

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUEL COMPLETION

DATE October 24, 1960

Operator La Plata Gathering System		Lease San Juan 32-5 No. 1-31 (MV)	
Location 790'N, 713'E, 713'W, Sec. 31-32-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco Extension	
Casing Diameter 5-1/2	Set At: Feet 8355	Tubing Diameter 1-1/4	Set At: Feet 6043
Pay Zone From 5738	To 6028	Total Depth 8369	Shut In 10-13-60
Stimulation Treatment Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Constant: C .75		Choke Constant: C 12.365		Baker Model "D" Pkr. at 8070	
Shut-In Pressure, Casing (MV) PSIG 1090	PSIA 1102	Days Shut-In 11	Shut-In Pressure, Tubing (MV) PSIG 439	PSIA 451	
Flowing Pressure, P (Csg.) PSIG 269	PSIA 281		Working Pressure, Pw PSIG 343	PSIA 355	
Temperature 70	F _r .9905		F _{pv} (From Tables) 1.025	Gravity .650	F _g .9608

Initial SIPT (D) = 2187 psig

Final SIPT (D) = 2206 psig

CHOKED VOLUME $Q = C \times P_r \times F_r \times F_g \times F_{pv}$

$$Q = (12.365)(281)(.9905)(.9608)(1.025)$$

3389

MCF/D

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

$$A_{of} = \left(\frac{1214404}{1088379} \right)^n (1.1157)^{.75} (3389) = (1.0855)(3389)$$

A_{of} 3679 MCF/D

W. D. Dawson (EPNG)

Virgil Stoabs (BMG)

Checked by T. B. Grant



Lewis D. Galloway
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