CONFIDENTIAL

Form 3160-3				SUBMIT IN TRIP	LICATE	FORM APPROVED	
(July 1992)	UNITE	(Other instructions on			OMB NO. 1004-0136		
		OF THE INTERI	OR	reverse side)		Expires February 28, 1995	
		ND MANAGEMENT				5. LEASE DESIGNATION AND SERIAL NO.	
1a. TYPE OF WORK	APPLICATION FOR PE	RMIT TO DRILL	OR DEEPE	EN		JIC 457	
	Drill X	Deepen				6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache	
b. TYPE OF WELL Oil Well	Gas Well X Other		Circula 7	21123	—	7. UNIT AGREEMENT NAME	
	· · · · · · · · · · · · · · · · · · ·		Single Zone	Multiple Zong	籿	N/A 2532	
2. NAME OF OPERAT	Mallon Oil Company	0(39	7<		ಿನ	8. FARM OR LEASE NAME, WELL NO. / Nicarilla 457-4SJ No. 2	
3. ADDRESS AND TE	LEPHONE NO.			10N 2000		SAPI WELL NO 0 - 1 / 5 (()	
	P.O. Box 2797			JAN 200	، د	7 3003926348	
A LOCATION OF WE	Durango, CO 81302	(970) 382-9100		FETTO OF	4	HO FIELD AND POOL, OR WILDCAT	
Al surface	L (Report location clearly and in accordan 1400' FSL and 2425' FWL	ce with any State requirer	nents.*)	O/L-COA		Sibresto Canyon, San Jose ext.	
		•	الإرب	Olo.	1	T). SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zone	1400' FSL and 2425' FWL	(NE/SW) Unit K	\	⁽²)	10/2	1/	
				6/ DI 11 01 91		Sec. 4, T30N-R03W	
14. DISTANCE IN MILE	S AND DIRECTION FROM NEAREST TO 53 miles east of Bloomfield	WN OR POST OFFICE		OF TI JEE		12. COUNTY OR PARISH 13. STATE	
15. DISTANCE FROM			16 NO OF ACD	TO IN LEADE	147 240	Rio Arriba NM	
LOCATION TO NEARE			16. NO. OF ACR	ES IN LEASE	TO THIS	OF ACRES ASSIGNED	
PROPERTY OR LEASE	ELINE, FT. 2425'		2,560		10111	458-160	
(Also to nearest drig. un					1	100 (60)	
	PROPOSED LOCATION*		19. PROPOSED I		20. RO	TARY OR CABLE TOOLS	
OR APPLIED FOR, ON	PRILLING, COMPLETED,	100'		1800'			
	W WHETHER DF, RT, GR, Etc.)	7105' GR			L	Rotary	
23.	PRC	POSED CASING A	ND CEMENT	WORK WILL START		09/01/99	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER					
12-1/4"	8-5/8"	24		SETTING DEPT	н	QUANTITY OF CEMENT	
7-7/8"	4-1/2"	105 =14		1800'		Circulate to surface	
	172	1000 €11.	r m	1000		300 sks 50/50 Poz w/additive:	
				· · · · · · · · · · · · · · · · · · ·		615 (f / 50% sacres	
and Gas Admin archaeology sui well APD. If pro and abandoned and Gas Order Drilling Program Exhibit 1: Blo Exhibit A: Loc Exhibit B: Roa Exhibit C: One	proposes to drill this well to a n an existing well pad. Som istration has waived any nervey is submitted. Environmoductive, 4-1/2" casing will be in a manner consistent with No. 1 are outlined in the follow Out Preventor Equipment action and Elevation Plat adds and Pipelines and Pipelines of Mile Radius Map	ne additional pad cessity of re-onsinental assessment oe cemented at T n Federal regulat owing attachment Plan	extension nating the well that was previous. D. If non-pions. Specions: Exhibit D: Exhibit E: Exhibit E: Exhibit G: I on present produ	nay be required pad as long as ously submitted roductive, the wfic programs as Drilling Site Lay Production Fac H2S Contingen Archaeology Rective zone and propose	. The any roll under lell will per of lell will per of lell per of	Jicarilla oil equired r the initial l be plugged n-shore oil	
SIGNED:)))) Ter	ry Lindeman	TITLE:	Operations (Superintendent		DATE <u>07/30/99</u>	
(This space for Federal of	or State office use)						
PERMIT NO.				APPROVAL D	ATE _		
Application approval dos operations thereon. CONDITIONS OF APPR	es not warrant or certify that the applicant h	olds legal or equitable title	to those rights in	the subject lease which	would er	ntitle the applicant to conduct	

