

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 27, 1968

Operator El Paso Natural Gas Company		Lease Johnston "A" No. 13	
Location 1840'N, 1650'E, Sec. 36, T-27-N,R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7735	Tubing: Diameter 2.375	Set At: Feet 7396
Pay Zone: From 7424	To 7660	Total Depth: 7760	Shut In 8-2-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 2624	PSIG	+ 12 = PSIA 2636	Days Shut-In 25	Shut-In Pressure, Tubing 2627	PSIG + 12 = PSIA 2639
Flowing Pressure: P 347	PSIG	+ 12 = PSIA 359		Working Pressure: P _w 1158	PSIG + 12 = PSIA 1170
Temperature: T = 71 °F		n = .75		F _{pv} (From Tables) 1.035	Gravity .670 F _g = .9463

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

$$Q = (12.365)(359)(.9896)(.9463)(1.035) = \underline{4302} \text{ MCF/D}$$

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

$$Aof = \left(\frac{6964321}{5595421} \right)^n = (4302)(1.2446)^{.75} = (4302)(1.1783)$$

Note: The well produced a light mist of water and distillate throughout the three hour test period.

$$Aof = \underline{5069} \text{ MCF/D}$$

TESTED BY Bobby J. BroughtonCalculated by H. E. McAnally
WITNESSED BY _____

H. L. Kendrick
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