

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 5-11-70

Operator El Paso Natural Gas Co.		Lease San Juan 28-6 Unit No. 150	
Location 1160N, 1750E, S35, T28N, R6W		County RA	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7844	Tubing: Diameter 1.900	Set At: Feet 7783
Pay Zone: From 7602	To 7804	Total Depth: 7844	Shut In 4-30-70
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2507	+ 12 = PSIA 2599	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 2402	+ 12 = PSIA 2414	
Flowing Pressure: P PSIG 306	+ 12 = PSIA 398		Working Pressure: Pw PSIG 606	+ 12 = PSIA 618	
Temperature: T = 72 °F	Ft = .9887	n = .75	Fpv (From Tables) 1.040	Gravity .670	Fg = .9463

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

$$Q = 12.365 \times 398 \times .9887 \times .9463 \times 1.040 = 4789 \text{ MCF/D}$$

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

Note: Blew clear gas throughout test.

$$Aof = \left(\frac{6754801}{6372877} \right)^n = (4789)(1.0599)^{.75} = (4789)(1.0446)$$

$$Aof = 5003 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY

RECEIVED
MAY 14 1970
OIL CON. COM.
DIST. 3

H. L. Kendrick
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