

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 4-8-69

Operator El Paso Natural Gas		Lease Huerfano Unit No. 187	
Location 850'N; 1550'E; S-6; T-25-N; R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6819	Tubing: Diameter 2.375	Set At: Feet 6677
Pay Zone: From 6602	To 6681	Total Depth: 6830	Shut In 3-22-69
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing

Meter Choke Size, Inches 4" M.R. - 2.750" plate		Choke Constant: C 41.9208		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1855	+ 12 = PSIA 1867	Days Shut-In 17	Shut-In Pressure, Tubing PSIG 1129	+ 12 = PSIA 1141	
Flowing Pressure: P PSIG 466 W.H.; 172 M.R.	+ 12 = PSIA 478 W.H.; 184 M.R.		Working Pressure: P _w PSIG 1042	+ 12 = PSIA 1054	
Temperature: T = 65 °F Ft = 9952	n = .75		F _{pv} (From Tables) 1.020	Gravity .700	F _g = 1.1952

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

$$Q = \text{Calculated from orifice meter readings} = \underline{5513} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3485689}{2374773} \right)^n = (5513)(1.4677)^{.75} = (5513)(1.3334)$$

Note: This well produced 43.26 bbls. of 44.6 API gravity oil during the three hour test.

$$Aof = \underline{7351} \text{ MCF/D}$$

TESTED BY CRW - GAL
Calculated
WITNESSED BY G. A. Lipman



H. L. Kendrick
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