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.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised Febuary 21, 1994 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

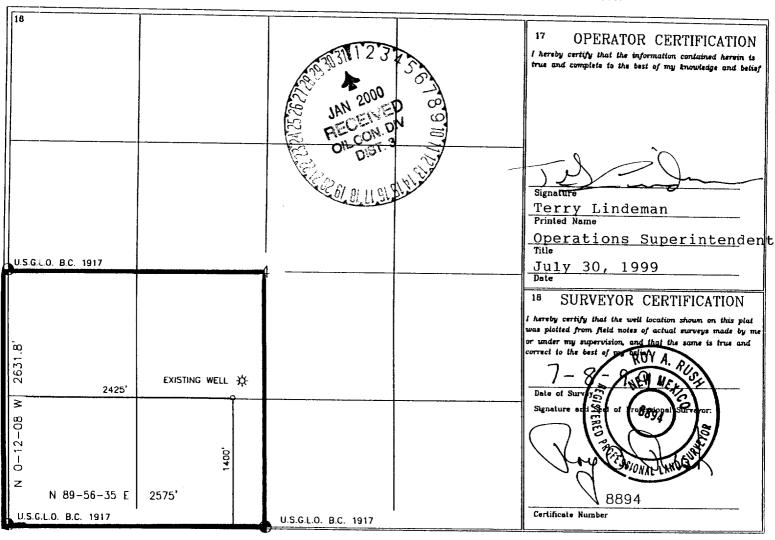
1000 Rio Brazos Rd., Aztec, N.M. 87410

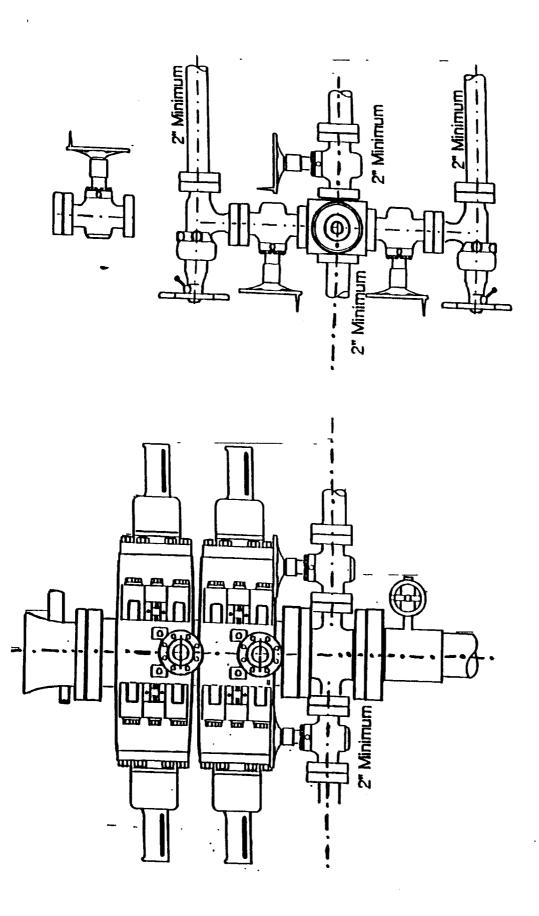
DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088 OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

