

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE December 27, 1960

Operator El Paso Natural Gas Company		Lease San Juan 27-5 No. 54(PC)	
Location 1700'S, 800'W, Sec. 31-27N-5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool South Blanco PC	
Casing: Diameter 7-5/8	Set At: Feet 3369	Tubing: Diameter 1-1/4	Set At: Feet 3229
Perforations: From 3160	To 3256	Total Depth: 5550 C/O 5515	Shut In 11-25-60
Stimulation Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365		Guiberson "Shorty" Pkr. at 3392	
Shut-In Pressure, Casing, (PC) 1036	PSIG ± 12 PSIA 1048	Days Shut-In 32	Shut-In Pressure, Tubing (PC) 1039	PSIG ± 12 PSIA 1051	
Flowing Pressure: P 246	PSIG ± 12 PSIA 258		Working Pressure: Pw 269	PSIG ± 12 PSIA 281	
Temperature: T 60 F	Fv 1.0000		Fpv (From Tables) 1.025	Gravity .651	Fg .9608

Initial SIPT (MV) = 1079 psig

Final SIPT (MV) = 1083 psig

CHOKE VOLUME $Q = C \times P_c \times F_v \times F_g \times F_{pv}$

$$Q = (12.365)(258)(1.0000)(.9608)(1.025)$$

3142

MCF/D

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

$$A_{of} = \left(\frac{1,104,601}{1,025,640} \right)^n \quad (1.0769)^{.85} (3142) = (1.0650)(3142)$$

Aof **3346**

MCF/D

TESTED BY **D. E. Mortenson**

WITNESSED BY

Calculated by **W. D. Dawson**

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