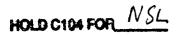
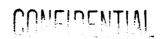
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AP	DEPARTMENT		1 1 2 2	reverse-side)	· ^ !	Expires February 28	, 1995
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	PLICATION FOR PEI	RMIT TO DRILL (OR DEEPEN			MDA 701-98-0013	
a TYPE OF WORK				VII. 1		6. IF INDIAN, ALLOTTEE OR	TRIBE NAM
Dril	I X ~	Deepen				Jicarilla Apache	
TYPE OF WELL						7. UNIT AGREEMENT NAME	
Oil Well Gas W	/ell X Other		Single Zone	Multiple Zone		N/A	
NAME OF OPERATOR							
	Oil Company		والمستوان والمستوان	** ~ we.		 FARM OR LEASE NAME, Jicarilla 30-03-34 # 	
ADDRESS AND TELEPHONE							4
	ox 2797					9 APIWELL NO. 39-5	717
		(970) 382-9100	." "			10. FIELD AND POOL, OR W	
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at surface 2066' F	SL and 2018' FEL (N	JW/SE) Unit J	1) D	56		11. SEC., T. R., M., OR BLK	
			(QC)			AND SURVEY OR AREA	
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FO NEAREST WELL DRILLING.	COMPLETED,	2800'		4000' 🗕		Rotary	
OR APPLIED FOR ON THIS LEA	SE, FT.						
21. ELEVATIONS (SHOW WHET)	HER DF, RT, GR, Etc.)		2. APPROX.DATE WO			12/10/00	
23.	PRC	POSED CASING A	ND CEMENTIN	G PROGRAM			
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Mallon Oil Company p on an existing pad wit Specific programs as	h no additional disturl per on-shore Oil and	bance required.					
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*See Instructions On Reverse 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.







DICTRICT L 1925 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerels & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

DISTRICT III

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, NM 87505

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

☐ AMENDED REPORT

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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

SEC. CORNER FD. MARKED STONE

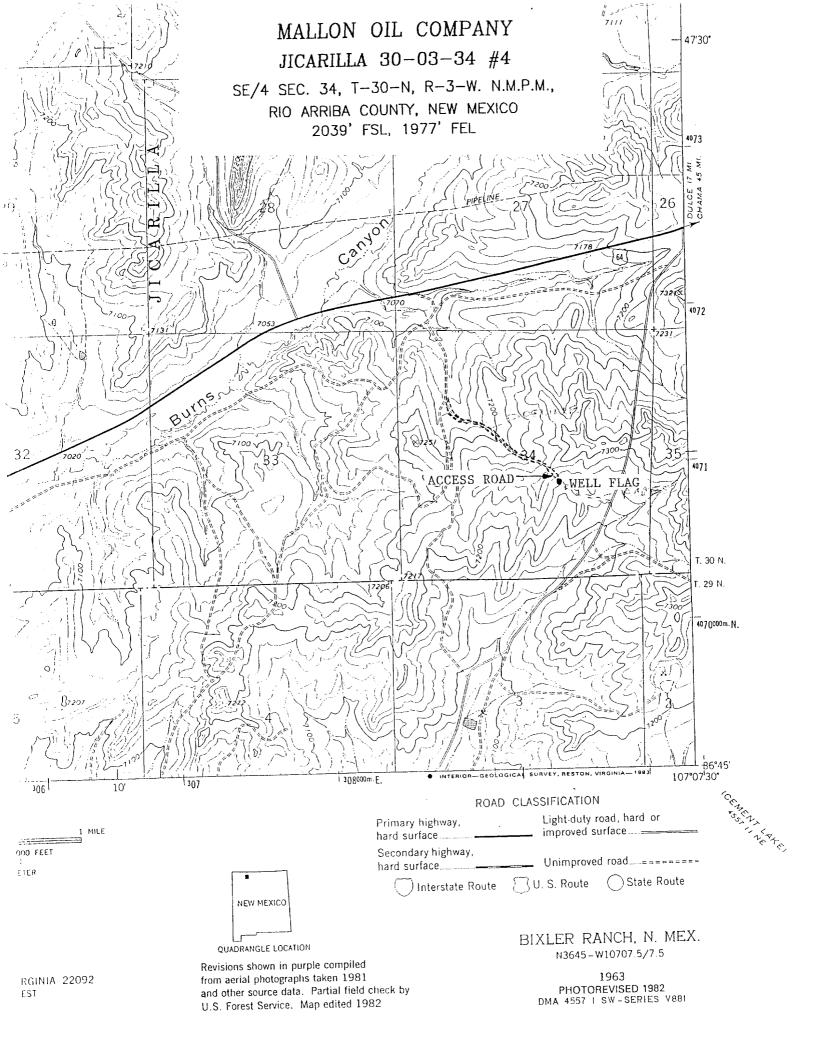
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OGRID No				······································	*Operator h	Name		° E	levation
13925					MALLON OIL	COMPANY		7259	'
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J	34	30-N	3-W		2066	SOUTH	2018	EAST	RIO ARRIBA
	<u> </u>		11 Botte	om Hole	Location I	f Different Fro	om Surface		
IL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line		East/West line	County
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SEC. CORNER FD. MARKED STONE

Certificate Number



DRILLING PROGRAM

Attached to Form 3160-3

Mallon Oil Company

Jicarilla 30-03-34 No. 4

2066' FSL and 2018' FEL (NW/SE) Unit J

Sec. 34, T30N-R03W

Rio Arriba County, New Mexico

LEASE NUMBER: MDA 701-98-0013

1. Geologic name of surface formation: San Jose

2. Estimated tops of important geologic markers:

San Jose	Surface
Nacimiento	2600'
Ojo Alamo	3030'
Kirtland	3358'
Fruitland	3468'
Pictured Cliffs	3660'
Lewis	3800'
Total Depth	4000`

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

San Jose	1300'	Gas
Nacimiento	2600'	Gas
Ojo Alamo	3030'	Gas
Fruitland	3468'	Gas
Pictured Cliffs	3660'	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"	0-250'	8-5/8"	24 lb/ft, K55, ST&C		
7-7/8"	0-4000	5-1/2"	15.5 lb/ft, K55, LT&C		

Cement program:

8-5/8" surface casing: Cemented to surface with 110 sks Class B, or Type III cement containing 2% CaCl₂, 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.

5-1/2" production casing: 950 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.

Jicarilla 30-03-34 No. 4 Drilling Program Page 2

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

The blowout preventor equipment (BOP) shown in Exhibit 1 will consist of a double ram-type (2000 psi WP) preventor. The unit will be hydraulically operated and the ram-type preventor will be equipped with blind rams on top and drill pipe rams on bottom. The BOP will be nippled up on the 8-5/8" surface casing and used continuously until TD is reached. BOP and accessory equipment will be tested to 1000 psi before drilling out of surface casing. Pipe 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 included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a kelly cock and floor safety valve, and choke lines and choke manifold with 2000 psi WP rating.

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:

Depth	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

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 1200 psig. Hydrogen sulfide gas is potentially present in the San Jose and Ojo Alamo formation and an H₂S drilling plan is attached.

10. Anticipated starting date: March 30, 2001

Anticipated completion of drilling operations: Expected duration of 6 days