

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 27, 1976

Operator El Paso Natural Gas Company		Lease Huerfano Unit #265 (GL)	
Location 800/N, 1150/W, Sec. 12, T26N, R10W		County San Juan	State New Mexico
Formation Gallup		Pool Angel Peak	
Casing: Diameter 9.625	Set At: Feet 7095'	Tubing: Diameter 2.375	Set At: Feet 6142'
Pay Zone: From 5916'	To 6220	Total Depth: 7095'	Shut In 12-29-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Plate Choke Size, Inches 2.500 4" M.R.		Plate Choke Constant: C 32.64		Tested through 3/4 variable choke	
Shut-In Pressure, Casing, PSIG 467	+ 12 = PSIA 479	Days Shut-In 29	Shut-In Pressure, Tubing PSIG 467	+ 12 = PSIA 479	
Flowing Pressure: P 5 W.H., 1 M.R.	+ 12 = PSIA 17 W.H., 13 M.R.		Working Pressure: P _w PSIG 197	+ 12 = PSIA 209	
Temperature: T = 70 °F	F _r = .9905	n = .75	F _{pv} (From Tables) 1.004	Gravity .670	F _g = 1.222

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = \text{Calculated from meter readings} = \underline{\hspace{2cm}} 71.49 \text{ MCF/D}$$

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

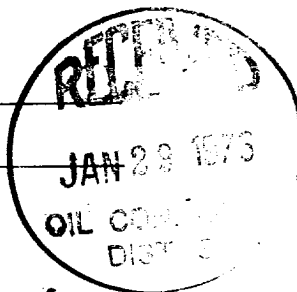
$$Aof = Q \left(\frac{229441}{185760} \right)^n = (71.49)(1.2351)^{.75} = (71.49)(1.1716)$$

$$Aof = \underline{\hspace{2cm}} 84 \text{ MCF/D}$$

Note: During 3 hours test, well produced 2 Bbls of 37.2° API oil, and no water-Gas vented was 48 MCF/D.

TESTED BY Norton- Hardy

WITNESSED BY _____



C. R. Wagner
Well Test Engineer