

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 6, 1965

Operator El Paso Natural Gas Company		Lease Fields No. 2 (OWWO)	
Location 114015, 168015, Section 25, T-32-N, R-11-W		County San Juan	State New Mexico
Formation Blanco Verde		Pool Blanco	
Casing Diameter 4.500	Set At: Feet 5481	Tubing Diameter 2.375	Set At: Feet 5410
Pay Zone: From 1944	To 5448	Total Depth: 5483	Shut In 7-29-65
Stimulation Method Salt Water Trace		Flow Through Casing	Flow Through Tubing X

Choke Size, inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 944	PSIG	+ 12 = PSIA 956	Days Shut-In 7	Shut-In Pressure, Tubing 944	PSIG
				+ 12 = PSIA 956	
Flowing Pressure: P 260	PSIG	+ 12 = PSIA 272		Working Pressure: P _w 770	PSIG
				+ 12 = PSIA 782	
Temperature: T = 73 °F		n = .75		Fpv (From Tables) 1.027	Gravity .644
F _t = .9877					F _g = .9682

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

$$Q = (12.365) (272) (.9877) (.9682) (1.027) = 3303 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{913,936}{302,412} \right)^n = (3303) (3.022)^{.75} = (3303) (2.2921) = 7571 \text{ MCF/D}$$

$$A_{of} = 7571 \text{ MCF/D}$$

NOTE: Well produced a heavy fog of distillate and water after 5 minutes decreasing to a light fog by the end of the test.

TESTED BY Don Norton
CHECKED BY H. E. McAnally
WATKINSON

Lewis D. Galloway
Lewis D. Galloway

