

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE July 31, 1968

Operator El Paso Natural Gas Company		Lease Storey No. 6	
Location 1730'N, 940'E, Sec. 27, T-28-N, R-8-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2691	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2602	To 2660	Total Depth: 2725	Shut In 6-29-68
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 953	+ 12 = PSIA 965	Days Shut-In 32	Shut-In Pressure, Tubing PSIG NO TUBING	+ 12 = PSIA	
Flowing Pressure: P PSIG 133	+ 12 = PSIA 150		Working Pressure: P <sub>w</sub> PSIG CALC.	+ 12 = PSIA 165	
Temperature: T = 61 °F      Ft = .9990	n = .85		F <sub>pv</sub> (From Tables) 1.013	Gravity .650	F <sub>g</sub> = .9608

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = (12.365)(150)(.9990)(.9608)(1.013) = \underline{1803} \text{ MCF/D}$$

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

$$Aof = \left( \frac{931225}{897000} \right)^n = (1803)(1.0381)^{.85} = (1803)(1.0323)$$

NOTE: The well produced dry gas throughout the test.

$$Aof = \underline{1861} \text{ MCF/D}$$

TESTED BY NortonCHECKED BY T. B. Grant

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