

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADUAL COMPLETIONDATE **February 7, 1958**

Operator El Paso Natural Gas Company		Lease Riddle No. 4-F (M)	
Location 1000'N, 1550'E, Sec. 29-28-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 2374	Tubing: Diameter 2"	Set At: Feet 4551
Pay Zone: From 4534	To 4824	Total Depth: 4658 - e/o 4615	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750	Choke Constant: C 12.365		5-1/2" liner. 2339 - 4634	
Shut-In Pressure, Casing, PSIG PC 853	- 12 = PSIA 865	Days Shut-In 24	Shut-In Pressure, Tubing PSIG MV 1072	- 12 = PSIA 1084
Flowing Pressure: P PSIG 362	- 12 = PSIA 374		Working Pressure, P _w PSIG Calculated	- 12 = PSIA 710
Temperature: T °F 64	n = 0.75		F _{pv} (From Tables) 1.047	Gravity 0.717

Initial SIPC (PC) - 853 psig; final - 856 psig. 1-1/4" at 2228. Packer at 2379.

CHOKE VOLUME = Q = C x P_c x F_c x F_g x F_{pv}

$$Q = 12.365 \times 374 \times .9962 \times .9161 \times 1.047 = 4419 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,175,056}{670,956} \right)^{.75} \times 4419 = 1.5225 \times 4419$$

$$Aof = 6728 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____

cc: E. S. Oberly (6)

L. D. Galloway
L. D. Galloway



OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received	3	
DATE RECEIVED		
BY		
APPROVED		
RECEIVED	1	
DATE		
STATE		
U. S. S.	1	
Transporter		
File	1	✓