

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 6, 1975

Operator El Paso Natural Gas Company		Lease Burroughs Com H #10	
Location 1180/N, 850/W, Sec. 36, T26N, R9W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6638'	Tubing: Diameter 2.375	Set At: Feet 6543'
Pay Zone: From 6342'	To 6546'	Total Depth: PBTD 6638 6618	Shut In 12-15-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4" M.R., 2.500 Plate		Plate Choke Constant: C 33.29		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 2015	+ 12 = PSIA 2027	Days Shut-In 22	Shut-In Pressure, Tubing PSIG 1517	+ 12 = PSIA 1529	
Flowing Pressure: P PSIG 200 W.H. 66 M.R.	+ 12 = PSIA 212 W.H., 78 M.R.		Working Pressure: P _w PSIG 555	+ 12 = PSIA 567	
Temperature: T = 67 °F	n = Ft = 0.9933 .75		F _{pv} (From Tables) 1.011	Gravity .710	F_g = 1.1868

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

$$Q = \text{Calculated from orifice meter readings} = \underline{2590} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{4018729}{3787240} \right)^n = 2590(1.0849)^{.75} = 2590(1.0630)$$

$$Aof = \underline{2753} \text{ MCF/D}$$

Note: The well produced 8.24 bbls of 58.5 API gravity oil during the test.

TESTED BY R. Hardy, J. B. Goodwin

WITNESSED BY _____

Loren W. Fothergill
Well Test Engineer