

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 10, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #85	
Location 1765/S, 830/E, Sec. 27, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4203'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4095	To 4147	Total Depth: PBD 4203' 4192'	Shut In 6-27-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1044	+ 12 = PSIA 1056	Days Shut-In 13	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 115	+ 12 = PSIA 127		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 169	
Temperature: T = 65 °F	n = .85		F _{pv} (From Tables) 1.0130	Gravity .680	F _g = .9393

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

$$Q = 12.365(127)(.9952)(.9393)(1.0130) = 1487 \text{ MCF/D}$$

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

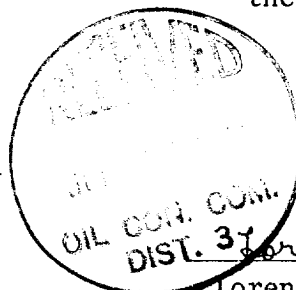
$$Aof = Q \left(\frac{1115136}{1086575} \right)^n = 1487(1.0263)^{.85} = 1487(1.0223)$$

$$Aof = 1520 \text{ MCF/D}$$

Note: The well blew a dry gas during the test.

TESTED BY D. Norton

WITNESSED BY _____



Loren W. Fothergill
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Well Test Engineer