

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

COMPANY DISTRIBUTION ONLY

DATE May 15, 1979

Operator <u>Ralph Abbott</u> <i>Fast Enterprises</i>		Lease Federal #3-11	
Location I Sec. 11, T-28-N, R-13-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool West Kutz	
Casing: Diameter 2.875	Set At: Feet 1814'	Tubing: Diameter None	Set At: Feet
Pay Zone: From 1641	To 1655	Total Depth: 1826	Shut In 5-8-79
Stimulation Method Foam Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 191	+ 12 = PSIA 203	Days Shut-In 7	Shut-In Pressure, Tubing No Tubing	PSIG + 12 = PSIA	
Flowing Pressure, PSIG 34	+ 12 = PSIA 46	Working Pressure: P_w 1.004	Flowing Pressure: P_w 1.004	+ 12 = PSIA	
Temperature: T = 63 °F	$F_1 = 0.9971$	n = 0.85	Fpv (From Tables) 1.004	Gravity 0.650	$F_g = 0.9608$

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_1 \times F_g \times F_{pv}$$

$$Q = (12.365) (46) (0.9971) (0.9608) (1.004) = \underline{\quad 547 \quad} \text{ MCF/D}$$

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

$$Aof = \left(\frac{41209}{38400} \right)^{0.85} = (547) (1.0732) = (547) (1.0618)$$

NOTE: The Well Produced a Heavy Spray of Water Throughout The Test.

$$Aof = \underline{\quad 581 \quad} \text{ MCF/D}$$

TESTED BY Ralph AbbottWITNESSED BY H. E. McAnally

H. E. McAnally
Well Test Engineer

