

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

RE TEST

DATE March 28, 1968

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 160	
Location 990'S, 1800'E, Sec. 17, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6735	Tubing: Diameter 2.375	Set At: Feet 6558
Pay Zone: From 6472	To 6570	Total Depth: 6740	Shut In 4-20-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2" Plate; 4" MR		Choke Constant: C 20.211		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, 1936	PSIG	+ 12 = PSIA 1998	Days Shut-In 343	Shut-In Pressure, Tubing 1518	PSIG + 12 = PSIA 1530
Flowing Pressure: P 24 MR; 105 WH	PSIG	+ 12 = PSIA 36 MR; 117 WH		Working Pressure: P _w 420	PSIG + 12 = PSIA 432
Temperature: T = 87 °F		n = .75		F _{pv} (From Tables) 1.003	Gravity .700 F _g = 1.1952

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

$$Q = \text{Calculated from Orifice meter readings} = \underline{996} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3992004}{3805380} \right)^n = (996)(1.0490)^{.75} = (996)(1.0365)$$

NOTE: The well produced 52.96 bbls. of 40.3° API Gravity Oil into tank during the three hour test period.

$$Aof = \underline{1032} \text{ MCF/D}$$

TESTED BY D. R. Roberts & D. Norton

CALCULATED

WITNESSED BY H. E. McAnallyCHECKED BY T. B. Grant

H. L. Kendrick