

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 21, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #228	
Location 2090/S, 1830/W, Sec. 8, T27N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7838'	Tubing: Diameter 1.990	Set At: Feet 7792'
Pay Zone: From 7595'	To 7796'	Total Depth: PBTD 7838' 7829'	Shut In 11-2-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Meter Choke Size, Inches 4" MR 2.50		Orifice Choke Constant: C 32.64		Well tested thru a 3/4" variable choke.	
Shut-In Pressure, Casing, PSIG 2330	+ 12 = PSIA 2342	Days Shut-In 19	Shut-In Pressure, Tubing PSIG 2215	+ 12 = PSIA 2227	
Flowing Pressure: P PSIG MR 102 WH 370	+ 12 = PSIA MR 114 WH 382		Working Pressure: Pw PSIG 582	+ 12 = PSIA 594	
Temperature: T = 65 °F	n = 0.9971		Fpv (From Tables) 1.039	Gravity .650	Fg = 1.240

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

$$Q = \text{Calculated from meter readings} = \underline{\quad 4162 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{5484964}{5132128} \right)^n = 4162(1.0688)^{.75} = 4162(1.0511)$$

$$Aof = \underline{\quad 4375 \quad} \text{ MCF/D}$$

Note: The well produced 13.05 Bbls of 59 API gravity oil.

TESTED BY Goodwin & Norton

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer