

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

OCC

DATE 10/25/72

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 28-6 Unit #170	
Location 1650/N, 1460/E, Sec. 5-T27N-R6W		County Rio Arriba	State NM
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7911	Tubing: Diameter 1.990	Set At: Feet 7829
Pay Zone: From 7634	To 7838	Total Depth: 7911	Shut In 10/17/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2534	+ 12 = PSIA 2546	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2258	+ 12 = PSIA 2270	
Flowing Pressure: P PSIG 296	+ 12 = PSIA 308		Working Pressure: Pw PSIG 547	+ 12 = PSIA 559	
Temperature: T = 69 °F	Ft = .9915	n = .75	Fpv (From Tables) 1.025	Gravity .620	Fg = .9837

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

$$Q = (12.365)(308)(.9915)(.9837)(1.025) = 3807 \text{ MCF/D}$$

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

$$A_{of} = \left( \frac{6482116}{6169635} \right)^n = 3807 (1.0506)^{.75} = 3707 (1.0377)$$

$$A_{of} = 3951 \text{ MCF/D}$$

NOTE: Well produced a light to medium mist thru test. H<sub>2</sub>O + som dist.



TESTED BY BJB

WITNESSED BY

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Well Test Engineer