

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 4, 1973

Operator El Paso Natural Gas Company		Lease Sunray H #4	
Location 940/N, 1140/E, Section 11, T30N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3333	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3234	To 3280	Total Depth: 3333	Shut In 5-26-73
Stimulation Method S.W.F.		Flow Through Casing	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 640	+ 12 = PSIA 652	Days Shut-In 10	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 53	+ 12 = PSIA 65	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA	83	
Temperature: T = 59 °F	n = .85	F _{pv} (From Tables) 1.007	Gravity .635	F _g = .9721	

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

$$Q = (12.365)(65)(1.001)(.9721)(1.007) = 788 \text{ MCF/D}$$

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

NOTE: Well produced dry gas.

$$Aof = \left(\frac{425104}{418215} \right)^{.85} = 788(1.0165)^{.85} = 788(1.0140)$$

$$Aof = 799 \text{ MCF/D}$$

TESTED BY Tommy D. Norton

WITNESSED BY _____

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