

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 3, 1964

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 34	
Location 1180'S, 1700'E, Sec. 34, T-27-N, R-4-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.000	Set At: Feet 8435	Tubing: Diameter 2.0625	Set At: Feet 8268
Pay Zone: From 8084	To 8280	Total Depth: 8435	Shut In 7-19-64
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing .X

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1020	+ 12 = PSIA 1932	Days Shut-In 46	Shut-In Pressure, Tubing PSIG 1693	+ 12 = PSIA 1705	
Flowing Pressure: P PSIG 379 (Tubing)	+ 12 = PSIA 391		Working Pressure: P _w PSIG 893	+ 12 = PSIA 905	
Temperature: T = 83 °F	F _t = .9786	n = .750	F _{pv} (From Tables) 1.048	Gravity .750	F _g = .8944

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = (\text{Calculated from Orifice Meter Reading}) = 1183 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3,732,624}{2,913,599} \right)^n = 1183 \times (1.2811)^{.75} = 1183 \times 1.2040$$

$$Aof = 1424 \text{ MCF/D}$$

NOTE: Produced 134 bbls. oil in 4 hours.

TESTED BY T. B. Grant - R. F. Headrick
CHECKED
WITNESSED BY H. E. McAnally

RECEIVED
SEP 9 1964
OIL CON. COM.
DIST. 3
Lewis D. Galloway