

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 5, 1957

Operator El Paso Natural Gas Company		Lease Allison No. 11-X	
Location 917'N, 1086'E, Sec. 23-32-7		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 5563	Tubing: Diameter 2"	Set At: Feet 8368
Pay Zone: From 6010	To 6068	Total Depth: 8503	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750	Choke Constant: C 12.365		5-1/2" liner. 5417 - 8475	
Shut-In Pressure, Casing, PSIG MV 1124	- 12 = PSIA 1136	Days Shut-In 14	Shut-In Pressure, Tubing PSIG Dak. 2910	+ 12 = PSIA 2922
Flowing Pressure: P PSIG 356	- 12 = PSIA 368		Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 372
Temperature: T °F 70	n 0.75		Fpv (From Tables) 1.026	Gravity 0.591

SIPT (Dakota) - Initial 2910. Final - 2927 psig. Packer at 7941. Sleeve at 6079

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

$$Q = 12.365 \times 368 \times .9905 \times 1.008 \times 1.026 = \underline{4661} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,290,496}{1,152,112} \right)^n = 1.1201^{.75} \times 4661 = 1.0887 \times 4661$$

$$Aof = \underline{5074} \text{ MCF/D}$$



TESTED BY S. V. Roberts and R. Proctor

WITNESSED BY _____

cc: E. J. Coel, Jr. (6)

L. D. Galloway
L. D. Galloway

**OIL CONSERVATION COMMISSION
AZTEC DISTRICT OFFICE**

No. Copies Received 3

DISTRIBUTION		
	No.	
Operator		
Santa Fe	1	
Proration Office		
State Land Office		
U. S. G. S.	1	
Transporter		
File	1	✓