

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE April 26, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 28-6 Unit No. 171	
Location 1825 N - 1840 E Sec. 24-27-6W		County Rio Arriba	State N. M.
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7561	Tubing: Diameter 1.900	Set At: Feet 7496
Pay Zone: From 7288	To 7524	Total Depth: 7561	Shut In 4-17-72
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2679	+ 12 = PSIA 2691	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 1675	+ 12 = PSIA 1687	
Flowing Pressure: P PSIG 432	+ 12 = PSIA 444		Working Pressure: P _w PSIG 750	+ 12 = PSIA 772	
Temperature: T=82 °F F _t =.9795	n = .750		F _{pv} (From Tables) 1.034	Gravity .620 F _g =.9837	

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

$$Q = 12.365 \times 444 \times .9795 \times .9837 \times 1.034 = 5470 \text{ MCF/D}$$

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

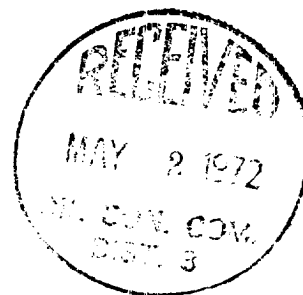
NOTE: The well produced a heavy fog of water and hydrocarbons throughout the test.

$$Aof = \left(\frac{7241481}{6645497} \right)^n = (5470)(1.0897)^{.75} = (5470)(1.0665) =$$

$$Aof = 5833 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY



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