

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 9-2-71

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 58	
Location 790 ' S, 1190 ' W, S 31, T27N, R4W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8536	Tubing: Diameter 1.990	Set At: Feet 8467
Pay Zone: From 8266	To 8472	Total Depth: 8536	Shut In 8-24-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2360	+ 12 = PSIA 2372	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2364	+ 12 = PSIA 2376	
Flowing Pressure: P PSIG 331	+ 12 = PSIA 343		Working Pressure: P _w PSIG 638	+ 12 = PSIA 650	
Temperature: T = 77 °F	n = .75		Fpv (From Tables) 1.036	Gravity .695	Fg = .9292

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

$$Q = 12.365 \times 343 \times .9840 \times .9292 \times 1.036 = 4018 \text{ MCF/D}$$

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

Note: Blew heavy fog of water and oil for three hours.

$$Aof = \left(\frac{5645376}{5222876} \right)^n = 4018(1.0809)^{.75} = 4018(1.0600)$$

$$Aof = 4259 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

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