

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 2, 1971

Operator El Paso Natural Gas Company		Lease Sunray A No. 3	
Location 1750'N, 1840'W, Sec. 15, T-30-N, R-10-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3243	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3088	To 3132	Total Depth: 3255	Shut In 7-19-71
Stimulation Method Sand Water Frac		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 962	+ 12 = PSIA 974	Days Shut-In 14	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 337	+ 12 = PSIA 349		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 445	
Temperature: T = 68 °F	Ft = .9924	n = 0.85	Fpv (From Tables) 1.034	Gravity 0.650	Fg = .9608

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

$$Q = (12.365)(349)(.9924)(.9608)(1.034) = 4255 \text{ MCF/D}$$

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

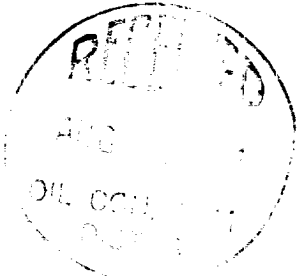
Note: Well blew dry gas throughout test.

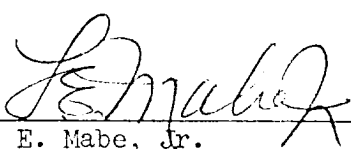
$$Aof = \left(\frac{948676}{750651} \right)^n = (4255)(1.2638)^{.85} = (4255)(1.2201)$$

$$Aof = 5192 \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY _____





 L. E. Mabe, Jr.