FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE October 30, 1974

Operator: El Paso Natural Gas Company		Lease: Huerfano Unit #256	
Location: 1180/S, 1550/E, Sec. 31, T27N, R9W		County: San Juan	State: New Mexico
Formation: Gallup		Pool: Angel Peak Ext.	
Casing: Diameter: 4.500	Set At: Feet: 6182'	Tubing: Diameter: 2.375	Set At: Feet: 6114'
Pay Zone: From: 5856'	To: 6124'	Total Depth: PBTD 6182' 6166'	Shut In: 10-23-74
Stimulation Method: Sand-Foam Frac		Flow Through Casing	Flow Through Tubing: XX

~~Choke~~ Meter Size, Inches: 4" MR Orifice 2.750		Choke Constant: C: 41.10		Well Tested thru a 3/4" variable choke.	
Shut-In Pressure, Casing, PSIG: 900	+ 12 = PSIA: 912	Days Shut-In: 7	Shut-In Pressure, Tubing PSIG: 451	+ 12 = PSIA: 463	
Flowing Pressure: P PSIG: MR 9 WH 19	+ 12 = PSIA: MR 13 WH 31		Working Pressure: P_w PSIG: 26	+ 12 = PSIA: 38	
Temperature: T= 48 °F Ft=1.0117	n = .75		Fpv (From Tables): 1.004	Gravity: .720 Fg=1.179	

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

Q = Calculated from meter readings = 295 MCF/D

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

$$\text{Aof} = Q\left(\frac{831744}{830300}\right)^n = 295(1.0017)^{.75} = 295(1.0013)$$

Aof = 296 MCF/D

Note: The well produced 37.44 Bbls of 42.1 API gravity oil.

TESTED BY R. Hardy

WITNESSED BY _____

Loren W Fothergill

Loren W. Fothergill
Well Test Engineer