

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 30, 1969

Operator El Paso Natural Gas		Lease Riddle A No. 9	
Location 1150'S; 800'W; S-24; T-30N; R-9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2557	Tubing: Diameter No tubing	Set At: Feet ----
Pay Zone: From 2484	To 2504	Total Depth: 2590	Shut In 6-16-69
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, PSIG 889	+ 12 = PSIA 901	Days Shut-In 14	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ----	
Flowing Pressure: P 160 PSIG	+ 12 = PSIA 172		Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 176	
Temperature: T = 64 °F	n = .85		Fpv (From Tables) 1.019	Gravity .670	Fg = .9463

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

$$Q = (12.365)(172)(.9962)(.9463)(1.019) = \underline{2043} \text{ MCF/D}$$

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

$$Aof = \left(\frac{811801}{780825} \right)^n = 2043 (1.0396)^{.85} = 1.0336 (2043)$$

Note: Dry gas

$$Aof = \underline{2112} \text{ MCF/D}$$

TESTED BY RFH & RF

Calculated
WITNESSED BY RF & RES


ER Feedrich