

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

FINAL COMPLETION

DATE December 29, 1964

Operator El Paso Natural Gas Company		Lease San Juan Unit 29-5 No. 32 (DK) (OLEO)	
Location N 29 S, 1500 W, Section 29, T-29-N, R-5-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 5.000	Set At: Feet 8029	Tubing: Diameter 2.375	Set At: Feet 7446
Pay Zone: From 7775	To 7872	Total Depth: 8032	Shut In 12-10-64
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		Halliburton Type "C" Packer set at 7473 ft.	
Shut-In Pressure, Casing, (MV) 975	PSIG	+ 12 = PSIA 987	Days Shut-In 19	Shut-In Pressure, Tubing (DK) 1953	PSIG
					+ 12 = PSIA 1965
Flowing Pressure: P 205	PSIG	+ 12 = PSIA 217		Working Pressure: Pw (Calc)	PSIG
					+ 12 = PSIA 485
Temperature: T = 65 °F	Ft = .9952	n = .75		Fpv (From Tables) 1.017	Gravity .601 Fg = 1.0000

ISIPT (MV) = 958 psig

PSIPC (MV) = 980 psig

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

$$Q = (12.365) (217) (.9952) (1.000) (1.017) = 2716 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3,861,225}{3,626,000} \right)^n = (2716) (1.0648)^{.75} = (2716) (1.048)$$

$$Aof = 2847 \text{ MCF/D}$$

NOTE: This is an initial test after
workover to eliminate communication
between the producing zones.

TESTED BY W. D. Dawson

CHECKED BY T. B. Grant

WITNESSED BY

L. D. Galloway
Lewis D. Galloway

