

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

RETEST

DATE July 20, 1972

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 144	
Location 1650/S, 1840/W, Sec. 35 T 27N, R 5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7814	Tubing: Diameter 1.900	Set At: Feet 7760
Pay Zone: From 7586	To 7792	Total Depth: 7814	Shut In 7-10-72
Stimulation Method S.W.F.		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2569	+ 12 = PSIA 2581	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 2143	+ 12 = PSIA 2155	
Flowing Pressure: P PSIG 143	+ 12 = PSIA 155		Working Pressure: P _w PSIG 368	+ 12 = PSIA 380	
Temperature: T = 60°F	n = .75		F _{pv} (From Tables) 1.014	Gravity .655	F _g = .9571

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

$$Q = (12.365)(155)(1.000)(.9571)(1.014) = 1860 \text{ MCF/D}$$

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

NOTE: Well produced light mist of distillate throughout the test.

$$Aof = \left(\frac{6661561}{6517161} \right)^n = (1860)(1.0222)^{.75} = (1860)(1.0166)$$

$$Aof = 1891 \text{ MCF/D}$$

TESTED BY C. Rhames

WITNESSED BY



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