☐ AMENDED REPORT

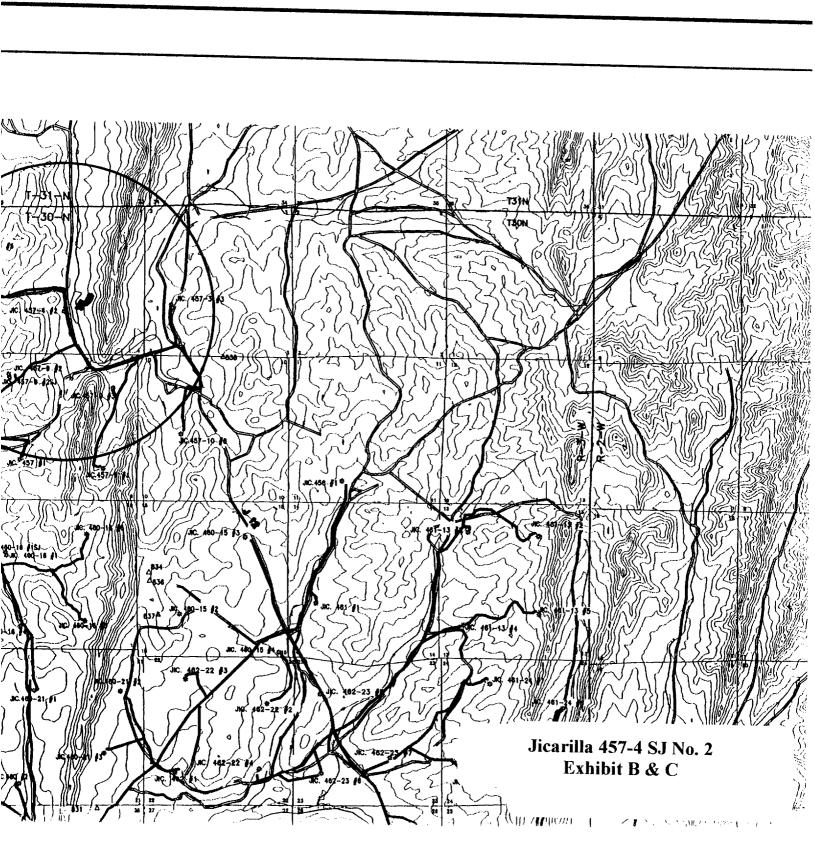
			WELL I	OCATIO	N AND	AC	REAGE DED	ICATION P	LAT		
¹API Number		5000	^a Pool Code		³ Pool Name						
30.039-2634			<u> XL</u>	96822			Cabresto Canyon; San Jose ext.				kt.
Property Code			⁵ Property Name								Tell Number
25327			JICARILLA 457-4sj						2		
OGRID No		Operator Name					Elevation				
0139	013925 MALLON OIL CO.										
						·	7105'				
UL or lot no.	¹⁰ Surface Location										
	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/West line County		
L K	4	30-N	3-W		1400		SOUTH	2425	WE	ST	RIO ARRIBA
Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from		North/South line	Feet from the	East/Wes	t line	County
											Journey
Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.											
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED											
OR A NON-STANDARD HAIT HAS BEEN ADDROVED BY MALE BEEN CONSOLIDATED											

-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION





Jicarilla 457-4SJ No. 2



DRILLING PROGRAM

Attached to Form 3160-3 Mallon Oil Company Jicarilla 457-4SJ No. 2 1400' FSL and 2425' FWL (NE/SW) Unit K Sec. 4, T30N-R3W Rio Arriba County, New Mexico

LEASE NUMBER: JIC 457

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		
7-7/8"	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% CaCl₂, 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.

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 poly)	mer) 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 $\rm H_2S$ drilling plan is attached.

10. Anticipated starting date: September 1, 1999

Anticipated completion of drilling operations: Expected duration of 6 days