FORM 23-M (11-60)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE March 21, 1975

Operator: El Paso Natural Gas Company		Lease: Huerfano Unit #248	
Location: 1465/N, 865/W, Sec. 5, T26N, R9W		County: San Juan	State: New Mexico
Formation: Gallup		Pool: Angels Peak Ext.	
Casing: Diameter: 4.500	Set At: Feet: 6174'	Tubing: Diameter: 2.375	Set At: Feet: 6111'
Pay Zone: From: 5842'	To: 6108'	Total Depth: 6174' PBTD 6159'	Shut In: 3-11-75
Stimulation Method: Sandwater Frac		Flow Through Casing	Flow Through Tubing: XX

Choke Size, Inches: 2.750" Plate, 4" M.R.	Choke Constant: C: 41.10		Tested through a 3/4" variable choke.
Shut-In Pressure, Casing, PSIG: 650	+ 12 = PSIA: 662	Days Shut-In: 10	Shut-In Pressure, Tubing PSIG: Dead / + 12 = PSIA
Flowing Pressure: P PSIG: 22 W.H.; 4 M.R.	+ 12 = PSIA: 34 W.H., 16 M.R.		Working Pressure: P_w PSIG: 244 / + 12 = PSIA: 256
Temperature: T= 60 °F Ft= 1.0000	n = 0.75		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 = 145 MCF/D

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

$$Aof = Q\left(\frac{438244}{372708}\right)^n = 145(1.1758)^{.75} = 145(1.1292)$$

RECEIVED MAR 25 1975 OIL CON. COM. DIST. 3

Aof = 164 MCF/D

Note: The well produced 19.29 Bbls. of 49.6 gravity oil and 3.16 Bbls of water during the test. Produced 20.5 MCF of gas during the test.

TESTED BY Carl Rhames

WITNESSED BY

A. E. McCauley

Well Test Engineer