

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 9, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #182	
Location 990/N, 1180/E, Sec. 3, T27N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7333'	Tubing: Diameter 1 1/2	Set At: Feet 7266'
Pay Zone: From 7030	To 7286	Total Depth: 7333	Shut In 12-24-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2584	+ 12 = PSIA 2596	Days Shut-In 16	Shut-In Pressure, Tubing PSIG 2183	+ 12 = PSIA 2195	
Flowing Pressure: P PSIG 133	+ 12 = PSIA 145	Working Pressure: P _w PSIG 607	+ 12 = PSIA 619		
Temperature: T = 68 °F	n = .75	F _{pv} (From Tables) 1.018	Gravity .650	F _g = 9608	

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

$$Q = 12.365 (145) (.9924) (.9608) (1.018) = 1740 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{6739216}{6356055} \right)^n = 1740 (1.0603)^{.75} = 1740 (1.0449)$$

$$Aof = 1818 \text{ MCF/D}$$

Note: Medium mist of water and drip.

TESTED BY Fothergill

WITNESSED BY

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Well Test Engineer

