

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE April 11, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 29-5 Unit No. 57	
Location 1160 S & W Sec. 20-29N 5W		County Rio Arriba	State N. M.
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8180	Tubing: Diameter 1.500	Set At: Feet 8117
Pay Zone: From 8005	To 8100	Total Depth: 8180	Shut In 4-2-72
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2610	+ 12 = PSIA 2622	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2585	+ 12 = PSIA 2597	
Flowing Pressure: P PSIG 336	+ 12 = PSIA 348		Working Pressure: P _w PSIG 542	+ 12 = PSIA 554	
Temperature: T = 72 °F	n = Ft = .9887		F _{pv} (From Tables) 1.024	Gravity .590	F _g = 1.0084

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

$$Q = (12.365)(348)(0.9887)(1.0084)(1.024) = \underline{4393} \text{ MCF/D}$$

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

NOTE: The well produced a light fog of water and distillate throughout the test.

$$Aof = \left(\frac{6874884}{6567968} \right)^n = (1.0467)^{.75} (4393) = (1.0348)(4393)$$

$$Aof = \underline{4546} \text{ MCF/D}$$

TESTED BY NortonWITNESSED BY Broughton

H. E. McAnally
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