

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE April 24, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 27-5 Unit No. 140	
Location 890N - 850 E Sec. 29-27N-5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7667	Tubing: Diameter 1.900	Set At: Feet 7630
Pay Zone: From 7440	To 7648	Total Depth: 7667	Shut In 4-15-72
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 2592	+ 12 = PSIA 2604	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2376	+ 12 = PSIA 2388	
Flowing Pressure: P PSIG 262	+ 12 = PSIA 274		Working Pressure: P _w PSIG 513	+ 12 = PSIA 525	
Temperature: T = 74 °F	F _t = 0.9868	n = .75	F _{pv} (From Tables) 1.025	Gravity .655	F _g = 0.9571

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

$$Q = (12.365)(274)(0.9868)(.9571)(1.025) = \underline{3280} \text{ MCF/D}$$

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

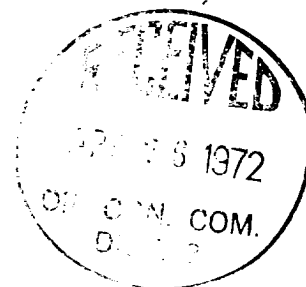
NOTE: The well produced a light mist of water throughout the test.

$$Aof = \left(\frac{6780816}{6505191} \right)^n = (3280)(1.0424)^{.75} = (3280)(1.0316)$$

$$Aof = \underline{3383} \text{ MCF/D}$$

TESTED BY BJB

WITNESSED BY _____



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