

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE June 26, 1964

Operator <u>El Paso Natural Gas Company</u>		Lease <u>Survey No. 2-E (PC) (OMMO)</u>	
Location <u>1650'S, 990'W, Sec. 9, T-30-N, R-10-W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Pictured Cliffs</u>		Pool	
Casing: Diameter <u>7.625</u>	Set At: Feet <u>3206</u>	Tubing <u>2.375</u>	Set At: Feet <u>3025</u>
Pay Zone: From <u>2996</u>	To <u>3020</u>	Total Depth: <u>5136</u>	Shut In <u>6-11-64</u>
Stimulation Method <u>Sand Water Frec.</u>		Flow Through Casing <u>X</u>	Flow Through Tubing

Choke Size, Inches <u>0.750</u>		Choke Constant: C <u>12.365</u>		Baker Model "D" Packer Set at <u>3100'</u>			
Shut-In Pressure, Casing, (PC) <u>611</u>	PSIG	+ 12 = PSIA <u>623</u>	Days Shut-In <u>15</u>	Shut-In Pressure, Tubing (PC) <u>611</u>	PSIG	+ 12 = PSIA <u>623</u>	
Flowing Pressure: P <u>104</u>	PSIG	+ 12 = PSIA <u>116</u>		Working Pressure: Pw <u>115</u>	PSIG	+ 12 = PSIA <u>127</u>	
Temperature: T = <u>63</u> °F		n = <u>.85</u>		Fpv (From Tables) <u>1.010</u>		Gravity <u>.642</u>	Fg = <u>.9682</u>

ISIPT (MV) = 661 psigFSIPT (MV) = 665 psigCHOKE VOLUME = Q = C x P_i x F_i x F_g x F_{pv}

$$Q = (12.365)(116)(.9971)(.9682)(1.010) = \underline{1399} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{388129}{372000} \right)^n = (1399)(1.0433)^{.85} = (1399)(1.0367)$$

NOTE: Blew clear gas.

$$A_{of} = \underline{1450} \text{ MCF/D}$$

TESTED BY W. D. Dawson

WITNESSED BY _____



Lewis D. Galloway
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