

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE April 30, 1969

Operator El Paso Natural Gas		Lease Huerfano Unit No. 194	
Location 1600'N; 1650'W; S-16; T-26N; R-10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6815	Tubing: Diameter 2.375	Set At: Feet 6717
Pay Zone: From 6650	To 6752	Total Depth: 6815	Shut In 4-05-69
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size: Inches 4" M.R. 2 3/4" Plate		Meter Constant: C 41.9208		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1677	+ 12 = PSIA 1689	Days Shut-In 25	Shut-In Pressure, Tubing PSIG 1657	+ 12 = PSIA 1669	
Flowing Pressure: P PSIG 89	+ 12 = PSIA 101		Working Pressure: P _w PSIG 681	+ 12 = PSIA 693	
Temperature: T = 80 °F	F _t = .9813	n = .75	F _{pv} (From Tables) 1.010	Gravity .700	F _g = 1.1952

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

$$Q = \text{Calculated from orifice meter readings} = \underline{2789} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{2852721}{2372472} \right)^n = (2789)(1.2024)^{.75} = (2789)(1.1482)$$

Note: The well produced 39.53 bbls. of 47° API gravity oil during the test.

$$A_{of} = \underline{3202} \text{ MCF/D}$$

TESTED BY C. R. W. & R. E. S.
Calculated
WITNESSED BY H. E. McNally

H. L. Kendrick
H. L. Kendrick

