Form 3160-3				SUBMIT IN TRIPLIC	CATE	FORM APPROV	ED
(July 1992)	UNITE	D STATES		(Other instruction	ns on	OMB NO. 1004-0	136
•	DEPARTMENT	OF THE INTERI	OR	reverse side)		Expires February 28	, 1995
	BUREAU OF LAN	ID MANAGEMENT	•			5. LEASE DESIGNATION A	
	APPLICATION FOR PE	RMIT TO DRILL	OR DEEP	EN		MDA 701-98-0013	Fract 4
1a. TYPE OF WORK	Drill	Deepen				6. IF INDIAN, ALLOTTEE OF Jicarilla Apache	R TRIBE NAM
b. TYPE OF WELL Oil Well	Gas Well X Other		Single Zone	Multiple Zone		7. UNIT AGREEMENT NAM N/A	304
2. NAME OF OPERAT	or Mallon Oil Company					8. FARM OR LEASE NAME Jicarilla 29-02-28 N	
3 ADDRESS AND TEL	EPHONE NO.			2029 31 31		9. APIWELL NO	2011
	P.O. Box 2797		Á	3/10/20 00 3/1/3	À	30-039-	2196
		(505) 885-4596		, , , , , , , , , , , , , , , , , , ,	مرس مرس	10. FIELD AND POOL, OR	WILDCAT
	L (Report location clearly and in accordant	nce with any State requ	irements.	1111 0000	55	East Blanco Picture	
At surface	22451501 1 22401551 (N	NAVA OF (A) 11:		JUN 2003	7	11. SEC., T., R , M , OR BLI	K
	2215'FSL and 2310' FEL (N	VV/4 SE/4) Uni	F 1	RELLEVED	Ο'n	AND SURVEY OR AREA	•
At proposed prod. zone			22/	OIL COMS. DIV.	7	Sec 28, T29N-R2W	,
A DISTANCE IN AM	ES AND DIRECTION FROM NEAREST 1	COUNT OF BOOT OFFI	150	DIST. 3	_00	12. COUNTY OR PARISH	
	65 Miles East of Bloomfield,				χÝ.	Rio Arriba	13 STATE
15. DISTANCE FROM		TOW WORLD	16. NO. OF AC	SES IN LEASE	NO NO	OF ACRES ASSIGNED	1414)
LOCATION TO NEARE	00001		1.0	3/ 5/ 6/ 5/ 5/		S WELL _	
PROPERTY OR LEASE	ELINE, FT.		39,36	O Windly Process		160 5	FAL
(Also to nearest drig. ur			'				1-/7
	PROPOSED LOCATION*		19. PROPOSE	D DEPTH	20. RO	TARY OR CABLE TOOLS	
TO NEAREST WELL, O	DRILLING, COMPLETED,	3000'				Rotary	
OR APPLIED FOR, ON	THIS LEASE, FT.		4000'			,	
21. ELEVATIONS (SHO		179		E WORK WILL START	-		# · · · · ·
23.	PR	OPOSED CASING	AND CEMEN	ITING PROGRAM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PE	R FOOT	SETTING DEPT	Ή	QUANTITY OF CE	MENT
12 1/4"	8 5/8"	24#		250'		175 sx circ. To sur	
7 7/8"	5 1/2"	15.5#		4000'		900 sx to circ. To s	
	32	10.01		- 4000		1000 3X to circ. 10 3	unacc
					 -	ļ	
		L				L <u> </u>	
casing will be co		ctive, the well w	ill be plugge	d and abandoned	l in a ı	manner 😸 🔔	
Exhibit II: Su Exhibit A: Loc Exhibit B: Ro	ling Program rface Use Plan cation and Elevation Plat ads and Pipelines SCRIBE PROPOSED PROGRAM: If pro				out ilities Asses	esment sw productive zone. If propos	al is
24. SIGNED:	lionally, give perlinent data en subsurface			ng Manager	revente		18/03
(This space for Federa	ol or State office use)			APPROVAL I	DATE		

*See Instructions On Reverse Side

Acting Assistant Field Manager

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.

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.

