

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 28, 1957

Operator San Juan Gas Corporation		Lease Fee No. 14-C	
Location NW 14-25-2		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Cavalin Pictured Cliffs	
Casing Diameter 5-1/2	Set At: Feet 3412	Tubing Diameter 2	Set At: Feet 3400
Pay Zone: From 3412	To 3430	Total Depth 3430	
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 959	PSIA 971	Days Shut-In 181	Shut-In Pressure, Tubing, PSIG 960
Flowing Pressure: P, PSIG 149	PSIA 161		Working Pressure: P _w , PSIG 336
Temperature, T, °F 52			Gravity .695
			F _{pv} From Tables 1.018

CHOKE VOLUME $Q = C \times P_1 \times F_c \times F_g \times F_{pv}$

$$Q = 12.365 \times 161 \times 1.0078 \times .9292 \times 1.018 = 1898 \text{ MCF/D}$$

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

$$Aof = \left(\frac{944,784}{823,680} \right)^n \quad 1.1470^{.85} \times 1898 = 1.1236 \times 1898$$

$$Aof = 2133 \text{ MCF/D}$$

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

L. D. Galloway
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OIL POLLUTION COMMISSION		
INCIDENT REPORT		
1. Date	2. Time	3. Location
4. Vessel Name	5. Vessel Type	6. Vessel No.
7. Cargo	8. Quantity	9. Cause
10. Remarks	11. Signature	12. Date
File	1	✓