•	NEL OP	er. Ogrid no	134	25				
	PR		2287	3				
	РО	0. CODE <u>3</u>	580	t for the second	-	FORM APPR	OVED	
Porm 3160-3 (July 1992) / (k)	U. EFS	DATE 3/	12/9	Z instruction	-	OMB NO. 100		
7	DEPARTM	NO. 30-0	75-3	-1316" side)	5 1	EASE DESIGNATION		
	APPLICATION FOF	<u></u>				157285		
1a. TYPE OF WORK		Deepen	1		6. II N/	FINDIAN, ALLOTTEE	OR TRIBE NAME	
D TYPE OF WELL		Deepen	]		7. נ	INIT AGREEMENT NA	ME	
	Gas Well Other		Single Zone	Multiple Zone	<u> </u>  N//	-	······	
2. NAME OF OPERATO	R Iallon Oil Company					ARM OR LEASE NAM		
3. ADDRESS AND TELE	EPHONE NO.					PI WELL NO.		
	.O. Box 3256 arlsbad, NM 88220	(505) 885-459	6		10.	FIELD AND POOL, O	RWILDCAT	
	(Report location clearly and in accord	tance with any State re 980' FWL (SE				Lea Delaware, NE <del>Delaware,</del> 11. SEC, T., R., M., OR BLK.		
At surface		```			:	SEC., I., R., M., OR I SURVEY OR AREA	BLK.	
At proposed prodi zone	560' FSL, 1	980' FWL (SE	SW) Unit N		Se	c. 28, T19S-R3	AF	
	S AND DIRECTION FROM NEAREST				12.	COUNTY OR PARISH	I 13. STATE	
30	6 miles southwest of Hob	bs, New Mexico	16. NO. OF ACR	ES IN LEASE		a County	NM	
LOCATION TO NEARES	т	20001			TO THIS V	VELL		
Also to nearest drig, unit		2080'	1	320		40		
18 DISTANCE FROM P	PROPOSED LOCATION*		19. PROPOSED	DEPTH 300'	20 ROTA	RY OR CABLE TOOL	S	
TO NEAREST WELL, DF CR APPLIED FOR, ON 1		1980'		500		Rotary		
		3702' GR POSED CASING A						
23 SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PE		SETTING DEPTH	н ;	QUANTITY OF	CEMENT	
25"	20"	0.3 w		40'		di-mix to surfac		
13-3/4"	9-5/8"	36‡					sks Class C CleC,	
8-3/4"	5-1/2"	17#&1	15.5#	TD	580	0 sks Lite, 800	sks Class C	
CAPITAN CONTROLLED WATER BASIN Mallon Oil Company proposes to drill to a depth sufficient to test the Delaware/Bone Springs 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 on-shore Oil and Gas Order No. 1 are outlined in the following attachments:								
Exhibit A: Loca Exhibit B: Exis Exhibit C: One Exhibit D: Wel	v Out Preventor Equipme ation and Elevation Plat ting Roads/Planned Acce Mile Radius Map I Site Layout CRIBE PROPOSED PROGRAM: If pr	ss Roads	Exhibit E: Exhibit F:	ENERAL	I Survey	JECT TO J <b>IREMENTS</b> /		
to drill or deepen directio	nally, give pertinent data on subsurfac		red and true vertic			program, if any.	2/12/48	
SIGNED	VLindeman	TITLE:	Production	Superintendent	: <b></b>	DATE	01/21/98	
(This space for Federal of	or State office use)						<u> </u>	
				APPROVAL DA				
Application approval doe	s not warrant or certify that the applica	ant holds legal or equita	ible title to those ri	ghts in the subject leas	ie which wo	uid entitle the applican	t to conduct	
CONDITIONS OF APPR	OVAL, IF ANY:		Δ	ADM. MINE	RALS			
APPROVED BY	RIG. SGD.) ARMANDO A. LOP	<b>F7</b> TITLE	Mering			2:26	-78	
	*See Instructions On Reverse Side							

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

200

 $\phi$ 



#### DRILLING PROGRAM

Attached to Form 3160-3 Mallon Oil Company Mallon 28 Federal No. 3 560' FSL, 1980' FWL, Sec. 28, T19S R34E Lea County, New Mexico

Lease Number: NM-57285

- 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	8300'

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	<u>Interval</u>	<u>Casing OD</u>	Casing weight grade, Jt,, Type Cond		
25"	0'-40'	20"	Conductor, 0.25" wall thickness		
13-3/4"	0'-1500'	9-5/8"	36# K-55 STC		
8-3/4"	0'-5300'	5-1/2''	15.5# K-55 STC		
	8300-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)
0-40	Fresh Water (spud)	8.5	40-45	N.C.
0-1500 l	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: February 28, 1998 Anticipated completion of Drilling operations: Expected duration of 3 weeks.



