FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE May 21, 1975

Operator: El Paso Natural Gas Company		Lease: Schumacher #13	
Location: 980/S, 1460/W, Sec. 17, T30N, R10W		County: San Juan	State: New Mexico
Formation: Gallup		Pool: Undesignated	
Casing: Diameter: 4.500	Set At: Feet: 6815'	Tubing: Diameter: 2.375	Set At: Feet: 6768'
Pay Zone: From: 6440	To: 6779	Total Depth: 6815' PBTD 6799	Shut In: 5-7-75
Stimulation Method: Sandwater Frac		Flow Through Casing	Flow Through Tubing: XX

~~Choke~~ Size, Inches: 2.500 Plate 4" MR		Choke Constant: C: 32.64		Tested Through a 3/4" variable choke.	
Shut-In Pressure, Casing, PSIG: 1250	+ 12 = PSIA: 1262	Days Shut-In: 14	Shut-In Pressure, Tubing PSIG: 891	+ 12 = PSIA: 903	
Flowing Pressure: P PSIG: 75 27 MR	+ 12 = PSIA: 87 39 MR		Working Pressure: P_w PSIG: 248	+ 12 = PSIA: 260	
Temperature: T= 75 °F Ft= 1.000	n = .75		Fpv (From Tables): 1.009	Gravity: .650 Fg = .9608	

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

Q = Calculated from orifice meter readings = 720 MCF/D

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

$Aof = Q \left(\frac{1592644}{1525044} \right)^n = 720(1.044)^{.75} = 720(1.033)$

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Aof = 744 MCF/D

Note: Well produced 1'6" water and distillate. The well produced 125 MCF gas during test.

TESTED BY Goodwin- Norton

WITNESSED BY C. R. Wagner

C. R. Wagner

Well Test Engineer