

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 17, 1968

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 50	
Location 1500'S, 1575'W, Sec. 19, T-27-N, R-4-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7910	Tubing: Diameter 2.375	Set At: Feet 7672
Pay Zone: From 7688	To 7900	Total Depth: 7910	Shut In 12-11-68
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2.75 plate 4" M.R.	Choke Constant: C 41.9208		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 2445	+ 12 = PSIA 2457	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2427	+ 12 = PSIA 2439
Flowing Pressure: P PSIG 151 M.R.; 424 W.H.	+ 12 = PSIA 163 M.R.; 436 W.H.		Working Pressure: P _w PSIG 1046	+ 12 = PSIA 1058
Temperature: T = 80 °F F _t = .9813	n = .75		F _{pv} (From Tables) 1.014	Gravity .670 F _g = 1.2217

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

$$Q = \text{Calculated from orifice meter readings} = \underline{4976} \text{ MCF/D}$$

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

$$Aof = \left(\frac{6036849}{4917485} \right)^n = (4976)(1.2276)^{.75} = (4976)(1.1663)$$

NOTE: The well produced 19.39 bbls of water and 17.90 bbls of 59.4 API gravity oil during the test.

$$Aof = \underline{5804} \text{ MCF/D}$$



TESTED BY Dannie Roberts
Calculated
WITNESSED BY Hermon E. McAnally

H. L. Kendrick
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