

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE August 11, 1964

Operator Beta Development Company		Lease San Juan Unit 28-6 No. 105	
Location 1050'S, 1600'W, Sec. 35, T-28-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7581	Tubing: Diameter 2.375	Set At: Feet 7501
Pay Zone: From 7316	To 7540	Total Depth: 7581	Shut In 8-4-64
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		Company Distribution Only	
Shut-In Pressure, Casing, PSIG 2516	+ 12 = PSIA 2528	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2444	+ 12 = PSIA 2456	
Flowing Pressure: P PSIG 294	+ 12 = PSIA 306		Working Pressure: Pw PSIG 1002	+ 12 = PSIA 1014	
Temperature: T = 76 °F	n = .75		Fpv (From Tables) 1.029	Gravity .670	Fg = .9463

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

$$Q = (12.365) (306) (.9850) (.9463) (1.029) = 3629 \text{ MCF/D}$$

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

$$Aof = \left(\frac{6,390,784}{5,362,588} \right)^n = (3629) (1.1917)^{.75} = (3629) (1.1405)$$

NOTE: Well produced very little liquid during test.

$$Aof = 4139 \text{ MCF/D}$$

TESTED BY George Hoffman (Beta)

WITNESSED BY Hermon E. McAnally (EPNG)



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