

PHOENIX RESOURCES COMPANY
No. 1 Powell
Section 23, T-7-S, R-28-E
Chaves County, New Mexico

Elevation: 4012 GL
4020 KB

Location: 660' FNL, 1980' FWL

Casing: 8 5/8" at 406' (KB)

Hole Size: 7 7/8"

TD: 2650' (driller), 2653' (logger)

Logging Program:

Service Company: Dresser-Atlas

1. Sidewall Neutron-GR-Calip.: TD-Surface
2. Dual Laterolog-Rxo: TD-Casing (Note: Three repeats of the San Andres P-1, P-2, and P-3 zones were run.)

Correlations:

Formation	Depth	Datum
T/ Rustler	640	+3380
T/ Salado	662	+3358
T/ Yates Sand	696	+3324
T/ Lower Queen Sand	1311	+2709
T/ San Andres	1774	+2246
T/ Pi Marker	2252	+1768
T/ P-1	2390	+1630
T/ P-2	2472	+1548
T/ P-3	2584	+1436

Zones of Interest:

San Andres:

P-1. The porosity log showed 10 feet of continuous net porosity greater than 6% as calculated for dolomite matrix and 8 feet greater than 8% (maximum - 10%). The zone is from 2330-40 feet. The invasion profile from the saturation log shows fair to good qualitative permeability. Water saturations in that zone range from 25-27%. There were several cases of rough drilling and bit torque in that interval indicating formation fractures and multiple repeats with the Rxo tool did not repeat which also indicates fractures. Samples showed good to excellent intercrystalline and small vugular matrix porosity. The cuttings were quite fine which eliminated evidence of larger vugs. The intercrystalline porosity was so well distributed that some of the dolomite samples were friable which experience has shown to be associated with excellent reservoir conditions. It is highly probable that

