

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE July 16, 1959

Operator El Paso Natural Gas		Lease San Juan 27-5 No. 42 (P)	
Location 9908, 990W; 22-27-5		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 7-5/8	Set At: Feet 3482	Tubing: Diameter 1-1/4	Set At: Feet 3376
Pay Zone: From 3296	To 3366	Total Depth: 5625 c/o 5578	Shut In: 6/19/59
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365		5-1/2 liner 3413-5622	
Shut-in Pressure, Casing, PSIG 1067	PSIG	12 PSIA	Days Shut-in 27	Shut-In Pressure, Tubing, PSIG 1067	PSIG
Flowing Pressure: P 265	PSIG	12 PSIA		Working Pressure: Pw 279	PSIG
Temperature: T 64	F	n		Fpv (From Tables) 1.026	Gravity .644

Initial SIPT (MV) = 1116 psig

Packer at 5197

Final SIPT (MV) = 1118 psig

CHOKE VOLUME = $Q = C \times P_r \times F_r \times F_g \times F_{pv}$

$$Q = 12.365 \times 277 \times .9962 \times .9682 \times 1.026 = 3389 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1164241}{1079560} \right)^n \quad 1.0784^{.85} \times 3389 = 1.0663 \times 3389$$

$$A_{of} = 3614 \text{ MCF/D}$$

TESTED BY S. V. RobertsWITNESSED BY Fred Cook, N.M.O.C.C.

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