

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADUAL COMPLETIONDATE October 10, 1957

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 79	
Location 1570'N, 1008'E, Sec. 11-27-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 2986	Tubing: Diameter 2"	Set At: Feet 4852
Pay Zone: From 4506	To 5137	Total Depth: 5285 - c/o 5200	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750	Choke Constant: C 12.365		5-1/2" liner - 2931 - 5281	
Shut-In Pressure, Casing, PSIG PC 1035	- 12 = PSIA 1047	Days Shut-In 15	Shut-In Pressure, Tubing PSIG MV 1066	+ 12 = PSIA 1078
Flowing Pressure: P, PSIG 323	- 12 = PSIA 335		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 641
Temperature: T °F 69	n = 0.75		F _{pv} (From Tables) 1.036	Gravity 0.685

Initial SIPC (PC) - 1035 psig - final 1037 psig, 1-1/4" at 2869. Packer at 2989
Sleeve at 2895

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = 12.365 \times 335 \times .9915 \times .9359 \times 1.036 = \underline{\quad 3982 \quad} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1,162,084}{751,203} \right)^n = 1.5469^{.75} \times 3982 = 1.388 \times 3982$$

$$A_{of} = \underline{\quad 5527 \quad} \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____

cc: E. S. Oberly (6)

L. D. Galloway
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