

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8-11-71

Operator El Paso Natural Gas Company		Lease Hancock No. 10	
Location 1830' S, 830' E, S 29, T28N, R9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2618	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2516	To 2550	Total Depth: 2626	Shut In 8-4-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, 654	PSIG	+ 12 = PSIA 666	Days Shut-In 7	Shut-In Pressure, Tubing no tubing	PSIG + 12 = PSIA
Flowing Pressure: P 146	PSIG	+ 12 = PSIA 158		Working Pressure: P _w calculated	PSIG + 12 = PSIA 193
Temperature: T = 67 °F	F _t = .9933	n = .85		F _{pv} (From Tables) 1.014	Gravity .645 F _g = .9645

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = 12.365 \times 158 \times .9933 \times .9645 \times 1.014 = 1898 \text{ MCF/D}$$

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

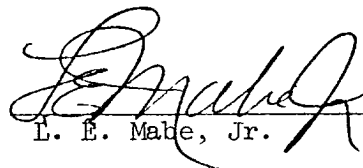
Note: Well blew light spray of water throughout test.

$$Aof = \left(\frac{443556}{406307} \right)^n = 1898(1.0916)^{.85} = 1898(1.0773)$$

$$Aof = 2045 \text{ MCF/D}$$

TESTED BY D. R. Roberts

WITNESSED BY


L. E. Mabe, Jr.
