

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADUAL COMPLETIONDATE August 29, 1957

Operator El Paso Natural Gas Company		Lease Allison No. 11-X (D)	
Location 917'N, 1086'E, Sec. 23-32-7		County San Juan	State New Mexico
Formation Dakota		Pool North Los Pinos Dakota	
Casing: Diameter $\times$ 5-1/2	Set At: Feet 8475	Tubing: Diameter 2	Set At: Feet 8368
Pay Zone: From 8291	To 8363	Total Depth: 8503	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Coefficient, C 12.365			
Shut-In Pressure, Casing, PSIG 1062 (MV)	- 12 = PSIA 1074	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 2888 (Dak.)	- 12 = PSIA 2900	
Flowing Pressure: P, PSIG 358	- 12 = PSIA 370		Working Pressure: P _w , PSIG Calculated	- 12 = PSIA 848	
Temperature: T, °F 72	n = 0.75		F _{pv} (From Tables) 1.026	Gravity .590	

Final SIPC (MV) - 1070 psig

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = 12.365 \times 370 \times .9887 \times 1.008 \times 1.026 = 4678 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{8,410,000}{7,690,896} \right)^n = 1.0935^{.75} \times 4678 = 1.0694 \times 4678$$

$$A_{of} = 5003 \text{ MCF/D}$$

TESTED BY T. B. Grant and Richard Proctor

WITNESSED BY _____

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

L. D. Galloway
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OIL CONSERVATION COMMISSION

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