FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE November 29, 1974

Operator: El Paso Natural Gas Company		Lease: Huerfano Unit No. 258	
Location: 990/S, 990/E - Sec 36, T-27-N, R-10-W		County: San Juan	State: New Mexico
Formation: Gallup		Pool: Angel Peak	
Casing: Diameter: 4.500	Set At: Feet: 6153'	Tubing: Diameter: 2.375	Set At: Feet: 6096'
Pay Zone: From: 5734'	To: 6090'	Total Depth: 6150' PBTD 6137'	Shut In: 07-18-74
Stimulation Method: Sand Water Frac		Flow Through Casing	Flow Through Tubing: XX

Choke Size, Inches: Meter 4" MR / Orifice 2.500		Choke Constant: C: Orifice 32.64		Well Tested Thru a 3/4" Variable Choke	
Shut-In Pressure, Casing, PSIG: 752	+ 12 = PSIA: 764	Days Shut-In: 167	Shut-In Pressure, Tubing PSIG: 245	+ 12 = PSIA: 257	
Flowing Pressure: P PSIG: WH 38 / MR 31	+ 12 = PSIA: WH 50	MR 43	Working Pressure: Pw PSIG: 163	+ 12 = PSIA: 175	
Temperature: T= 56 °F	Ft= 1.004	n = .75	Fpv (From Tables): 1.004	Gravity: .720	Fg = 1.179

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

Q = Calculated from Orifice Meter Readings = 411 MCF/D

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

Aof = $\left(\frac{583696}{553071} \right)^n = 411(1.0554)^{.75} = 411(1.0412)$

Aof = 428 MCF/D

Note: The well produced 17.16 bbls of 29 API gravity during the test.

TESTED BY Johnson and Goodwin

WITNESSED BY

Loren W. Fothergill

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Well Test Engineer