

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 28, 1957

Operator El Paso Natural Gas Company		Lease Schwerdtfeger No. 9-A (M)	
Location 1190'N, 654'E, Sec. 31-28-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 5108	Tubing: Diameter 2"	Set At: Feet 5337
Pay Zone: From 5227		Total Depth: 5480 - c/o 5383	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365	
Shut-in Pressure, Casing, PSIG 804 PC	12 - PSIA 816	Days Shut-In 12	Shut-in Pressure, Tubing PSIG 1044 MV
Flowing Pressure: P PSIG 432	12 - PSIA 444		Working Pressure: Pw PSIG Calc. 892
Temperature: T 64	F .750		Fpv (From Tables) 1.058
			Gravity .715

Final SIPC (PC) - 805 psig. Packer at 5155'. Sleeve at 3009'

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$$Q = 12.365 \times 444 \times .9962 \times .9161 \times 1.058 = 5301 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,115,136}{319,472} \right)^n = 3.4905^{.75} \times 5301 = 2.550 \times 5301$$

$$Aof = 13,544 \text{ MCF/D}$$

TESTED BY R. R. Davis

WITNESSED BY _____

Medium fog of fresh water during entire test period.

cc: E. S. Oberly (6)



L. D. Galloway