

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 28, 1966

Operator El Paso Natural Gas Company		Lease Huerfanito Unit No. 101	
Location 800'N, 800'E, Section 2, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 4558	Tubing: Diameter 2.375	Set At: Feet 4433
Pay Zone: From 4350	To 4452	Total Depth: 4558	Shut In 7-21-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365			
Shut-in Pressure, Casing, PSIG 1134	+ 12 = PSIA 1146	Days Shut-in 7	Shut-in Pressure, Tubing PSIG 1132	+ 12 = PSIA 1144
Flowing Pressure: P PSIG 433	+ 12 = PSIA 445		Working Pressure: Pw PSIG 855	+ 12 = PSIA 867
Temperature: T = 83 °F	Ft = .9786	n = .75	Fpv (From Tables) 1.046	Gravity .695 Fg = .9292

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

$$Q = (12.365) (445) (.9786) (.9292) (1.046) = \underline{5,234} \text{ MCF/D}$$

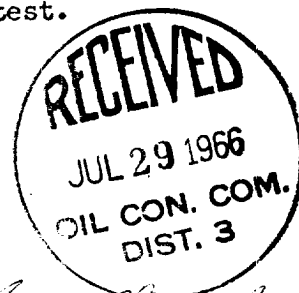
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{1,313,316}{561,627} \right)^n = (5,234) (2.3384)^{.75} = (5,234) (1.8910)$$

$$Aof = \underline{9,897} \text{ MCF/D}$$

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

TESTED BY Clarence R. Wagner
 CALCULATED BY Hermon E. McAnally
 WITNESSED BY Tom B. Grant
 CHECKED BY Tom B. Grant



Hermon E. McAnally
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