

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 2, 1961

Operator El Paso Natural Gas Company		Lease San Juan 27-5 No. 67 (MV)	
Location 990'N, 1560'E, Sec. 31-27N-5W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7" O.D. 20.0 lbs.	Set At: Feet 3275	Tubing: Diameter 2-1/16" O.D., 3.25 lbs.	Set At: Feet 5305
Pay Zone: From 4810	To 5378	Total Depth: 5550 C/O 5520	Shut In 9-12-61
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365		4-1/2" O.D. 9.5 lbs. Liner 3163 to 5550	
Shut-In Pressure, Casing, PSIG 1031 (PC)	12 PSIA	Days Shut-In 51	Shut-In Pressure, Tubing, PSIG 1065 (MV)	12 PSIA	1077
Flowing Pressure: P PSIG 263	12 PSIA	Working Pressure: Pw (Calc.)	PSIG	12 PSIA	718
Temperature: °F 59	n	Fpv (From Tables) 1.028	Gravity .653	Fg =	.9608
Ft =	1.0010				
	.75				

Initial SIPT (PC) = 976 psig
Final SIPC (PC) = 1035 psig

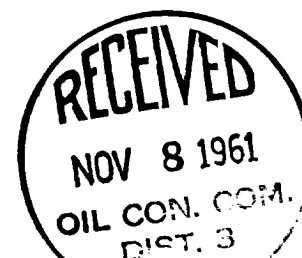
CHOKE VOLUME = $Q = C \times P_r \times F_r \times F_g \times F_{pv}$

$$Q = (12.365)(275)(1.0010)(.9608)(1.028) = 3362 \text{ MCF/D}$$

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

$$\text{Aof} = \left(\frac{1,159,929}{644,405} \right)^n = (3362)(1.8000)^{.75} = (3662)(1.5540)$$

Aof 5691 MCF/D



NOTE: Heavy medium fog of water and distillate throughout test.

TESTED BY **Dannie Roberts**

WITNESSED BY

Calculated by: **W. D. Dawson**

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