

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE **July 1, 1959**

Operator Pacific Northwest		Lease San Juan 32-9 No. 71-33	
Location 950N, 890E; 33-32N-9W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 5-1/2	Set At: Feet 6000	Tubing Diameter 1-1/4	Set At: Feet 5955
Pay Zone: From 5432	To 5994	Total Depth 6000	Shut in: 6/17/59
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 1077	- 12 = PSIA 1089	Days Shut-In 14	Shut-In Pressure, Tubing, PSIG 1077
Flowing Pressure: F, PSIG 273	- 12 = PSIA 285	Working Pressure: Pw, PSIG 277	- 12 = PSIA 289
Temperature: T, °F 68	°F .75	Fpv (From Tables) 1.027	Gravity .650

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

$$Q = 12.365 \times 285 \times .9924 \times .9608 \times 1.027 = 3451 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1185921}{1102400} \right)^n = 1.0757^{.75} \times 3451 = 1.0594 \times 3451$$

$$Aof = 3656 \text{ MCF/D}$$

RECORDED BY C. R. Wagner

WITNESSED BY Not witnessed by EPNG

cc: EPNG Distribution only



L. D. Galloway
L. D. Galloway
by J. H. K.

OIL CONSERVATION COMMISSION		
DISTRICT OFFICE		
NO. COPIES <u>3</u>		
NO. COPIES <u>3</u>		
Operator	NO. COPIES	
Santa Fe	1	
Proration		
State Land		
U. S. G. S.	1	
Transporter		
File	1	✓