

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 12, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #66	
Location 1930/N, 430/W, Sec. 31, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4222'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4102'	To 4136'	Total Depth: PBTD 4222'	Shut In 6-4-74
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 788	+ 12 = PSIA 800	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --
Flowing Pressure: P PSIG 114	+ 12 = PSIA 126		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 168
Temperature: T = 61 °F	n = .85		F _{pv} (From Tables) 1.0130	Gravity .680 F_g = .9393

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

$$Q = 12.365(126)(.9990)(.9393)(1.0130) = \underline{1481} \text{ MCF/D}$$

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

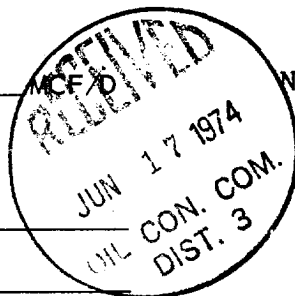
$$Aof = Q \left(\frac{640000}{611776} \right)^n = 1481(1.0461)^{.85} = 1481(1.0391)$$

Aof = 1539

Note: The well blew a dry gas flow.

TESTED BY D. Norton

WITNESSED BY _____



Loren W. Fothergill
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Well Test Engineer