

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 23, 1973

Operator El Paso Natural Gas Company		Lease Barnes No. 10	
Location 800'S, 1736'W, Section 22, T32N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 2875	Set At: Feet 3356	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3190	To 3220	Total Depth: 3356	Shut In 5-14-73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIC 921	+ 12 = PSIA 933	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 322	+ 12 = PSIA 334		Working Pressure: Pw Calculated	+ 12 = PSIA 428	
Temperature: T = 64 °F	Ft = .9962	n = .85	Fpv (From Tables) 1.031	Gravity .635	Fg = .9721

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

$$Q = (12.365)(334)(.9962)(.9721)(1.031) = 4123 \text{ MCF/D}$$

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

NOTE: Well produced dry gas throughout test.

$$Aof = Q \left(\frac{870489}{687305} \right)^n = (4123)(1.2665)^{.85} = (4123)(1.2223)$$

$$Aof = 5042 \text{ MCF/D}$$

TESTED BY Bobby Broughton

WITNESSED BY



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