

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 12, 1957

Operator El Paso Natural Gas Company		Lease San Juan 30-6 Unit No. 18	
Location 920'N, 1020'E, Sec. 18-30-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco Mesa Verde	
Casing: Diameter 5-1/2	Set At: Feet 5796	Tubing: Diameter 2	Set At: Feet 5743
Pay Zone: From 5276	To 5754	Total Depth: 5810	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 3/4	Choke Constant: C 12.365		C/O - 5770	
Shut-In Pressure, Casing, PSIG 1112	+ 12 = PSIA 1124	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 1112	+ 12 = PSIA 1124
Flowing Pressure: P PSIG 345	+ 12 = PSIA 357		Working Pressure: Pw PSIG 820	+ 12 = PSIA 832
Temperature: T °F 74	n .75		Fpv (From Tables) 1.037	Gravity .685

CHOKE VOLUME $Q = C \times P_r \times F_r \times F_g \times F_{pv}$

$$Q = 12.365 \times 357 \times .9868 \times .9359 \times 1.037 = 4228 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,263,376}{571,152} \right)^n = 2.2119^{.75} \times 4228 = 1.812 \times 4228$$

$$Aof = 7661 \text{ MCF/D}$$

TESTED BY W. Richard Proctor

WITNESSED BY _____



L. D. Galloway
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FISH CONSERVATION COMMISSION

ARIZONA DISTRICT OFFICE

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DISTRICT