FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE July 16, 1975

Operator: El Paso Natural Gas Company		Lease: San Juan 28-7 Unit #239	
Location: 2080'S, 950'W, Sec. 17, T28N, R7W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7844'	Tubing: Diameter: 1.900	Set At: Feet: 7813'
Pay Zone: From: 7630	To: 7830'	Total Depth: 7844' PBTD 7831'	Shut In: 6-26-75
Stimulation Method: Sandwater Frac		Flow Through Casing: XX	Flow Through Tubing:

~~Choke~~ Plate Size, Inches: 4" M.R., 2.500" Plate	~~Choke~~ Plate Constant: C: 32.64		Tested through a 3/4" variable choke
Shut-In Pressure, Casing, PSIG: 2448	+ 12 = PSIA: 2460 — Days Shut-In: 20	Shut-In Pressure, Tubing PSIG: 1668	+ 12 = PSIA: 1680
Flowing Pressure: P PSIG: 244 W.H., 64 M.R.	+ 12 = PSIA: 256 W.H., 76 M.R.	Working Pressure: P_w PSIG: 534	+ 12 = PSIA: 546
Temperature: T= 49 °F Ft= 1.011	n = 0.750	Fpv (From Tables): 1.010	Gravity: .650 Fg = 1.024

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

Q = Calculated from orifice meter readings = 2502 MCF/D

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

$$Aof = Q \left(\frac{6051600}{5753484} \right)^n = (2502)(1.0518)^{.75} = (2502)(1.0386)$$

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Aof = 2599 MCF/D

Note: The well produced 11.33 bbls 47.6° API gravity oil and 18.54 Bbls water during the test. The well produced 444 MCF gas during the test.

TESTED BY R. E. Hardy and C. W. Dein

WITNESSED BY

H. E. McAnally
Well Test Engineer