Form 3160-3				(III) (II) (II) (II)		FORM ARREST	-n	
(July 1992)	UNITED STATES (Other instruction:					FORM APPROVED OMB NO: 1004-0136		
•	DEPARTMENT	reverse side)	Ons On	Expires February 28				
<del></del>	BUREAU OF LAN	5. LEASE DESIGNATION AN						
	APPLICATION FOR PE	RMIT TO DRILL	OR DEEP	EN		JIC 458		
1a. TYPE OF WORK	Drill X	Deepen	]			6. IF INDIAN, ALLOTTEE OR Jicarilla Apache		
b TYPE OF WELL Oil Well	Gas Weil X Other		Single Zone	Multiple Zone		7. UNIT AGREEMENT NAME N/A	2499	
2. NAME OF OPERAT	TOR Mallon Oil Company	013925	> 4	1567pm		8. FARM OR LEASE NAME, V Jicarilla 458SJ No.	WELL NO.	
3. ADDRESS AND TE		<u> </u>	The state of the s		<u> </u>	9. APLWELL NO. 20	7/23/1	
A LOCATION OF ME	Duranga CO 04200	(970) 382-9100		2000	3	10. FIELD AND POOL, OR W		
At surface	LL (Report location clearly and in accordance 2166' FNL and 1439' FWL and 1439' FWL	ce with any State require (SE/NW) Unit F	men &	EBLIVED	3	Cabresto Canyon, San J 11. SEC., T., R., M., OR BLK.	ose ext.	
At proposed prod. zone	2166' FNL and 1439' FWL	(SE/NW) Unit F	(38) P	EB 2000 ECEIVED NECENDIN OR DIST. 9	1475	AND SURVEY OR AREA		
14. DISTANCE IN MILI	ES AND DIRECTION FROM NEAREST TO 50 miles east of Bloomfield		· Ec	o Dr	<del>}</del>	Sec. 7, T30N-R03W	3. STATE	
15. DISTANCE FROM		, New Mexico	16. NO. OF	Company (1)	17 NO	Rio Arriba OF ACRES ASSIGNED	NM	
LOCATION TO NEARE	est <b>1439</b> '		16. 116. 61 71	CCICU	1	S WELL		
PROPERTY OR LEASI	•		2,560	)		157		
(Also to nearest drig. ur 18. DISTANCE FROM	PROPOSED LOCATION*		19. PROPOSED	DEDTH	20 80	TARY OR CABLE TOOLS		
	ORILLING, COMPLETED,	100'	19. PROPOSED	1800'	20. RO	TART OR CABLE TOOLS		
OR APPLIED FOR, ON						Rotary		
21. ELEVATIONS (SHO	OW WHETHER DF, RT, GR, Etc.)	7079' GR POSED CASING	22. APPROX.DATE	WORK WILL START		09/01/99		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PE		SETTING DEPT		CHANTITY OF OTH	PT 17	
12-1/4"	8-5/8"		4#	/3° \ 500'		QUANTITY OF CEM Circulate to surface	150CF=	
7-7/8"	4-1/2"		.7#	1800'		300 sks 50/50 Poz		
				T		62061	50% Lace	
Mollon Oil Co.						3 6		
well is placed of	proposes to drill this well to a	an approximate	1D 01 1800'	in the San jose	forma	ation. This	3	
and Gas Admir	nistration has waived any ne	cessity of re-ons	iting the we	ll pad as long as	anv r	equired 🖂 🚉	<b>3.</b>	
archaeology su	rvey is submitted. Environm	iental assessme	ent was prev	iously submitted	unde	r the initial 🧢 🛌	*	
well APD. If pr	oductive, 4-1/2" casing will be in a manner consistent with	e cemented at	TD. If non-p	oroductive, the w	ell wil	l be plugged  ි කි	÷	
and Gas Order	No. 1 are outlined in the foll	owing attachme	nts:	and programs as	per o			
<u>Drilling Program</u>	<u>n</u>	<del>-</del>				<b></b>		
Exhibit 1: Blo Exhibit A: Loc	ow Out Preventor Equipment cation and Elevation Plat	/Plan	Exhibit D:	Drilling Site Lay				
Exhibit B: Ro	ads and Pipelines		Exhibit E: Exhibit F:	Production Fac H2S Contingen		本語の an テンツ		
	e Mile Radius Map		Exhibit G:	Archaeology Re		411		
IN ABOVE SPACE DES	SCRIBE PROPOSED PROGRAM: If propos	sal is to deepen, give da				oductive zone. If proposal is		
to drill or deepen directi 24.	onally, give pertinent data on subsurface lo	cations and measured a	nd true vertical de	pths. Give blowout preve	enter proc	gram, if any.		
24.	\ \ <u> \</u> \\							
SIGNED: )	ry Lindeman	TITLE:	Operations	Superintendent		DATE	07/26/99	
(This space for Federal								
PERMIT NO.	•			APPROVAL D	ATE			
Application approval do	es not warrant or certify that the applicant h	okls legal or equitable tit	lle to those rights i	<del></del>		ntitle the applicant to conduct		
operations thereon.		( )				and approved to conjunct		
CONDITIONS OF APP	ROVAL, IF ANY:	الرس المرا						
APPROVED BY	tricial Hester	Acting &	st Fill	1 Mgr DAT	E	03-03-0	シ	
/		*See Instructio		,			_	

