

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

RETEST

DUAL COMPLETION

DATE

7/2/59

Operator El Paso Natural Gas		Day No. 2-B (M)	
Location 8908, 1090W; 7-27-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 7-5/8	Set At: Feet 3041	Tubing Diameter 2"	Set At: Feet 5280
Pay Zone From 5152	To 5312	Total Depth 5344 c/o 5317	Shut In: 6/25/59
Stimulation Method		Flow Through Casing	Flow Through Tubing

Choke Size, Inches .75	Choke Constant 12.365	5 1/2 liner 2990 - 5338	
Shut-In Pressure, Casing, PSIG 646 (PC)	PSIG $\div 12 =$ PSIA 658	Shut-In Pressure, Tubing, PSIG 832 (MV)	PSIG $\div 12 =$ PSIA 844
Flowing Pressure, Casing, PSIG 282 (MV)	PSIG $\div 12 =$ PSIA 294	Working Pressure, Flow, PSIG Calc.	PSIG $\div 12 =$ PSIA 578
Temperature, Casing 68	Temperature, Tubing .75	Flow From Tubing 1.033	Gravity .707

Initial SIPT (PC) = 645 psig

Final SIPC (PC) = 647 psig

Packer at 3041

CHOKE VOLUME = $Q_c \times P_c \times F_c \times F_g \times F_v$

$$Q_c = 12.365 \times 294 \times .9924 \times .9225 \times 1.033$$

3438

MCF/D

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

$$A_{of} = \left(\frac{712336}{378252} \right)^n$$

$$1.8832^{.75} \times 3438 = 1.6080 \times 3438$$

$$A_{of} = 5528 \text{ MCF/D}$$

TESTED BY **S. V. Roberts**WITNESSED BY **Mr. Tom Smith, N.M.O.C.C.**

Lewis D. Galloway
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