

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE October 13, 1965

Operator El Paso Natural Gas Company		Lease Allison Unit No. 27 (DK)	
Location 990'N, 990'E, Sec. 30, T-32-N, R-6-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.000	Set At: Feet 8043	Tubing: Diameter 1.900	Set At: Feet 7917
Pay Zone: From 7876	To 8008	Total Depth: 8044	Shut In 9-28-65
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 5740'	
Shut-In Pressure, Casing, PSIG 1145 (MV)	+ 12 = PSIA 1157	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 2825 (DK)	+ 12 = PSIA 2837
Flowing Pressure: P PSIG 95	+ 12 = PSIA 107		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 386
Temperature: T = 68 °F	n = .75		F _{pv} (From Tables) 1.007	Gravity .600 F _g = 1.000

ISIPT (MV) = 1145 Psig

FSIPT (MV) = 1149 Psig

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

$$Q = (12.365) (107) (.9924) (1.000) (1.007) = \underline{1322} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{8,048,569}{7,899,573} \right)^n = (1322) (1.0188) = (1322) (1.0141)$$

NOTE: Blew heavy spray of water throughout the test.

$$A_{of} = \underline{1341} \text{ MCF/D}$$

TESTED BY Dan RobertsCALC By Hermon E. McAnallyCHECKED BY W. D. Dawson.