			•									
Form 3160-3							SUBMIT IN TRI	PLICATE	FORM	/ APPR	OVED	
(July 1992)	UNITED STATES					(Other instructions on			OMB NO. 1004-0136			
	DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT								Expires February 28, 1995 SE DESIGNATION AND SERIAL NO			
/	APPI I			ERMIT TO DR		DEN			MDA 701-98			
1a. TYPE OF WORK	AII EN	<u> </u>	N I OIL I	LICIMIT TO DIC	ILL ON DEL				6. IF INDIAN, ALI			
	Drill	X		Deepen [					Jicarilla Apa	che		LIVANIC
b TYPE OF WELL							1		7. UNIT AGREEN	MENT N	AME -	170
Oil Well	Gas Well	<u> </u>	Other		Single Zor	в Х	Multiple Zone		N/A			465
2 NAME OF OPERAT	or <b>Mallon Oil</b> (	Compa	ny			يه در			8. FARM OR LEA Jicarilla 29-0			NO.
3. ADDRESS AND TE	LEPHONE NO.	,k				160	1 2 2 10)		9. API WELL NO.	-0	17	16
	P.O. Box 2		•	/ (070)292 01/	oo <i>A</i>	Car	474		30-0		21	7/
4. LOCATION OF WEL	Durango, C			( (970)382-910		3-8	All St		10. FIELD AND F East Blanco			
At surface	LE (Moport locali	on olouny	and in accord	and with any clate t	roqui omenis.		~?0 <sub>03</sub>	من ا	11. SEC., T., R.,			
	655'FSL aı	nd 335'	FWL (SV	N/4 SW/4) Ui	nit M 🔝			£27	AND SURVEY OF			
At proposed prod. zone	Ì				<b>K</b>	4.		سرم مرمن در در در	Sec 33, T29	N-R2	:W	
14 DISTANCE IN MILL	ES AND DIREC	TION ERC	M NEAREST	TOWN OR POST O	FEICE *	<del></del>			12. COUNTY OR	PARIS	H 13. ST	TATE
				I, New Mexico		٧, ١		. D. J.	Rio Arriba			M
15. DISTANCE FROM	PROPOSED *				16. NO. OF	ACRES	LEASE )	/	OF ACRES ASSI	GNED		
LOCATION TO NEARE		1	500'		39,3		a e	то тн	S WELL	160 (	C 11/1	/12
PROPERTY OR LEASI (Also to nearest drig. ur					39,	000			160 5 W/4			
18. DISTANCE FROM		CATION'			19. PROPO	SED DEP	тн	20. RC	TARY OR CABLE	TOOLS	;	
TO NEAREST WELL, (				2800'	4000			Rotary				
OR APPLIED FOR, ON				5100	4000							
21. ELEVATIONS (SHO	OW WHETHER	DF, RT, G		7192 ROPOSED CASII			R WILL START					
SIZE OF HOLE	GRADE.	SIZE OF		T	T PER FOOT		SETTING DE	PTH	QUANT	ITY OF	CEMENT	
12 1/4"	<del></del>	8 5/8"		24#			250		175 sx circ			
7 7/8"		5 1/2"		15.5#			4000	)'	900 sx to ci			е
	<u></u>											
	•										္မ	
Mallon Oil Com	pany propo	ses to	drill to a	depth sufficient	t to test the p	ictured	l cliffs forma	ation. I	f productive,	,***	C	
casing will be co	emented at	TD. If	non-prod	uctive, the well	l will be plug	ged an	d abandone	d in a	manner		Ç.=	٠.,
consistent with			s. Specif	ic programs as	s per on-shor	e Oil a	nd Gas Ord	er No.	1 are outlined	1	1	
in the following Drilling Program		5.									- <del>-</del>	
Diming 1 Togram	1										3 ° <u>*</u>	
	ling Progra				Exhibit C		ie Mile Rad		o	1. 1	_ 1.	
	rface Use F		n Diet			Exhibit D: Drilling Site Layout				$U_{-i}$	~	
	cation and I ads and Pi		on Piat			Exhibit E: Production Facilities Exhibit F: Environmental Assessment						
IN ABOVE SPACE DE	-		OGRAM: If pe	roposal is to deepen.						If pror	oosal is	
to drill or deepen direct											, o o o o o o o o o o o o o o o o o o o	
24	1/1/	11						,	,			
K)	11/1//								-			
SIGNED: KO	ber Blaylo	ck		TIT	LE: Enginee	ring Ma	anager			ATE_	06/	27/03
	- Diayio				-			· · · · · · · · · · · · · · · · · · ·				
(This space for Federa	l or State office	use)										
PERMIT NO							_ APPROVA	L DATE				
Application approval di	oes not warrant	or certify t	hat the applica	ant holds legal or equ	sitable title to those	rights in	the subject lease	which wo	ould entitle the appli	cant to	conduct	
operations thereon.			.,			-						
CONDITIONS OF APP	PROVAL, IF AN	<b>/</b> :										
4	-12-		Dall	100	Ast.	`	0.		AUG	7	2003	
APPROVED BY	Ster	KN	K. We	ELS TITLE	Per	1. 1	Max.	_ DATE	·			
	/			*Coo Inctri	uctions On Re		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.

