

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 4-29-70

Operator El Paso Natural Gas Co.		Lease San Juan 23-6 Unit No. 148	
Location 800 N, 1460 E, S28, T28N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7755	Tubing: Diameter 1.900	Set At: Feet 7686
Pay Zone: From 7479	To 7702	Total Depth: 7755	Shut In 4-20-70
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2541	+ 12 = PSIA 2553	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2223	+ 12 = PSIA 2235	
Flowing Pressure: P PSIG 531	+ 12 = PSIA 543		Working Pressure: Pw PSIG 662	+ 12 = PSIA 674	
Temperature: T = 82 °F Ft = .9795	n = .75		Fpv (From Tables) 1.050	Gravity .650	Fg = .9608

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

$$Q = (21.365)(543)(.9795)(.9608)(1.050) = \underline{6635} \text{ MCF/D}$$

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

Note: Well produced med. fog of H₂O & dist. throughout test.

$$Aof = \left(\frac{6517809}{6063533} \right)^n = (6635)(1.0749)^{.75} = (6635)(1.0556)$$

$$Aof = \underline{7004} \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY _____

H. L. Kendrick
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