

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 6, 1968

Operator El Paso Natural Gas Company		Lease Sunray "F" No. 3	
Location 1750'N, 1610'W, Sec.1, T-29-N, R-10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7006	Tubing: Diameter 2.375	Set At: Feet 6679
Pay Zone: From 6722	To 6952	Total Depth: 7006	Shut In 11-25-68
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 2040	+ 12 = PSIA 2052	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 2044	+ 12 = PSIA 2056	
Flowing Pressure: P PSIG 320	+ 12 = PSIA 332		Working Pressure: Pw PSIG 1004	+ 12 = PSIA 1016	
Temperature: T = 82 °F Ft = .9795	n = .75		Fpv (From Tables) 1.031	Gravity .670 Fg = .9463	

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

$$Q = (12.365)(332)(.9795)(.9463)(1.031) = \underline{3923} \text{ MCF/D}$$

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

$$Aof = \left(\frac{4227136}{3194880} \right)^n = (3923)(1.3230)^{.75} = (1.0212)(3923)$$

Note: Well blew a medium spray of water and distillates throughout the test.

$$Aof = \underline{4006} \text{ MCF/D}$$

TESTED BY D. RobertsCalculated
WITNESSED BY R. E. Steuffer

H. L. Kendrick
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