

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 28, 1967

Operator El Paso Natural Gas Company		Lease Kelly No. 2	
Location <u>N</u> <u>10</u> , <u>90</u> ^{<u>E</u>} , Sec. <u>35</u> , T- <u>30</u> -N, R- <u>10</u> -W		County San Juan	State New Mexico
Formation Verde		Pool Blanco	
Casing Diameter 8.50	Set At: Feet 5113	Tubing: Diameter 2.375	Set At: Feet 5023
Pay Zone: From 5119	To 5064	Total Depth: 5120	Shut In 8-18-67
Stimulation Method acid Water Flood		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1032	+ 12 = PSIA 1034	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 552	+ 12 = PSIA 564
Flowing Pressure: P PSIG 273	+ 12 = PSIA 285		Working Pressure: Pw PSIG 751	+ 12 = PSIA 763
Temperature: 73 °F	n = .75		Fpv (From Tables) 1.028	Gravity .675 Fg = .9427

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

$$Q = (12.365)(285)(.9877)(.9427)(1.028) = \underline{3373} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1069156}{486987} \right)^n = (3373)(2.1954)^{.75} = (3373)(1.8030)$$

NOTE: Approx. 3 min. after the well was turned on, it unloaded water and distillates for approx. 4 min. then blew a light spray of water and distillates for the rest of the test period.

$$Aof = \underline{6082} \text{ MCF/D}$$

TESTED BY D. R. Roberts

WITNESSED BY N. B. McAnally

APPROVED BY E. B. Grant

H. L. Kendrick
H. L. Kendrick

