

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 6, 1968

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Graveling "3" No. 2 (OWO)</u>	
Location <u>890' S, 1550' W, Sec. 14, T-30-N, R-10-W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Mesa Verde</u>		Pool <u>Blanco</u>	
Casing: Diameter <u>2.875</u>	Set At: Feet <u>5512</u>	Tubing: Diameter <u>No Tubing</u>	Set At: Feet <u>---</u>
Pay Zone: From <u>4740</u>	To <u>5458</u>	Total Depth: <u>5515</u>	Shut In <u>7-21-68</u>
Stimulation Method <u>Sand water frac</u>		Flow Through Casing <u>X</u>	Flow Through Tubing <u>---</u>

Choke Size, Inches <u>.750</u>	Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, <u>332</u> PSIG	+ 12 = PSIA <u>344</u>	Days Shut-In <u>17</u>	Shut-In Pressure, Tubing <u>No Tubing</u>	PSIG + 12 = PSIA <u>---</u>
Flowing Pressure: P <u>201</u> PSIG	+ 12 = PSIA <u>213</u>		Working Pressure: P _w <u>Calculated</u>	PSIG + 12 = PSIA <u>225</u>
Temperature: T = <u>66</u> °F	n = <u>.75</u>		F _{pv} (From Tables) <u>1.021</u>	Gravity <u>.665</u> F _g = <u>.9498</u>

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

$$Q = (12.365)(213)(.9943)(.9498)(1.021) = \underline{2540} \text{ MCF/D}$$

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

$$Aof = \left(\frac{712,336}{626,437} \right)^n = (2540)(1.1370)^{.75} = (2540)(1.1011)$$

Note: Well blew a light fog of H₂O and dis tillate throughout the test.

$$Aof = \underline{2797} \text{ MCF/D}$$

TESTED BY C. R. WagnerCalculated
WITNESSED BY H. L. Kendrick

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