

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE March 20, 1969

Operator El Paso Natural Gas		Lease Huerfano Unit No. 192	
Location 800'S, 800'E, S-22 T-26N, R-9W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6683	Tubing: Diameter 2.375	Set At: Feet 6572
Pay Zone: From 6390	To 6560	Total Depth: 6690	Shut In 3-6-69
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

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 2021	+ 12 = PSIA 2033	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 2036	+ 12 = PSIA 2048	
Flowing Pressure: P PSIG 325 W.H.; 114 M.R.	+ 12 = PSIA 337 W.H.; 126 M.R.		Working Pressure: P _w PSIG 769	+ 12 = PSIA 781	
Temperature: T = 80 °F	n = .75		F _{pv} (From Tables) 1.012	Gravity .700	F _g = 1.1952

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

$$Q = \text{Calculated from orifice meter readings} = 3943 \text{ MCF/D}$$

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

$$Aof = \left(\frac{4,194,304}{3,584,343} \right)^n = (3943)(1.1701) \cdot 75 = (3943)(1.1249)$$

Note: This well produced 34.87 bbls. of 50.6 API gravity oil during the three hour test.

$$Aof = 4,435 \text{ MCF/D}$$

TESTED BY Goodwin - Norton
Calculated
WITNESSED BY G. A. Lippman

H. L. Kendrick
H. L. Kendrick

