

RESERVOIR DATA  
South Prairie-Pennsylvanian Pool  
Roosevelt County, New Mexico

*Handwritten:* 2137  
EXHIBIT No. 7

1. Physical Properties of Reservoir Rock

- a. Average Porosity (Core & Log Calc.) - 6.9%
- b. Average Permeability (Core) - 131 md. (Range 0.1-1035)
- c. Average Interstitial Water Saturation - 26%
- d. Average Net Thickness - 12 ft

2. Lithology

Grey to tan, very fine crystalline fossiliferous limestone with pin-point to large vugs, intercrystalline porosity, and some fracturing.

3. Structural Features of Reservoir

The structure appears to be a northwest-southeast trending anticline. No original gas cap was present and the oil-water contact has not been determined.

4. Characteristics of Reservoir Fluids

- a. Gravity of Stock Tank Oil - 46.7° API
- b. Saturation Pressure - 2987 psig
- c. Formation Volume Factor - 1.841 @ Sat. Press.
- d. Viscosity of Reservoir Oil - 0.165 cp @ Sat. Press.
- c. Dissolve Gas-Oil Ratio - 1490 CFPB @ Sat. Press.

5. Pressures and Temperatures

- a. Reservoir Pressure (-5540) - 3159 psig (10-1-60)
- b. Reservoir Temperature - 157°F
- c. Productivity Index - 7.22 BOPD/psi draw-down  
(Cosden-Fed "C" No. 1 10-1-60)