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.

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CONFIDENTIAL

# **DRILLING PROGRAM**

Attached to Form 3160-3 Mallon Oil Company

Jicarilla 458SJ No. 8

2166' FNL and 1439' FWL (SE/NW) Unit F

Sec. 7, T30N-R3W

Rio Arriba County, New Mexico

LEASE NUMBER: JIC 458

1. Geologic name of surface formation: San Jose

2. Estimated tops of important geologic markers:

San Jose

Surface

Total Depth

1800'

3. Estimated depths of anticipated fresh water, oil, or gas:

San Jose

1500'

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 8-5/8" casing at 500' and circulating cement back to surface.

#### 4. Proposed casing program:

Hole Size	Interval	Casing OD	Casing weight, grade, thread		
12-1/4"	0-500'	8-5/8"	24 lb/ft, K55, ST&C		
7- <b>7</b> /8"	0-1800'	4-1/2"	10.5 lb/ft, K55, ST&C		

#### Cement program:

8-5/8" surface casing:

Cemented to surface with Class B containing 2% CaCl<sub>2</sub>, 0.25

lb/sk Cello Seal, slurry to be mixed at 15.6 lb/gal, yield 1.18 cu ft/sk.

Circulate cement to surface.

4-1/2" production casing: 50/50 Poz with 8 lbs/sk CPS, 5 lbs/sk Gilsonite, .4% FL-62, 3% salt.

#### 5. Minimum specifications for pressure control (2M System):

The blowout preventor equipment (BOP) shown in Exhibit 1 will consist of a double ram-type (2000 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 8-5/8" 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 2000 psi WP rating.

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### 6. Types and characteristics of the proposed mud system:

The well will be drilled to TD with a combination of fresh water and fresh water polymer mud system. The applicable depths and properties of this system are as follows:

Depth	Туре	Weight (ppg)	Viscosity (sec)	Water loss (cc)
0-500'	FW	8.5	30-33	NC
500-1800'	FW (Gel po	lymer) 8.5 - 8.8	30-33	<10 cc

## 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, and 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 pressure (BHP) is 250 psig. Hydrogen sulfide gas is anticipated in the San Jose formation and an H<sub>2</sub>S drilling plan is attached.

### 10. Anticipated starting date: September 1, 1999

Anticipated completion of drilling operations: Expected duration of 6 days

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994

☐ AMENDED REPORT

Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088 OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	······································		HOMERICA DEDICATION LITAL			
30-039-26344		Pool Code	<sup>8</sup> Pool Name			
		96822	Cabresto Canyon; San Jo	se ext.		
Property Code			perty Name	Well Number		
24998		JICAR	ILLA 458SJ	8		
OGRID No.		* Elevation				
013925		MALLON	OIL COMPANY	7079'		

<sup>10</sup> Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County F 7 30 - N3-W 2166 **NORTH** 1439 WEST RIO ARRIBA 11 Rottom Hole Location If Diffe

Bottom note Location if Different from Surface									
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
			ľ	İ				,	County
Dedicated Acre	s "Joint	or Infill 14	Consolidatio	n Code 140	rder No.			······································	
L									

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



