

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE May 13, 1965

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 107 (DK) (OWWO)	
Location 1460'N, 1180'W, Section 35, T-27-N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 5.500	Set At: Feet 7014	Tubing: Diameter 2.375	Set At: Feet 6963
Pay Zone: From 6934	To 7007	Total Depth: 7020	Shut In 4-29-65
Stimulation Method Sand Oil Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365		Baker Model "P" Packer set at 6325 ft.	
Shut-In Pressure, Casing, (GL) 514	PSIG	+ 12 = PSIA 526	Days Shut-In 14	Shut-In Pressure, Tubing (DK) 966	PSIG + 12 = PSIA 978
Flowing Pressure: P 174	PSIG	+ 12 = PSIA 186		Working Pressure: P _w (Calc)	PSIG + 12 = PSIA 397
Temperature: T = 68 °F	F _t = .9924	n = .75		F _{pv} (From Tables) 1.019	Gravity .694 F _g = .9325

IS IPT (GL) = 406 psig

FS IPC (GL) = 518 psig

CHOKE VOLUME = Q = C × P_t × F_t × F_g × F_{pv}

$$Q = (12.365) (186) (.9924) (.9325) (1.019) = 2169 \text{ MCF/D}$$

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

$$Aof = \left(\frac{956,484}{798,875} \right)^n = (2169) (1.1972)^{.75} = (2169) (1.1447)$$

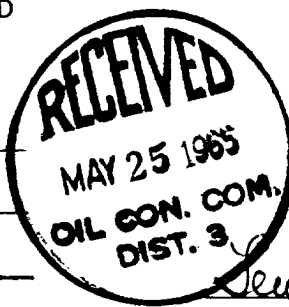
NOTE: Made small stream of oil and water.

$$Aof = 2483 \text{ MCF/D}$$

TESTED BY D. R. Roberts

CALCULATED BY W. D. Dawson

CHECKED BY T. B. Grant



L. D. Galloway