

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE December 21, 1959

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit No. 35 (D)	
Location 1840S, 1840W; 19-28-5		County Rio Arriba	State New Mexico
Formation Dakota		Pool Undesignated	
Casing Diameter 5	Set At: Feet 7952	Tubing Diameter 2"	Set At: Feet 7499
Pay Zone: From 7605	To 7804	Total Depth: 7951 c/o 7885	Shut In 12/14/59
Stimulation Method Sand Oil Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant: C 12.365	5" liner 4738-5850 5" liner 7479-7952
Shut-In Pressure, Casing, PSIG (MV) 1009	PSIA 1021	Days Shut-In 7
Flowing Pressure, P, PSIG 320	PSIA 332	Shut-In Pressure, Tubing, PSIG (Dak) 2086
Temperature: 69	F _r .9915	Working Pressure: P _w , PSIG Calc. 735
	.75	F _{pv} (From Tables) 1.022
		Gravity .579 F _g 1.021

Initial SIPT (MV) = 1011 psig

Final SIPC (MV) = 1016 psig

Packer at 7503, Baker Model "D"

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

$$Q = 12.365 \times 332 \times .9915 \times 1.021 \times 1.022$$

4247

MCF/D

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

$$A_{of} = \left(\frac{4401604}{3861379} \right)^n$$

$$1.1399^{.75} \times 4247 = 1.1035 \times 4247$$

A_{of}

4687

MCF/D



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