

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE July 19, 1962

Operator <b>El Paso Natural Gas Company</b>	Lease <b>Lodewick No. 10</b>
Location <b>1190'N, 990'W, Sec. 30-27-9</b>	County <b>San Juan</b> State <b>New Mexico</b>
Formation <b>Dakota</b>	Pool <b>Basin</b>
Casing Diameter <b>4-1/2</b> Set At: Feet <b>6979</b>	Tubing Diameter <b>2-3/8</b> Set At: Feet <b>6828</b>
Flow Zones From <b>6716</b> To <b>6878</b>	Total Depth <b>6988 c/o 6900</b> Shut In <b>7-12-62</b>
Fluidation Method <b>Sand/Water Frac.</b>	Flow Through Tubing <b>X</b>

Choke Size, Inches <b>.750</b>	Choke Constant: C <b>12.365</b>	Days Shut-in <b>7</b>	Shut-In Pressure, Tubing <b>1569</b>	PSIG	12	PSIA <b>1581</b>	
Water Flow, gals./day <b>1605</b>	PSIG	12	PSIA <b>1617</b>	Working Pressure: Pw <b>818</b>	PSIG	12	PSIA <b>830</b>
Flowing Pressure: P <sub>w</sub> <b>231</b>	PSIG	12	PSIA <b>243</b>	Flow From Test(s) <b>1.024</b>	Gravity	<b>.670</b>	Fg <b>.9463</b>
Temperature <b>74</b>	<b>.9868</b>	<b>.75</b>					

CHOKED FLOW Q = C × P<sub>1</sub> × F<sub>1</sub> × F<sub>g</sub> × F<sub>v</sub>

Q = (12.365)(243)(.9868)(.9463)(1.024)

2873 MCF/D

OPEN FLOW Q =  $\left( \frac{P_1^2 - P_w^2}{P_1^2} \right)^n$

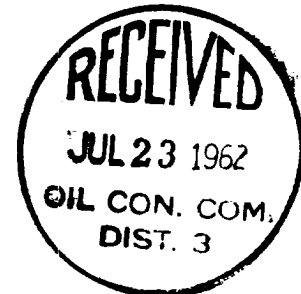
Q =  $\left( \frac{2,614,689 - 1,925,789}{2,614,689} \right)^n$

(1.3577)<sup>.75</sup>(2873) = (1.2576)(2873)

Q = 3613 MCF/D

D. E. Mortensen

Checked by: C. R. Wagner



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