

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE October 17, 1974

Operator El Paso Natural Gas Company		Lease Heaton #1 (DK) (OWWO)	
Location 990/N, 900/S, Sec. 28, T31N, R11W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 5.500	Set At: Feet 7106'	Tubing: Diameter 1.990	Set At: Feet 6998'
Pay Zone: From 6814'	To 7060'	Total Depth: COTD 7106' 7080'	Shut In 9-28-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 400	+ 12 = PSIA 412	Days Shut-In 19	Shut-In Pressure, Tubing PSIG 862	+ 12 = PSIA 874	
Flowing Pressure: P PSIG 69	+ 12 = PSIA 81		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 274	
Temperature: T = 66 °F	n = F <sub>t</sub> = 0.9943		F <sub>pv</sub> (From Tables) 1.009	Gravity .695	F <sub>g</sub> = 0.9292

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

$$Q = 12.365(81)(0.9943)(0.9292)(1.009) = \underline{\quad 934 \quad} \text{ MCF/D}$$

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

$$A_{of} = Q \left( \frac{763876}{688800} \right)^n = 934(1.1090)^{.75} = 934(1.0807)$$

$$A_{of} = \underline{\quad 1009 \quad} \text{ MCF/D}$$

Note: The well started to unload a medium fog of water and distillate. After 20 minutes the well produced a light fog of water and distillate.

TESTED BY D. Norton

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

Loren W. Fothergill  
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Well Test Engineer