

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 10, 1969

Operator El Paso Natural Gas		Lease Huerfano Unit No. 191	
Location 1840N, 1090W, S-21, T-26N, R-9W		County San Juan	State New Mexico
Formation Basin		Pool Dakota	
Casing: Diameter 4.500	Set At: Feet 6677	Tubing: Diameter 2.375	Set At: Feet 6437
Pay Zone: From 6430	To 6649	Total Depth: 6677	Shut In 6-28-69
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4" MR 2.750" Plate		Choke Constant: C 41.9208			
Shut-In Pressure, Casing, PSIG 1970	+ 12 = PSIA 1982	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 1799	+ 12 = PSIA 1811	
Flowing Pressure: P PSIG 305 WH - 100 MR	+ 12 = PSIA 317 WH - 112 MR		Working Pressure: P _w PSIG 772	+ 12 = PSIA 784	
Temperature: T = 83 °F	n = .75		F _{pv} (From Tables) 1.011	Gravity .700	F _g = 1.1952

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

$$Q = \text{Calculated from orifice meter reading} = \underline{3250} \text{ MCF/D}$$

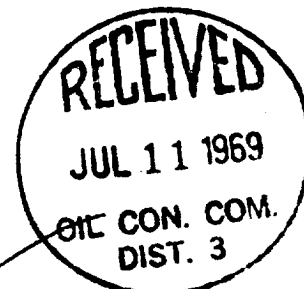
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{3928324}{3313668} \right)^n = 3250(1.1854)^{.75} = (1.1360) 3250$$

Note: Produced 62.4 bbls. of 47.8 gr. oil
and 26.9 bbls. of water.

$$Aof = \underline{3692} \text{ MCF/D}$$

TESTED BY RES & RF
Calculated
WITNESSED BY RF & RES



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