CONFIDENTIAL

	O HELLIA I A	L					
Form 3160-3				SUBMIT IN TRIPI	JCATE	FORM APPRO	VED
(July 1992)	UNITED STATES DEPARTMENT OF THE INTERI		(Other instructions on		OMB NO. 1004-0136		
			化 reverse side)		Expires February 28, 1995		
	BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR DEEPEN			5. LEASE DESIGNATION A	ND SERIAL NO.		
4. TYPE OF WORK	APPLICATION FOR PE	KMII TO DRILL	OR DEEP	<u> </u>		JIC 451	·····
1a. TYPE OF WORK	Drill X	Deepen]			6 IF INDIAN, ALLOTTEE O Jicarilla Apache	R TRIBE NAME
b. TYPE OF WELL Oil Well	Gas Well X Other		Single Zöhe ~	Multiple Zone	$\overline{\Box}$	7: UNIT AGREEMENT NAM	E
2. NAME OF ODERAT	00						
	2. NAME OF OPERATOR Mallon Oil Company 01392					8. FARM OR LEASE NAME Jicarilla 451-4 No.	
3. ADDRESS AND TE				12 (A) (C)		9. APIWELL NO. 20	7/257
	P.O. Box 3256	(EDE) DOE 4500	(a)	巨似語		30-037-0	605/
A LOCATION OF ME	Carlsbad, NM 88220 L (Report location clearly and in accordance)	(505) 885-4596				10, FIELD AND POOL, OR	
At surface	1791' FNL and 1549' FEL (ments.*)	REC. 2 /		E./Blanco, Pictured	
	TO THE UNIT TO THE L	ormic, one o	9 C	DPO T		AND SURVEY OR AREA	12400
At proposed prod. zone	1791' FNL and 1549' FEL (SW/NE) Unit G				NINO SORVET OR AREA	,,,
	`	,	<u> </u>		· 60	Sec. 4, T29N-R3W	1
14. DISTANCE IN MILE	S AND DIRECTION FROM NEAREST TO			H-11-2		12. COUNTY OR PARISH	13. STATE
	52 miles east of Bloomfield	, New Mexico		No. 100		Rio Arriba	NM
15. DISTANCE FROM			16. NO. OF ACR	ES IN LEASE	1	OF ACRES ASSIGNED	
LOCATION TO NEARE PROPERTY OR LEASE			2560		TO THE	S WELL	Ca
(Also to nearest drig. un	-		2360		1	100/	53.90
	PROPOSED LOCATION*		19. PROPOSED	DEPTH	20 RO	TARY OR CABLE TOOLS	
TO NEAREST WELL, D	RILLING, COMPLETED,	1320'		,		WALL TOOLS	
OR APPLIED FOR, ON	THIS LEASE, FT.		4	1500'	-	Rotary	
21. ELEVATIONS (SHO	W WHETHER DF, RT, GR, Etc.)	7156' GR	22. APPROX.DATE	WORK WILL START		09/02/98	
23.		POSED CASING	AND CEMENT	ING PROGRAM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PE	R FOOT	SETTING DEPT	ГН	QUANTITY OF CE	MENT
12-1/4"	8-5/8"	24	4#	500'		Circulate to surface	9
7-7/8"	5-1/2"	15.	.5#	4500'		570 sks	
Mallon Oil Company proposes to drill to a depth sufficient to test the Pictured Cliffs formation. If productive, 5-1/2" casing will be cemented at TD. 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: Drilling Program Exhibit 1: Blow Out Preventor Equipment/Plan Exhibit D: Drilling Site Layout							
Exhibit A: Loc	ation and Elevation Plat		Exhibit E:	Production Fac			
	ads and Pipelines		Exhibit F:	H2S Contingen	cy Pla	an 🧐	,
	e Mile Radius Map		Exhibit G:	Environmental	Asses	sment	
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 or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.							
24.							
SIGNED: TITLE: Operations Superintendent DATE 08/19/98							
→erry Lindeman							
(This space for Federal or State office use)							
PERMIT NO. APPROVAL DATE							
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct							
operations thereon.							
CONDITIONS OF APPR	ROVAL, IF ANY:					ÆC o	
(Original Signal	ed) HECTOR A. VILLALOBOS					DEC 2 7 1998	
APPROVED BY	ALLICION H. VILLALUBOS	TITLE		DAT			
		*Coo Instructio					

*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.



SCHOOL SEEL-FILLOOM

DISTRICT IV PO Doz 0088, Santa 7c, NY 87804-2088

160/5 3.90

FRUIT DHUGETT ENTERPRISES INC. TO bhorgy, Minorals & natural resources rependent

15058850022 P.03

Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DESTRICT H P.O. Drawer BD. Artesia, N.M. 88811-0719 DEFINICT IN 1000 No Brasos Rd., Artes, N.M. 87410

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name Property Name Woll Mumber JICARILLA 451-4 OCRID No. Operator Name Elevation 39 MALLON OIL COMPANY 7156 10 Surface Location UL or let no. Section Ipenapip Renge Lot Idn North/South line Yest from the Foot from the East/Vest line County G 29-N 3-W 1791 NORTH EAST RIO ARRIBA 11 Bottom Hole Location If Different From Surface We or lot no. Section Township Feet from the Range Let Ide North/South line | Feet from the East/Vest line County Dedicated Acres M Joint or Infill 14 Consolidation Code | MOrder No.

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

N 89-36-11 E 5293'					
16 FD U.S.G.L.O. BRASS CAP 1917	6		FD U.S.G.L.O. BRASS CAP 1817	17 OPERATOR CERTIFICATION / harmly certify that the information contained herein is state and complete in the local of my knowledge and belog	
		17871			
				Rignature	
	and the second s	1	1549'	Terry Lindeman Printed Name Operations Superintendent This	
·		1010 50	3 13-15	August 19, 1998 Date 18 SURVEYOR CERTIFICATION I hereby certify that the well isocation shown on this plat	
3		cett. Div.	-G	tions phothed from flatci victus of customs assumes made by me or under my supervision, and that the same is true and correct to the best of my belief. A. RUSH Duke of further	
				Duke of fluid (19 10 10 10 10 10 10 10 10 10 10 10 10 10	
			FD U.S.G.L.O. BRASS CAP 1917	8894 Cartiflorde Number	

DRILLING PROGRAM

Attached to Form 3160-3 Mallon Oil Company Jicarilla 451-4 No. 1

1791' FNL and 1549' FEL (SW/NE) Unit G

Sec. 4, T29N-R3W

Rio Arriba County, New Mexico

LEASE NUMBER: JIC451

1. Geologic name of surface formation: San Jose

2. Estimated tops of important geologic markers:

San Jose	Surface
Nacimiento	2600'
Ojo Alamo	3230'
Kirtland	3458'
Fruitland	3478'
Pictured Cliffs	3468'
Lower P.C.	4017'
Total Depth	4500'

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

San Jose	1500'	Gas
Nacimiento	2600'	Gas
Ojo Alamo	3230'	Gas
Fruitland	3478'	Gas
Pictured Cliffs	3768'	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"	0-4500'	5-1/2"	15.5 lb/ft, K55, LT&C

Cement program:

8-5/8" surface casing: Cemented to surface with 350 sks 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.

5-1/2" production casing: Lead slurry 300 sks 65/35 mixed at 13.4 lb/gal, 1.62 cu ft/sk, 30%

excess. Tail with 270 sks 50/50 POZ, containing 1/4 lb/sk Cello

Seal mixed at 14.15 lb/gal, 1.26 cu ft/sk, 30% excess.

