

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 4, 1956

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit # 9	
Location 1840'W, 990'S, Sec. 33-27-4		County Rio Arriba	State New Mexico
Formation Pictured Cliff		Pool Wildcat	
Casing Diameter 5 1/2	Set At: Feet 4085	Tubing Diameter 2" -	Set At: Feet 4039
Pay Zone: From 4000	To 4065	Total Depth: 4085 - c/o - 4075	
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, inches 0.750		Choke Constant: C 14.1605	
Shut-In Pressure, Casing, PSIG 1011	12 - PSIA 1023	Days Shut-In 11	Shut-In Pressure, Tubing, PSIG 1012
Flowing Pressure, P, PSIG 165	12 - PSIA 177	Working Pressure: Pw, PSIG 184	12 - PSIA 196
Temperature, °F 61	0.850	Fpv (From Tables) 1.014	Gravity 600

CHOKED VOLUME: $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$Q = 14.1605 \times 177 \times .9990 \times 1 \times 1.014 = 2539$ MCF/D

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

$A_{of} = \left(\frac{1,048,576}{1,010,160} \right)^n \cdot 1.0380^{.85} \times 2539 = 1.0322 \times 2539$

$A_{of} = 2621$ MCF/D

Tom Grant



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By:

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