

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **February 12, 1959**

Operator El Paso Natural Gas		Lease Huerfano No. 107 (B)	
Location 1460N, 1180W; 35-27-10		County San Juan	State New Mexico
Formation Dakota		Post Angel Peak Dakota	
Casing: Diameter 7-5/8	Set At: Feet 6424	Tubing: Diameter 2"	Set At: Feet 6980
Pay Zone: From 6934	To 7007	Total Depth 7017 c/o 7013	Shut in 1/31/59
Stimulation Method: Sand-Oil Frac.		Flow Through Tubing X	

Choke Size, Inches .75		Choke Constant 12.365	
Shut-in Pressure, Casing (G) 1177	PSIG - 12 PSIA 1189	Shut-in Pressure, Tubing (D) 1845	PSIG - 12 PSIA 1857
Flowing Pressure, Casing 496	PSIG - 12 PSIA 508	Working Pressure, Tubing Calc. 1114	PSIG - 12 PSIA 1114
Temperature, Casing 70	°F - 12 °F .75	Flow Through Tubing 1.066	Gravity .735

Initial SIPT (G) = 1173 psig
Final SIPC (G) = 1181 psig

Packer at 6345
Light spray of oil throughout test.

CHOKE VOLUME $Q = C \times P_r \times F_1 \times F_2 \times F_{pv}$

$$Q = 12.365 \times 508 \times .9905 \times .9035 \times 1.066$$

5,992 MCF/D

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

$$Aof = \left(\frac{3,448,449}{2,207,453} \right)^n$$

$$1.5621^{.75} \times 5992 = 1.3978 \times 5992$$

Aof **8,376** MCF/DTESTED BY **S.V. Roberts, M.W. Rischard and R.R. Davis**

WITNESSED BY

*Approved 2-18-59
Kenny C. [Signature]
N.A.C.C.*

Lewis D. Galloway
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