

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE July 23, 1979

Operator El Paso Natural Gas Company		Lease Kelly B #1A (MV)	
Location NW 8-30-10		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5599	Tubing: Diameter 2 3/8	Set At: Feet 5527
Pay Zone: From 4998	To 5564	Total Depth: 5599	Shut In 7-15-79
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		
Shut-In Pressure, Casing, PSIG -----	+ 12 = PSIA -----	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 754
Flowing Pressure: P 274 PSIG	+ 12 = PSIA 286	Working Pressure: P <sub>w</sub> Calc.	+ 12 = PSIA 569
Temperature: T = 71 °F	n = .75	F <sub>pv</sub> (From Tables) 1.026	Gravity .650 F <sub>g</sub> = .9608

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

$$Q = 12.365 \times 286 \times .9896 \times .9608 \times 1.026 = \underline{\quad 3450 \quad} \text{ MCF/D}$$

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

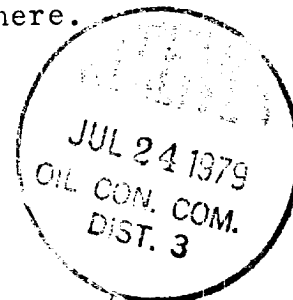
$$Aof = \left( \frac{586756}{262995} \right)^{.75} = (2.2311)^{.75} (3450) = (1.8255) (3450)$$

NOTE: Well Blew A Very Light Fog Of Water Through out Test and Vented 343 MCF To The Atmosphere.

$$Aof = \underline{\quad 6298 \quad} \text{ MCF/D}$$

TESTED BY JIM THRUSTONSON

WITNESSED BY \_\_\_\_\_



*C. R. Wagner*  
Well Test Engineer