	OPER. C TID N	0. 1390) し	_	
	PROPERTY NO.	200	10		
Form 3160-3	POOL CODE	0200	00		_
(July 1992)		7378	\mathcal{U}_{\perp}		FORM APPROVED
(<i>)-</i>	EFF. DATE	13 10	7		OMB NO. 1004-0136 Expires February 28, 1995
	APINO 30-1	2= 24			5 LEASE DESIGNATION AND SERIAL N
	AP	25-241.	51		NM-57285
1a. TYPE OF WORK	5 (777)		7-	7~ 47	6. IF INDIAN, ALLOTTEE OR TRIBE NAM
b TYPE OF WELL	Drill X	Deepen	7/0	7/97 50	N/A
Oil Well	Gas Well X Other		Single Zone	Multiple Zone	7. UNIT AGREEMENT NAME
2. NAMÉ OF OPERATO			onigic zone	ividiuple Zone	
	lallon Oil Company				8. FARM OR LEASE NAME, WELL NO
3 ADDRESS AND TELE	EPHONE NO				Mallon 33 Federal
	.O. Box 3256				6
	arlsbad, NM 88220	(505) 885-45	96	·	10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL At surface	(Report location clearly and in acco	rdance with any State r id 1980' FEL(I	equirements.*)	В	Quail Ridge, Morrow
N. Saliace	THO THE AL	d 1900 1 EE (1	AAA IAE) OUIT	В	11. SEC., T., R., M., OR BLK.
At proposed prod. zone	1140' FNL ar	d 1980' FEL (i	NW NE) Unit	В	AND SURVEY OR AREA
			·	_	Sec. 33, T19S-R34E
14 DISTANCE IN MILES	S AND DIRECTION FROM NEARES	T TOWN OR POST OF	FFICE *		12. COUNTY OR PARISH 13. STATE
15 DISTANCE FROM P	niles east of Hobbs, Nev	Mexico	Tra was as a second		_ea County NM
OCATION TO NEARES			16. NO. OF ACR	RES IN LEASE	17. NO. OF ACRES ASSIGNED
PROPERTY OR LEASE I		1330'		320	TO THIS WELL 320
Also to nearest drlg. unit				020	Dedicated to the North half
18. DISTANCE FROM P			19. PROPOSED	DEPTH	20. ROTARY OR CABLE TOOLS
TO NEAREST WELL, DR		1980	İ	13,800'	Rotary
OR APPLIED FOR, ON T	WHETHER DF, RT, GR, Etc.)	2002.00	:		
23		3683 GR POSED CASING	22. APPROX.DATE	WORK WILL START	August 1, 1997
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PE			
25"	20"	42		SETTING DEPT	TO THE OF SEINER
17-1/2"	13-3/8"	48		500'	Ready mix to surface 270 sx or circ to surface
12-1/4"	9-5/8''	36# &		5000'	800 sx Poz, 200 sx "C"
7-7/8"	5-1/2"	17		13,800'	930 sx "C" modified
			<u> </u>	10,000	100 sx Class C
with Federal regulated himself	Out Preventor Equipme tion and Elevation Plating Roads/Planned According Radius Map	ent/Plan ess Roads	Exhibit D: Exhibit E: Exhibit F: Exhibit G: Exhibit G: ve data on present	agged and aba Gas Order No Gilling Site Si Production Fia Hydrogen Suita Archaeologica	ronosed new productive zono. If proposal is
	e C. Winkler	TITLE:	Operations	<u>Manager</u>	DATE <u>07/01/97</u>
his space for Federal or	State Office use)				
ERMIT NO.				APPROVAL DA	TE
ONDITIONS OF APPRO	VAL, IF ANY:		1 1		e which v/ould entitle the applicant to conduct
PPROVED BY	G SGD.) ARMANDO A LOF	TITLE V	tetpy AL	M, MINERA	LS TE 8/19/97

*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.



DISTRICT I P.Ö. Ben 1960, Hobbe, NM 66241-1980

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

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

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

OIL CONSERVATION DIVISION

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

DISTRICT IV P.O. Box 2086, Santa Fe, NM 87504-2088 ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

					AND ACREA	AGE DEDICATI	ON PLAT		
3D-D2	Number 5-34	(15]		28D	8	Quail Ric	Pool Name	rrow	
Property Code Property Name A MALLON "33" FEDERAL					Well Num	Well Number			
OGRÍD No. 13925				Operator Name MALLON OIL COMPANY				Elevation 3683	
Surface Location									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	33	19 S	34 E		1140	NORTH	1980	EAST	LEA
		-	Bottom	Hole Loc	cation If Diffe	rent From Sur	face		——·········
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres Joint or Infill Consolidation Code Order No.									
NO ALLO	WABLE V	TILL BE AS OR A N	SIGNED '	TO THIS	COMPLETION U	NTIL ALL INTER APPROVED BY 1	ESTS HAVE BI	EEN CONSOLIDA	TED
	 						OPERATO	R CERTIFICAT	TON

