

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE April 13, 1960

Operator El Paso Natural Gas Company		Lease Rincon Unit No. 135 (M)	
Location 1160N, 1750E; 29-27-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7	Set At: Feet 7309	Tubing: Diameter 1-1/4	Set At: Feet 5481
Pay Zone: From 4846	To 5478	Total Depth: 7715 o/o 7678	Shut In 2/13/60
Stimulation Method Sand Water Pres.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 1024 (MV)	+ 12 = PSIA 1036	Days Shut-In 58	Shut-In Pressure, Tubing, PSIG 1026 (MV)
Flowing Pressure: P, PSIG 118	+ 12 = PSIA 130	Working Pressure: P _w , PSIG 133	+ 12 = PSIA 145
Temperature: T = 59 °F	F _r 1.0010	F _{pv} (From Tables) 1.016	Gravity .708
	.75		F _g .9225

Initial SIPT (Ik) = 2484 psig

Baker Model "D" Packer at 6919

Final SIPT (Ik) = 2494 psig

CHOKE VOLUME = Q C x P_i x F_r x F_g x F_{pv}

$$Q = 12.365 \times 130 \times 1.0010 \times .9225 \times 1.016 = 1508 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1077444}{1056419} \right)^n \quad 1.0199^{.75} \times 1508 = 1.0149 \times 1508$$

$$Aof = 1530 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____



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