

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 25, 1962

Operator El Paso Natural Gas Company		Lease San Juan Unit 29-5 No. 32 (DK)	
Location 990'S, 1500'W, Sec. 29-29-5		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 5.0	Set At: Feet 8029	Tubing: Diameter 2.375	Set At: Feet 7820
Pay Zone: From 7775	To 7872	Total Depth: 8032 c/o 7933	Shut In 9-18-62
Stimulation Method Sand/Water Frac.		Flow Through Casing X	

Choke Size, Inches .75		Choke Constant: C 12.365		Howco "C" Packer at 7473'.	
Shut-In Pressure, Casing, (MV) 1083	PSIG - 12 PSIA 1095	Days Shut-In 7	Shut-In Pressure, Tubing (DK) 1711	PSIG - 12 PSIA 1723	
Flowing Pressure: P 157	PSIG - 12 PSIA 169		Working Pressure: Pw (Calc.) 376	PSIG - 12 PSIA 376	
Temperature: T 65 F	F _r .9952	.75	F _{pv} (From Tables) 1.012	Gravity .590	F _g 1.008

Initial SIPT (MV) = 1087 psig

Final SIPC (MV) = 1086 psig

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

$$Q = (12.365)(169)(.9952)(1.008)(1.012)$$

2121

MCF D

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

$$A_{of} = \left(\frac{2,968,729}{2,827,353} \right)^n \quad (2121)(1.0500)^{.75} = (2121)(1.0373)$$

A_{of}

2200

MCF D

NOTE: This test run after minor workover to eliminate communication between the producing zones.

REPORTED BY **D. E. Mortensen**

WITNESSED BY

Calculated by **W. D. Dawson**

Checked by **T. G. Grant**

