102
2.0. Bez 1960, Ho	668, NM 062	RECEIV	ied	Energy,	Minerals and	Natural	Besources Department	O -2	Instructio	n on back
DISTRICT II P.O. Drawer DD, A	rtecia. NM 8	8210						Submit	to Appropriate Dist State Lease	
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DRILLING PROGRAM

Attached to Form 3160-3 Mallon Oil Company Mallon "34" Federal No.5 1980 FNL, 660 FWL, 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

Quaternary Alluv	vium Surface
Rustler	1590
Top of Salt	1720
Base of Salt	3326
Yates	3513
Seven Rivers	3821
Queen	4516
Delaware	5800
Total Depth	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 coment 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"		eight grade, Jt,, Type Cond ctor, 0.30" wall thickness
13 3/4"	0-1500'	9 5/8"	36i	K-55 STC
7 7/8"	0-5300 5300-TD	5 1/2" 5 1/2"		K-55 STC K-55 STC
Cement Prog	gram:			
20" Conduct	or csg:	Cemented w	rith r ady	y-mix to surface
9 5/8" Surface csg:			Bent nite	e with 700 sx Pacesetter Lite e)+0.25 lb/sk Cello-Seal
5 1/2" Produ	ction csg.	6.00% Gel (l 5.00% Salt+	Bent nite 105. ⊧0%	sacks Pacesetter Lite (C) e)+0.25 lb/sk Cello-Seal 5 Fresh Water,This cement 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 M⁻²) preventer. The unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and drill piper arms on bttom. The BOP will be nippled up on the 9-5/8" surface csgond used continuosly until TD is reached. BOP and accessory equipment will be tested to 1000 psi before drilling out of surface casing. Piper checked on each trip out of the hole. These daily tour sheets. A 2" kill line and 2" choke drilling spool located below the ram-type BC - Other accessories to the BOP equipment will include a kelly cock and lines and choke manifold with 3000 psi WP ating. 6. Types and Characteristics of the Proposed Mu System:

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

Depth	Туре	Weight	Vis	osity	Waterloss
		(ppg)	(se)	(cc)
0-40	Fresh Water (spud)	8.5	40-	5	N.C.
0-150	0 F.W. (Gel/Lime)	8.5-9.0	32-	6	N.C.
1500-	TD Brine Water	10.0	32-	4	10-12cc

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

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

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

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

No abnormal pressures or temperatures are inticipated. The proposed mud program will be modified to control excess p ssure if abnormal pressures are encountered. The estimated bottom hole ten perature (BHT) at TD is 150 F and estimated maximum bottom-hole pressu \Rightarrow (BHP) is 2800 psig. No hydrogen sulfide or other hazardous gas s or fluids have been encountered, reported or are known to exist t this depth in this area. No major loss circulation zones have been re ported in offsetting wells.

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

MINIMUM BLOWOUT PREVENTER R QUIREMENTS

3.000 psi Working Press re

3 MWP

	STACK	HEQUIREME	NIS	
No.	ltem	Min, I.D.	Min. Nominal	
1	Flowline			
2	Fill up line			2*
3	Drilling nipple			
5	Two single or one dual h operated rams	ydraulically		
6a	Drilling spool with 2" mir 3" min choke line outlets			
6b	2" min. kill line and 3" m outlets in ram. (Alternate			
7	Valve	Gate 🗆 Plug 🗆	3-1/8"	· · · · · · · · · · · · · · · · · · ·
8	Gate valve-power oper	ated	3-1/8"	
9	Line to choke manifold			3″
10	Valves	Gate 🗆 Plug 🗆	2-1/16"	
11	Check valve	······	2-1/16*	
12	Casing head			
13	Valve	Gate 🗆 Piug 🗇	1-13/16"	
14	Pressure gauge with nee	die valve		
15	Kill line to rig mud pump	manifold		2*

STACK DECHIDEMENTS



OPTIONAL				
16	Flanged valve	1-13/16*		

CONTRACTOR'S OPTION TO FURNISH:

- 1.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.
- 8. 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 e made only with the express permission of MEC's Drilling Manager.
- 2.All connections, valves, fittings, pl ing, etc., subject to well or pump press ire must be flanged (suitable clamp d' nnections acceptable) and have minim m working pressure equal to rated wirking pressure of preventers up through thore. Valves must be full opening and su table for high pressure mud service.
- 3. Controls to be of standard design (id each marked, showing opening an closing position.
- 4. Chokes will be positioned so as not to hamper or delay changing of choice beans. Replaceable parts for adjust bie choke, other bean sizes, retainers, and choke wrenches to be convenienth located for immediate use.
- 5.All valves to be equipped with han wheels or handles ready for immerate use.
- 6. Choke lines must be suitably and red.

- 7.Handwheels and extensions to be connected and ready for use.
- 8.Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- 9.All seamless steel control piping (3000 pui 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.5 Lea County New Mexico Exh: bit "1"