

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 10-1-66

Operator <u>El Paso Natural Gas Company</u>		Lease <u>El Paso Unit No. 205</u>	
Location <u>Blanco, Sec. 27, T-07-S, R-04-E</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Salt</u>		Pool <u>Salt</u>	
Casing: Diameter <u>1.500</u>	Set At: Feet <u>607</u>	Tubing: Diameter <u>0.875</u>	Set At: Feet <u>607</u>
Pay Zone: From <u>0</u>	To <u>600</u>	Total Depth: <u>600</u>	Shut In <u>600</u>
Stimulation Method <u>Salt Water Flood</u>		Flow Through Casing	Flow Through Tubing

Choke Size, Inches <u>1.500</u>		Choke Constant: C <u>20.365</u>			
Shut-In Pressure, Casing, PSIG <u>207</u>	+ 12 = PSIA <u>207</u>	Days Shut-In <u>0</u>	Shut-In Pressure, Tubing PSIG <u>207</u>	+ 12 = PSIA <u>207</u>	
Flowing Pressure: P PSIG <u>103</u>	+ 12 = PSIA <u>103</u>		Working Pressure: Pw PSIG <u>100</u>	+ 12 = PSIA <u>100</u>	
Temperature: T = <u>111</u> °F	n = <u>.75</u>		Fpv (From Tables) <u>1.010</u>	Gravity <u>.670</u>	Fg = <u>.9163</u>

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

$$Q = (20.365)(207)(.9804)(.9163)(1.010) = 2400$$

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

$$Aof = \left(\frac{1951844}{3756228} \right)^n = (2400)(1.1319)^{.75} = (2400)(1.0974)$$

NOTE: Made heavy slug of H₂O and hydrocarbons after being on approximately 3 minutes and then made heavy spray throughout test.

$$Aof = 2656 \text{ MCF/D}$$

TESTED BY E. L. KenderichWITNESSED BY E. L. Kenderich

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