		N.M. 017	OPER. OGRIC	NO. 153	98		Kesubn	sitte 1
		P.O. BOX 19	PHOPEH: Y N	U. 133	7 ATE		FORM APPROVE	$e^{-1/2}$
Form 3160-3 (July 1992)		HOBBSUNTE	POOL CODE	3.758	o anc	n	OMB NO. 1004-01	
(July 1992)		DEPARTMENT	EFF. DATE	3/29/	96		Expires February 28,	
					32518 -		SE DESIGNATION AND	SERIAL NO.
	APPLIC	ATION FOR PE	API NO3/2	7-0 25	<u> </u>	NM0		
1a. TYPE OF WORK	Drill	X	Deepen			N/A	NDIAN, ALLOTTEE OR	TRIBE NAME
b. TYPE OF WELL				Single Zone	Multiple Zone	7. UNI N/A	T AGREEMENT NAME	
Oil Well X	Gas Well	Other		Single zone	Waterpie Zone		RM OR LEASE NAME, V	VELL NO.
NAME OF OPERAT		l Company					on 34 Federal N	
3 ADDRESS AND TE						1.	WELL NO.	
	P.O. Box	3256		_			25-32818	U COAT
		NM 88220	(505) 885-459				ELD AND POOL, OR W Lea Delaware	ILDCAT
4. LOCATION OF WE	LL (Report loc	ation clearly and in acco	rdance with any State r d 660' FWL (NV	equirements.*)			EC., T., R., M., OR BLK.	
At surface		1980 FSL an	0 000 FVVL (IVV	V SVV) OTHER			SURVEY OR AREA	
At proposed prod. zone	е	1980' FSL an	d 660' FWL (NV	W SW) Unit L		Sec	. 34, T19S-R34E	
14 DISTANCE IN MIL	LES AND DIRI	ECTION FROM NEARES	ST TOWN OR POST OF	FICE *		1	OUNTY OR PARISH	13. STATE
35	miles sou	uthwest of Hobbs	s, New Mexico				County	NM
15 DISTANCE FROM		*		16. NO. OF ACR		17. NO. OF TO THIS WE	ACRES ASSIGNED	
PROPERTY OR LEAS			660'		640		40	
(Also to nearest drig. u)				DOTAD	Y OR CABLE TOOLS	
18. DISTANCE FROM				19. FROPOSED	DEPTH	ZU. RUTAR	Y OR CABLE TOOLS	
TO NEAREST WELL, OR APPLIED FOR, O			1320'	6	300'		Rotary	
21. ELEVATIONS (SH			3678' GR	22. APPROX.DATE	WORK WILL START	3/15	5/96	
23.		Pl	ROPOSED CASIN		TING PROGRAM			
SIZE OF HOLE	GRADI	, SIZE OF CASING		PER FOOT	SETTING DEPTH	Pos	QUANTITY OF CE li-mix to surface	MENT
25"		20").25	40' 1500'	700	- Lita 200 av (Class CCIRCULA
14-3/4"	<u> </u>	9-5/8"	3	36# 4# 2 15 5#	TD	800	sx Lite, 200 sx 0	Class C
8-3/4"		5-1/2		14# & 13.J#	10	000	SA EIRO, EUO GA	
Exhibit #1 - BI	low Out P ocation ar	reventor Equipm nd Elevation Plat	ent	Exhibit "C-1 Exhibit "D" - Exhibit "E"	nd abandoned in Gas Order No. 1 1/10/95 Planned Acces - Planned Acc One Mile Radio Well Site Layo Production Fac	ess Roa ıs Map ut	ner consistent lined in the state of the sta	Class C SUF LANG MARS B 1 6 1996
IN ABOVE SPACE D to drill or deepen dire	escribe PRO ectionally, give	DPOSED PROGRAM: If pertinent data on subsur	face locations and mea	sured and true vertic	productive zone and pr al depths. Give blowou	t preventer (orogram, if any	Mex.
							APPROVAL SUB.	
(This space for Fede	ral or State off	ice use)					GENERAL REQU	REMEMTS AND
PERMIT NO.					APPROVAL DA		SPECIAL STIPUL	
Application approval	does not warr	ant or certify that the app	ilicant holds legal or eq	uitable title to those i	ights in the subject leas	e which wo	uld enting the plicant t	o conduct
operations thereon.								
CONDITIONS OF A	PPROVAL, IF	ANY:		,			\$ \$ \tau \tau \tau \tau \tau \tau \tau \tau	*uman
APPROVED 60 R	IG. ଉଟ୍ଟେ	PICHAPAL	MANIE TITLE	AREAN	MANAGER	_ DATE	MAR 2 0 1	ଅଧ୍ୟ
VILLIOAND BANKA								

