

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 26, 1961

Operator El Paso Natural Gas Company		Lease Ludrick No. 20	
Location 1460'S, 1600'W, Sec. 29-30N-10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4-1/2	Set At: Feet 7184	Tubing: Diameter 2-3/8	Set At: Feet 7119
Pay Zone: From 6910	To 7142	Total Depth: 7186	shut-in 10-16-61
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 2186	12 = PSIA 2198	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 2180
Flowing Pressure: P PSIG 415	12 = PSIA 427		Working Pressure: P _w PSIG 1136
Temperature: T 82 °F	n =	F _{pv} (From Tables) 1.040	Gravity 1148
F_t = .9795	.75	Est. .670	F_g = .9463

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

$$Q = (12.365)(427)(.9795)(.9463)(1.040)$$

5090 MCF/D

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

$$Aof = \left(\frac{4,831,204}{3,513,300} \right)^n = (1.3751)^{.75} (5090) = (1.2700)(5090)$$

Aof = 6464 MCF D

NOTE: Blew medium fog of liquid with intermittent slugs throughout test.

TESTED BY D. E. Mortensen

WITNESSED BY _____

Checked by: W. D. Dawson

H. L. Kendrick
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