

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

WELL COMPLETION

DATE June 9, 1965

Operator El Paso Natural Gas Company		Lease Storey No. 8-C (1) (OWHO)	
Location 1150' E, 1850' N, Section 33, T-28-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 5045	Tubing: Diameter 2.375	Set At: Feet 5474
Pay Zone: From 5416	To 5496	Total Depth: 5645	Shut In 6-2-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365		Packer set at 3273 ft.	
Shut-In Pressure, Casing, (PC) 534	PSIG	+ 12 = PSIA 546 (PC)	Days Shut-In 7	Shut-In Pressure, Tubing (MT) 755	PSIG
				+ 12 = PSIA 767	
Flowing Pressure: P 250	PSIG	+ 12 = PSIA 262	Working Pressure: Pw Calc.		PSIG
				+ 12 = PSIA 523	
Temperature: T = 60 °F		n = .75		Fpv (From Tables) 1.031	Gravity .700
Fr = 1.0000					Fg = .9258

ISIP (PC) = 534 psig

PSIP (PC) = 532 psig

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

$$Q = (12.365) (262) (1.0000) (.9258) (1.031) = 3092 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{583,289}{314,760} \right)^n = (3092) (1.8690)^{.75} = (3092) (1.5985)$$

$$A_{of} = 4943 \text{ MCF/D}$$

TESTED BY J. B. Goodwin

CALCULATED BY T. B. Grant

CHECKED BY H. E. McAnally



Lewis D. Galloway
L. D. Galloway