

CONFIDENTIAL

DISTRICT II
811 South First, Artesia, N.M. 88210DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30039-26733		*Pool Code 72400	*Pool Name East Blanco; Pictured Cliffs
*Property Code 00024236	*Property Name JICARILLA 30-3-34		*Well Number 4
*GRID No. 13925	*Operator Name MALLON OIL COMPANY		*Elevation 7259'

10 Surface Location

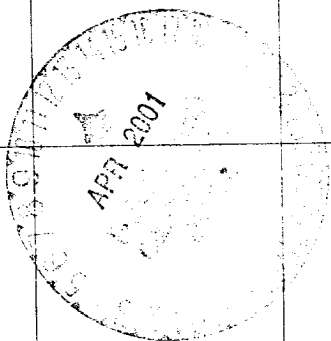
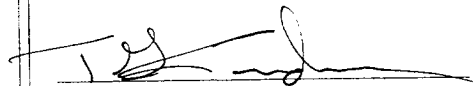
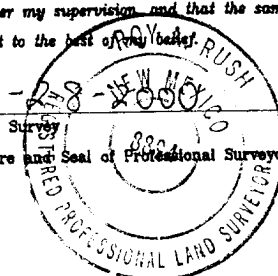
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	34	30-N	3-W		2066	SOUTH	2018	EAST	RIO ARRIBA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

*Dedicated Acres	*Joint or Infill	*Consolidation Code	*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

16		SEC. CORNER FD. MARKED STONE	17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature T. G. Lindeman Printed Name Operations Superintendent Title 03/07/01 Date	
3		2066'	N 0-02-46 W 5266.20'	18 SURVEYOR CERTIFICATION <i>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.</i> 11-28-2000 Date of Survey  Signature and Seal of Professional Surveyor: 8894 Certificate Number
NSL				
SEC. CORNER FD. MARKED STONE		S 89-42-06 E 5248.80'	SEC. CORNER FD. MARKED STONE	

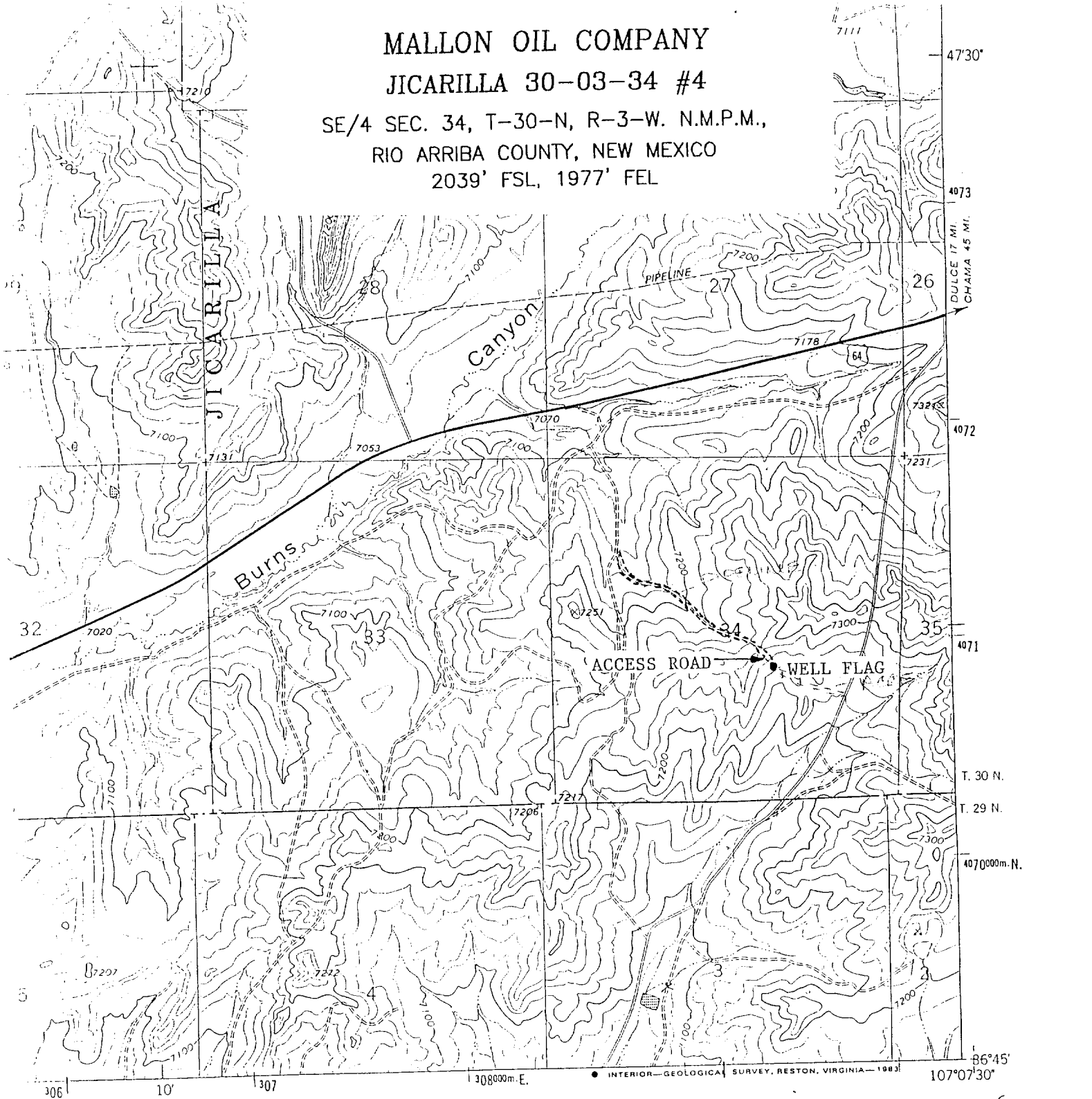
MALLON OIL COMPANY

JICARILLA 30-03-34 #4

SE/4 SEC. 34, T-30-N, R-3-W. N.M.P.M.,

RIO ARRIBA COUNTY, NEW MEXICO

2039' FSL, 1977' FEL



ROAD CLASSIFICATION

Primary highway, hard surface ——— Light-duty road, hard or improved surface ———
 Secondary highway, hard surface ——— Unimproved road ———

○ Interstate Route ○ U. S. Route ○ State Route

QUADRANGLE LOCATION

Revisions shown in purple compiled from aerial photographs taken 1981 and other source data. Partial field check by U.S. Forest Service. Map edited 1982

BIXLER RANCH, N. MEX.

N3645-W10707.5/7.5

1963
 PHOTOREVISED 1982
 DMA 4557 1 SW-SERIES V881

REGINA 22092
 EST

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:

<u>Hole Size</u>	<u>Interval</u>	<u>Casing OD</u>	<u>Casing weight, grade, and thread</u>
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.

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 nipped 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:

<u>Depth</u>	<u>Type</u>	<u>Weight</u> (ppg)	<u>Viscosity</u> (sec)	<u>Water loss</u> (cc)
0-250'	FW	± 8.5	30-33	NC
250' - TD	FW (Gel polymer)	± 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