

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE April 2, 1959

Operator El Paso Natural Gas		Lease San Juan 27-5 No. 47 (M)	
Location 15008, 1750W; 18-27-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3386	Tubing: Diameter 2"	Set At: Feet 5485
Pay Zone: From 3210	To 3278	Total Depth: 5589 c/o 5544	Shut in 3/26/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, inches .75		Choke Constant: C 12.365		5-1/2 liner 3339-5586	
Shut-In Pressure, Casing, PSIG (PC) 994	- 12 = PSIA 1006	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG (MV) 1010	- 12 = PSIA 1022	
Flowing Pressure: P, PSIG 220	- 12 = PSIA 232	Working Pressure: P _w , PSIG Calc.	- 12 = PSIA 460		
Temperature: T, °F 63	n = .75	F _p (From Tables) 1.026	Gravity .690		

Initial SIPT (PC) = 995 psig

Packer at 3339

Final SIPC (PC) = 1001 psig

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

$$Q = 12.365 \times 232 \times .9971 \times .9325 \times 1.026 = 2736 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,044,185}{832,885} \right)^n = 1.2540^{.75} \times 2,736 = 1.1879 \times 2736$$

$$Aof = 3,242 \text{ MCF/D}$$

TESTED BY: R. R. Davis

WITNESSED BY: _____

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