

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 12, 1962

DUAL COMPLETION

Operator El Paso Natural Gas Company	Lease San Juan Unit 27-5 No. 69 (MV)
Location 1090'N, 990'E, Sec. 7-27-5	County Rio Arriba State New Mexico
Formation Mesa Verde	Pool Blanco
Casing Diameter 5.5 Set At: Feet 5822	Tubing Diameter 1-1/4 Set At: Feet 5714
Pay Zone: From 5099 To 5706	Total Depth 7900 Shut In 6-28-62
Stimulation Method Sand/Water Frac.	Flow Through Casing X Flow Through Tubing

Choke Size, Inches .750	Choke Constant 12.365	Days Shut-In 14	Shut-In Pressure, Tubing (MV) 489	PSIG 501
Shut-In Pressure, Casing (MV) 1055	PSIG 1067	Working Pressure, Fw 459	PSIG 471	Grav. Sp. .9393
Flowing Pressure, F 358	PSIG 370	Fpw From Tables 1.039	Grav. Sp. .680	
Temperature 74	Ft. .9868			

Initial SIPT (DK) 2470 psig
Final SIPT (DK) 2544 psig

CHOKE VOLUME $Q = C \times P_r \times F_r \times F_g \times F_v$

$$Q = (12.365)(370)(.9868)(.9393)(1.039)$$

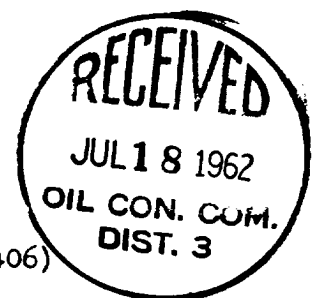
4406

MCF/D

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

$$A_{of} = \left(\frac{1,138,489}{916,648} \right)^n$$

$$(1.2420)^{.75}(4406) = (1.1763)(4406)$$



A_{of} 5183

MCF/D

NOTE: Unloaded steady stream of water through MV tubing before starting test. Blew medium fog of water throughout casing test.

By **D. E. Mortensen**

Witnessed by

Calculated by: Tom B. Grant

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