

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 1, 1973

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit #171	
Location 1040/S, 1150/W, Sec. 10, T 27N, R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4304'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 4164	To 4220	Total Depth: 4304	Shut In 10-15-73
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 2.750 P1, 4" M.R.		Plate Choke Constant: C 41.10		Tested through a 3/4" Variable Choke Tubingless Completion.	
Shut-In Pressure, Casing, PSIG 1056	+ 12 = PSIA 1068	Days Shut-In 17	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 11 M.R., 36 WH	+ 12 = PSIA 23 MR; 48 WH		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 67	
Temperature: T = 78°F	n = Ft = .9831		Fpv (From Tables) 1.003	Gravity .655	Fg = 1.236

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

$$Q = \text{Calculated from orifice meter readings} = \underline{626} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1140624}{1136135} \right)^n = (626)(1.0040)^{.85} = (626)(1.0034)$$

$$Aof = \underline{628} \text{ MCF/D}$$

Note: The well produced a trace of water during the test.

TESTED BY B. J. Broughton

WITNESSED BY _____

H. E. McAnally
Well Test Engineer

