

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 31, 1973

Operator El Paso Natural Gas Company		Lease Atlantic C No. 7	
Location 990'N, 900'E, Section 6, T30N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2924	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2776	To 2848	Total Depth: 2924	Shut In 5-24-73
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, PSIG 942	+ 12 = PSIA 954	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 104	+ 12 = PSIA 116		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 144	
Temperature: T = 63 °F	F _t = .9971	n = .85	F _{pv} (From Tables) 1.010	Gravity .635	F _g = .9721

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

$$Q = 12.365 \times 116 \times .9971 \times .9721 \times 1.010 = 1404 \text{ MCF/D}$$

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

NOTE: Blew clear gas for entire test.

$$Aof = Q \left(\frac{910116}{889380} \right)^{.85} = (1.404) (1.0233)^{.85} = (1404) (1.0198)$$

$$Aof = 1431 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY



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