

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE December 11, 1959

Operator El Paso Natural Gas	Lease Johnston State No. 9 (M)
Location 1500S, 850W; 36-27-6	County Rio Arriba State New Mexico
Formation Mesa Verde	Pool Blanco
Casing: Diameter 5-1/2 Set At: Feet 5770	Tubing: Diameter 2 Set At: Feet 5603
Pay Zone: From 5026 To 5576	Total Depth: 5776 c/o 5726 Shut In 12/3/59
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 3434 - 5770
Shut-In Pressure, Casing, PSIG (PC) 940	12 PSIA 952	Days Shut-In 8
Flowing Pressure: P, PSIG (MV) 116	12 PSIA 128	Shut-In Pressure, Tubing, PSIG (MV) 940
Temperature: 57	1.0029	Working Pressure: P _w , PSIG Calc. 255
1.0029	.75	Ep _v (From Tables) 1.011
		Gravity .655 Fg .9571

Initial SIPT (PC) = 940 psig
Final SIPC (PC) = 944 psig

Packer at 4923, Baker Model "H"

CHOKE VOLUME $Q = C \times P_c \times F_c \times F_g \times F_{pv}$

$$Q = 12.365 \times 128 \times 1.0029 \times .9571 \times 1.011 = 1536$$

MCF/D

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

$$A_{of} = \left(\frac{906304}{841279} \right)^n$$

$$1.0772^{.75} \times 1536 = 1.0573 \times 1536$$

$$A_{of} = 1624 \text{ MCF/D}$$



TESTED BY **S. V. Roberts**

WITNESSED BY

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