

OPEN FLOW TEST DATA

DATE January 9, 1975

Operator El Paso Natural Gas Company		Lease Pinon Mesa #1	
Location 1000/N, 1180/E, Sec. 36, T31N, R14W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6447'	Tubing: Diameter 2.375	Set At: Feet 6286'
Pay Zone: From 6198'	To 6274'	Total Depth: PBD 6447' 6431'	Shut In 12-31-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" MR	Plate 2.500	Plate Choke Constant: C 32.64	Well tested thru a 3/4" variable choke		
Shut-In Pressure, Casing, 1938	PSIG + 12 = PSIA 1950	Days Shut-In 9	Shut-In Pressure, Tubing 1949	PSIG + 12 = PSIA 1961	
Flowing Pressure: P WH 295	PSIG MR 98	+ 12 = PSIA WH 307 MR 110	Working Pressure: P _w 787	PSIG + 12 = PSIA 799	
Temperature: T = 61 °F	n = Ft = 0.9990	.75	Fpv (From Tables) 1.030	Gravity .650	Fg = 1.240

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = \text{Calculated from meter readings} = \underline{4258} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{3845521}{3207120} \right)^n = 4258(1.1991)^{.75} = 4258(1.1459)$$

$$Aof = \underline{4879} \text{ MCF/D}$$

Note: The well produced 1.00 Bbls of 61 API gravity and 0.25 Bbls of water.

TESTED BY Hardy & Norton

WITNESSED BY _____

Loren W. Fothergill
Well Test Engineer