

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE April 17, 1958

DUAL COMPLETION

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit 89 (M)	
Location 1100S, 1190W, 15-27-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 3344	Tubing: Diameter 2"	Set At: Feet 5420
Pay Zone: From 5348	To 5524	Total Depth: 5614 c/o 5568	Shut-in 3/31/58
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 at 3329 to 5614	
Shut-In Pressure, Casing, PSIG 957 (PC)	- 12 = PSIA 969	Days Shut-In 17	Shut-In Pressure, Tubing, PSIG 1102 (MV)	- 12 = PSIA 1114	
Flowing Pressure: P, PSIG 187	- 12 = PSIA 199		Working Pressure: Pw, PSIG Calc.	- 12 = PSIA 392	
Temperature: T, °F 64	n 75		Fpv (From Tables) 1.023	Gravity .718	

Initial SIPC (PC) 958 PSIG
Final SIPC (PC) 959 PSIG

Packer set at 3395 1-1/4" at 3172

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

$$Q = 12.365 \times 199 \times .9962 \times .9161 \times 1.023 = \underline{2297} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1240996}{1087332} \right)^n = (1.1413)^{.75} \times 2297 = 1.2042 \times 2297$$

$$Aof = \underline{2536} \text{ MCF/D}$$

TESTED BY Bill RischardWITNESSED BY J. B. GoodwinChecked By: S. V. Roberts

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