

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 6, 1973

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 150	
Location 1725'N, 1170'W, Section 8, T27N, R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2-7/8	Set At: Feet 3504	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3420	To 3450	Total Depth: 3504	Shut In 6-28-73
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1032	+ 12 = PSIA 1044	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA
Flowing Pressure: P PSIG 227	+ 12 = PSIA 239		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 309
Temperature: T = 64 °F	n = .85		Fpv (From Tables) 1.023	Gravity .655 Fg = .9571

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

$$Q = (12.365)(239)(.9962)(.9571)(1.023) = 2883 \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$Aof = Q \left(\frac{1089936}{994455} \right)^n = (2883)(1.0960)^{.85} = (2883)(1.0810)$$

$$Aof = 3116 \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY



William D. Welch
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