

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE March 19, 1957

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit # 19	
Location 990'S, 1750'W, Sec. 20-27-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 5 1/2	Set At Feet 5689	Tubing Diameter 2"	Set At Feet 5623
Pay Zone From 5060	To 5628	Total Depth 5692 - c/o - 5650'	
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.75	Choke Constant, C 14.1605					
Shut-In Pressure, Casing, PSIG 1048	PSIA 1060	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 1042	PSIA 1054		
Flowing Pressure, PSIG 298	PSIA 310		Working Pressure, Pw, PSIG 690	PSIA 702		
Temperature, T 62		.75	Fpv (From Tables) 1.034	Gravity .680		

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

$$Q = 14.1605 \times 310 \times .9981 \times .9393 \times 1.034 = 4255 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1,123,600}{630,796} \right)^n \cdot (1.7812) \cdot .75 \times 4255 = 1.542 \times 4255$$

$$A_{of} = 6561 \text{ MCF/D}$$

Well blew heavy mist of distillate
during entire test.

R. A. Ullrich

TESTED BY

WITNESSED BY

