

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 3, 1973

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 242	
Location 1025'S, 1550'E, Section 12, T26N, R10W		County San Juan	State New Mexico
Formation Gallup Ext.		Pool Angel Peak	
Casing: Diameter 4-1/2	Set At: Feet 6128	Tubing: Diameter 2-3/8	Set At: Feet 6057
Pay Zone: From 5682	To 6070	Total Depth: 6128	Shut In 5-27-73
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Meter Choke Size, Inches 4" MR		Orifice 2.750		Meter Choke Constant: C 41.10		Well Tested through 48/64 Choke	
Shut-In Pressure, Casing, 1016		PSIG	+ 12 = PSIA 1028	Days Shut-In 37	Shut-In Pressure, Tubing 1014	PSIG	+ 12 = PSIA 1026
Flowing Pressure: P WH 23		PSIG	+ 12 = PSIA WH 35	MR 14	Working Pressure: P _w 364	PSIG	+ 12 = PSIA 376
Temperature: T = 88 °F		F _t = .9741	n = .75		F _{pv} (From Tables) 1.003		Gravity .720 F _g = .9129

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

$$Q = \text{Calculated from meter readings} = \underline{220} \text{ MCF/D}$$

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

NOTE: Well produced 22 bbl. of 29.6 gravity oil.

$$Aof = Q \left(\frac{1056784}{915408} \right)^n = 220 (1.1544)^{.75} = 220 (1.1137)$$

$$Aof = \underline{245} \text{ MCF/D}$$

TESTED BY Bobby Broughton

WITNESSED BY _____



William D Welch
William D. Welch, Well Test Engineer