

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 21, 1965

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit No. 135	
Location 1585'N, 810'E, Section 33, T-25-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6778	Tubing: Diameter 2.375	Set At: Feet 6681
Pay Zone: From 6562	To 6704	Total Depth: 6778	Shut In 7-7-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2309	+ 12 = PSIA 2321	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 2314	+ 12 = PSIA 2326
Flowing Pressure: P 170 PSIG	+ 12 = PSIA 182		Working Pressure: P _w 636 PSIG	+ 12 = PSIA 648
Temperature: T = 78 °F	n = .75		F _{pv} (From Tables) 1.018	Gravity .695
F _t = .9831				F _g = .9292

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365) (182) (.9831) (.9292) (1.018) = 2,093 \text{ MCF/D}$$

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

$$Aof = \left(\frac{5,410,276}{4,990,372} \right)^n = (2093) (1.0841)^{.75} = (1.0625) (2093)$$

$$Aof = 2224 \text{ MCF/D}$$

NOTE: Heavy fog of water and light Hydrocarbons entire test.

TESTED BY Jesse B. Goodwin
CHECKED BY
WITNESSED BY T. B. Grant

L. D. Galloway
L. D. Galloway

