

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 1-11-71

Operator El Paso Natural Gas Company		Lease Lackey No. 4	
Location 2134 N, 1190 E, S 19, T29N, R9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2184	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2018	To 2060	Total Depth: 2184'	Shut In 12-30-70
Stimulation Method S W F		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 710	+ 12 = PSIA 722	Days Shut-In 12	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA
Flowing Pressure: P PSIG 138	+ 12 = PSIA 150		Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 178
Temperature: T = 61 °F	n = Ft = .9990	.85	Fpv (From Tables) 1.014	Gravity .665 Fg = .9499

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

$$Q = (12.365)(150)(.9990)(.9499)(1.014) = 1785 \text{ MCF/D}$$

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

Note: Well blew dry gas through test.

$$Aof = \left(\frac{521284}{489600} \right)^n = (1785)(1.0647)^{.85} = (1785)(1.0546)$$

$$Aof = 1882 \text{ MCF/D}$$

TESTED BY J. B. Goodwin

WITNESSED BY



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TEMPERATURE SURVEY LOG

