

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADUAL COMPLETIONDATE October 16, 1957

Operator El Paso Natural Gas Company		Lease Schwerdtfeger No. 9-A (P)	
Location 1190'N, 654'E, Sec. 31-28-8		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing Diameter 7-5/8	Set At: Feet 5108	Tubing Diameter 1-1/4	Set At: Feet 2996
Pay Zone: From 5-1/2	To 3010	Total Depth: 5480 - c/o 5383	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		
Shut-In Pressure, Casing, PSIG 768	PSIG - 12 - PSIA 780	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 768 PC
Flowing Pressure: P PSIG 477 PC	PSIG - 12 - PSIA 489		Working Pressure: Pw PSIG 492
Temperature: T 68	F .850	Fpv (From Tables) 1.044	Gravity .638

Initial SIPT (MV) - 1013 psig - Final - 1016 psig. Packer at 5155. Sleeve at 3009.

CHOKE VOLUME $Q = C \times P_c \times F_p \times F_g \times F_{pv}$

$$Q = 12.365 \times 489 \times .9924 \times .9682 \times 1.044 = 6065 \text{ MCF/D}$$

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

$$\text{Aof} = \left(\frac{508,400}{354,384} \right)^n = 6065^{.85} \times 1.7167 = 1.5830 \times 6065$$

Aof = 9601 MCF/DTESTED BY Robert R. Davis

WITNESSED BY _____

Light fog during entire test.

cc: E. S. Oberly (6)

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L. D. Galloway
L. D. Galloway by T.B.G.

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