OR A NON-ST	D TO THIS COMPLETION UNTIL ALL IN CANDARD UNIT HAS BEEN APPROVED 3682.9' 3682.9' 1980'	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and bettef. Signature
	3682.4' 3686.0'	Duane C. Winkler Printed Name Operations Manager Title July 1, 1997 Date 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
 		JUNE 17, 1997 Date Suggested Signature & Seal of Maria Suggested Professional Surveyor A 3789 humas 6-274
		Cortalistic Mg

DRILLING PROGRAM

Attached to Form 3160-3
Mallon Oil Company
Mallon 33 Federal No. 6
NW NE, 1140' FNL and 1980' FEL Unit B

Sec. 33, 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	San Andres	5157'
Rustler	1658'	Delaware	6070'
Top of Salt	1687'	Bone Springs	8136'
Base of Salt	3232'	Wolfcamp	10,861
Yates	3423'	Strawn	12,164
7 Rivers	3785'	Atoka	12,416
Queen	4463'	Morrow	12,747
Grayburg	4925'	TD	13,800

3. The Estimated Depths of Anticipated Fresh Water, Oil or Gas:

Quaternary Alluvium	300'	Fresh water
Bone Springs	8400'	Oil
Morrow	13,500'	Gas

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 13-3/8" casing at 500' and circulating cement back to surface. Potash will be protected by setting 9-5/8" casing at 5000' and circulating cement back to surface.

Any shallower zones above TD which contain commercial quantities of oil and/or gas will have cement circulated across them by inserting a cementing stage tool into the 5-1/2" production casing which will be run to TD.

4. Proposed Casing Program:

Hole Size	Interval	Casing OD		weight grade, Jt., Type Cond
25"	0'-40'	20"		ctor, 0.25" wall thickness
17-1/2"	0'-500'	13-3/8"	48#	H40 STC

12-1/4"	500'-5000'	9-5/8"	500'-2500' 9-5/8" 36# K-55 STC 2500'-5000' 9-5/8" 40# S80 STC
7-7/8"	5000'-TD	5-1/2"	0'-2800' 5-1/2" 17# N80 Butt 2800'-9000' 5-1/2" 17# N80 LTC 9000'-TD 5-1/2" 17# S95 LTC

Cement Program:

20" Conductor casing: Cemented with ready-mix to surface

13-3/8" Surface casing: Lead Slurry: 270 sks 35:65 Poz + 6% gel + 1/2#

Celloseal + 2% CaCl2

Tail: 200 sks Class C + 1/4# Celloseal + 2% CaCl2

9-5/8" Intermediate casing: Lead Slurry: 800 sks 35:65 Poz + 6% gel + 1/4#

Celloseal + 2% CaCl2.

Tail: 200 sks Class C +1/4# Cellcseal + 2% CaCl2

5-/2" Production casing: 930 sks Super C modified + 15# Poz A + 11# BA-

90 + 8# gilsonite + .44# FL-52 + .44# FL-25

This cement slurry is designed to bring TOC to

5000'

5. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (3000 psi WP) preventer and a bag-type (hydril) preventer (3000 psi WP). Both units will be hydraulically operated and the ram-type preventer will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. Both BOPs will be nippled up on 13-3/8" surface casing and used continuously until TD is reached. All BOPs and accessory equipment will be tested to 1000 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000 psi and the hydril to 70% or rated working pressure (2100 psi). Pipe rams will be operationally checked each 24 hour period. Blind 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 3" 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 (inside BOP) 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'-500'	Fresh Water (spud)	8.5	40-45	N.C.
500'-5000'	Brine Water	10.0	30	N.C.
5000'-TD	Cut Brine/Brine Water	8.8-10.0	32-34	10-12 cc

