

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE Sept. 7, 1971

Operator El Paso Natural Gas Company		Lease Atlantic "C" No. 1 (OWWO)	
Location 1650' S, 990' W, S 35. T31N, R10W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5784	Tubing: Diameter 2.375	Set At: Feet 5698
Pay Zone: From 4745	To 5512	Total Depth: 5784	Shut In 8-27-71
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 772	+ 12 = PSIA 784	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 660	+ 12 = PSIA 672	
Flowing Pressure: P PSIG 267	+ 12 = PSIA 279		Working Pressure: Pw PSIG 685	+ 12 = PSIA 697	
Temperature: T = 79 °F	Ft = .9822	n = .75	Fpv (From Tables) 1.026	Gravity .671	Fg = .9463

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

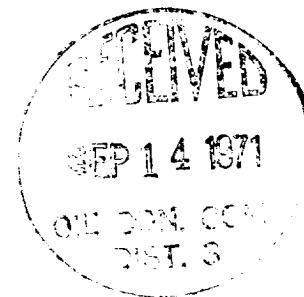
$$Q = 12.365 \times 279 \times .9822 \times .9463 \times 1.026 = \underline{3290} \text{ MCF/D}$$

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

Note: Blew heavy (very heavy) fog of water and oil for 3 hours.

$$Aof = \left(\frac{614656}{128847} \right)^{.75} / = 3290(4.7704)^{.75} = (3.2279)3290$$

$$Aof = \underline{10,620} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

H. E. McAnally
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