

OCF

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 4-9-73

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Nye #10</u>	
Location <u>1500/N, 1840/E, Sec. 9, T29N, R10W</u>		County <u>San Juan</u>	State <u>NM</u>
Formation <u>Fruitland</u>		Pool	
Casing: Diameter <u>2 7/8</u>	Set At: Feet <u>2106</u>	Tubing: Diameter <u>No tubing</u>	Set At: Feet
Pay Zone: From <u>1988</u>	To <u>2008</u>	Total Depth: <u>2106</u>	Shut In <u>3/30/73</u>
Stimulation Method <u>SWF</u>		Flow Through Casing <u>X</u>	Flow Through Tubing

Choke Size, Inches <u>.750</u>		Choke Constant: C <u>12.365</u>		Tubingless Completion	
Shut-In Pressure, Casing, PSIG <u>670</u>	+ 12 = PSIA <u>682</u>	Days Shut-In <u>10</u>	Shut-In Pressure, Tubing PSIG <u>No tubing</u>	+ 12 = PSIA	
Flowing Pressure: P PSIG <u>96</u>	+ 12 = PSIA <u>108</u>		Working Pressure: P _w PSIG <u>Calculated</u>	+ 12 = PSIA <u>128</u>	
Temperature: T = <u>56</u> °F Ft = <u>1.0039</u>	n = <u>.85</u>		Fpv (From Tables) <u>1.009</u>	Gravity <u>.650</u>	Fg = <u>.9608</u>

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

$$Q = (12.365)(108)(1.0039)(.9608)(1.009) = \underline{1,300} \text{ MCF/D}$$

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

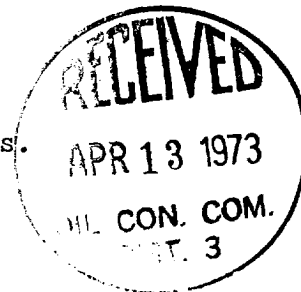
$$Aof = Q \left(\frac{465124}{448740} \right)^n = (1300)(1.0365)^{.85} = (1300)(1.0309)$$

$$Aof = \underline{1,341} \text{ MCF/D}$$

NOTE: Well blew dry gas.

TESTED BY Norton

WITNESSED BY _____



William D. Welch
William D. Welch
Well Test Engineer