FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE December 6, 1974

Operator: El Paso Natural Gas Company		Lease: San Juan 28-7 Unit #231	
Location: 1495/N, 875/W, Sec. 16, T28N, R7W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7421'	Tubing: Diameter: 1.900	Set At: Feet: 7361'
Pay Zone: From: 7212'	To: 7370'	Total Depth: 7421' PBTD 7412'	Shut In: 11-13-74
Stimulation Method: Sandwater Frac		Flow Through Casing: XX	Flow Through Tubing:

~~Choke~~ Meter Size, Inches: 4" MR	Orifice: 2.500	~~Choke~~ Meter Constant: C: 32.64		Well tested thru a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG: 2685	+ 12 = PSIA: 2697	Days Shut-In: 23	Shut-In Pressure, Tubing PSIG: 2115	+ 12 = PSIA: 2127	
Flowing Pressure: P PSIG: MR 22 WH 78	+ 12 = PSIA: MR 34 WH 90		Working Pressure: P_w PSIG: 325	+ 12 = PSIA: 337	
Temperature: T= 85 °F Ft=0.9768	n = .75		Fpv (From Tables): 1.008	Gravity: .650 Fg = 1.240	

CHOKE VOLUME = Q = C x P_t x F_t x F_g x F_{pv}

Q = Calculated from orifice meter readings = 869 MCF/D

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

$$\text{Aof} = Q\left(\frac{7273809}{7160240}\right)^n = 869(1.0159)^{.75} = 869(1.0119)$$

Aof = 879 MCF/D

Note: The well produced 11.50 Bbls of water and a trace of drip during the three hour test.

TESTED BY F. Johnson & J. B. Goodwin

WITNESSED BY L. W. Fothergill

Loren W Fothergill
Well Test Engineer