

OPEN FLOW TEST DATA

CORRECTED COPY

DATE July 21, 1960

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 55-1	
Location 1040N, 990E; 1-27N-5W		County Rio Arriba	State New Mexico
Formation Mesaverde		Pool Blanco	
Casing Diameter 7-5/8"	Set At Feet 4413	Tubing Diameter 2"	Set At Feet 6480
Perforation Depth 5954	TS 6480	Total Depth 6558 c/o 6510	Re Shut-In 7/14/60 Shut-In 6/21/60
Stratigraphic Correlation Sand Water Frac.		Flow Through Casing	Flow Through Tubing x

Choke Constant: C		5-1/2" liner from 4371 to 6558	
Shut-In Pressure: Casing .75	PSIG 12 PSIA 1088	Shut-In Pressure: Tubing 990	PSIG 12 PSIA 1002
Flowing Pressure: P 82	PSIG 12 PSIA 94	Working Pressure: Pw 336	PSIG 12 PSIA 348
Temperature: T 59	F	Spv From Tables 1.009	Gravity .693
Ft= 1.0010	.75		Fg= .9325

CHOKE VOLUME = $Q \times C \times P \times F \times F_g \times F_p$

$$= 12.365 \times 94 \times 1.0010 \times .9325 \times 1.009$$

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

$$\text{Ac}^2 = \left(\frac{1183744}{1062640} \right)^n$$

$$1.1139^{.75} \times 1095 = 1.0842 \times 1095$$

$$\text{Ac}^2 = 1187 \quad \text{MCF/D}$$

D. Mortensen

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A T T E N T I O N

Checked By W. D. Dawson

Lewis D. Galloway
L. D. Galloway



Note: Re-shut-in date 7/14/60

After 5 min. unloaded large slug of oil -
produced oil and water mist during whole
test.