

OPEN FLOW TEST DATA

DATE May 14, 1974

Operator El Paso Natural Gas Company		Lease Hubbell #14 (FT)	
Location 1790/N, 1453/E, Sec. 18, T29N, R10W		County San Juan	State New Mexico
Formation Fruitland		Pool Aztec Ext.	
Casing: Diameter 2.875	Set At: Feet 2014'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 1730'	To 1748'	Total Depth: PBD 3075' 2004'	Shut In 4-25-74
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 637	+ 12 = PSIA 649	Days Shut-In 19	Shut-In Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P, PSIG 28	+ 12 = PSIA 40	Working Pressure: P _w , PSIG Calculated	+ 12 = PSIA 46		
Temperature: T = 62 °F	n = Ft = .9981	Fpv (From Tables) 1.0040	Gravity .650	Fg = .9608	

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

$$Q = 12.365(40)(.9981)(.9608)(1.0040) = \underline{\quad 476 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{421201}{419085} \right)^n = 476(1.0050)^{.85} = 476(1.0043)$$

$$Aof = \underline{\quad 478 \quad} \text{ MCF/D}$$

Note: The well produced very light fog of distillate and water throughout the test.

TESTED BY C. R. Wagner

WITNESSED BY

Loren W. Fothergill
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Well Test Engineer