

DEL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

WELL NO. 10-1-36DATE NOV 3 1966

Operator <u>Del Paso Natural Gas Co.</u>		Lease <u>10-1-36 (10)</u>	
Location <u>10-1-36 (10)</u>		County <u>Del Paso</u>	State <u>Texas</u>
Formation <u>Permian</u>		Pool <u>Permian</u>	
Casing: Diameter <u>8.000</u>	Set At: Feet <u>7100</u>	Tubing: Diameter <u>2.375</u>	Set At: Feet <u>7100</u>
Pay Zone: From <u>0</u>	To <u>1000</u>	Total Depth: <u>7100</u>	Shut in <u>10-3-66</u>
Stimulation Method <u>Acid Fracturing</u>		Flow Through Casing	Flow Through Tubing <u>X</u>

Choke Size, Inches <u>.75</u>	Choke Constant: C <u>12.365</u>		Tubing Inlet P Factor <u>52.50</u>	
Shut-in Pressure, Casing, <u>1000</u> PSIG	+ 12 = PSIA <u>1012</u>	Days Shut-in <u>10</u>	Shut-in Pressure, Tubing <u>1043</u> PSIG	+ 12 = PSIA <u>1055</u>
Flowing Pressure: P <u>100</u> PSIG	+ 12 = PSIA <u>112</u>		Working Pressure: Pw <u>1000</u> PSIG	+ 12 = PSIA <u>1012</u>
Temperature: <u>100</u> °F	Fr = <u>.9915</u>	n = <u>.75</u>	Fpv (From Tables) <u>1.014</u>	Gravity <u>.9958</u> Fg = <u>.9958</u>

TEMP (avg) = 100 psig
 WTPC (avg) = 1001 psig

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

$$Q = 12.365 (112) (.9915) (.9958) (1.014) = 1473 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1473 \times 1000}{376524} \right)^{.75} = 1473 (1.0199)^{.75} = 1473 (1.0149)$$

NOTE: Distillate and water sprayed immediately. Slight surge of fluids occurred during first two hours of test.

$$Aof = 1495 \text{ MCF/D}$$

TESTED BY A. F. TolandWITNESSED BY H. E. Koneck

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