

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 21, 1975

Operator El Paso Natural Gas Company		Lease Florance B #1-A	
Location 1460'N, 940'W, Sec. 20, T30N, R9W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5429'	Tubing: Diameter 2.375	Set At: Feet 5388'
Pay Zone: From 4438'	To 5406'	Total Depth: PBT 5429' 5412'	Shut In 5-9-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 2.500 4" MTR		Choke Constant: C 32.64		Tested through a 3/4" variable choke.	
Shut-In Pressure, Casing, PSIG 653	+ 12 = PSIA 665	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 350	+ 12 = PSIA 362	
Flowing Pressure: P PSIG 119 W.H. 62 MTR	+ 12 = PSIA 131 W.H. 74 MTR	Working Pressure: P _w PSIG 530	+ 12 = PSIA 542		
Temperature: T = 58 °F Ft = 1.009	n = .75	F _{pv} (From Tables) 1.014	Gravity .670	F _g = .9463	

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings.} = \underline{1633} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{442225}{148461} \right)^n = 1633(2.9787)^{.75} = 1633(2.2674)$$

$$Aof = \underline{3703} \text{ MCF/D}$$

Note: The well produced 11" of oil to the tank. The well produced 249 MCF gas during the test.

TESTED BY Johnson-Watson

WITNESSED BY _____

C.R. Johnson
Well Test Engineer

