

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-18-75

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #243	
Location 1180/S, 1465/W, Sec. 31, T28N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7315'	Tubing: Diameter 1.900	Set At: Feet 7229'
Pay Zone: From 7000	To 7225'	Total Depth: PBTD 7315' 7307'	Shut In 7-10-75
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Plate Choke Size, Inches 2.750" Plate, 4" M.R.		Plate Choke Constant: C 41.10		Well tested through 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 2417	+ 12 = PSIA 2429	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2417	+ 12 = PSIA 2429	
Flowing Pressure: P PSIG 76 M.R. , 210 W.H.	+ 12 = PSIA 88 M.R. 222 W.H.		Working Pressure: P _w PSIG 475	+ 12 = PSIA 487	
Temperature: T= 58 °F	n = Ft= 1.002 0.75		F _{pv} (From Tables) 1.007	Gravity .633	F_g=1.257

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

$$Q = \text{Calculated from orifice meter readings} = \underline{\hspace{2cm}} 2447 \underline{\hspace{2cm}} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{5900041}{5662872} \right)^n = (2447)(1.0419)^{.75} = (2447)(1.0313)$$

$$Aof = \underline{\hspace{2cm}} 2524 \underline{\hspace{2cm}} \text{ MCF/D}$$

Note: The well produced 8.24 Bbls. of water and 9.27 Bbls of 45.2° API gravity oil during the test. The well produced 437 MCF gas during the test.

TESTED BY R. Hardy

WITNESSED BY _____

Charles W. Hardy
Well Test Engineer

