

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 5, 1958

Operator El Paso Natural Gas		Lease Rincon 107 (M)	
Location 15508, 1550W; Sec. 19-27-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco MV	
Casing Diameter 7-5/8	Set At Feet 3269	Tubing Diameter 2"	Set At Feet 5434
Pay Zone From 4754	To 5492	Total Depth 5566 c/o 5517	Shut-in 7/22/58
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant 12.365		5-1/2 liner 3260 - 5561	
Shut-in Pressure, Casing, PSIG 963 (PC)	PSIA 975	Day Shut-In 45	Shut-in Pressure, Tubing, PSIG 1103 (MV)	PSIA 1115 (MV)	
Flowing Pressure, Casing, PSIG 228 (MV)	PSIA 240 (MV)		Working Pressure, Pw, PSIG Calc.	PSIA 474	
Temperature, T 65			Flow (From Tables) 1.026	Gravity .700	

Initial SIPT (PC) = 963 psig

Final SIPC (PC) = 966 PSIG

Packer at 3289

1-1/4" at 3177

CHOKE VOLUME = $Q \times C \times P_1 \times P_2 \times F_g \times F_v$

$$Q = 12.365 \times 240 \times .9952 \times .9258 \times 1.026$$

2803

MCF/D

$$\text{OPEN FLOW Ref. } Q = \left(\frac{P_1^2 - P_2^2}{P_1^2} \right)^n$$

$$\text{Ref. } Q = \left(\frac{1243225 - 1018549}{1243225} \right)^n$$

$$(1.2206)^{.75} \times 2803 = 1.1615 \times 2803$$

3256

MCF/D

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