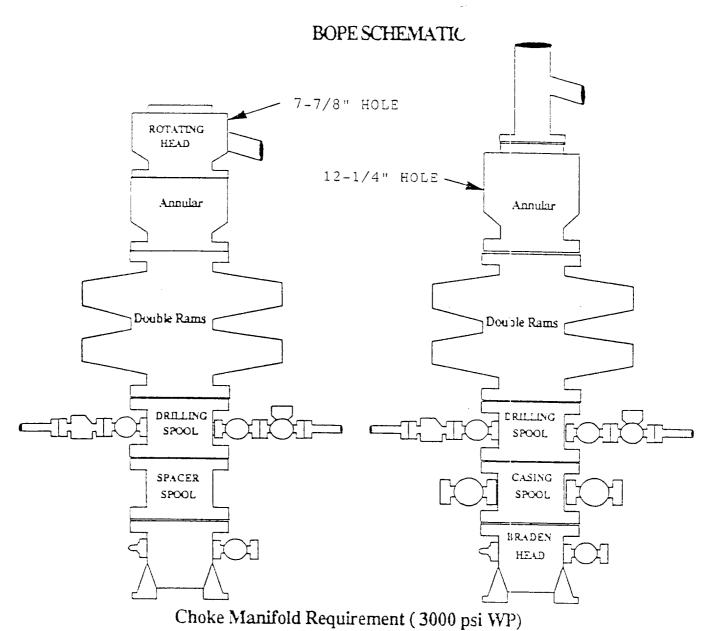
Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the well site at all times.

- 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) An electronic pit-volume-totalizer system will be used continuously below 8000' to monitor the mud and pump system. The drilling fluids system will also be visually monitored at all times.
 - (D) A mud logging unit complete with H2S detector will be continuously monitoring drilling penetration rate and hydrocarbon shows from 5000; to TD.
- 8. Testing, Logging and Coring Program:
 - (A) Drill stem tests will be run on the basis of drilling shows.
 - (B) The electric logging program will consist of GR-Dual Laterolog-MSFL and GR-Sonic from TD to intermediate casing and GR-Compensated-Neutron-Density from TD to surface. Selected SW cores will be taken in zones of interest.
 - (C) No conventional coring is anticipated.
 - (D) Further testing procedures will be determined after the 5-1/2" production casing has been cemented at TD based on drill shows, log evaluation and drill stem test results.
- 9. Abnormal Conditions, Pressures, Temperatures, & Potential Hazards:

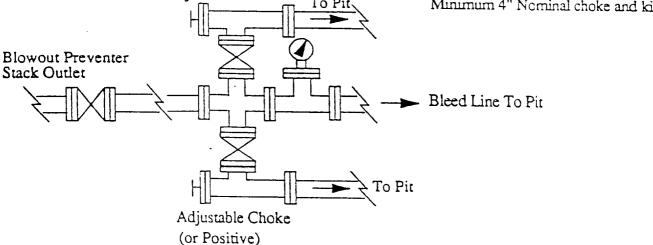
No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature (BHT) at TD is 195° F and estimated maximum bottom hole pressure (BHP) is 5000 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. Anticipated Starting Date and Duration of Operations:

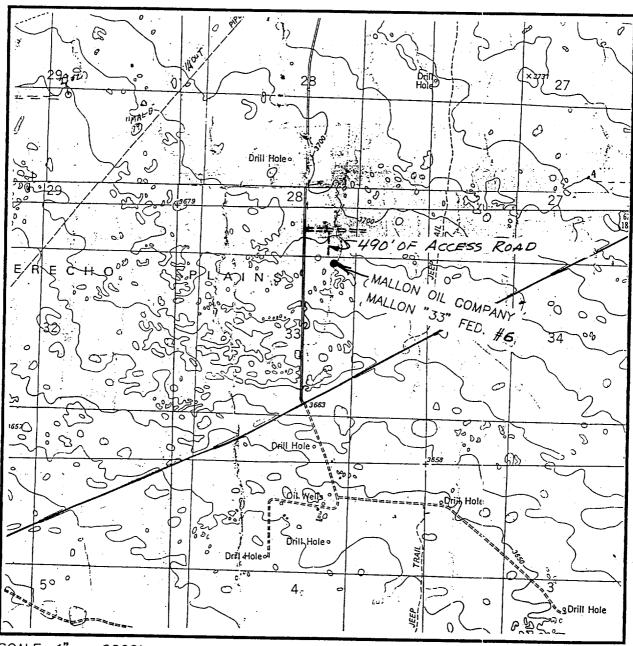
Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is August 1, 1997. Once commenced, the drilling operation should be finished in approximately 40 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made to install permanent facilities.



Adjustable Choke To Pit Minimum 4" Nominal choke and kill lines



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL - 10'

SEC. 33 TWP. 19-S RGE. 34-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1140' FNL & 1980' FEL

ELEVATION 3683

OPERATOR MALLON OIL COMPANY

LEASE MALLON "33" FED.

U.S.G.S. TOPOGRAPHIC MAP

LEA, N.M.

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

Exhibit B