

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 29, 1975

Operator El Paso Natural Gas Company		Lease Hubbell #19	
Location 1125/S, 1180/E, Sec. 19, T29N, R10W		County San Juan	State New Mexico
Formation Fruitland		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 1633'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 1430	To 1556	Total Depth: PBD 1633 1623	Shut In 6-24-75
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.75		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 738	+ 12 = PSIA 750	Days Shut-In 36	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 1	+ 12 = PSIA 13	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 15		
Temperature: T= 60 °F F _t = 1.0000	n = 0.85	F _{pv} (From Tables) 1.004	Gravity .650 F _g =(.9608		

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

$$Q = (12.365)(13)(1.0000)(0.9608)(1.004) = \underline{155} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{562500}{562275} \right)^n = (155)(1.004)^{.85} = (155)(1.0003)$$

$$Aof = \underline{155} \text{ MCF/D}$$

Note: The well produced dry gas.

TESTED BY Frank Johnson

WITNESSED BY _____



C.R. Wagner
Well Test Engineer