

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE July 4, 1962

Operator El Paso Natural Gas Company		Lease San Juan Unit 27-5 No. 70 (DK)	
Location 1650'N, 1850'E, Sec. 8-27-5		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing Diameter 4-1/2	Set At Feet 7911	Tubing Diameter 2-1/16	Set At Feet 7800
Pay Zone From 7604	To 7838	Total Depth 7911 c/o 7846	Shut In 6-12-62
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant, C 12.365	Baker "D" Packer at 5797'.
Shut-In Pressure, Casing, PSIG 1087 (MV)	PSIA 1099	Days Shut-In 22
Flowing Pressure, P, PSIG 365	PSIA 377	Shut-In Pressure, Tubing, PSIG 2493 (DK)
Temperature 62	F .9981	Working Pressure, Pw, PSIG Calculated 1141
		Flowing Pressure, Pw, PSIG 1.041
		Gravity .670
		fg .9463

Initial SIPT (MV) = 595 psig
Final SIPC (MV) = 1095 psig

CHOKED VOLUME Q C x P_c x F_v x F_g x F_{pv}

$$Q = (12.365)(377)(.9981)(.9463)(1.041)$$

4583

MCF D

$$Q_{PF} = A_{of} Q \left(\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} \right)^n$$

$$A_{of} = \left(\frac{6,275,025}{4,973,144} \right)^n$$

$$(1.2617)^{.75}(4583) = (1.1902)(4583)$$

A_{of} 5455 MCF D

NOTE: Produced slugs of Distillate throughout test.

R. F. Headrick

Checked by: H. L. Kendrick

Lewis D. Galloway
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