

OPEN FLOW TEST DATA

DATE May 8, 1969

Operator El Paso Natural Gas		Lease Huerfano Unit No. 195	
Location 1050'H; 1800'W; S-21; T-26N; R-10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6705	Tubing: Diameter 2.375	Set At: Feet 6549
Pay Zone: From 6484	To 6551	Total Depth: 6705	Shut In 5-1-69
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Plate 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 1689	+ 12 = PSIA 1701	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 922	+ 12 = PSIA 934	
Flowing Pressure: P PSIG 402 W.H. 150 M.R.	+ 12 = PSIA 414 W.H.	Working Pressure: P _w PSIG 918	+ 12 = PSIA 930		
Temperature: T = 75 °F	Ft = .9850	n = .75	F _{pv} (From Tables) 1.017	Gravity .700	F _g = 1.1952

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

$$Q = \text{Calc. from orifice meter reading} = \underline{4822} \text{ MCF/D}$$

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

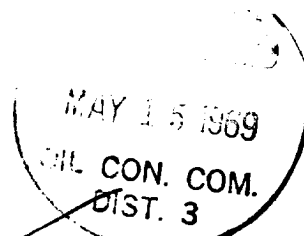
$$Aof = \left(\frac{2893401}{2028501} \right)^n = 4822 (1.4263)^{.75} = 4822 (1.3051)$$

Note: Well produced 62.11 bbls. of 44.6 API gravity oil during test.

$$Aof = \underline{6293} \text{ MCF/D}$$

TESTED BY R. E. S.

Calculated

WITNESSED BY R. E. S.

H. L. Kendrick
H. L. Kendrick