

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE June 13, 1973

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Huerfano Unit # 238</u>	
Location <u>1840/S, 890/E Section 18, T-26N, R9W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Gallup Ext.</u>		Pool <u>Angel Peak</u>	
Casing: Diameter <u>4 1/2</u>	Set At: Feet <u>5995</u>	Tubing: Diameter <u>2 3/8</u>	Set At: Feet <u>5925</u>
Pay Zone: From <u>5638</u>	To <u>5928</u>	Total Depth: <u>5995</u>	Shut In <u>5-8-73</u>
Stimulation Method <u>SWF</u>		Flow Through Casing	Flow Through Tubing <u>X</u>

Meter Port Size, Inches <u>4" Mr. 2.750</u>		Orifice meter Choke Constant: C <u>41.10</u>		Well tested thru <u>48/64</u> choke	
Shut-In Pressure, Casing, PSIG <u>822</u>	+ 12 = PSIA <u>834</u>	Days Shut-In <u>36</u>	Shut-In Pressure, Tubing PSIG <u>714</u>	+ 12 = PSIA <u>726</u>	
Flowing Pressure: P Mr-2 Wh 16 PSIG	+ 12 = PSIA mr 14 wh 28		Working Pressure: Pw PSIG <u>372</u>	+ 12 = PSIA <u>384</u>	
Temperature: T = <u>89</u> °F	Ft = <u>.9732</u>	n = <u>.75</u>	Fpv (From Tables) <u>1.009</u>	Gravity <u>.720</u>	Fg = <u>.9129</u>

KE VOLUME = Q = C x P_i x F_i x F_g x F_{pv}

Q = Calculated from orifice meter readings. = 256 MCF/D

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

NOTE: Well produced 8 bbl of 34.2 gravity oil.

$$A_{of} = \left(\frac{695556}{548100} \right)^n = (256)(1.2690)^{.75} = (256)(1.1957)$$

A_{of} = 306 MCF/D

TESTED BY B. J. Broughton

WITNESSED BY _____



William D. Welch

William D. Welch, Well Test Engineer