

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 10-21-66

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Marble No. 4 (2770)</u>	
Location <u>75°10', 130°W, Sec. 35, T-31-N, R-10-W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Marble</u>		Pool <u>10000</u>	
Casing: Diameter <u>4.500</u>	Set At: Feet <u>5772</u>	Tubing: Diameter <u>2.375</u>	Set At: Feet <u>5603</u>
Pay Zone: From <u>1200</u>	To <u>5608</u>	Total Depth: <u>5772</u>	Shut In <u>10-21-66</u>
Stimulation Method <u>Gravel Water Free</u>		Flow Through Casing	Flow Through Tubing <u>X</u>

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>			
Shut-In Pressure, Casing, PSIG <u>843</u>	+ 12 = PSIA <u>855</u>	Days Shut-In <u>7</u>	Shut-In Pressure, Tubing PSIG <u>585</u>	+ 12 = PSIA <u>595</u>	
Flowing Pressure: P PSIG <u>325</u>	+ 12 = PSIA <u>337</u>		Working Pressure: Pw PSIG <u>737</u>	+ 12 = PSIA <u>749</u>	
Temperature: T = <u>95</u> °F	Ft = <u>.9680</u>	n = <u>.75</u>	Fpv (From Tables) <u>1.030</u>	Gravity <u>.600</u>	Fg = <u>.9305</u>

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

$$Q = (12.365)(337)(.9680)(.9325)(1.030) = \underline{3874} \text{ MCF/D}$$

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

$$Aof = \left(\frac{731025}{170024} \right)^n = (3874)(4.2995)^{.75} = (3874)(2.9668)$$

NOTE: The well unloaded a large slug of water and dist. after four minutes. Then it produced a light spray of water and dist. throughout the test.

$$Aof = \underline{11571} \text{ MCF/D}$$

TESTED BY H. B. McAnallyWITNESSED BY E. B. Grant

H. L. Kendrick
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