

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE Sept. 10, 1979

Operator El Paso Natural Gas Company		Lease Case #4A	
Location NE 18-31-11		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5483	Tubing: Diameter 2 3/8	Set At: Feet 5290
Pay Zone: From 5049	To 5430	Total Depth: 5483	Shut In 9-2-79
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X X X

Choke Size, Inches 0.750	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG ---	+ 12 = PSIA ---	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 814	+ 12 = PSIA 826
Flowing Pressure: P PSIG 304	+ 12 = PSIA 316		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 627
Temperature: T = 60 °F	n = F _t = 1.0000		F _p (From Tables) 1.032	Gravity 0.665 F _g = 0.9498

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

$$Q = (12.365) (316) (1.0000) (0.9498) (1.032) = 3830 \text{ MCF/D}$$

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

$$Aof = \left(\frac{682276}{289147} \right)^n$$

$$Aof = 7292 \text{ MC}$$

TESTED BY Carl Rhames

WITNESSED BY _____

C. R. Wagner
Well Test Engineer