

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 7-22-71

Operator El Paso Natural Gas Company		Lease Kelly B No. 2	
Location 870' N, 850' E, S 8, T30N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3081	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2054	To 2980	Total Depth: 3090	Shut In 7-15-71
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, 932	PSIG	+ 12 = PSIA 944	Days Shut-In 7	Shut-In Pressure, Tubing no tubing	PSIG
Flowing Pressure: P 113	PSIG	+ 12 = PSIA 125		Working Pressure: P _w calculated	PSIG
Temperature: T = 70 °F		n = .85		Fpv (From Tables) 1.010	Gravity .635
	F _t = .9905				F _g = .9721

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

$$Q = 12.365 \times 125 \times .9905 \times .9721 \times 1.010 = 1503 \text{ MCF/D}$$

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

Note: Blew light fog of water for entire test.

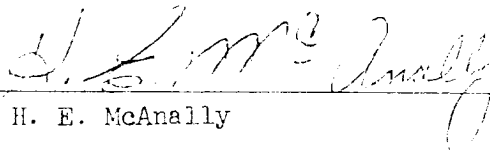
$$Aof = \left(\frac{891136}{866487} \right)^n = (1.0284)^{.85} (1503) = (1.0240) (1503)$$

$$Aof = 1539 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____




 H. E. McAnally