13925 OPER, OGRID NO. PROPERTY NO. Form 3160-3 FORM APPROVED UNITED POOL CODE (July 1992) OMB NO. 1004-0136 Expires: February 28, 1995 DEPARTMENT OFF. DATE 5. LEASE DESIGNATION AND STRIAL NO. BUREAU OF LAIAPI NO. NM - 052<del>'95</del> 6. IF INDIAN, ALLOTTER OR TRIBE NAME APPLICATION FOR PERI 1a. TIPE OF WORK OE CARL 7. UNIT AGREEMENT NAME DRILL EX DEEPEN [ ERS AREA 目出点 b. TIPE OF WELL N/A MULTIPLE WELL KX WELL OAB 8. FARM OR LEASE HAME WELL NO. OTHER 2. NAME OF OPERATOR Mallon 35 Federal No. 6 9. API WELL NO. Mallon Oil Company 3. ADDRESS AND TELEPHONE NO. 10. FIELD AND POOL, OR WILDCAT P.O. Box 3256, Carlsbad, NM 88220 (505)885-4596 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) Lea Delaware NE 1720' FNL & 1680' FWL (SE NW) Unit F 11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA At proposed prod. zone 1720' FNL & 1680' FWL (SE NW) Unit F Sec. 35, T19S-R34E 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE. 12. COUNTY OR PARISH | 13. STATE 27 miles southwest of Hobbs.

10. DISTANCE FROM PROPOSED\*
LOCATION TO NEAREST
PROPIETY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any) Lea County NM New Mexico 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED 240 1680' 18. DISTANCE FROM PROPOSED LOCATIONS
TO NEAREST WELL, DRILLING, COMPLETED, 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS OR APPLIED FOR, ON THIS LEASE, FT. 260 ا 8200 Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START\* 3705' GR 5/31/95 2.3 PROPOSED CASING AND CEMENTING PROGRAM SETTING DEPTH QUANTITY OF CEMENT SIZE OF ROLE WEIGHT PER FOOT GRADE, SIZE OF CASING 25" Redi-Mix to surface 0.25 36# 14-3/4" 9-5/8" 1500 CIRCULATE 700 sx Lite, 200 sx Class C 5-1/2" Stage #1: 800 sx Class C 8-3/4" 15.5# & 17# TD(TIE BACK) Stage #2: 580 sx Pacesetter Lita 100 sx Class C The Operator proposes to drill to a depth sufficient to test the Delaware formation for oil. If productive, 5-1/2" casing will be cemented. If non-productive, the well will be plugged and abandoned in a manner consistent with Federal regulations. Specific programs as per Onshore Oil and Gas Order #1 are outlined in the following attachments: Drilling Program Surface Use and Operating Plan Exhibit #1 - Blow Out Preventor Plan Exhibit "E" - Well Site Layout Exhibit "F" - Production Facilities Exhibit "A"- Location and Elevation Plat Exhibit "B"- Existing Roads Exhibit "C"- Planned Access Roads Exhibit "C-1" and Exhibit "D"- One Mile Radius Map IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill are deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any, Production Superintendant APPROVAL SUBJECT TO (This space for Federal or State office use) 45 ".

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lesse which would entitle the applicant to conduct constitutions. ATTACHED Bonne antre Timothy P. O'Brien 6/6/95 11: \*See Instructions On Reverse Side

APPROVAL DATE

GENERAL REQUIREMENTS AND

Title 18 U.S.C. Section 1001; makes it a crime for any person knowingly and willfully to make

CONDITIONS OF APPROVAL, IF ANY: --

## DRILLING PROGRAM

Attached to Form 3160-3
Mallon Oil Company
Mallon "35" Federal No. 6
1720' FNL, 1680' FWL, Sec.35, T19S R34E
Lea County, New Mexico

Lease Number: NM-052

- 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:

Hole Size	Interval	Casing OD	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 <b># N</b> 80 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	Type	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

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.

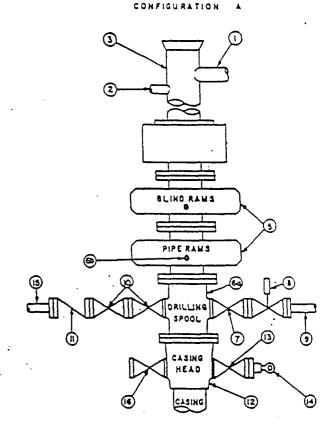
#### MINIMUM BLOWOUT PREVENTER REQUIREMENTS

#### 3,000 pbl Working Pressure

#### 3 MWP

### STACK REQUIREMENTS

۷٥.	ltem	Min. I.O.	Min. Nominal	
1	Flowline			
2	Fill up line			2*
3	Drilling nipple		·	
5	Two single or one dual hydra operated rams	aulically		
6a	Orilling spool with 2" min. ki 3" min choke line outlets	Il line and		
65	2" min. kill line and 3" min. outlets in ram. (Alternate to			,
7	Valve	Gate []	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*	
12	Casing head			
13	Valve	Gate 🗆 Plug 🖸	1-13/16*	
14	Pressure gauge with need!	e valve		
15	Kill line to rig mud pump m	anifold	1	2*



	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 psi, minimum.
- Automatic accumulator (80 gailon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 1.80P 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.Kally 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:

- 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 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.
- 5.All valves to be equipped with handwheels or handles ready for immediate
- 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 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 88241-1980

### State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

W.D. Num. 95-11-0672F

676 3239 12641

Certificate No. JOHN WEST.

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 66211-0719

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

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

C AMENDED REPORT

DISTRICT IV P.O. Box 2088, Sant	- F- NW 875	Λ <b>4</b> 2088		Santa F	e, New Mexic	0 07304 2000		☐ AMENDED	REPORT
r.v. noi 2000, Salit	on Po, Mar Ort		WELL LO	CATION	AND ACREA	GE DEDICATI	ON PLAT		
	Number - 37	988		Pool Code 584	r	18 Lea	Pool Name	ware	
Property					Property Nam	ie	26 (4	Well Num	ber
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0GRID N 1397	0. 4			MA	Operator Nam ALLON OIL C			Elevation 3705	
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