

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE March 9, 1965

Operator Beta Development Company		Lease State Gas Unit A No. 1	
Location 1090'S, 1650'W, Section 36, T-31-N, R-12-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6925	Tubing: Diameter 2.375	Set At: Feet 6818
Pay Zone: From 6766	To 6850	Total Depth: 6925	Shut In 3-2-65
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 1962	+ 12 = PSIA 1974	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1952	+ 12 = PSIA 1964
Flowing Pressure: P PSIG 187	+ 12 = PSIA 199		Working Pressure: P _w PSIG 556	+ 12 = PSIA 568
Temperature: T = 73 °F	n = .75		F _{pv} (From Tables) 1.018	Gravity .670 F _g = .9463

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

$$Q = (12.365) (199) (.9831) (.9463) (1.018) = \underline{2,330} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3,896,676}{3,574,052} \right)^n = (2330) (1.0902)^{.75} = (2330) (1.0669)$$

$$Aof = \underline{2,486} \text{ MCF/D}$$

NOTE: Well produced a light spray of distillate and water throughout the test.

TESTED BY George Hoffman (Beta)WITNESSED BY Hermon McAnally (EPNG)

Lewis D. Galloway
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