

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 24, 1968

Operator El Paso Natural Gas Company		Lease Vanderwart "A" No. 3 (OWHO)	
Location 990'S, 990'W, Sec. 13, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6010	Tubing: Diameter 2.375	Set At: Feet 5768
Pay Zone: From 5251	To 5946	Total Depth: 6010	Shut In 10-17-68
Stimulation Method Sand Water Proc		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 860	+ 12 = PSIA 872	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 860	+ 12 = PSIA 872	
Flowing Pressure: P PSIG 286	+ 12 = PSIA 298		Working Pressure: P _w PSIG 757	+ 12 = PSIA 769	
Temperature: T = 65 °F	Ft = .9952	n = .75	Fpv (From Tables) 1.032	Gravity .695	Fg = .9292

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

$$Q = (12.365)(298)(.9952)(.9292)(1.032) = \underline{3516} \text{ MCF/D}$$

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

$$Aof = \left(\frac{760334}{169025} \right)^n = (3516)(4.4987)^{.75} = (3516)(3.0890)$$

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

$$Aof = \underline{10861} \text{ MCF/D}$$

TESTED BY D. NortonCalculated
WITNESSED BY H. E. McAnallyChecked by G. A. Libman

H. L. Kendrick
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