

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE March 27, 1975

Operator El Paso Natural Gas Company		Lease Pinon Mesa #4	
Location 850/S, 1690/W, Sec. 14, T31N, R14W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 3831'	Tubing: Diameter 2.375	Set At: Feet 3663'
Pay Zone: From 3578	To 3679	Total Depth: PBD 3831'	Shut In 3-19-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Plate Choke Size, Inches 2.500" Plate, 4" M.R.		Plate Choke Constant: C 32.64		Tested through a 3/4" variable choke.	
Shut-In Pressure, Casing, PSIG 750	+ 12 = PSIA 762	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 433	+ 12 = PSIA 445	
Flowing Pressure: P PSIG 3 W.H., 1 M.R.	+ 12 = PSIA 15 W.H., 13 M.R.		Working Pressure: P _w PSIG 42	+ 12 = PSIA 54	
Temperature: T = 44 °F	n = 0.75		F _{pv} (From Tables) 1.005	Gravity .650	F _g = 1.2403

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

$$Q = \text{Calculated from orifice meter readings} = \underline{\quad 149 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{580664}{578880} \right)^n = 149(1.0030)^{.75} = 149(1.0023)$$

$$Aof = \underline{\quad 149 \quad} \text{ MCF/D}$$

Note: The well produced 6 Bbls. of 57.3° API oil and 2 Bbls. of water during the test.

TESTED BY Roger HardyWITNESSED BY Gary Brink

Loren W. Fothergill
Well Test Engineer

