

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 6-27-73

Operator El Paso Natural Gas Company		Lease Huorfano Unit 243	
Location 1500/N, 850/W Sec. 31, T-26N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4 1/2	Set At: Feet 6479	Tubing: Diameter 2 3/8	Set At: Feet 6381
Pay Zone: From 6228	To 6388	Total Depth: 6479	Shut In 5-18-73
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Choke Size: Inches 4" Meter	Orifice 2.500	Choke Constant: C meter 32.61	Well tested thru 48/64 Choke
Shut-In Pressure, Casing, PSIG 1764	+ 12 = PSIA 1776	Days Shut-In 40	Shut-In Pressure, Tubing PSIG 1462
Flowing Pressure: P PSIG Mr. 47 Wh 190	+ 12 = PSIA Mr. 59 Wh 202	Working Pressure: P _w PSIG 674	+ 12 = PSIA 686
Temperature: T = 73 °F F _t = 98.77	n = .75	F _{pv} (from Tables) 1.022	Gravity 710 F _g = .9193

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

$$Q = \text{Calculated from meter readings} = 1285 \text{ MCF/D}$$

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

NOTE: Well produced 35 bbl. of liquid with 30 bbl. water and 5 bbl. of 46.6 gravity oil.

$$Aof = Q \left(\frac{3154176}{2683580} \right)^n$$

$$(1285)(1.1754)^{.75} = (1285)(1.1288)$$

$$Aof = 1451 \text{ MCF/D}$$

TESTED BY Hardy and Broughton

WITNESSED BY



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