

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE March 20, 1959

Operator El Paso Natural Gas		Lease Buerfano No. 106 (D)	
Location 15628, 1830E; 33-27-10		County San Juan	State New Mexico
Formation Dakota		Pool Undesignated	
Casing: Diameter 7-5/8	Set At: Feet 5873	Tubing: Diameter 2"	Set At: Feet 6460
Pay Zone: From 6409	To 6485	Total Depth: 6587 o/e 6520	Shut in 3/5/59
Stimulation Method Sand Oil Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		5-1/2 liner 5822 - 6586	
Shut-In Pressure, Casing, PSIG (G) 1123	- 12 = PSIA 1135	Days Shut-In 15	Shut-In Pressure, Tubing, PSIG (D) 1968	- 12 = PSIA 1980	
Flowing Pressure: P 230	- 12 = PSIA		Working Pressure: P _w Calc.	- 12 = PSIA 501	
Temperature: T 75	n =		F _{pv} (From Tables) 1.029	Gravity .740	

Initial SIPT (G) = 1122 psig

Final SIPT (G) = 1132 psig

Packer at 5795

CHOKE VOLUME = Q = C × P_i × F_i × F_g × F_{pv}

$$Q = 12.365 \times 242 \times .9859 \times .9005 \times 1.029 = 2733 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{3920400}{3669399} \right)^n = 1.0684^{.75} \times 2733 = 1.0508 \times 2733$$

$$A_{of} = 2872 \text{ MCF/D}$$

TESTED BY R. R. Davis

WITNESSED BY _____



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by H.H.

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