

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE July 6, 1972

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Klein No. 19</u>	
Location <u>1190'N, 890'E, Section 34, T26N, R6W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Dakota</u>		Pool <u>Basin</u>	
Casing: Diameter <u>4.500</u>	Set At: Feet <u>7157</u>	Tubing: Diameter <u>2.375</u>	Set At: Feet <u>7071</u>
Pay Zone: From <u>6824</u>	To <u>7110</u>	Total Depth: <u>7157</u>	Shut In <u>6-22-72</u>
Stimulation Method <u>SWF</u>		Flow Through Casing	Flow Through Tubing <u>XX</u>

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>			
Shut-In Pressure, Casing, PSIG <u>2585</u>	+ 12 = PSIA <u>2597</u>	Days Shut-In <u>14</u>	Shut-In Pressure, Tubing PSIG <u>1400</u>	+ 12 = PSIA <u>1412</u>	
Flowing Pressure: P PSIG <u>81</u>	+ 12 = PSIA <u>93</u>		Working Pressure: P _w PSIG <u>856</u>	+ 12 = PSIA <u>868</u>	
Temperature: T = <u>87 °F</u>	F _t = <u>.9750</u>	n = <u>.75</u>	F _p v (From Tables) <u>1.010</u>	Gravity <u>.700</u>	F _g = <u>.9258</u>

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365) (93) (.9750) (.9258) (1.010) = \underline{1048} \text{ MCF/D}$$

$$\text{OPEN FLOW} = A_{of} = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

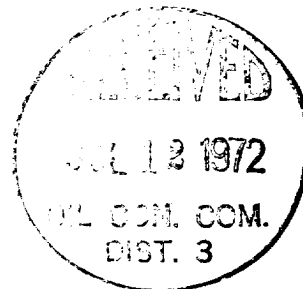
NOTE: Well produced medium spray of water throughout test.

$$A_{of} = \left(\frac{6744409}{5990985} \right)^n = (1.1258)^{.75} (1048) = (1.0929) (1048) =$$

$$A_{of} = \underline{1146} \text{ MCF/D}$$

TESTED BY D. Norton

WITNESSED BY _____



J. A. Jones
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