FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE April 9, 1975

Operator: El Paso Natural Gas Company		Lease: Shaw #1-A	
Location: 955/N, 1190/w, Sec. 13, T30N, R9W		County: San Juan	State: New Mexico
Formation: Mesa Verde		Pool: Blanco	
Casing: Diameter: 4.500	Set At: Feet: 5209'	Tubing: Diameter: 2.375	Set At: Feet: 5156'
Pay Zone: From: 4296	To: 5159'	Total Depth: PBTD 5209' 5180'	Shut In: 3-27-75
Stimulation Method: Sandwater Frac		Flow Through Casing	Flow Through Tubing: XX

Choke Size, Inches: 4" M.R. Plate: 2.500		Choke Constant: C: 32.64	Well tested thru a 3/4" variable choke
Shut-In Pressure, Casing, PSIG: 602	+ 12 = PSIA: 614	Days Shut-In: 13	Shut-In Pressure, Tubing PSIG: 300 / + 12 = PSIA: 312
Flowing Pressure: P PSIG: WH 161 M.R. 54	+ 12 = PSIA: WH 173 MR 66		Working Pressure: P_w PSIG: 501 / + 12 = PSIA: 513
Temperature: T= 63 °F Ft= 0.9971	n = .75		Fpv (From Tables): 1.017 / Gravity: .668 Fg = 1.224

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

Q = Calculated from orifice meter readings = 2189 MCF/D

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

$$Aof = Q \left(\frac{376996}{113827} \right)^n = 2189(3.3120)^{.75} = 2189(2.4551)$$

Aof = 5373 MCF/D

Note: The well produced 1.04 Bbls of water and 22.88 Bbls of 40.0 API gravity oil. Gas vented to atmosphere during test- 273.97 MCF.

TESTED BY R. Hardy

WITNESSED BY _____

Gary Pink

Well Test Engineer