

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 7-13-71

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 159	
Location 1750' N, 1460' E, S 22, T28N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7992	Tubing: Diameter 1.990	Set At: Feet 7912
Pay Zone: From 7754	To 7922	Total Depth: 7993	Shut In 7-3-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2224	+ 12 = PSIA 2236	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 1726	+ 12 = PSIA 1738	
Flowing Pressure: P PSIG 281	+ 12 = PSIA 293		Working Pressure: Pw PSIG 462	+ 12 = PSIA 474	
Temperature: T = 71 °F	Ft = .9896	n = .75	Fpv (From Tables) 1.027	Gravity .650	Fg = .9608

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

$$Q = 12.365 \times 293 \times .9896 \times .9608 \times 1.027 = \underline{3538} \text{ MCF/D}$$

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

Note: Well blew light mist of water throughout test

$$Aof = \left(\frac{4999696}{4775020} \right)^n = 3538(1.0470)^{.75} = 3538(1.0350)$$

$$Aof = \underline{3662} \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY _____



H. E. McNally
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