

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 3, 1965

Operator El Paso Natural Gas Company		Lease Rincon Unit No. 128 (MV) (OWWO)	
Location 1600'S, 990'W, Sec. 28, T-27-N, R-6-W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7.000	Set At: Feet 7378	Tubing: Diameter 2.375	Set At: Feet 5490
Pay Zone: From 5374	To 5544	Total Depth: 7378	Shut In 8-19-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365		Baker Model "D" Packer Set at 6096	
Shut-In Pressure, Casing, PSIG (MV) 611	+ 12 = PSIA 623	Days Shut-In 15	Shut-In Pressure, Tubing, PSIG (MV) 611	+ 12 = PSIA 623
Flowing Pressure: P, PSIG 31	+ 12 = PSIA 43		Working Pressure: P _w , PSIG 148	+ 12 = PSIA 160
Temperature: T = 61 °F F _r = .9990	n = .75		F _{pv} (From Tables) 1.004	Gravity .692 F _g = .9325

ISIPT (DK) = 1446 Psig

FSIPT (DK) = 1450 Psig

CHOKE VOLUME = Q = C × P_r × F_r × F_g × F_{pv}

$$Q = (12.365) (43) (.9990) (.9325) (1.004) = 497 \text{ MCF/D}$$

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

$$Aof = \left(\frac{388,129}{362,529} \right)^n = (497) (1.0706)^{.75} = (497) (1.0525)$$

$$Aof = 523 \text{ MCF/D}$$

NOTE: 5 minutes after opening, well unloaded a slight fog of liquid for about 2 minutes.

TESTED BY Don Norton

CHECKED BY

WITNESSED BY W. D. Dawson

Lewis D. Galloway
Lewis D. Galloway.

