

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE January 14, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #181	
Location 1180/S, 820/W, Sec. 3, T27N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7866'	Tubing: Diameter 1.900	Set At: Feet 7828'
Pay Zone: From 7620	To 7828	Total Depth: 7866	Shut In 1-3-74
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 2603	PSIG	+ 12 = PSIA 2615	Days Shut-In 11	Shut-In Pressure, Tubing 1233	PSIG
Flowing Pressure: P 151	PSIG	+ 12 = PSIA 163		Working Pressure: P _w 529	PSIG
Temperature: T = 66 °F		n = F _t = .9943		F _{pv} (From Tables) 1.015	Gravity .650
					F _g = .9608

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

$$Q = 12.365(163)(.9943)(.9608)(1.015) = \underline{\hspace{2cm}} 1954 \text{ MCF/D}$$

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

$$A_{of} = Q \left(\frac{6838225}{6545544} \right)^n = 1954 (1.0447)^{.75} = 1954(1.0334)$$

$$A_{of} = \underline{\hspace{2cm}} 2020 \text{ MCF/D}$$

Note: Well produced medium mist of water and distillate throughout test.

TESTED BY Rhames

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

