

SUPPLEMENTAL DRILLING DATA

(RE-ENTRY)

HANAGAN PETROLEUM CORPORATION  
WELL #3 NORTH CARLSBAD FEDERAL  
1980' FSL & 660' FEL SEC. 22-21S-26E  
EDDY COUNTY, NEW MEXICO

1. SURFACE FORMATION: Tansill Formation of Permian Age.
2. GEOLOGIC FORMATION: Delaware 2200' - 4480'.
3. POSSIBLE HYDROCARBON BEARING ZONE:  
Oil: Cherry Canyon 2705' - 2750'.
4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>	<u>Remarks</u>
13 3/8"	0 - 164'	48.0#	H-40	STC	Ran in 1964
9 5/8"	0 - 2560'	36.0#	J-55	STC	Ran in 1965
5 1/2"	0 - 3400'	14.0#	J-55	STC	Proposed
5. PRESSURE CONTROL EQUIPMENT: Two Ram-Type Preventors. A sketch of BOP stack is attached.
6. CIRCULATING MEDIUM:  
0 - 3400' Water system conditioned as necessary for control of viscosity and water loss.
7. AUXILIARY EQUIPMENT: Drill string safety valve.
8. TESTING, LOGGING AND CORING PROGRAMS: Electric logs will include a Compensated Neutron Log with Gamma Ray.
9. ABNORMAL PRESSURES, TEMPERATURES OR GAS: None anticipated.
10. ANTICIPATED STARTING DATE: It is planned that operations will commence about February 11, 1985. Duration of drilling, testing, and completion operations should be 1 to 6 weeks.