

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 22, 1973

Operator El Paso Natural Gas Company		Lease Sunray H No. 2	
Location 1500'N, 810'W, Section 11, T30N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3376	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3300	To 3340	Total Depth: 3376	Set In 6/6/73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1032	+ 12 = PSIA 1044	Days Shut-In 16	Shut-In Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 118	+ 12 = PSIA 130		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 166	
Temperature: T = 64 °F	n = .85		Fpv (From Tables) 1.011	Gravity .655	Fg = .9721

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

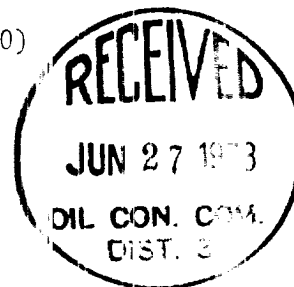
$$Q = (12.365)(130)(.9962)(.9721)(1.011) = 1574 \text{ MCF/D}$$

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

NOTE: The well produced a very light fog of distillate and water throughout the test.

$$Aof = Q \left(\frac{1089936}{1062380} \right)^n = 1574 (1.0259)^{.85} = 1574 (1.0220)$$

$$Aof = 1608 \text{ MCF/D}$$

TESTED BY C. R. Wagner

WITNESSED BY _____

William D. Welch
William D. Welch, Well Test Engineer