

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **August 30, 1960**

Operator El Paso Natural Gas Co.	Lease Lindrith Unit No. 36
Location 1650S, 890E; 23-24N-32	County Rio Arriba State New Mexico
Formation Pictured Cliffs	Pace So. Blanco PC
Casing Diameter 5-1/2" Set At Feet 3257	Tubing Diameter 1-1/4" Set At Feet 3223
Pay Zones From 3214 To 3252	Total Depth 3266 c/o 3259 Shut in 8/10/60
Stimulation Method Sand Water Frac.	Flow Through Casing X Flow Through Tubing

Choke Size, Inches .75	Choke Constant, C 12.365
Shut-in Pressure, Casing, PSIG 977	Shut-in Pressure, Tubing, PSIG 978
Flowing Pressure, F, PSIG 157	Working Pressure, PW, PSIG 169
Temperature, T, F 58	Eqv Fract. Tables, Gravity, Fg 1.0019 .85 1.020 .700 .9258

$$\text{CHOKE VOLUME } Q = C \times P_c \times F_c \times F_g \times F_{pv}$$

$$Q = 12.365 \times 169 \times 1.0019 \times .9258 \times 1.020$$

1977

MCF/D

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

$$A_{of} = \left(\frac{980100}{947339} \right)^n$$

$$1977 \times 1.0345^{.85} = 1977 \times 1.0292$$

$$A_{of} = 2035 \text{ MCF/D}$$

By **R. Headrick**

Witnessed by

Checked By **H. L. Kendrick**



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