

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 23, 1974

Operator <u>El Paso Natural Gas Company</u>		Lease <u>San Juan 28-7 Unit #169 (CH)</u>	
Location <u>1058/N, 840/W, Sec. 9, T27N, R7W</u>		County <u>Rio Arriba</u>	State <u>New Mexico</u>
Formation <u>Chacra</u>		Pool <u>Undes</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>4393'</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>--</u>
Pay Zone: From <u>4276</u>	To <u>4292</u>	Total Depth: <u>PBTD</u> <u>4393' 4368</u>	Shut In <u>4-5-74</u>
Stimulation Method <u>Sandwater Frac</u>		Flow Through Casing <u>XX</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>743</u>	+ 12 = PSIA	Days Shut-In <u>18</u>	Shut-In Pressure, Tubing PSIG <u>No Tubing</u>	+ 12 = PSIA	<u>--</u>
Flowing Pressure: P PSIG <u>5</u>	+ 12 = PSIA		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA	<u>23</u>
Temperature: T = <u>60</u> °F	n = <u>17</u>		F _p (From Tables) <u>1.004</u>	Gravity <u>.655</u>	F _g = <u>.9571</u>
F _t = <u>1.0000</u>	<u>.75</u>				

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

$$Q = 12.365(17)(1.000)(.9571)(1.004) = \underline{\hspace{2cm}} 202 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{570025}{569496} \right)^n = 202(1.0009)^{.75} = 202(1.0006)$$

$$Aof = \underline{\hspace{2cm}} 202 \text{ MCF/D}$$

Note: The well produced a heavy mist of water.

TESTED BY Goodwin

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

