

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE May 23, 1974

Operator El Paso Natural Gas Company		Lease Hubbell #13	
Location 890/N, 820/W, Sec. 17, T29N, R10W		County San Juan	State New Mexico
Formation Fruitland		Pool Aztec Ext.	
Casing: Diameter 2.875	Set At: Feet 2127'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 1986'	To 1998	Total Depth: PBD 2127' 2117'	Shut In 5-16-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 665	+ 12 = PSIA 677	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 32	+ 12 = PSIA 44		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 52	
Temperature: T = 65 °F	F <sub>t</sub> = .9952	n = .85	F <sub>pv</sub> (From Tables) 1.0040	Gravity .650	F <sub>g</sub> = .9608

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

$$Q = 12.365(44)(.9952)(.9608)(1.0040) = \underline{\quad 522 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{458329}{455625} \right)^n = 522(1.0059)^{.85} = 522(1.0050)$$

$$Aof = \underline{\quad 525 \quad} \text{ MCF/D}$$

Note: The well produced a very light fog of water and distillate.

TESTED BY C .R. Wagner

WITNESSED BY \_\_\_\_\_



Loren W Fothergill  
Loren W. Fothergill  
Well Test Engineer