MANIFOLD

-

⊠ Manuel □ Hydraulic

- - .

DISTRICT I

۰.

P.A. Box 1968, Hobbs, HI 88341-1960

DISTRICT II P.O. Drawer 38, Artesta, 384 80211-0710

DISTRICT III 1000 Rio Brusos Bd., Axtee, NM 87410

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

C AMENDED REPORT

State Lease - 4 Copies Fee Lease - 3 Copies

Form C-102

DISTRICT IV P.O. Bez 2088, Santa Fe, HM 87504-2068

WELL LOCATION AND ACREAGE DEDICATION PLAT									
API Number			Poal Code			Pool Name			
30.025.34316			37584 NE Lea						
Property Code 22873				ΜΔΕΙ	Property Nam LON "28" FE			Well Number 3	
OGRED N	o.		·····		Operator Nam			Elevation	
13929	5			MA	LLON OIL CO	MPANY		3702	
					Surface Loca	ation			
UL or lot No.	Section	Township	Range	lot Idn	Feet from the	North/South line	Feet from the	Bast/West line	County
N	28	19 S	34 E		560	SOUTH	1980	WEST	LEA
			Bottom	Hole Loc	cation If Diffe	rent From Sur	face	L	La
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
						•			
Dedicated Acre	s Joint o	r Infill Co	nsolidation	Code Ore	der No.				L
40		l							
NO ALLO	WABLE W	TLL BE A	SSIGNED	TO THIS	COMPLETION U	NTIL ALL INTER APPROVED BY	ESTS HAVE BE	EN CONSOLIDA	TED
· · · · · · · · · · · · · · · · · · ·				DARD UN		APPROVED BI	THE DIVISION		
				ļ	1		OPERATO	R CERTIFICAT	TION
	i				1 		I hareby	y certify the the inj	formation
contained herein is true and comp bast of my knowledge and belief.					ete to the				
					I	-		-	
					I		1-108	) Ú	
	1				t		Signature	Sant-	
[							-11 -	Lindeman	
				1		Printed Name			
					1		Product:	ion Superin	<u>itende</u> nt
	I						January	21, 1998	
					I		Date		
ļ							SURVEYO	R CERTIFICAT	ION
	İ				1		I hereby certify	that the well location	on shown
	1							a plotted from field made by me or	
	1				Ì		supervisor, and	t that the same is	true and
	1				1			best of my belief.	
	1				1		NOVEN	BER 12, 1997	7
	ا الله بلط					•	Simetra	Aunumphine.	JLP
	Í				— — <del>—</del> —		- Signature (a) Professional.	Burvestor	
1					1		I FOUN	MEX Vy	11

3703.1' \_ 3700.3'

3704.0° g

Ż

ł

3702.2'

-

-1980'-

MEXIC

Cortigues is No. Oni do HEST.

10. Khim 91

Ż

-13-97

676 3239 12641

产的73

Exhibit A

Revised February 10, 1994 Submit to Appropriate District Office

State of New Mexico

. .

Energy, Maarals and Natural Besserses Department

**OIL CONSERVATION DIVISION** 

# LOCATION VERIFICATION MAP



SCALE:  $1^{"} = 2000^{\circ}$ 



CONTOUR INTERVAL - 10'

### JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

P. 3

## VICINITY MAP



SEC. 28 TWP. 19-S RGE. 34-E SURVEY N.M.P.M. COUNTY\_\_\_\_LEA DESCRIPTION 560' FSL & 1980' FWL ELEVATION \_\_\_\_\_ 3702' OPERATOR MALLON OIL COMPANY LEASE MALLON "27" FED.

### JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

Exhibit B