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	-	OPER. OGI	RID NOl'	3425		. •	n. - 4
form 3160-3		PROPERTY	NO IT	17	- <u>89</u> 24(EORI ADDD	
July 1992)	LINITE	ED POOL COD		TAL.	on	OMB NO. 100	4-0136
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A. TIPE OF WORK			CARLES			UNIT AGREEMENT NA	×B
D. TIPE OF WELL			•.	A. AN		N/A	
	LL OTHER	. <u></u>	ZONE	MULTIPLE ZONE		. TARM OR LEASE HAME WELL	
NAME OF OPERATOR					<u> </u>	Mallon 35 Feder	cal No. 5
Mallon Oil	Company		· · · · · · · · · · · · · · · · · · ·	<u> </u>	°	· An well no.	
P.O. Box 3256	5, Carlsbad, NM	88220 (505)885-4596		1	0. FIELD AND POOL, OF	R WILDCIT
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PROPERTY OR LEASE L (Also to nearest drig	AND, FT.	10 V	240		10 THI.	40	
S. DISTANCE FROM FROT TO NEAREST WELL, D	OSED LOCATION*		19. PROPOSED DEPT	н	20. ROTARY	OR CABLE TOOLS	
OR APPLIED FOR, ON TH	18 LEASE, FT. 26	50'	8200 '			Rotary	
21. ELEVATIONS (Show wh			÷			22. APPROX. DATE WO	BK WILL START'
23.	· · · · · · · · · · · · · · · · · · ·	3717'				5/31/95	
	· _ · · · · · · · · · · · · · · · · · ·	PROPOSED CASIN					
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<u>25"</u> 14-3/4"	<u>20</u> 9–5/8"	0.25	40		<u></u>	<u>Mix to surfac</u>	
	1 9-0/0"	1 36#	1 1500	CIRCULA	E700 s	x Lite, 200 s	$x \cap z \in C$
8-3/4" The Operator	5-1/2"	15.5# & 17	7# TI	n = BAC	Stage Stage	#2: 580 sx 100 sx Delaware for	Class C Pacesetter I Class C mation for
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Title 18 U.S.C. Section 1001; makes it a crime for any person knowingly and willfully to make to not de-

DRILLING PROGRAM

Attached to Form 3160-3 Mallon Oil Company Mallon "35" Federal No. 5 400' FNL, 1680' FWL, Sec.35, T19S R34E Lea County, New Mexico

Lease Number: NM-052

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

Quaternary Alluvium	Surface
Rustler	1590
Top of Salt	1720
Base of Salt	3326
Yates	3513
Seven Rivers	3821
Queen	4516
Delaware	5800
Total Depth	8200

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:

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<u>Hole Size</u>	<u>Interval</u>	<u>Casing OD</u>	Casing 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"	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:	<u>Stage #1</u> - 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'. <u>Stage #2</u> - 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:

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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)
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.
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

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

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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 phi Working Pressure

3 MWP

	STACK REQUIREMENTS					
NO.	item		Min. 1.D.	Min. Nominal		
1	Flowline					
2	Fill up line			2*		
3	Orilling nipple		•			
5	Two single or one dual hydr operated rams					
6a	Drilling spool with 2" min. k 3" min choke line outlets					
65	2° min, kill line and 3° min, choka line outlets in ram. (Alternate to 6a above.)					
7	Valve	Gate 🗆 Plug 🖸	3-1/8"			
8	Gate valve-power operate	d	3-1/8*			
9	Line to choke manifold			3*		
10	Valves	Gate 🖸 Plug 🖸	2-1/16*			
11	Check valve		2-1/18*	1		
12	Casing head					
13	Valve	Gate 🛛 Plug 🖸	1-13/16*			
14	Pressure gauge with need	le valve				
15	Kill line to rig mud pump m	hanifoid		2*		

STACK BEOLUBENENTS



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 closedagainst full rated working pressure.
- 3.80P controls, to be located near drillers position.
- 4.Kelly equipped with Kelly cock. 5.Inside blowout prevventer or its equivalent on demck 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 VEIVOS. 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. Repiscable 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 USA.
- 6. Choke lines must be suitably anchored.

- 7.Handwheels and extensions to be connected and ready for use.
- 8. Valves adjacent to drilling spool to be kapt open. Use outside valves except for emergency.
- 9.All seamless steel control piping (3000 psi working pressure) to have flexible joints to svoid 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.

Exhibit 1

DISTRICT I P.C. Box 1980, Hobbs, NM 68241-1980

DISTRICT II P.O. Drawer DD, Artenia, NM 68211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV P.O. Box 2088, Santa Fe, NM 87504-2088

P.O. Box 2088

Santa Fe. New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

Revised February 10, 1994

State Lease - 4 Copies

Fee Lease - 3 Copies

Submit to Appropriate District Office

Form C-102

API Number Pool Code Pool Name 2 125-3298-Delaware 758 Lea Property Code Well Number **Property** Name Nal **35 FEDERAL** 5 **Operator** Name Elevation **QGRID** MALLON OIL COMPANY 3717 Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County С 35 19 S 34 E 400 NORTH 1680 WEST LEA Bottom Hole Location If Different From Surface East/West line UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the County Consolidation Code Dedicated Acres Joint or Infill Order No. NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 5720.3 3717.6 OPERATOR CERTIFICATION 8 I hereby certify the the information 1680% ined herein is true and complete to the best of my knowledge and belief. 3714.1 ۱3 Ulan Signature Mane Printed Name roduction Title Dete SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief. APRIL 27, 1995 Date Surveyor Signature & Seal of OS Date Surveyed JLP 4-28-95 W.O. Num. 95411-0672E JOHN WOWEST, Certificate No. 676



Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

PORONALD CEDSON.

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