DRILLING PROGRAM

Attached to Form 3160-3
Mallon Oil Company
Mallon "34" Federal No. 16
1980 FSL, 660 FWL, Sec.34 T19S R34E
Lea County, New Mexico

Lease Number: NM-052

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

Quaternary Alluvium Surface Rustler 1590 1720 Top of Salt 3326 Base of Salt 3513 Yates 3821 Seven Rivers 4516 Queen 5800 Delaware Total Depth 6300

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:

Hole Size	Interval	<u>Csg OD</u>	Csg weight grade, Jt,, Type Cond
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"	14# K-55 STC
	5300-TD	5 1/2"	15.5# K-55 STC

Cement Program:

20" Conductor csg: Cemented with rea

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 800 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	Type	Weight	Viscosity	Waterloss
•	•••	(ppg)	(sec)	(cc)
0-40 Fre	sh Water (spud) 8.5	40-45	N.C.
0-1500 F	.W. (Gel/Lime)	8.5-9.0	32-36	N.C.
	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: March 15, 1996.
Anticipated completion of Drilling operations: Expected duration of 3 weeks.

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

3,000 pai Working Pressure

3 MWP

STACK REQUIREMENTS

No.	ltem		Min. I.O.	Min. Nominal
1	Flowiina		ĺ	
2	Fill up line			2*
3	Onlling nicole			
5	Two single or one dual hydroperated rams			
6a	Oniting spool with 2" min. k 3" min chake line outlets	ill line and		
65	2" min. kill line and 3" min. cuttets in ram. (Alternate to			
7	Valve	Gate [] Plug []	3-1/8"	
8	Gate valve-power operate	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	Varve	Gate () Plug ()	1-12/16*	
14	Pressure gauge with need	e valve		
15	Kill line to rig mud pump m	anilold		2"

BLIND RAMS BLIND RAMS PIPE RAMS
ORIGINA POOL 7 13 9
CTZING (S)

CONFIGURATION A

OPTIONAL		
16 Flanged valve	1-13/16"	

· CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead, Working pressure of preventers to be 3,000 psl, minimum.
- Automatic accumulator (80 gallon, minimum) capable of closing SCP in 30 seconds or less and, holding them closedagainst full rated working pressure.
- 3.80P controls, to be located near drillers position.
- 4. Kelly equipped with Kelly cock.
- Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 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:

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

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 (sultable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through chors. 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.
- 5.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.
- 9.All seamless steel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- Do not use kill line for routine fill-up operations.

Exhibit 1

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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

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

1000 Ric Brazos Rd., Aztec, NM 87410

DISTRICT III

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

		 								
30-02	Number 5 3	2818	3.	7584		VE Lea	De la L			
Property Code					Property Name MALLON 34 FEDERAL			Well Number		
OGRID No. 13925				М	Operator Name MALLON OIL COMPANY			Elevation 3678'		
Surface Location										
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
L	34	195	34E		1980	SOUTH	660	WEST	LEA	
11 Bottom Hole Location If Different From Surface										
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acre			onsolidation (der No.					
NO ALL	OWABLE V	OR A I	ssigned ' Non-stan	TO THIS	COMPLETION IIT HAS BEEN	UNTIL ALL INTER APPROVED BY	RESTS HAVE B	EEN CONSOLIDA	ATED	
						(Signature Diane Printed Nan Title SURVEY	or certifica	formation at to the	
3677.3' 660' 3675.4'				Exhibi	it "A"		on this plat is actual survey supervisors of	MDER 24, 19	under of under my strue and strue an	