

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

CORRECTED COPY

DATE January 8, 1975

Operator El Paso Natural Gas Company		Lease Dow Marks Com #1	
Location 1500/S, 1500/E, Sec. 36, T26N, R9W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6567'	Tubing: Diameter 2.375	Set At: Feet 6502'
Pay Zone: From 6296'	To 6498'	Total Depth: PBTD 6567' 6553'	Shut In 12-19-74
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 through a 3/4" variable choke.	
Shut-In Pressure, Casing, 1972	PSIG	+ 12 = PSIA 1984	Days Shut-In 20	Shut-In Pressure, Tubing 1275
Flowing Pressure: P WH 284 MR 90	PSIG	+ 12 = PSIA WH 296 MR 102	Working Pressure: P <sub>w</sub> 788	PSIG + 12 = PSIA 800
Temperature: T = 62 °F	F <sub>t</sub> = 0.9981	n = .75	F <sub>pv</sub> (From Tables) 1.036	Gravity .710 F <sub>g</sub> = 1.187

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

$$Q = \text{Calculated from meter readings.} = \underline{\hspace{2cm}} 3398 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{3936256}{3296256} \right)^n = 3398(1.1942)^{.75} = 3398(1.1423)$$

$$Aof = \underline{\hspace{2cm}} 3882 \text{ MCF/D}$$

Note: The well produced 25.24 Bbls of  
59.1 API gravity oil and 4.74 Bbls  
of water.

TESTED BY C. Rhames

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

Loren W. Fethergill  
Well Test Engineer