

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE April 27, 1960

Operator El Paso Natural Gas Company	Lease San Juan 27-5 Unit No. 51 (M)
Location 1660S, 1660W; 28-27-5	County Rio Arriba State New Mexico
Formation Mesa Verde	Pore Blanco
Casing Diameter 5-1/2 Set At Feet 5605	Tubing Diameter 2 Set At Feet 5420
Pay Zone From 5353 To 5474	Total Depth 5605 c/o 5516 Shut In 4/19/60
Stimulation Method Sand Water Frac.	Flow Through Casing X Flow Through Tubing X

Choke Size, Inches .75	Choke Constant, C 12.365	5-1/2" liner 3297-5605
Shut-in Pressure, Casing (PC) 958	PSIG 12 PSIA 970	Shut-in Pressure, Tubing (MV) 1076
Flowing Pressure, P 161	PSIG 12 PSIA 173	Working Pressure, Pw Calc.
Temperature 60	Gravity 1.000	Flow From Tables 1.019
		Gravity .693 Fg .9325

Initial SIPT (PC) = 958 psig

Final SIPT (PC) = 961 psig

Gulberson "Shorty" Packer at 3378'

CHOKE VOLUME $Q = C \times R \times F \times F_g \times F_{pv}$

$$Q = 12.365 \times 173 \times 1.000 \times .9325 \times 1.019$$

2033

MCF/D

OPEN FLOW $A_{of} = \left(\frac{P_1^2 - P_2^2}{P_1^2 - P_a^2} \right)^n$

$A_{of} = \left(\frac{1183744}{1066780} \right)^n$

$$1.1096^{.75} \times 2033 = 1.0810 \times 2033$$

$A_{of} = 2198$

MCF/D



BY **S. V. Roberts**

WITNESSED BY

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