

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 22, 1958

Operator El Paso Natural Gas Company		Lease Allison 17 (D)	
Location 1650S, 1650W; 24-32-7		County San Juan	State New Mexico
Formation Dakota		Pool N. Los Pinos Dakota	
Casing: Diameter 9-5/8	Set At: Feet 3613	Tubing: Diameter 2"	Set At: Feet 8006
Pay Zone: From 7968 8019	To 7994 8103	Total Depth: 8121 c/o 8106	Shut-in 9/5/58
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches		Choke Constant: C		5-1/2 casing at 8101	
Shut-in Pressure, Casing, PSIG 1019 (M)	PSIG - 12 = PSIA 1031	Days Shut-In 14	Shut-in Pressure, Tubing, PSIG (D) 2737	PSIG - 12 = PSIA 2749	
Flowing Pressure: P 98	PSIG - 12 = PSIA	110	Working Pressure: P _w Calc.	PSIG - 12 = PSIA 245	
Temperature: T 66	F	75"	Fpv (From Tables) 1.007	Gravity .616	

Final SIPC (MV) = 1023 PSIG

Packer at 6467
Circ. sleeve 6433CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$$Q = 12.365 \times 110 \times .9943 \times .9877 \times 1.007 = 1345 \text{ MCF/D}$$

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

$$Aof = \left(\frac{7,557,001}{7,496,976} \right)^n \cdot (1.0080)^{.75} \times 1345 = 1.0060 \times 1345$$

Aof = 1353 MCF/D

TESTED BY Jesse B. GoodwinWITNESSED BY Don MortensenChecked By S. V. Roberts

Lewis D. Galloway
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