

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 7-13-71

Operator El Paso Natural Gas Company		Lease Sunray No. 4	
Location 990' S, 990' W, S 5, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3121	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 3026	To 3052	Total Depth: 3153	Shut In 6-26-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, 938	PSIG	+ 12 = PSIA 950	Days Shut-In 17	Shut-In Pressure, Tubing no tubing	PSIG
Flowing Pressure: P 139	PSIG	+ 12 = PSIA 151		Working Pressure: P <sub>w</sub> calculated	PSIG
Temperature: T = 62 °F		n = .85		F <sub>pv</sub> (From Tables) 1.013	Gravity .630 F <sub>g</sub> = .9759

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

$$Q = 12.365 \times 151 \times .9981 \times .9759 \times 1.013 = 1842 \text{ MCF/D}$$

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

Note: Well blew dry gas throughout test.

$$Aof = \left( \frac{902500}{866400} \right)^n = 1842(1.0416)^{.85} = 1842(1.0352)$$

$$Aof = 1907 \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY



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