

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 5-6-69

Operator El Paso Natural Gas		Lease Huerfano Unit No. 189	
Location 1600'S; 855'W; S-7; T-25N; R-9W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6878	Tubing: Diameter 2.375	Set At: Feet 6743
Pay Zone: From 6712	To 6760	Total Depth: 6878	Shut In 4-22-69
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 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1935	+ 12 = PSIA 1947	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 1586	+ 12 = PSIA 1598	
Flowing Pressure: P PSIG 271 W.H. 112 M.R.	+ 12 = PSIA 283 W.H. 124 M.R.		Working Pressure: P _w PSIG 711	+ 12 = PSIA 723	
Temperature: T = 65° F F _t = .9952	n = .75		F _{pv} (From Tables) 1.014	Gravity .700 F _g = 1.1952	

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

$$Q = \text{Calc. from orifice meter reading} = 3532 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3790809}{3268080} \right)^n = (1.1599)^{.75} 3532 = 1.1176 (3532)$$

Note: Well produced 14.17 barrels of 59.7 gr. oil during 3 hour flow period.

$$Aof = 3947 \text{ MCF/D}$$

TESTED BY T. D. N, J. G.
Calculated
WITNESSED BY R. E. S.

H. L. Kendrick
H. L. Kendrick

