

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 19, 1958

Operator El Paso Natural Gas		Lease Rincon No. 123	
Location 990S, 1190W, 13-27-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco Mesa Verde	
Casing: Diameter 7-5/8"	Set At: Feet 3424'	Tubing: Diameter 2"	Set At: Feet 5599
Pay Zone: From 5386	To 5656'	Total Depth: 5717'	Shut-In 4/18/58
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		5-1/2" Liner 3373' - 5717'	
Shut-In Pressure, Casing, PSIG 1110	- 12 = PSIA 1122	Days Shut-In 31	Shut-In Pressure, Tubing, PSIG 1098	- 12 = PSIA 1110	
Flowing Pressure: P, PSIG 212	- 12 = PSIA 224		Working Pressure: P _w , PSIG 641	- 12 = PSIA 653	
Temperature: T 63			F _{pv} (From Tables) 1.020	Gravity .637	

CHOKE VOLUME = $Q = C \times P_c \times F_p \times F_g \times F_{pv}$

$$Q = 12.365 \times 224 \times .9971 \times .9721 \times 1.020 = 2738 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1258884}{832475} \right)^n = 1.5122^{.75} \times 2739 = 1.3640 \times 2739 = 3735 \text{ MCF/D}$$

Aof = 3735 MCF/D

(Blew moderate white spray)

TESTED BY F. M. Clark

WITNESSED BY _____

Checked By Robert R. Davis

Lewis D. Galloway
L. D. Galloway

