

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 18, 1968

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 174	
Location 1650'N, 990'W, Sec. 13, T-26-N, R-10-W		County San Juan	State N. Mex.
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6389	Tubing: Diameter 2.375	Set At: Feet 6577
Pay Zone: From 6610	To 6831	Total Depth: 6889	Shut In 4-8-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2 1/2" Plate, 4" Meter		meter Choke Constant: C run 33.2928		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, 1963	PSIG	+ 12 = PSIA 1980	Days Shut-In 10	Shut-In Pressure, Tubing 1961	PSIG
Flowing Pressure: P meter 101, WH 322	PSIG	+ 12 = PSIA meter 113; WH 334		Working Pressure: P _w 785	PSIG
Temperature: T = 82 °F		n = .75		F _{pv} (From Tables) 1.011	Gravity .700
	F _t = .9795				F _g = 1.1952

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

$$Q = \text{Calculated from orifice meter readings} = \underline{3653} \text{ MCF/D}$$

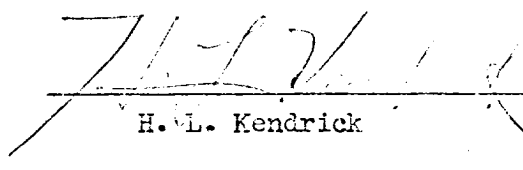
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{3920400}{3285191} \right)^n = (3653)(1.1933)^{.75} = (3653)(1.1417)$$

NOTE: The well produced 52.96 bbls. of 40 API Gravity oil into the tank.

$$Aof = \underline{4171} \text{ MCF/D}$$

TESTED BY H. E. McNally & Don NortonCALCULATED
WITNESSED BY T. B. Grant



 H.L. Kendrick