

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPETITION

DATE January 25, 1960

Operator El Paso Natural Gas		Lease Rincon Unit No. 125 (D)	
Location 9908, 1630W; 26-27-6		County Rio Arriba	State New Mexico
Formation Bakota		Pool Undesignated	
Casing: Diameter 5"	Set At: Feet 7759	Tubing: Diameter 2	Set At: Feet 7483
Pay Zone: From 7418	To 7621	Total Depth: 7761 o/o 7630	Shut In 1/16/60
Stimulation Method Sand Oil Proc.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		5" liner 7283-7759	
Shut-In Pressure, Casing, (MV) 989	PSIG	+ 12 = PSIA 1001	Days Shut-In 9	Shut-In Pressure, Tubing (D) 2434	PSIG + 12 = PSIA 2446
Flowing Pressure: P (B Tag) 278	PSIG	+ 12 = PSIA 290		Working Pressure: P _w Calc.	PSIG + 12 = PSIA 640
Temperature: T = 66 °F	F _t .9943	n = .75		F _{pv} (From Tables) 1.028	Gravity .668 F _g = .9498

Initial SIFT (MV) = 990 psig

Final SIFT (MV) = 1014 psig

Packer at 6248

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

$$Q = 12.365 \times 290 \times .9943 \times .9498 \times 1.028 = 3481 \text{ MCF/D}$$

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

$$Aof = \left(\frac{990^2 - 278^2}{990^2 - 278^2} \right)^n \cdot 1.0734^{.75} \times 3481 = 1.0545 \times 3481$$

$$Aof = 3671 \text{ MCF/D}$$

TESTED BY W. D. Dawson

WITNESSED BY _____



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