

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 30, 1979

Operator El Paso Natural Gas Company		Lease Rincon Unit #126 (DK)	
Location SW 27-27-6		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 7.000	Set At: Feet 7718	Tubing: Diameter 2 3/8	Set At: Feet 7608
Pay Zone: From 7416	To 7638	Total Depth: 7718	Shut In 5-22-79
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG ---	+ 12 = PSIA	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 976	+ 12 = PSIA 988	
Flowing Pressure: P PSIG 124	+ 12 = PSIA 136		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 298	
Temperature: T = 61 °F	n = 0.75		F _{pv} (From Tables) 1.017	Gravity 0.740 Fg 0.9005	

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

$$Q = (12.365) (136) (0.9990) (0.9005) (1.017) = \underline{1539} \text{ MCF/D}$$

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

$$Aof = \left(\frac{976144}{887340} \right)^n Q = (1539) (1.1001)^{.75} = (1539) (1.0742)$$

$$Aof = \underline{1653} \text{ MCF/D}$$

NOTE: The Well Produced 243 MCF of Gas During the Test. The Well Unloaded a Slug of Liquids 5 Minutes After the Test Started and Produced a Heavy Fog of Distillate and Water for the Remainder of the Test.

TESTED BY Herb McDanielsWITNESSED BY Ray Maldonado

C.R. Haper
Well Test Engineer