

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 22, 1973

Operator El Paso Natural Gas Company		Lease Sunray H No. 3	
Location 910'S, 900'W, Section 11, T30N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3334	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3224	To 3264	Total Depth: 3334	Shut 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 971	+ 12 = PSIA 983	Days Shut-In 16	Shut-In Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 143	+ 12 = PSIA 155	Working Pressure: Pw Calculated	PSIG	+ 12 = PSIA 198	
Temperature: T = 67 °F	n = .85	Fpv (From Tables) 1.014	Gravity .635	Fg = .9721	

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = (12.365)(155)(.9933)(.9721)(1.014) = 1877 \text{ MCF/D}$$

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

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

$$Aof = Q \left(\frac{966289}{927085} \right)^n = 1877 (1.0423)^{.85} = 1877 (1.0353)$$

$$Aof = 1944 \text{ MCF/D}$$

TESTED BY C. R. Wagner

WITNESSED BY _____

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