

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE June 30, 1969

Operator El Paso Natural Gas		Lease Florance No. 8	
Location 850'N; 1800'W; S-20; T-30N; R-9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2834	Tubing: Diameter No tubing	Set At: Feet ----
Pay Zone: From 2771	To 2783	Total Depth: 2834	Shut In 6-5-69
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 686	+ 12 = PSIA 698	Days Shut-In 25	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ----	
Flowing Pressure: P PSIG 130	+ 12 = PSIA 142		Working Pressure: P <sub>w</sub> PSIG Calc.	+ 12 = PSIA 146	
Temperature: T = 61 °F	n = .85		F <sub>pv</sub> (From Tables) 1.015	Gravity .67 F <sub>g</sub> = .9463	

CHOKE VOLUME = Q = C x P<sub>i</sub> x F<sub>i</sub> x F<sub>g</sub> x F<sub>pv</sub>

$$Q = (12.365)(142)(.999)(.9463)(1.015) = 1685 \text{ MCF/D}$$

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

$$A_{of} = \left( \frac{487204}{465888} \right)^n = 1685 (1.0457)^{.85} = 1.0386 (1685)$$

Note: Dry gas for entire test.

$$A_{of} = 1750 \text{ MCF/D}$$

TESTED BY RFH &amp; RF

Calculated

WITNESSED BY RF &amp; RES

*H. L. Kendrick*  
H. L. Kendrick

