

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 22, 1973

Operator El Paso Natural Gas Company		Lease Atlantic "C" No. 13	
Location 1180'S, 1700'W, Section 35, T31N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing: Diameter 2-7/8	Set At: Feet 3259	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3157	To 3200	Total Depth: 3259	Shut In 6/6/73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, 910	PSIG	+ 12 = PSIA 922	Days Shut-In 16	Shut-In Pressure, Tubing No Tubing	PSIG + 12 = PSIA
Flowing Pressure: P 288	PSIG	+ 12 = PSIA 300		Working Pressure: P _w Calculated	PSIG + 12 = PSIA 383
Temperature: T = 69 °F	F _t = .9915	n = .85		F _{pv} (From Tables) 1.026	Gravity .635 F _g = .9721

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

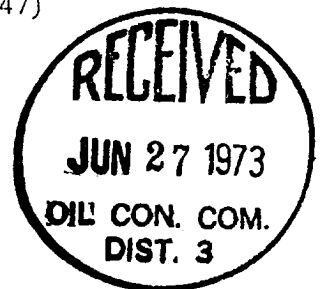
$$Q = (12.365)(300)(.9915)(.9721)(1.026) = 3668 \text{ MCF/D}$$

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

NOTE: Well blew dry gas.

$$Aof = Q \left(\frac{850084}{703395} \right)^n = 3668 (1.2085)^{.85} = 3668 (1.1747)$$

$$Aof = 4309 \text{ MCF/D}$$



TESTED BY T. D. Norton

WITNESSED BY

William D. Welch
William D. Welch, Well Test Engineer