

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE July 2, 1969

Operator El Paso Natural Gas		Lease San Juan 28-5 Unit No. 80	
Location 1700'N; 1500'E; S-26; T-28N: R-5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8621	Tubing: Diameter 1.660	Set At: Feet 8528
Pay Zone: From 8340	To 8535	Total Depth: 8621	Shut In 6-24-69
Stimulation Method Sand Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2576	+ 12 = PSIA 2588	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2558	+ 12 = PSIA 2570	
Flowing Pressure: P PSIG 161	+ 12 = PSIA 173		Working Pressure: P <sub>w</sub> PSIG 398	+ 12 = PSIA 410	
Temperature: T = 66 °F	F <sub>t</sub> = .9943	n = .75	F <sub>pv</sub> (From Tables) 1.014	Gravity .600	F <sub>g</sub> = 1.000

CHOKE VOLUME = Q = C x P<sub>i</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

Q = (12.365)(173)(.9943)(1.000)(1.014) = 2157 MCF/D

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

Aof =  $\left( \frac{6697744}{6529644} \right)^n = (1.0257)^{.75} 2157 = 1.0191 (2157)$

Note: Blew light fog of water and distillate.

Aof = 2198 MCF/D



TESTED BY BJB  
Calculated  
WITNESSED BY RF & RES

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