FORM 2?-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE May 22, 1969

Operator: El Paso Natural Gas		Lease: Huerfano Unit No. 196	
Location: 800'S; 1150'E; S-21; T-26N; R-10W		County: San Juan	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 6738	Tubing: Diameter: 2.375	Set At: Feet: 6608
Pay Zone: From: 6542	To: 6612	Total Depth: 6750	Shut In: 5-15-69
Stimulation Method: Sand Water Frac		Flow Through Casing	Flow Through Tubing: X

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: 1695	+ 12 = PSIA: 1707	Days Shut-In: 7	Shut-In Pressure, Tubing PSIG: 1151 / + 12 = PSIA: 1163
Flowing Pressure: P PSIG: 491 wh 191 M.R.	+ 12 = PSIA: 503 M.R. 203 M.R.		Working Pressure: P_w PSIG: 1053 / + 12 = PSIA: 1065
Temperature: T= 76 °F Ft= 9850	n = .75		Fpv (From Tables): 1.021 / Gravity: .700 Fg = 1.1952

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

Q = Calc. from orifice meter reading = 5884 MCF/D

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

$$\text{Aof} = \left(\frac{2913849}{1779624} \right)^n = (5884)(1.6373)^{.75} = (1.4474)(5884)$$

Note: Well Produced 27.6 bbls. of 56 gr. oil during test.

Aof = 8517 MCF/D

RECEIVED
MAY 23 1969
OIL CON. COM.
DIST. 3

TESTED BY C. R. Wagner

Calculated
~~WITNESSED~~ BY R. E. Stauffer

H. L. Kendrick