

## SUPPLEMENTAL DRILLING DATA

HANAGAN PETROLEUM CORPORATION  
No.1 Union Federal  
SWSE Sec.15-21S-25E  
Eddy County, NM

NM 029128

The following items supplement Form 3160-3 in accordance with instructions contained in Onshore Oil and Gas Order No.1:

1. SURFACE FORMATION: Permian

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Capitan Reef	700'
Base of Reef	1130'
Delaware	1650'
Cherry Canyon	2400'

3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION:

0' - 1650' - Brackish water

2400' - 3000' - Oil or gas zone

4. PROPOSED CASING PROGRAM:

8-5/8" Casing - 24# ST&C casing will be set to about 1700' with cement circulated.

5-1/2" Casing - 15.5# ST&C casing will be set thru the producing zone and cemented to isolate all oil, gas and water zones.

The surface and production casing will be tested to 1000 psi.

5. PRESSURE CONTROL EQUIPMENT: Pressure control equipment will include a 3000#WP blowout preventer stack, with Series 900 blind and pipe rams. The BOP stack will include a kill line and choke manifold tested to 2000 psi. BOP hydraulic controls will be operated at least daily. A diagrammatic sketch of the BOP stack is attached as Exhibit "D".