

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE **November 27, 1961**

Operator <u>J. Glenn Turner</u>		Lease <u>Ballard No. 12-15</u>	
<u>La Plata Gathering System</u>			
Location <u>1670'S, 1740'E, Sec. 15-26N-9W</u>		County <u>San Juan</u>	State <u>New Mexico</u>
Formation <u>Dakota</u>		Pool <u>Basin</u>	
Casing: Diameter <u>5-1/2"</u>	Set At: Feet <u>15 lbs.</u>	Tubing: Diameter <u>2-3/8</u>	Set At: Feet <u>6400</u>
Pay Zone: From <u>6378</u>	To <u>6642</u>	Total Depth: <u>6400</u>	Shut In <u>11-13-61</u>
Stimulation Method <u>Sand Water Frac.</u>		Flow Through Casing	Flow Through Tubing <u>X</u>

Choke Size, Inches <u>.75</u>	Choke Constant: C <u>12.365</u>		
Shut-In Pressure, Casing, PSIG <u>2055</u>	PSIG - 12" PSIA <u>2067</u>	Days Shut-In <u>14</u>	Shut-In Pressure, Tubing, PSIG <u>2070</u>
Flowing Pressure: P, PSIG <u>481</u>	PSIG - 12" PSIA <u>493</u>		Working Pressure: P _w , PSIG <u>1015</u>
Temperature: <u>86 F</u>	F _r <u>.9759</u>		F _{pv} (From Tables) <u>1.046</u>
	<u>.75</u>		Gravity <u>.670</u>
			F _g <u>.9463</u>

CHOKE VOLUME $Q = C \times P_r \times F_r \times F_g \times F_{pv}$

$$Q = (12.365)(493)(.9759)(.9463)(1.046)$$

5889

MCF D

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

Aof $\left(\frac{4,334,724}{3,279,995} \right)^n$

$$(1.3215)(5889)^{.75} = (1.2325)(5889)$$

Aof

7258

MCF D



NOTE: Blew heavy fog of H₂O & Oil throughout test

TESTED BY C. R. Wagner

WITNESSED BY Oliver Towel - La Plata Gathering System

Checked by: T. B. Grant

Lewis D. Galloway
Lewis D. Galloway