

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE October 12, 1971

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 160	
Location 1180'/S-1800'/E, S 19, T27N, R7W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undesignated	
Casing: Diameter 2.875	Set At: Feet 4076	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3914	To 4056	Total Depth: 4082	Shut In 10-2-71
Stimulation Method S W F		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 965	+ 12 = PSIA 977	Days Shut-In 10	Shut-In Pressure, Tubing No Tubing	PSIG + 12 = PSIA	
Flowing Pressure: P 91	+ 12 = PSIA 103		Working Pressure: P <sub>w</sub> Calculated	PSIG + 12 = PSIA	136
Temperature: T = 61 °F	F <sub>t</sub> = .9990	n = 0.75	F <sub>pv</sub> (From Tables) 1.010	Gravity 0.650	F <sub>g</sub> = .9608

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

$$Q = 12.365 \times 103 \times .9990 \times .9608 \times 1.010 = \underline{1235} \text{ MCF/D}$$

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

NOTE: Well blew light spray of oil and water throughout test.

$$Aof = \left( \frac{954529}{935977} \right)^n = 1235(1.0198)^{.75} = 1235(1.0148)$$

$$Aof = \underline{1253} \text{ MCF/D}$$

TESTED BY B.J.Broughton & R. R. Hardy

WITNESSED BY \_\_\_\_\_



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