

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 25, 1972

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Mudge No. 30</u>	
Location <u>870/E, 1550/W, Sec. 12 T 31N, R 11W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs <i>Egt</i></u>		Pool <u><i>Blanco</i></u> Undesignated	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>2955</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet
Pay Zone: From <u>2834</u>	To <u>2868</u>	Total Depth: <u>2955</u>	Shut In <u>7-17-72</u>
Stimulation Method <u>G.W.F.</u>		Flow Through Casing <u>XX</u>	Flow Through Tubing

Choke Size, Inches <u>0.750</u>		Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <u>929</u>	+ 12 = PSIA <u>941</u>	Days Shut-In <u>8</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>59</u>	+ 12 = PSIA <u>71</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>88</u>	
Temperature: T = <u>62</u> °F	F _t = <u>.9981</u>	n = <u>.85</u>	F _{pv} (From Tables) <u>1.007</u>	Gravity <u>.635</u>	F _g = <u>.9721</u>

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

$$Q = (12.365)(71)(.9981)(.9721)(1.007) = \underline{858} \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n \quad \text{NOTE: None}$$

$$Aof = \left(\frac{885481}{877137} \right)^n = (858)(1.0088)^{.85} = (858)(1.0075)$$

$$Aof = \underline{864} \text{ MCF/D}$$

TESTED BY C. Rhames

WITNESSED BY _____


J. A. Jones
