

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 28, 1957

Operator San Juan Gas Corporation		Lease <i>Highway 100</i> Fee No. 4-D	
Location SE 4-25-2		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 5-1/2	Set At: Feet 3885	Tubing: Diameter 2	Set At: Feet 3817
Pay Zone: From 3836	To 3884	Total Depth: 3884	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 3/4	Choke Constant: C 12.365		
Shut-In Pressure, Casing, PSIG 974	PSIA 986	Days Shut-In 15	Shut-In Pressure, Tubing, PSIG 974
Flowing Pressure: P, PSIG 46	PSIA 58		Working Pressure: Pw, PSIG 168
Temperature: T, F 51	F .85		Gravity 695
			Spv (From Tables) 1.004

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_g \times F_a$

$$Q = 12.365 \times 58 \times 1.0088 \times .9292 \times 1.004 \quad 675 \quad \text{MCF/D}$$

$$\text{OPEN FLOW } A_{of} = Q \left(\frac{P_1^2 - P_w^2}{P_1^2 - P_w^2} \right)^n$$

$$A_{of} = \left(\frac{972,196}{939,796} \right)^n \times 1.0344^{.85} \times 675 = 1.0292 \times 675$$

$$A_{of} = 695 \quad \text{MCF/D}$$

TESTED BY Richard Proctor and Frank ClarkWITNESSED BY Floyd Ray, San Juan Gas Corp.

L. D. Galloway
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OIL CONSERVATION COMMISSION

ARMED AND DANGEROUS OFFICE

No. 609

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