

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 23, 1973

Operator El Paso Natural Gas Company		Lease Barnes No. 11	
Location 1500'N, 800'E, Section 27, T32N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 2.875	Set At: Feet 3340	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3210	To 3240	Total Depth: 3340	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, PSIG 915	+ 12 = PSIA 927	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 131	+ 12 = PSIA 143		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 183	
Temperature: T=60 °F	n = .85		F _{pv} (From Tables) 1.013	Gravity .635	F _g = .9721

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

$$Q = (12.365) (143) (1.0000) (.9721) (1.013) = \underline{1741} \text{ MCF/D}$$

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

NOTE: Well produced very light mist throughout test - H₂O.

$$Aof = Q \left(\frac{859329}{825840} \right)^n = (1741) (1.0406)^{.85} = (1741) (1.0343)$$

$$Aof = \underline{1802} \text{ MCF/D}$$

TESTED BY Bobby Broughton

WITNESSED BY _____

William D. Welch
William D. Welch, Well Test Engineer