

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE 7-8-71

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Nye No. 5</u>	
Location <u>990' S, 1090' W, S9, T29N, R10W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool <u>Aztec</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>2285</u>	Tubing: Diameter <u>no tubing</u>	Set At: Feet
Pay Zone: From <u>2180</u>	To <u>2200</u>	Total Depth: <u>2300</u>	Shut In <u>6-30-71</u>
Stimulation Method <u>S W F</u>		Flow Through Casing <u>xxx</u>	Flow Through Tubing

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>		<u>tubingless completion</u>	
Shut-In Pressure, Casing, PSIG <u>570</u>	+ 12 = PSIA <u>582</u>	Days Shut-In <u>8</u>	Shut-In Pressure, Tubing PSIG <u>no tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>75</u>	+ 12 = PSIA <u>87</u>		Working Pressure: P <sub>w</sub> PSIG <u>calculated</u>	+ 12 = PSIA <u>101</u>	
Temperature: T = <u>65</u> °F	F <sub>t</sub> = <u>.9952</u>	n = <u>.85</u>	F <sub>p</sub> (From Tables) <u>1.009</u>	Gravity <u>.650</u>	F <sub>g</sub> = <u>.9608</u>

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

$$Q = 12.365 \times 87 \times .9952 \times .9608 \times 1.009 = \underline{1038} \text{ MCF/D}$$

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

Note: Blew light fog of water for 3 hours.

$$Aof = \left( \frac{338724}{327908} \right)^n = 1038(1.0329)^{.85} = 1038(1.0279)$$

$$Aof = \underline{1067} \text{ MCF/D}$$

TESTED BY Jesse B Goodwin

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

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