Form 3160-3				SUBMIT IN TRIPLE	CATE	FORM APPROVED	
(July 1992)	UNITED STATES (Other instructions on			ns on	OMB NO. 1004-0136		
	DEPARTMENT OF THE INTERIOR reverse side) BUREAU OF LAND MANAGEMENT			г	Expires February 28, 1995		
	APPLICATION FOR PEI			N		5. LEASE DESIGNATION AND SERIAL NO	
1a. TYPE OF WORK	AFFEICATIONTONTE	KINIT TO DIVIEL	ON DELFE	.iN		MDA 701-98-0013 Tract 4 6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
	Drill	Deepen			1	Jicarilla Apache	
b. TYPE OF WELL					, [7. UNIT AGREEMENT NAME	
Oil Well	Gas Well X Other		Single Zone	X Multiple Zone		N/A 2549	
2 NAME OF OPERAT	ror Mallon Oil Company	13925				8. FARM OR LEASE NAME, WELL NO. Jicarilla 29-03-12 No. 3	
3. ADDRESS AND TE	LEPHONE NO. P.O. Box 2797	•		420,00,01		9. API WELL NO 39 7748	
		(970)382-9100	,	48 12 CO CO CO		30-037 2/90 10. FIELD AND POOL, OR WILDCAT	
4 LOCATION OF WE	LL (Report location clearly and in accordar		irements.*)	So digital		East Blanco Pictured Cliffs	
At surface	20015111 140401551 (2014			AUG 2003		1. SEC., T., R., M., OR BLK.	
1.01	890'FNL and 1940' FEL (NV	V/4 NE/4) Unit	B ⊱	HUG ZUUJ		AND SURVEY OR AREA Sec. 12, T29N-R3W	
Al proposed prod zone)			di d		3FC 12, 129N-R3VV	
14 DISTANCE IN MIL	ES AND DIRECTION FROM NEAREST T		DE *	The base of the second	************	12 COUNTY OR PARISH 13. STATE	
	65 Miles East of Bloomfield,	New Mexico	10	barana W		A Rio Arriba NM	
15 DISTANCE FROM			16. NO OF ACR	2 I	1 2 m	OF ACRES ASSIGNED	
LOCATION TO NEARI PROPERTY OR LEAS	 -		39,360	~~~~~1	TÒŢÄIS	160 A/15/11	
(Also to nearest drig. u	•		35,555	- Carlandari		NEX	
18. DISTANCE FROM	PROPOSED LOCATION*	10001	19. PROPOSED	DEPTH	20. RO	TARY OR CABLE TOOLS	
TO NEAREST WELL, OR APPLIED FOR, ON	DRILLING, COMPLETED,	1800'	4000'			Rotary	
	OW WHETHER DF, RT, GR, Etc.)	D2 / 2		WORK WILL START	L		
23.		POSED CASING				11	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PE	R FOOT	SETTING DEPT	н	QUANTITY OF CEMENT	
12 1/4"	8 5/8"	24#		250'		175 sx circ. To surface	
7 7/8"	5 1/2"	15.5#		4000'		900 sx to circ. To surface	
				· · · · · · · · · · · · · · · · · · ·			
	<u> </u>	l		<u> </u>			
						* *	
Mallon Oil Com	pany proposes to drill to a de	epth sufficient to	test the pictu	ired cliffs formati	ion. If	productive,	
casing will be c	emented at TD. If non-produ Federal regulations. Specific	ctive, the well w	ill be plugged	l and abandoned	in an rNo 1	nanner	
in the following		programs as pe	ei on-snore C	ni and Gas Order	NO.	r are outlined	
Drilling Progran							
- 1331 B			E 1330				
	lling Program ırface Use Plan		Exhibit C: Exhibit D:	One Mile Radius Drilling Site Lay			
	cation and Elevation Plat		Exhibit E:	Production Faci	lities		
	ads and Pipelines		Exhibit F:	Environmental A		sment	
IN ABOVE SPACE DE	ESCRIBE PROPOSED PROGRAM: If prop	posal is to deepen, give	data on present p	roductive zone and prop	osed nev	v productive zone. If proposal is	
	tionally, give pertinent data on subsurface	locations and measure	d and true vertical	depths. Give blowout pr	reventer	program, if any	
24.	1116/1				-	·	
SIGNED:		TIT) E	: Engineering	n Manager		DATE 06/10/03	
SIGNED: //	bert Blaylock		Linginicening	y Wanagei		DATE 06/10/03	
(This space for Federa			······				
PERMIT NO.	, o, o.a.o omos dos,			APPROVAL D	DATE		
							
	loes not warrant or certify that the applican			-	hich wou	ald entitle the applicant to conduct	
operations thereon.		Actin	_				
CONDITIONS OF API	PROVAL, IF ANY:	Assista	5, -:	Manager		AHO 1 W	
APPROVED BY	5/ Brian A. Hoyd	73313[5	ant Lield	Manager	DATE	AUG 1 5 2003	
WILLYONED DI	- 1 ~ my 0	IIILE			DATE		

*See Instructions On Reverse Side

DISTRICT 1"
P.O. Box 1980, Hobbs, N.M. 88241-1980

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office

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

State Lease - 4 Copies Fee Lease - 3 Copies

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

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

☐ AMENDED REPORT

		M	TELL LO	OCATIO	N AND AC	REAGE DEDI	CAT	ION PL	AT	
1 API	Number			Pool Code 7240	0	Blanco	Pro	Pool Name	Cliffs, Ea	,c V
⁴ Property Co	ode		· · · · · · · · · · · · · · · · · · ·		⁶ Property JICARILLA 2	Name			3/ 1	Fell Number 3
OGRID No					Operator MALLON OIL					Elevation 7212
					10 Surface	Location				
UL or lot no.	Section 12	Township 29-N	Range 3W	Lot Idn	Feet from the 890	North/South line NORTH		from the	East/West line EAST	County RIO ARRIBA
			11 Botto	om Hole	Location	If Different Fro	om :	Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet	from the	East/West line	County
18 Dedicated Acre	i	1	18 Joint or	Infill	¹⁴ Consolidation	Code	15 Or	ier No.	<u> </u>	<u> </u>
							<u> </u>			
NO ALLOW	ABLE W					ON UNTIL ALL EEN APPROVED				CONSOLIDATED
SEC. CORNEL FD. GLO BC 1917	R			56-56 W 79.7'	890,	SEC. COR FD. GLO 1917	NER BC	I hereby certi	fy that the informatio	ERTIFICATION n contained herein is y knowledge and belief
				700'		1040'				
					. 620'	19 4 0'			1	
	·			LAT. 36 LONG. 1	'44'41" N 107'05'59" W		-27 E	Signature Rober Printed No Engil		
	·			12		e v ca v c	~06~ 290.2	June	11, 2003	
					A 10 10 3	1412233	S 00		RVEYOR CER	RTIFICATION
					AU AU	2003		was plotted fr	om field notes of actumpervision, and that best of mer belief Y	A. PUSH
					Tall!	SEC. COR FD. GLO 1917	NER BC	R	8894	

DRILLING PROGRAM

(Per Rule 320)

Mallon Oil Company

Lease: Jicarilla 29-03-12 No. 3

890' FNL and 1940' FEL (NW/NE) Unit B

Sec. 12, T29N- R-3W

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>	<u>Type</u>	<u>Weight</u> (ppg)	Viscosity (sec)	Water loss (cc)	
0-250'	FW	± 8.5	30-33	NC	
250' - TD	FW (Gel po	$\frac{1}{2}$ dymer) ± 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.