FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE November 9, 1973

Operator: El Paso Natural Gas Company		Lease: San Juan 27-5 Unit #169	
Location: 900/S, 840/W, Sec. 33, T27N, R5W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7653'	Tubing: Diameter: 1 1/2	Set At: Feet: 7582'
Pay Zone: From: 7398	To: 7582	Total Depth: 7653	Shut In: 10-16-73
Stimulation Method: Sandwater Frac		Flow Through Casing: XX	Flow Through Tubing:

~~Choke~~ Size, Inches: 2.500" Plate; 4" Meter run	~~Choke~~ Plate Constant: C: 32.64	Tested through a 3/4" Variable choke.	
Shut-In Pressure, Casing, PSIG: 2539	+ 12 = PSIA: 2551 / Days Shut-In: 24	Shut-In Pressure, Tubing PSIG: 1295	+ 12 = PSIA: 1307
Flowing Pressure: P PSIG: 53 Meter; 195 Wellhead	+ 12 = PSIA: 65 meter; 207 wellhead	Working Pressure: P_w PSIG: 539	+ 12 = PSIA: 551
Temperature: T= 72°F Ft= .9887	n = .75	Fpv (From Tables): 1.008	Gravity: .655 Fg = 1.236

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

Q = Calculated from orifice meter readings = 2269 MCF/D

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

$Aof = Q \left(\frac{6507601}{6204000} \right)^n = (2269)(1.0489)^{.75} = (2269)(1.0365)$

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Aof = 2352 MCF/D

Note: The well produced 12.3 bbls of 54.9° API Gravity Oil and 60.4 bbls of water during the test.

TESTED BY Don Norton

WITNESSED BY _____

H. E. McAnally
Well Test Engineer