

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE March 30, 1959

Operator El Paso Natural Gas		Lease San Juan 27-5 No. 41 (P)	
Location 10908, 1650E; 21-27-5		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 7-5/8	Set At: Feet 3455	Tubing: Diameter 1-1/4	Set At: Feet 3331
Pay Zone: From 3290	To 3348	Total Depth: 5669 c/o 5662	Shut in 3/12/59
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365		5-1/2 liner 3400 - 5666	
Shut-In Pressure, Casing, PSIG 1007 (PC)	- 12 = PSIA 1019	Days Shut-In 18	Shut-In Pressure, Tubing, PSIG 1007 (PC)	- 12 = PSIA 1019	
Flowing Pressure, P, PSIG 168	- 12 = PSIA 180		Working Pressure: P _w , PSIG 172	- 12 = PSIA 184	
Temperature: T, °F 58	n = .85		F _{pv} (From Tables) 1.019	Gravity .669	

Initial SIPT (MV) = 1055 psig
Final SIPT (MV) = 1063 psig

Packer at 3454

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = 12.365 \times 180 \times 1.0019 \times .9498 \times 1.018 = 2156 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1038361}{1004505} \right)^n \quad 1.0337^{.85} \times 2156 = 1.0286 \times 2156$$

$$Aof = 2218 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____



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