

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADUAL COMPLETIONDATE November 25, 1957

Operator El Paso Natural Gas Company		Lease Riddle No. 5-F (M)	
Location 790'N, 1090'E, Sec. 32-28-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 2391	Tubing: Diameter 2"	Set At: Feet 4660
Pay Zone: From 4427	To 4658	Total Depth: 4718 - c/o 4675	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365		5-1/2" liner. 2340 - 4713	
Shut-In Pressure, Casing, PC 827	PSIG	- 12 = PSIA 839	Days Shut-In 15	Shut-In Pressure, Tubing MV 1063	PSIG - 12 = PSIA 1075
Flowing Pressure: P 408	PSIG	- 12 = PSIA 420		Working Pressure: Pw Calculated	PSIG - 12 = PSIA 797
Temperature: T 73	F	n 0.75		Fpv (From Tables) 1.049	Gravity 0.715

Final SIPC (PC) - 828 psig. 1-1/4" at 2301. Packer at 2354. Sleeve at 2288

CHOKE VOLUME = Q C x P_i x F_r x F_g x F_{ov}

$$Q = 12.365 \times 420 \times .9877 \times .9161 \times 1.049 = 4929 \text{ MCF/D}$$

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

$$\text{Aof } \left(\frac{1,155,625}{520,416} \right)^n = 2.2205^{.75} \times 4929 = 1.820 \times 4929$$

$$\text{Aof } 8271 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____

cc: E. S. Oberly (6)



L. D. Galloway
L. D. Galloway

OIL CONSERVATION COMMISSION

ADDED BY _____ OFFICE

No. Copies Recd. _____