

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADUAL COMPLETIONDATE December 5, 1957

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 77 (M)	
Location 1660'S, 1750'W, Sec. 2-27-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3434	Tubing: Diameter 2"	Set At: Feet 5495
Pay Zone: From 4892	To 5520	Total Depth: 5645	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12,365		5-1/2" liner - 3352 - 5635	
Shut-In Pressure, Casing, PSIG 1035 PC	- 12 = PSIA 1047	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 942 MV	+ 12 = PSIA 954	
Flowing Pressure: P PSIG 247	+ 12 = PSIA 259		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 516	
Temperature: T °F 62	n = .750		Fpv (From Tables) 1.028	Gravity .680	

Final SIPC (PC) - 1042 psig. Packer at 3377. Sleeve at 3314

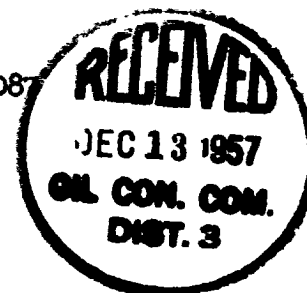
CHOKE VOLUME = $Q = C \times P_i \times F_i \times F_g \times F_{pv}$

$$Q = 12.365 \times 259 \times .9981 \times .9393 \times 1.028 = \underline{3087} \text{ MCF/D}$$

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

$$Aof = \left(\frac{910,116}{643,860} \right)^n = 1.4135^{.75} \times 3087 = 1.2960 \times 3087$$

$$Aof = \underline{4001} \text{ MCF/D}$$

TESTED BY R. R. Davis

WITNESSED BY _____

cc: E. S. Oberly (6)

Heavy fog for 15 minutes. Light fog remainder of the test.

L. D. Galloway