

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 2, 1965

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 86 (MV) (OWO)	
Location 1800'S, 1550'W, Sec. 7, T-27-N, R-7-W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 5457	Tubing: Diameter 2.375	Set At: Feet 5363
Pay Zone: From 4764	To 5424	Total Depth: 5457	Shut In 8-25-65
Stimulation Method Sand Water Trac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365		Packer Set at 3127	
Shut-In Pressure, Casing, (PC) 440 PSIG	+ 12 = PSIA 452	Days Shut-In 8	Shut-In Pressure, Tubing (MV) 633 PSIG	+ 12 = PSIA 645
Flowing Pressure: P 22 PSIG	+ 12 = PSIA 34		Working Pressure: Pw (Calc.) PSIG	+ 12 = PSIA 66
Temperature: T = 59 °F	n = 1.0010		Fpv (From Tables) 1.005	Gravity .750 Fg = .8944

ISIPT (PC) = 440 PSIG

FSIPC (PC) = 441 PSIG

CHOKE VOLUME = Q = C × P_i × F_i × F_g × F_{pv}

$$Q = (12.365) (34) (1.0010) (.8944) (1.005) = 378 \text{ MCF/D}$$

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

$$Aof = \left(\frac{416,025}{411,669} \right)^n = (378) (1.0105)^{.75} = (378) (1.0079)$$

NOTE: Made light spray of water and hydrocarbons throughout test.

$$Aof = 381 \text{ MCF/D}$$

TESTED BY Ron F. HeadrickCalc. By: W. D. Dawson

WITNESSED BY _____

Checked By: Hermon E. McAnally
L. D. Galloway
 Lewis D. Galloway