

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 4, 1975

Operator El Paso Natural Gas Company		Lease Mansfield #1-A	
Location 1700'N, 900'W, Sec. 29, T30N, R9W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5418'	Tubing: Diameter 2.375	Set At: Feet 5386'
Pay Zone: From 5033	To 5381	Total Depth: PBD 5418 5400	Shut In 5-22-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XXX

Plate Choke Size, Inches 2.500 4" M.R.		Plate Choke Constant: C 32.64		Well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 699	+ 12 = PSIA 711	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 498	+ 12 = PSIA 510	
Flowing Pressure: P PSIG 42 M.R. 180 W.H.	+ 12 = PSIA 54 M.R. 192 W.H.		Working Pressure: Pw PSIG 540	+ 12 = PSIA 552	
Temperature: T = 60 °F Ft = 1.000	n = .75		Fpv (From Tables) 1.004	Gravity .666	Fg = 1.225

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

$$Q = \text{Calculated from orifice meter readings} = \underline{2123} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{505521}{200817} \right)^n = 2123(2.5173)^{.75} = 2123(1.9985)$$

$$Aof = \underline{4243} \text{ MCF/D}$$

Note: Well made 15.45 Bbls of water and 11.33 Bbls of 37.4° API gravity oil. Gas vented to atmosphere 236.29 MCF.

TESTED BY R. Hardy

WITNESSED BY _____

Long W. Bank
Well Test Engineer

