

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE January 26, 1962

Operator El Paso Natural Gas Company		Lease San Juan 27-5 No. 59 (MV)	
Location 990'N, 800'E, Sec. 6-27-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5-1/2" & 4-1/2" O.D.	Set At: Feet 7870	Tubing: Diameter 1-1/4" O.D.	Set At: Feet 5580
Pay Zone: From 5092	To 5596	Total Depth: 7870 c/o 7750	Shut In 12-20-61
Stimulation Method Sand Water Frac.		Flow Through Casing X	

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 1093 (MV)	12 - PSIA 1105	Days Shut-In 37	5-1/2" Model "D" at 5713
Flowing Pressure: P, PSIG 550	12 - PSIA 562		Shut-In Pressure, Tubing, PSIG 1070 (MV)
Temperature: T 72 F	Ft. .9887		Working Pressure: Pw, PSIG 661
			Fpv (From Tables) 1.052
			Gravity .630
			Eg .9759

Initial SIPT (DK) = 2367 psig

Final SIPT (DK) = 2390 psig

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$$Q = (12.365)(562)(.9887)(.9759)(1.052)$$

7054

MCF D

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

$$\text{Aof } \left(\frac{1,221,025}{768,096} \right)^n \quad (7054)(1.5896) = (7054)(1.4155)$$

Aof 9985 MCF D

TESTED BY D. E. Mortensen

WITNESSED BY

Calculated by: W. D. Dawson

Lewis D. Galloway
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