

**EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA**

DATE 9-23-75

Operator El Paso Natural Gas Company		Lease Riddle A #1-A	
Location 885/N, 1460/W, Sec. 15, T30N, R9W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5790'	Tubing: Diameter 2.375	Set At: Feet 5756'
Pay Zone: From 4830'	To 5761'	Total Depth: PBT 5790'	Shut In 9-14-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Plate Choke Size, Inches 2.500 4" M.R.	Plate Choke Constant: C 32.64	Tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 549	+ 12 = PSIA 561	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 547
Flowing Pressure: P PSIG W.H. 162 M.R. 53	+ 12 = PSIA W.H. 174 M.R. 65	Working Pressure: P _w PSIG 512	+ 12 = PSIA 524
Temperature: T = 50 °F F _t = 1.010	n = .75	F _p (From Tables) 1.010	Gravity .675 F _g = 1.217

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

$$Q = \text{Calculated from orifice meter readings} = \underline{2173} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{314721}{40145} \right)^n = 2173(7.840)^{.75} = 2173(4.685)$$

$$Aof = \underline{10,181} \text{ MCF/D}$$

Note: During test well produced 4 Bbls of 39° API gravity oil and .83 Bbls of water. Gas vented to atmosphere 271.48 MCF.

TESTED BY C. R. Wagner & Hardy

WITNESSED BY _____

C. R. Wagner
Well Test Engineer

