Dyco Petroleum Corporation

1700 PHILTOWER BUILDING
TULSA, OKLAHOMA 74103
AREA 918/587-2181

May 20, 1976

United States Department of the Interior
Geological Survey
P. O. Box 1157
Hobbs, New Mexico 88240

Attention: Mr. A. R. Brown

Re: Well #1-6 Federal
1980' FWL & 1980' FSL
Section 6, T10S, R38E
Lea County, New Mexico

Drilling Prognosis
5000' San Andres Objective

1. Surface Casing - 400' of 8 5/8" OD, 24#/ft., K-55 new casing will be set and cemented to surface.

2. Blowout Preventors - After surface casing has been run and cemented to surface, contractor will wait on cement 12 hours prior to drilling ahead. Before drilling commences a type "B" 10" series 900 double ram preventor will be installed. Blowout preventor and casing will be tested to 1000# p.s.i. prior to drilling out casing shoe. After drilling commences, the blowout preventor system will be checked daily for proper operation. Drillpipe rams will be used while drilling. All rig personnel will be instructed in the operation of the B.O.P. closing equipment.

3. Auxiliary Equipment - A safety valve will be located on the rig floor at all times with a crossover for drillpipe or drill collar threads.

4. Mud Program - Drill to 400' with spud mud - 400' - 5000'. Drill with brine base mud of 10# - 10.2# p.p.g. and a viscosity of 32-33 seconds per quart with 3-4% oil. 5000' Build system to 10.5#-10.6# p.p.g. with a viscosity of 36 seconds per quart and a water loss of 10-15 c.c. which should be sufficient to log and test.

5. Logging Program - The well will be logged from projected total depth of 5000' back to the bottom of the surface casing at 400' using a Schlumberger-type Induction Electric Survey (I.E.S.) and a Gamma Ray-Sonic log with caliper log. All log shows will be tested by drill stem test.

6. Production Casing - We will stipulate, since surface casing will not be set to top of Rustler anhydrite (at approx. 2300'), that 5½" casing be cemented from casing shoe to surface or through a stage tool set 50 feet below the top of Rustler to the surface.

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