

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE October 2, 1962

Operator El Paso Natural Gas Company	Lease San Juan Unit 29-5 No. 32 (MV)
Location 990'S, 1500'W, Sec. 29-29-5	County Rio Arriba State New Mexico
Formation Mesa Verde	Pool Blanco
Casing Diameter 7.0 Set At Feet 7625	Tubing Diameter 1.660 Set At Feet 5685
Pay Zone: From 5290 To 5724	Total Depth: 8032 c/o 7933 Shut In 9-18-62
Stimulation Method Sand/Water Frac.	Flow Through Casing X Flow Through Tubing

Choke Size, Inches .75	Choke Constant: C 12.365	Howco "C" Packer at 7473'.
Shut-in Pressure, Casing, (MV) 1080 PSIG	PSIA 12 Days Shut-in 192 14	Shut-in Pressure, Tubing (MV) 1083 PSIG
Flowing Pressure: P 429 PSIG	PSIA 12 441	Working Pressure: P _w 449 PSIG
Temperature: T 68 F	Gravity .9463	Flowing Pressure: P _w 461 PSIG
Flowing Pressure: P _f 429 PSIG	Flowing Pressure: P _f 441 PSIG	Flowing Pressure: P _f 449 PSIG
Flowing Pressure: P _f 429 PSIG	Flowing Pressure: P _f 441 PSIG	Flowing Pressure: P _f 449 PSIG

Initial SIPT (DK) = 1796 psig

Final SIPT (DK) = 1810 psig

CHOKE VOLUME $Q = C \times P_c \times F_c \times F_g \times F_v$

$$Q = (12.365)(441)(.9924)(.9463)(1.046)$$

5356

MCF D

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

$$A_{of} = \left(\frac{1,199,025}{986,504} \right)^n$$

$$(5356)(1.2154)^{.75} = (5356)(1.1575)$$

A_{of} 6200

MCF D

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

TESTED BY D. E. Mortensen

WITNESSED BY

Calculated by W. D. Dawson

Checked by T. B. Grant

