

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 17, 1973

Operator El Paso Natural Gas Company		Lease Hardie No. 8	
Location 1170'S, 1740'E, Section 23, T29, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3198	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3092	To 3134	Total Depth: 3198	Shut In 5-3-73
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 1057	+ 12 = PSIA 1069	Days Shut-In 14	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 169	+ 12 = PSIA 181	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 229		
Temperature: T = 65 °F	F _t = .9952	n = .85	F _{pv} (From Tables) 1.016	Gravity .645	F _g = .9645

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

$$Q = (12.365)(181)(.9952)(.9645)(1.016) = 2183 \text{ MCF/D}$$

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

NOTE: Well produced dry gas throughout test.

$$Aof = Q \left(\frac{1142761}{1090320} \right)^n = (2.183)(1.0481)^{.85} = (2.183)(1.0407)$$

$$Aof = 2273 \text{ MCF/D}$$

TESTED BY Bobby Broughton

WITNESSED BY



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