

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 29, 1957

Operator El Paso Natural Gas Company		Lease Donahue #1	
Location 990S, 990W 7-25-7		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Wildcat	
Casing: Diameter 5 1/2	Set At: Feet 2785	Tubing: Diameter 1 1/4	Set At: Feet 2744
Pay Zone: From 2718	To 2748	Total Depth: 2780 c/o 2760	
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 645	- 12 = PSIA 657	Days Shut-In 11	Shut-In Pressure, Tubing, PSIG 645	- 12 = PSIA 657	
Flowing Pressure: P, PSIG 115	- 12 = PSIA 127		Working Pressure: Pw, PSIG 119	- 12 = PSIA 131	
Temperature: T, F 59	n = 0.850		Fpv (From Tables) 1.011	Gravity 650	

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

$$Q = 12.365 \times 127 \times 1.0010 \times .9608 \times 1.011 = 1527 \text{ MCF/D}$$

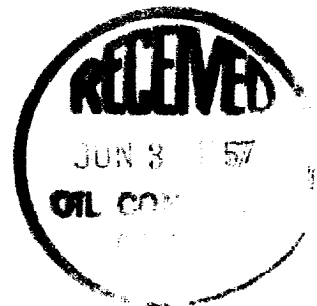
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{431649}{414488} \right)^n = 1.0414^{.85} = 1.0351 \times 1527$$

$$Aof = 1581 \text{ MCF/D}$$

TESTED BY Tom Grant

WITNESSED BY _____



L. D. Galloway
L. D. Galloway

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

No. Copies Received 3

DISTRIBUTION

	NO. FURNISHED	
Operator		
Santa Fe	1	
Proration Office	1	
State Land Office		
U. S. G. S.		
Transporter		
File	1	✓