		•		SUBMIT IN TRIP	LICALE	FORM APPROVED
(July 1992)		ED STATES		(Other instructi	ions on	OMB NO. 1004-0136
		FOF THE INTER		reverse side)	_	Expires February 28, 1995
		ND MANAGEMEN				5. LEASE DESIGNATION AND SERIAL NO
· · · · · · · · · · · · · · · · · · ·	APPLICATION FOR PI	ERMIT TO DRIL	L OR DEEPE	N		MDA 701-98-0013 Tract 4
1a. TYPÉ OF WORK	Drill	Deepen].			6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache
b. TYPE OF WELL Oil Well	Gas Well X Other		Single Zone	Multiple Zone		7. UNIT AGREEMENT NAME N/A 3.2
2. NAME OF OPERATO	or Mallon Oil Company			20,20,20		8. FARM OR LEASE NAME, WELL NO. Jicarilla 29-02-21 No. 1
3. ADDRESS AND TEL	LEPHONE NO.			2851 (0 C3 3A)		O ACUMENTALO
	P.O. Box 2797	((EOE) DOE 450		Dr. 🐐	رح)	30-039-274
	Durango, Colorado L (Report location clearly and in accord	((505) 885-459		JUN 2003	5	P. FIELD AND POOL, OR WILDCAT
At surface	L (Report location cleany and in accord	ance with any State req	fer.	HE CO	, 1	UNISEC., T., R., M., OR BLK.
	560'FNL and 865' FWL (N\	N/4 NW/4) Uni	22.12	OIL COMP)	SURVEY OR AREA
Al proposed prod. zone	•		R	OIL CONS. D	עו	Sec,21, T29N-R2W
			زه .	Di87.3		βD
	ES AND DIRECTION FROM NEAREST 60 Miles East of Bloomfield		ICE *	<i>9</i> /	0,0	2. COUNTY OR PARISH 13. STATE NM
15. DISTANCE FROM		, I tott moxico	16. NO. OF ACR	ESONTENEE (1) 3/	No No	OF ACRES ASSIGNED
LOCATION TO NEARE	4400			A PIETO	منه	S WELL
PROPERTY OR LEASE	E LINE, FT.		39,360			160 NWH
Also to nearest drig. un						
,	PROPOSED LOCATION*	4000!	19. PROPOSED	DEPTH	20. RO	TARY OR CABLE TOOLS
	DRILLING, COMPLETED,	4000'	4000'			Rotary
OR APPLIED FOR, ON		7117			1	
21. ELEVATIONS (SHC	DW WHETHER DF, RT, GR, Etc.)	ROPOSED CASING		WORK WILL START		
SIZE OF HOLE			AND CEMENT	INO FROOTO-IVI		
		I WEIGHT D	ED EOOT	SETTING DED	TLI	I OLIANITITY OF CEMENT
	GRADE, SIZE OF CASING 8 5/8"		ER FOOT	SETTING DEP	тн	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	ER FOOT	250'		175 sx circ. To surface
			ER FOOT			
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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. Вох 1980, Wobject 14 08241-1980

DISTRICT II P.O. Drawer DD, Artesia, N.M. 68211-0719

1000 Rio Brazos Rd., Aztec, N.M. 67410

- PO Box 2088, Santa Fe, NM 87504-2088

DISTRICT IV

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		1	Pool Code	1		Pool Nam	6 '			
30039-27463 Pool Code 72400					1	East Blanco Pictured			Cliffs	
					*Property	Name			Well Number	
325	37 JICARILLA 29-02-21						1			
OGRID No	No. Operator Name						• Elevation			
013925		MALLON OIL COMPANY					7123'			
					10 Surface	Location				
UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County	
D	21	29-N	2-W		560'	NORTH	865'	WEST	RIO ARRIBA	
			11 75 11	77 1	7	IA DIAA I D	~ .			

11 Rottom Hole Location If Different From Surface

UL er lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre	•		18 Joint or	Infill	¹⁴ Consolidation C	ode	18 Order No.		
160									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

5.6	-43-38 E 5314. FD. 1" PLASTIC CAP STAMPED "LS 8894"	20' (M)	FD. MARKED STONE	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
826	'			
	36'42'58"N - NAD83 G. 107'03'15.5"W	THE THE PARTY OF T	10N 2003 - COMB. DIV. - COMB. DIV. - COMB. DIV.	Signature Robert Blaylock Printed Name Engineering Manager Title April 29, 2003 Date 18 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 supervision, and that the same is true and correct to the best of my belief. Date of Surveyor: 14827

DRILLING PROGRAM

(Per Rule 320)

Mallon Oil Company

Lease: Jicarilla 29-02-21 No. 1

560' FNL and 865' FWL (NW/NW) Unit D

Sec. 21, 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 Depth	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%

CaCl., 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' 250' - TD	FW or A:r FW (Gel polymo	± 8.5	30-33 32-35	NC 10 - 20 cc	REL

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:

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 1240' psig.