

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

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Lackey A No. 5</u>	
Location <u>1040' S, 1780' E, S 11, 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>2346</u>	Tubing: Diameter <u>no tubing</u>	Set At: Feet
Pay Zone: From <u>2214</u>	To <u>2254</u>	Total Depth: <u>2346</u>	Shut In <u>6-26-71</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>622</u>	+ 12 = PSIA <u>634</u>	Days Shut-In <u>12</u>	Shut-In Pressure, Tubing PSIG <u>no tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>273</u>	+ 12 = PSIA <u>285</u>	Working Pressure: Pw PSIG <u>calculated</u>	+ 12 = PSIA <u>343</u>		
Temperature: T = <u>70</u> °F	Ft = <u>.9905</u>	n = <u>.85</u>	Fpv (From Tables) <u>1.026</u>	Gravity <u>.650</u>	Fg = <u>.9608</u>

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

$$Q = 12.365 \times 285 \times .9905 \times .9608 \times 1.026 = \underline{3441} \text{ MCF/D}$$

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

Note: Blew light fog of water for 3 hours.

$$Aof = \left( \frac{401956}{284307} \right)^n = 3441(1.4138)^{.85} = 3441(1.3422)$$

$$Aof = \underline{4619} \text{ MCF/D}$$

TESTED BY Jesse B Goodwin

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