HOLD CIENTON NSL

SISTRICT 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 instructions on back

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

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

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

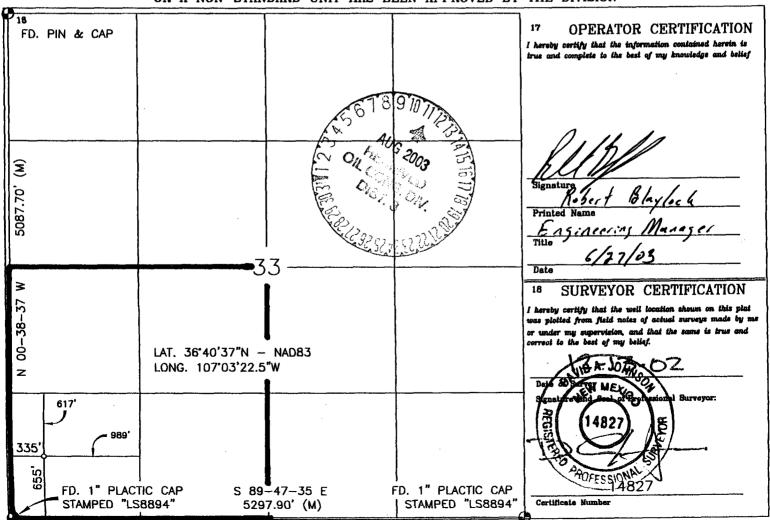
DISTRICT IV PO Box 2068, Santa Fe, NM 67504-2088 OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code E. Blanco PC 2400 Well Number Property Name JICARILLA 29-02-33 3 \*Operator Name <sup>9</sup> Elevation 7192 MALLON OIL COMPANY

<sup>10</sup> Surface Location Feet from the North/South line East/West line UL or lot no. Section Township Range Lot Idn Feet from the County RIO ARRIBA WEST 2-W 655 SOUTH 335' М 33 29-N 11 Bottom Hole Location If Different From Surface North/South line | Feet from the Rest/West line UL or lot no. Section Township Range Lot Idn Feet from the County Dedicated Acres 18 Joint or Infill 14 Consolidation Code 16 Order 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



# **DRILLING PROGRAM**

(Per Rule 320)

# **Mallon Oil Company**

Lease: Jicarilla 29-02-33 No. 3

655' FSL and 335' FWL (NW/SW) SW/SW ARB

Sec. 33, 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	Interval	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'	FW	± 8.5	30-33	NC
250' - TD	FW (Gel po	lymer) ± 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:

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.