

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 19, 1964

Operator El Paso Natural Gas Company		Lease Super Large Unit No. 135	
Location Ogala, Sp. 5, E-24-N, R-6-W		County Hidalgo	State New Mexico
Well Name Elmer 1, 3112b		Well Status Shut-in	
Casing Diameter 10.75	Casing Set At Feet 2414	Tubing Diameter 2.875	Tubing Set At Feet 2480
Pay Zone: From 1072	To 2414	Total Depth 2480	Shut In 8-10-64
Stimulation Method Small Nitrogen Fracture		Flow Through Casing X	Flow Through Tubing

Choke Size, inches 1.75	Choke Constant: C 12.365	Frictionless Completion	
Shut-in Pressure, Casing, PSIG 325	+ 12 = PSIA 641	Days Shut-in 9	Shut-in Pressure, Tubing No tubing PSIG + 12 = PSIA
Flowing Pressure: P 25	PSIG + 12 = PSIA 25	Working Pressure: Pw Gale.	PSIG + 12 = PSIA 30
Temperature: T = 100 °F	n = .85	Fpv (From Tables) 1.004	Gravity .670 Fg = .9463

$$\text{CHOKE VOLUME} = Q = C \times P_r \times \bar{F}_r \times F_g \times F_{pv}$$

$$Q = (12.365) (25) (1.0000) (.9463) (1.004) = 294 \text{ MCF/D}$$

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

$$Aof = \left(\frac{10,601}{39,931} \right)^{.85} = (268) (1.0021)^{.85} = (268) (1.0018)$$

$$Aof = 295 \text{ MCF/D}$$

RECEIVED
AUG 24 1964
OIL CON. COM.
DIST. 3

NOTE: Blew dry gas for two hours, then a slight mist the remainder of the test.

TESTED BY John W. Jensen
CHECKED BY John W. Jensen
WITNESSED BY John W. Jensen
OILFIELD NO. 1000000

Lewis D. Galloway
Lewis D. Galloway