

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 11, 1973

Operator El Paso Natural Gas Company		Lease Vandewart No. 7	
Location 1600'N, 1815'E, Section 14, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3543	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3424	To 3480	Total Depth: 3563	Shut In 5-2-73
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, 886	PSIG	+ 12 = PSIA 898	Days Shut-In 9	Shut-In Pressure, Tubing No Tubing	PSIG + 12 = PSIA
Flowing Pressure: P 44	PSIG	+ 12 = PSIA 56		Working Pressure: P _w Calculated	PSIG + 12 = PSIA 72
Temperature: T = 65 °F	Ft = .9952	n = .85		F _{pv} (From Tables) 1.003	Gravity .635 F _g = .9721

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

$$Q = (12.365)(56)(.9952)(.9721)(1.003) = 672 \text{ MCF/D}$$

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

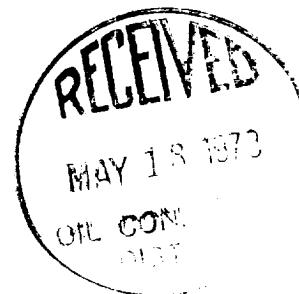
NOTE: Blew clear gas for entire test.

$$Aof = Q \left(\frac{806404}{801220} \right)^n = 672 (1.0065)^{.85} = 672 (1.0055)$$

$$Aof = 677 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY



William D. Welch
William D. Welch, Well Test Engineer