

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 3, 1957

Operator El Paso Natural Gas		Lease San Juan 29-4 Unit No. 14-31	
Location 1190'M, 990'E, Sec. 31-29-4		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 7-5/8	Set At: Feet 4414	Tubing Diameter 2"	Set At: Feet 6577
Pay Zone: From 6152	To 6189	Total Depth: 6680	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.75	Choke Constant: C 12.365	5-1/2" liner - 6639	
Shut-In Pressure, Casing, PSIG 1137	PSIG - 12 = PSIA 1149	Days Shut-In 19	Shut-In Pressure, Tubing, PSIG 1136
Flowing Pressure: P _i , PSIG 97	PSIG - 12 = PSIA 109	Working Pressure: P _w , PSIG 548	PSIG - 12 = PSIA 560
Temperature: T 71	F 75	Fpv (From Tables) 1.010	Gravity 0.706

CHOKE VOLUME $Q = C \times P_i \times F_i \times F_g \times F_{pv}$

$$Q = 12.365 \times 109 \times .9896 \times .9225 \times 1.010 = 1243 \text{ MCF D}$$

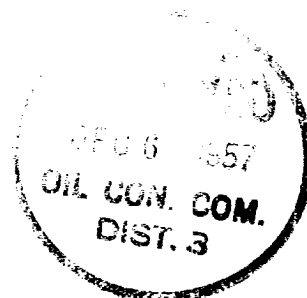
$$\text{OPEN FLOW } Aof = Q \left(\frac{P_i^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{1,320,201}{1,006,601} \right)^{.75} \times 1243 = 1.2250 \times 1243$$

$$Aof = 1523 \text{ MCF D}$$

TESTED BY Jess Goodwin and Richard Proctor

WITNESSED BY _____



L. D. Galloway
L. D. Galloway

OIL CONSERVATION COMMISSION

ACTEC DISTRICT OFFICE

County: 3

Section: 1

Sub-section: 1

Block: 1

Lot: 1

Tract: 1

Acres: 1

Owner: 1

Operator: 1

Transporter: 1

File: 1

✓