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

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

DISTRICT III

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

☐ AMENDED REPORT

1000 Rio Brazos Rd., Aztec, N.M. 87410 DISTRICT IV . PO Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT											
20 0 2	Number	7461	,	Pool Code	1			Pool Name		· F ~	
Property, Co	7-0	7461	_l	72400		st Blanco,	Pic	turea	CITE		ll Number
30119	78	Property Name JICARILLA 29-02-28								2	
OGRID No.	.				*Operator	Name	***	• Elevation		Elevation	
013925	,				MALLON OIL C	COMPANY		7179'		7179'	
					10 Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line		from the	Bast/We		County
J	28	29-N	2-W	J	2215'	SOUTH	!	310'	E.A	ST	RIO ARRIBA
(-			om Hol		f Different From		urface	T 95-34 /97.	est line	1.5
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Peet	irom the	East/W	est me	County
18 Dedicated Acre	8	l	18 Joint or	İnfili	14 Consolidation	Code	18 Orde	er No.			_ L
	160										,
NO ALLOW		ILL BE A	SSIGNE	D TO TI	L HIS COMPLETI	ON UNTIL ALL	INTE	RESTS F	HAVE F	BEEN CO	ONSOLIDATED
	"					EEN APPROVED					
16				T			-0	17 0	DEDAM	OD CEI	MOITABLETTE
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}				8 3 30 311	1/23	577.00 25 25 00	30 .				knowledge and belief
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4	j		W.	9/10/01	bl El El es			Signature		<u>/</u>	
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						Title Title			unager		
				28 -	- 375'			Date	y 1,	2003	
					J				RVEYO	R CER	TIFICATION
						2310'					n shown on this plat
•	ŀ		3	کرایوو	959'			was plotted f	rom field n	oles of actua	il surveys made by m he same is true and
					-	1	≯	correct to the			
					920'		33	13	Ton.	ZUOHING	2
							_ 4	Date of St	TEN TEN	MEXIC Protection	
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								AEGISTE			\$ X
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FD. 1" PLAST STAMPED "LS		<u> </u>	90 40 4		E407.401.60	FD. MAR	KED ONE	-	- 72	1821	
STAWIFED L	5 0094	S	89-48-4	IO W	5403.10' (M)]		Certificate	Number		

DRILLING PROGRAM

(Per Rule 320)

Mallon Oil Company

Lease: Jicarilla 29-02-28 No. 2

2215' FSL and 2310' FEL (NW/SE) Unit J

Sec. 28, T29N- R-2W

Rio Arriba County, New Mexico

LEASE NUMBER: MDA 701-98-0013 Tract 4

1. Geologic name of surface formation: San Jose

2. Estimated tops of important geologic markers:

San Jose		Surface
Nacimiento	2633'	Sandstone, shales & siltstones
Ojo Alamo	3063'	Sandstone, shales & siltstones
Kirtland	3391'	Sandstone, shales & siltstones
Fruitland	3501'	Sandstone, shales & siltstones
Pictured Cliffs	3693'	Sandstone, shales & siltstones
Lewis	3805'	Sandstone, shales & siltstones
Total Denth	4000'	Sandstone shales & siltstones

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

San Jose	1333'	Gas
Nacimiento	2633'	Gas
Ojo Alamo	3063'	Gas
Fruitland	3601'	Gas
Pictured Cliffs	3793'	Gas

No other formations are expected to produce oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 8-5/8" casing at 250' and circulating cement back to surface.

4. Proposed casing program:

Hole Size	<u>Interval</u>	Casing OD	Casing weight, grade, and thread
12-1/4"	250'	8-5/8"	24 lb/ft, K55, ST&C
7-7/8"	4000'	5-1/2"	15.5 lb/ft, K55, LT&C

Cement program:

8-5/8" surface casing:

Cemented to surface with 175 sks Class B, or Type III cement containing 2%

CaCl₃, 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. 100% excess.

5-1/2" production casing:

1170 sks 50/50 POZ, containing 6- 1/4 lb/sk Gilsonite, .3% Fluid loss,

3% KCl mixed at 13.7 lb/gal, 1.26 cu ft/sk, 30% excess. Circulate cement to

surface.

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

. The blowout preventor equipment (BOP) to be used on this well will consist of a double ram type preventor with a rating of 2000 PSIG working pressure. The unit will be hydraulically operated and the ram type preventor will be equipped with one set of blind rams and one set of pipe rams. The BOP will be nippled up on the 8 5/8" surface casing and in continuous use until production casing has been cemented or the well abandoned. The BOP, choke manifold, and accessory equipment will be tested to a pressure of 600 PSIG before drilling out of the surface casing. The pipe rams and 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 2" choke line will be connected to the BOP stack below the bottom set of rams, as shown on Exhibit 1. The drilling spool in Exhibit 1 is optional depending on the drilling rig selected for this well. Other accessories to the BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold with two chokes all with a minimum pressure rating of 2000 PSIG.

STATEMENT ON ACCUMULATOR SYSTEM AND LOCATION OF HYDRAULIC CONTROLS

The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. Manual and/or hydraulic controls will be in compliance with Onshore Order No. 2 for 2,000 psi systems.

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:

<u>Depth</u>	Type	Weight (ppg)	Viscosity (sec)	Water loss (cc)
0-250`	FW . Air	± 8.5	30-33	NC
250' - TD	FW (Gel polyme	r) ± 9.0	32-35	10 - 20 cc

Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kick" will be available at well site.

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:

REK