

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 3, 1972

Operator El Paso Natural Gas Company		Lease Sunray "A" No. 5	
Location 850/S, 1460/E, Sec. 10 - 30N - 10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3604	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3484	To 3540	Total Depth: 3604	Shut In 6-23-72
Stimulation Method S.W.F.		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 950	+ 12 = PSIA 962	Days Shut-In 10	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 272	+ 12 = PSIA 284		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 369	
Temperature: T = 65 °F	n = .85		F _{pv} (From Tables) 1.025	Gravity .635	F _g = .9721

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

$$Q = (12.365)(284)(.9952)(.9721)(1.025) = \underline{3482} \text{ MCF/D}$$

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

$$Aof = \left(\frac{925444}{789283} \right)^n = (1.1725)^{.85} (3482) = (1.1449)(3482)$$

$$Aof = \underline{3987} \text{ MCF/D}$$

TESTED BY D. Norton

WITNESSED BY _____

J. A. Jones
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