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Form 3160-3									5001			
(July 1992)			IMITE	D STATES			SUBMIT IN TRIPI			APPRO\		
(July 1992)		DEPART		OF THE IN	TERI	OR	(Other instruction (Other instruction)	ons on	OMB N Expires Fe	O. 1004-		
				ND MANAGE			1046199 31097		5. LEASE DESIGN			DIAL NO
	APPLI					OR DEEPE	N		MDA 701-98			
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	Drill			Deepen		1		'	Jicarilla Apac		אל ואוסנ	1 NAME
b. TYPE OF WEL	<del></del>						<del></del>		7. UNIT AGREEM	ENT NAM	Æ _	(- (
Oil Well	Gas Well		lher			Single Zone	X Multiple Zone		N/A		2	424
2. NAME OF OPE	ERATOR Mallon Oil	Company					28 29 30	N.	8. FARM OR LEAS Jicarilla 29-03			NO.
3. ADDRESS AN	D TELEPHONE NO.			<del></del>			A COL	5/1/2	O ADLINELL NO			
	P.O. Box 2					· K	Tar a	کہ′	30-0	39-	27	460
	Durango, (			(505) 885-			JUN		FIELD AND PO	OOL, OR	WILDCA	
	WELL (Report local	ion clearly and i	in accordar	nce with any Sta	ile requi	irements.*)	OIL COLVED DIGT. 3	,	<b>≨a</b> st Blanco			is
Arsurface	685'ENI) a	n4 600' EV	M /NNA	//4 NW/4)	Linit		Of Commen	,	Un SEC., T., R., M		K.	
Al proposed prod.		ila 090 FV	AF (1444	//4   144/4)	Onit		D: 25 D1	رز	AND SURVEY OR Sec. 129N			
proposed prod.	20116						Dior. 3	<i>y</i>	7 7 12311	-11200		
14. DISTANCE IN	N MILES AND DIREC	TION FROM N	EAREST T	OWN OR POST	OFFIC	E *	7.	<del></del>	2. COUNTY OR I	PARISH	13. STA	ATE
	65 Miles E	ast of Bloo	mfield,	<b>New Mexic</b>	co	`	Character 20	113	Rio Arriba		N	
15. DISTANCE F	ROM PROPOSED *					16. NO. OF ACR	ES THE ENERS	77. NO	OF ACRES ASSIG	NED		,
LOCATION TO N		690'						TO THIS				
PROPERTY OR L	· · · · · · · · · · · · · · · · · · ·					39,360		}	1	60 <b>N</b>	WM	*
	Irlg. unit line, if any)	O A TION!				10. 55050555	OCDT!	100 00				
	ROM PROPOSED LO ELL, DRILLING, COM			3150'		19. PROPOSED	DEPTH	20. RO	TARY OR CABLE T Rotary	OOLS		
	R, ON THIS LEASE,			3130		4000'		1	Rotary			
	SYSHOW WHETHER		(c.) /1	248			WORK WILL START	<u> </u>				
23.	<u> </u>			OPOSED CA			ING PROGRAM					
SIZE OF HOLE	GRADE,	SIZE OF CASI	NG	WEIG	SHT PE	R FOOT	SETTING DEP	гн	QUANTI	TY OF CE	MENT	
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7 7/8"		5 1/2"		15.5#			4000'		900 sx to circ			;
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							á.			1 .	#****	-13
Mallon Oil C	company propo	ses to drill	to a de	epth sufficie	ent to	test the picti	ured cliffs format	tion. If	productive,	( ) / 2	is	
casing will b	e cemented at	TD. If nor	n-produ	ctive, the w	rell wi	ll be plugged	and abandoned	linar	nanner	7	स्था <i>ल्</i> न¥	- 194 Ben
consistent w	vith Federal reg	julations. S	Specific	programs	as pe	er on-shore C	Oil and Gas Orde	r No.	l are outlined	c.		6 177 3 1 3
	ing attachment	is:								<u>ر</u> ن آ	5	*. **
Drilling Prog	<u>Jiani</u>									1 1	••	
Exhibit I:	Drilling Progra	m				Exhibit C:	One Mile Radiu	ıs Mar	ì	-	$\overline{\omega}$	
Exhibit II:	Surface Use I					Exhibit D:	Drilling Site Lay					
Exhibit A:	Location and		Plat			Exhibit E:	Production Fac					
Exhibit B:	Roads and Pi					Exhibit F:	<b>Environmental</b>	Asses	sment			
IN ABOVE SPAC	E DESCRIBE PROP	OSED PROGRA	AM: If proj	posal is to deepe	en, give	data on present p	roductive zone and prop	oosed ne	w productive zone.	If propos	al is	
to drill or deepen	directionally, give per	tinent data on s	ubsurface	locations and m	easured	d and true vertical	depths. Give blowout p	reventer	program, if any.			
24	11111		<del></del>									
	11/1/11/11									ເ	/e /.	
SIGNED:	NULL				TITLE:	Engineering	g Manager		. DA	TE S	1/0	<u>ح</u>
	Robert Haylo	CK										

Actas

APPROVAL DATE

ONDITIONS OF APPROVAL IF ANY

(This space for Federal or State office use)

PERMIT NO.

10511

Assistant Field Manager

TITLE

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

DATE

JUN 2 6 2003

\*See Instructions On Reverse Side

DISTRICT I P.O. Box 1960, Hobbs, N.M. 88241-1960

### 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

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

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 67410 OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

☐ AMENDED REPORT

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

FD. 1" PLASTIC CAP STAMPED "LS8894"

# WELL LOCATION AND ACREAGE DEDICATION PLAT

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2130	15				JICARILLA	•						4
OGRID No.		*Operator					Name			• Elevation		
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					10 Surfa	ce l	Location			L		
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# **DRILLING PROGRAM**

(Per Rule 320)

# Mallon Oil Company

Lease: Jicarilla 29-02-16 No. 4

685' FNL and 690' FWL (NW/NW) Unit D

Sec. 16, 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'	FW or Air	± 8.5	30-33	NC
250' - TD	FW (Gel polym	ner) ± 9.0	32-35	10 - 20 cc

ACK

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