FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE June 13, 1975

Operator: El Paso Natural Gas Company		Lease: Grambling C #3A	
Location: 900'/S, 1535'/E, Sec. 12, T30N, R10W		County: San Juan	State: New Mexico
Formation: Mesa Verde		Pool: Blanco	
Casing: Diameter: 4.500	Set At: Feet: 5693'	Tubing: Diameter: 2.375	Set At: Feet: 5624'
Pay Zone: From: 4693'	To: 5641'	Total Depth: 5693'	Shut In: 6-6-75
Stimulation Method: Sandwater Frac		Flow Through Casing	Flow Through Tubing: XX

~~Choke~~ Plate Size, Inches: 2.500" Plate, 4" M.R.	Choke Constant: C: 32.64		Tested through a 3/4" variable choke.		
Shut-In Pressure, Casing, PSIG: 728	+ 12 = PSIA: 740	Days Shut-In: 7	Shut-In Pressure, Tubing PSIG: 625	+ 12 = PSIA: 637	
Flowing Pressure: P PSIG: 80 M.R.; 224 W.H.	+ 12 = PSIA: 92 M.R.; 236 W.H		Working Pressure: P_w PSIG: 625	+ 12 = PSIA: 637	
Temperature: T= 54 °F Ft=1.006	n = 0.75		Fpv (From Tables): 1.009	Gravity: .670 Fg=1.222	

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

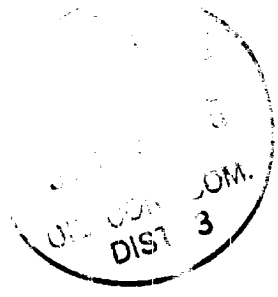
Q = Calculated from orifice meter readings = 2851 MCF/D

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

Aof = $Q \left(\frac{547600}{141831} \right)^n = 2851(3.8609)^{.75} = 2851(2.7544)$

Aof = 7853 MCF/D

Note: The well produced dry gas throughout the test. The well produced 383 MCF gas during the test.



TESTED BY C. Rhames & Watson

WITNESSED BY

Jerry W. Brink