

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 27, 1973

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Jicarilla 183 #6</u>	
Location <u>800/S, 1700/E, Sec. 27, 7-23N, R-3W</u>		County <u>Sandoval</u>	State <u>New MEXICO</u>
Formation <u>Pictured Cliffs <i>Ext</i></u>		Pool <u><del>Undes</del> <i>Ballard</i></u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>2981'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>2870</u>	To <u>2900'</u>	Total Depth: <u>2981</u>	Shut In <u>8-10-73</u>
Stimulation Method <u>Sand Water Frac</u>		Flow Through Casing <u>X</u>	Flow Through Tubing

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <u>338</u>	+ 12 = PSIA <u>350</u>	Days Shut-In <u>17</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>173</u>	+ 12 = PSIA <u>185</u>		Working Pressure: P <sub>w</sub> PSIG <u>Calculated</u>	+ 12 = PSIA <u>231</u>	
Temperature: T = <u>68</u> °F	n = <u>.85</u>		F <sub>pv</sub> (From Tables) <u>1.020</u>	Gravity <u>.705</u>	F <sub>g</sub> = <u>.9225</u>
F <sub>t</sub> = <u>.9924</u>					

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

$$Q = (12.365)(185)(.9924)(.9225)(1.020) = \underline{2136} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{122500}{69139} \right)^n = 2136 (1.7718)^{.85} = 2136 (1.626)$$

$$Aof = \underline{3474} \text{ MCF/D}$$

Note: The well produced dry gas.

TESTED BY Norton

WITNESSED BY \_\_\_\_\_

William D. Welch  
Well Test Engineer

