

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE **August 6, 1961**

Operator El Paso Natural Gas Company		Lease Mudge No. 26	
Location 1450'S, 1190'W, Sec. 21-31N-11W		County San Juan	State New Mexico
Formation Dakota		Basin	
Casing Diameter 4-1/2" O.D.	Set At Feet 7225	Tubing Diameter 2-3/8" O.D.	Set At Feet 7147
Flow Line From 6900	To 7065	Total Depth c/o 7193	Shut In 7-20-61
Stratification Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Keystone Factor 0.750	Keystone Constant C 12.365	Days Shut In 17	Shut-in Pressure, Tubing 1840	PSIG 12 PSIA 1852
Shut-in Pressure, Casing 2130	PSIG 12 PSIA 2142	Working Pressure, Pw 757	PSIG 12 PSIA 769	
Flowing Pressure, Pwf 261	PSIG 12 PSIA 273	Eq. Fract. Tablest 1.023	Gravity .650	Fg .9608
Temperature 86	Ft .9759			

$$Q = C \times P_i \times F_i \times F_g \times F_{fv}$$

$$Q = (12.365)(273)(.9759)(.9608)(1.023)$$

3238

MCF D

$$Q = \left(\frac{P_i^2 - P_w^2}{P_i^2 - P_w^2} \right)^n$$

$$Q = \left(\frac{4,588,164}{3,996,803} \right)^n$$

$$(1.1479)^{.75}(3238) = (1.1090)(3238)$$

3591

MCF D

Dannie Roberts

Checked by: W. D. Dawson

Lewis D. Galloway
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