

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE December 9, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #232	
Location 1765/N, 1490/E, Sec. 20, T28N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7276'	Tubing: Diameter 1.990'	Set At: Feet 7225'
Pay Zone: From 7048'	To 7248'	Total Depth: PBSD 7276' 7268'	Shut In 11-17-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Meter Choke Size, Inches 4" MR		Orifice Orifice Constant: C 2.500 32.64		Well tested thru a 3/4" variable choke	
Shut-In Pressure, Casing, 2580	PSIG	+ 12 = PSIA 2592	Days Shut-In 22	Shut-In Pressure, Tubing 2497	PSIG + 12 = PSIA 2509
Flowing Pressure: P WH 93 MR 38	PSIG	+ 12 = PSIA WH 105 MR 50		Working Pressure: P <sub>w</sub> 478	PSIG + 12 = PSIA 490
Temperature: T=52 °F	F <sub>t</sub> =1.008	n = .75		F <sub>pv</sub> (From Tables) 1.004	Gravity .650 F <sub>g</sub> = 1.240

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

$$Q = \text{Calculated from orifice meter readings} = 1911 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{6718464}{6478364} \right)^n = 1911(1.0371)^{.75} = 1911(1.0277)$$

$$Aof = 1964 \text{ MCF/D}$$

Note: The well produced 17.35 Bbls of water and a trace of drip.

TESTED BY Johnson &amp; Norton

WITNESSED BY

*Loren W. Fothergill*  
Loren W. Fothergill  
Well Test Engineer

