

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE June 1, 1967

Operator El Paso Natural Gas Company		Lease Sunray K Com No. 1 (OWKQ)	
Location 1020'N, 1650'E, Sec. 32, T-31-N, R-10-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5380	Tubing: Diameter 2.375	Set At: Feet 5198
Pay Zone: From 4419	To 5330	Total Depth: 5380	Shut In 5-23-67
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 779	+ 12 = PSIA 791	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 550	+ 12 = PSIA 562	
Flowing Pressure: P PSIG 267	+ 12 = PSIA 279		Working Pressure: P <sub>w</sub> PSIG 694	+ 12 = PSIA 706	
Temperature: T = 82 °F	Ft = .9795	n = .75	F <sub>pv</sub> (From Tables) 1.022	Gravity .645	F <sub>g</sub> = .9645

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

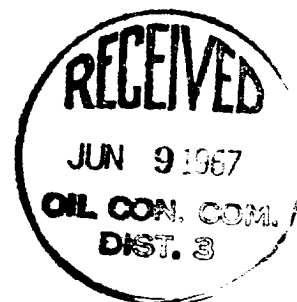
$$Q = (12.365)(279)(.9795)(.9645)(1.022) = \underline{3331} \text{ MCF/D}$$

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

$$Aof = \left( \frac{625681}{127245} \right)^n = (3331)(4.9171)^{.75} = (3331)(3.3020)$$

NOTE: Four minutes after being turned on, the well unloaded a slug of water. The well blew a light spray of water and distillate throughout the remainder of the test.

$$Aof = \underline{10999} \text{ MCF/D}$$

TESTED BY D. R. RobertsCHECKED BY H. E. McAnallyCALCULATED BY A. J. Loleit

*H. L. Kendrick*  
H. L. Kendrick