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District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 68211-0719 District III 1000 Rio Brazos Rd., Axtec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Revised February 21, 1994

Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

API Number			² Pool C	ode D.	raper m	Pool Ne	me			
30-025-34118				102 0		Red Hills	un. Bone Spring			
⁴ Property Code			⁵ Property Name					⁶ Well Number		
13270					VACA "14"	FEDERAL				1
7 OGRID	No.				⁸ Operato	r Name			9	Elevation
7377	7			ENF	ON OIL AND	GAS COMPANY				3352
	¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	st line	County
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DRILLING PROGRAM

ENRON OIL & GAS COMPANY VACA 14 FEDERAL NO. 1 1650' FSL & 1650' FWL Sec 14, T25S, R33E LEA COUNTY, NEW MEXICO

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Rustler	850'
Delaware Mountain Group	5170'
Bone Spring Lime	9270'
3rd Bone Spring Sand	12300'
TD	12600'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	100'	Fresh Water
3rd Bone Spring Sand	12300'	Gas

4. CASING PROGRAM:

Hole Size	<u>Interval</u>	OD Csg	Weight Grade Jt. Cond. Type
14-3/4"	0 - 650'	11-3/4"	42# H-40 A ST&C
11"	0 - 5200'	8-5/8"	32# J-55 LT&C
7-7/8"	0 - 12600'	5-1/2"	17# S-95 6000' & P-110
			LT&C 6600'

Cementing Program:

11-3/4" Surface Casing: Cement to surface with 250 sx of Class C + 2%

CaCl2 + 1/4#/sx flocele.

8-5/8" Intermediate: Cement to surface with 1150 sx 50/50 Class C/Poz,

10% gel, 8#/sx salt, 1/4#/sx Flocele and 300 sx Cl C

+ 2% CaCl2.

5-1/2" Prod. Casing: Cement with 735 sx 50/50 sx Cl H/Poz + 2% gel +

.4% CF-14, .1% Diacel LWL. This cement slurry is

designed to bring TOC to 7500'.

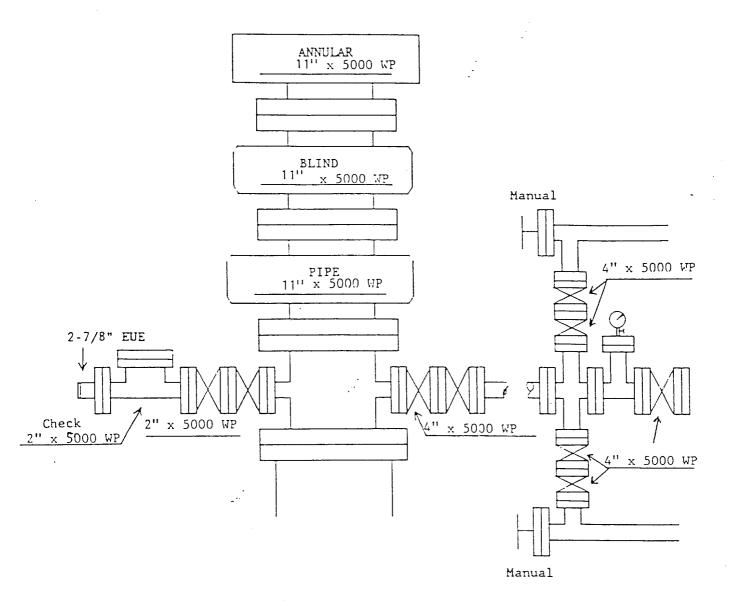
5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5000 psi WP) preventer and an annular preventer (5000 psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on top and drill pipe rams on bottom. All will be installed on the 11-3/4" surface casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 600 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000 psi and the annular to 70% of rated working pressure (3500 psi).

ENRON OIL & GAS COMPANY

VACA 14 FEDERAL No. 1

ATTACHMENT I



Pipe rams will be operationally checked each 24 hour period. 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 4" 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 (inside BOP) and choke lines and choke manifold with 5000 psi WP rating.

ATTACHMENT TO EXHIBIT #1 ENRON OIL & GAS COMPANY VACA 14 FEDERAL NO. 1

- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum.
- 4. All fittings to be flanged.
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
- 6. All choke and fill lines to be securely anchored, especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on kelly.
- 9. Extension wrenches and hand wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's poisition as feasible.
- 11. Blow out preventer closing equipment to include minimum 40 gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The well will be drilled to TD with a combination of brine, cut brine, and polymer/KCL mud system. The applicable depths and properties of this system are as follows:

Depth	Туре	Weight(ppg)	Viscosity (sec)	Waterloss (cc)
0 - 650'	Fresh Water (spud)	8.5	40-45	N.C.
650' - 5200'	Brine Water	10.0	30	N.C.
5200' - TD	Cut Brine & Polymer/KCL	8.8-9.2	28	N.C.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. <u>AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:</u>

- (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) A mud logging unit complete with H2S detector will be continuously monitoring drilling penetration rate and hydrocarbon shows from 2000' to TD.

8. <u>LOGGING, TESTING AND CORING PROGRAM:</u>

- (A) The electric logging program will consist of GR-Neutron Density and GR-Sonic from TD to intermediate casing with a GR-Neutron ran from intermediate casing to surface.
- (B) Possible side-wall cores based on shows.

9. <u>ABNORMAN CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:</u>

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature (BHT) at TD is 170 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 5900 psig. No hydrogen sulfide or other hazaradous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately three weeks. If the well is productive, an additional 30 to 45 days will be required for completion and testing before a decision is made to install permanent facilities.

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