Гогы 3160-3						
		PROPERT	YNO. 171			
(July 1992)	UNI	TED STPOOL CO	DE 3757	B*	FORM APP	ROVED
	DEPARTMEN	T OF T			OMB NO. 10 Expires: Februa	.ry 28, 1995
	BUREAU OF		- /	2 [5. LEASE DESIGNATION	
APPI	LICATION FOR F	APINO.	30-025-32	483	NM-052	
a. TYPE OF WORK		CAMII)	6. IF INDIAN, ALLOTTER	OR TRIBE NAL
b. TYPE OF WELL	RILL 🖾	DEEPEN	CARLE		N/A 7. UNIT ADBEEMENT N	
010	WELL OTHER		AREA	1783	N/A	
NAME OF OPERATOR	WELL OTHER	·	SINGLE MULTI ZONE ZONE		8. FARM OR LEASE NAME WE	L NO.
Mallon Oil	Company	•			Mallon 35 Fede	ral No. 1
		· ·			9. API WELL NO.	
P.O. Box 32	56, Carlsbad, NM Report location clearly and FNL & 660' FWI.	<u>1 88220 (5</u> 05)8	85-4596	-	10. FIELD AND POOL, O	
At surface 660	FNL & 660 ! FWL.	(NW NW) Init	State requirements.*)		Lea Delaware	
At proposed prod. sr			internet and the		11. SEC., T., R., M., OR H AND SURVEY OR AR	
	••• 660' FNL & 60	SO, EMT (NM NM)	Unit D	an ann an	AND BURYEI OR AR	I.
4. DISTANCE IN MILES	AND DIRECTION FROM NEL	BEST TOWN OR POST OFFI	ICB.		Sec. 35, T19	9S-R34E
2/ miles sou	ithwest of Hobbs	. New Mexico			12. COUNTY ON PARISH	
PROPERTY OF NEARE	8 T	16. 1	NO. OF ACEES IN LEASE	17. NO. OF	Lea County	<u> </u>
	LINE, FT. 1g. unit line, if any) Prosed LOCATION*	660'	240	10 TH	18 WILL 40	
		3301	PROPOSED DEPTH 8200 1	20. ROTARY	T OR CABLE TOOLS	
LELEVATIONS (Show W)	hether DF, RT, GR, etc.)	000	0200		Rotary	
3.		3715' GR			22. APPROX. DATE WOR	X WILL STAR
		PROPOSED CASING AN	D CEMENTING PROGRA	I	5/31/95	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH			
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		the second s	401	Podi N	(
and the second	9-5/8"	36#	40 · 1500 CIRCULA 1	Redi-M	fix to surface	
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DRILLING PROGRAM

Attached to Form 3160-3 Mallon Oil Company Mallon ''35'' Federal No. 1 660' FNL, 660' FWL, Sec.35, T19S R34E Lea County, New Mexico

Lease Number: NM-052

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

Quaternary Alluvium S	urface
Rustler 1	590
Top of Salt 1	720
Base of Salt 33	326
	513
Seven Rivers 38	321
Queen 45	516
	300
Total Depth 82	200

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" casing at 1500' and circulating cement back to surface. Potash will be protected by setting 5 1/2" casing at total depth and circulating cement back to 1300' from surface.

4. Proposed Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>Casing OD</u>	<u>Casing weight grade, Jt,, Type Cond</u>
25''	0-40'	20''	Conductor, 0.25'' wall thickness
14 3/4"	0-1500'	9 5/8''	36# K-55 STC
8 3/4"	0-5300	5 1/2"	15.5# K-55 STC
	5300-TD	5 1/2"	17.0# N80 STC

Cement Program:

20" Conductor casing:	Cemented with ready-mix to surface
9 5/8" Surface casing:	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 casing:	Stage #1 - Cement with 800 sacks Class "C" + 5 lb/sk CSE + 0.5% CF-14 + 5 lb/sk salt + 5lb/sk Gilsonite + 0.25 lb/sk Cello-Seal + 59.390% fresh water. This cement slurry is designed to bring TOC to 5000'. Stage #2 - Cement with 580 sacks Pacesetter Lite, 6.0% Gel (Bentonite) + 5.0% salt + 0.25 lb/sk Cello- Seal + 105.0% fresh water followed with 100 sacks Class "C" cement + 5.0 lb/sk CSE + 5 lb/sk salt + 0.25 lb/sk + Cello-Seal + 5.0 lb/sk Gilsonite + 0.5 % CF-14 + 105.0% fresh water. This cement slurry is designed to bring TOC to 1300'.

5. Minimum Specifications for Pressure Control:

The blowout preventor equipment (BOP) shown in Exhibit #1 will consist of a double ram type (3000 psi WP) preventor. The unit will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and drill pipe rams on bottom. The BOP will be nippled up on the 9-5/8" surface casing and used continuously 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	Water loss
		(ppg)	(sec)	(cc)
	Fresh Water (spud)		40-45	Ň.Ć.
	F.W. (Gel/Lime)	8.5-9.0	32-36	N.C.
1500-	TD 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 well site at all times.

- 7. Auxiliary Well Control 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



C C S MOSES OFFICE

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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 3200 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: May 31, 1995 Anticipated completion of Drilling operations: Expected duration of 3 weeks.

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

3,000 pbl Working Pressure

J HWP

No.	ltem	Min. I.D.	Min. Nominal	
1	Flowline			Nominal
2	Fill up line		+	2*
3	Drilling nipple			4
5	Two single or one dual operated rams	hydraulically		
61	Drilling spool with 2" m 3" min choke line outlet	in, kill line and Is		
65	2" min. kill line and 3" r outlets in ram. (Alternat	min. choka line a lo 6a above.)		
7	Valve	Gate 🗆 Plug 🗅	3-1/8*	
8	Gate valve-power ope	rated	3-1/8*	
9	Line to choke manifold			3*
10	Valves	Gate 🗆 Plug 🗅	2-1/16*	
11	Check valve		2-1/18*	_
12	Casing head			
13	Valve	Gate 🗆 Piug 🗅	1-13/16*	
14	Pressure gauge with ne	edle valve	<u>†</u>	
15	Kill line to rig mud pum		+	2*

STACK REQUIREMENTS



	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,
- Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closedagainst 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 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.
- 3. 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. Choks 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.



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UC OFFICE

DISTRICT I P.0. Box 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 67410

DISTRICT IV P.O. Box 2066, Santa Fe, NM 67504-2088 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 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 LO	CAT	ION	AND ACRE	AGE DEDICATI	ON PLAT		•
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	1392	5					Operator Nam		Elev 37		
		<u></u>					Surface Loc	ation			
	UL or lot No.	Section 35	Township 19 S	Range 34 E	Lot 1	Idn	Feet from the 660	North/South line NORTH	Feet from the 660	East/West line WEST	County
	•	<u> </u>	L	Bottom	Hole		ation If Diffe	rent From Sur			LEA
	UL or lot No.	Section	Township	Range	Lot I		Feet from the	North/South line	Iace Feet from the	East/West line	County
10	Dedicated Acres	s Joint or	Infill Co	nsolidation (Code	Ord	er No.	[L
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									SURVEYO	R CERTIFICAT	ION
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									W.O. Run	201 4-28- 1. 95-11-067	95 2A
		 					 			CRONALD CEIDSON	676 3239 12641

WILL BE RELEASED CONFIDENTIAL LOGS ABOVE DATE DOES NOT INDICATE WHEN ELF HEJE)

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