

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 15, 1973

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 236	
Location 1500'N, 890'W, Section 9, T26N, R9W		County San Juan	State New Mexico
Formation Gallup Ext.		Pool Angels Peak	
Casing: Diameter 4-1/2	Set At: Feet 6058	Tubing: Diameter 2-3/8	Set At: Feet 5970
Pay Zone: From 5712	To 5990	Total Depth: 6058	Shut In 4-28-73
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365		Well Tested Through 48/64 Choke	
Shut-In Pressure, Casing, PSIG 1052	+ 12 = PSIA 1064	Days Shut-In 48	Shut-In Pressure, Tubing PSIG 710	+ 12 = PSIA 722	
Flowing Pressure: P PSIG 26	+ 12 = PSIA 38		Working Pressure: P _w PSIG 339	+ 12 = PSIA 351	
Temperature: T = 87 °F	F _t = .9750	n = .75	F _{pv} (From Tables) 1.003	Gravity .720	F _g = .9129

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

$$Q = (12.365)(38)(.9750)(.9129)(1.003) = \underline{419} \text{ MCF/D}$$

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

NOTE: Well produced 31 bbl. of 40.3 gravity oil.

$$Aof = Q \left(\frac{1132096}{1008895} \right)^n = (419)(1.1221)^{.75} = (1.0903)$$

$$Aof = \underline{457} \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY _____



William D. Welch
William D. Welch, Well Test Engineer