

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE June 28, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #91	
Location 1610/S, 1690/E, Sec. 33, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4179'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4030'	To 4096'	Total Depth: PBTD 4179' 4168'	Shut In 6-20-74
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 1018	+ 12 = PSIA 1030	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 97	+ 12 = PSIA 109	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 145		
Temperature: T = 60 °F	n = Ft = 1.0000 .85	Fpv (From Tables) 1.0090	Gravity .680	Fg = .9393	

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = 12.365(109)(1.0000)(.9393)(1.0090) = \underline{\hspace{2cm}} 1277 \text{ MCF/D}$$

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

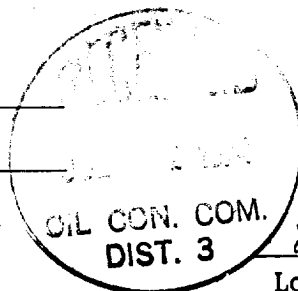
$$Aof = Q \left( \frac{1060900}{1039875} \right)^n = 1277(1.0202)^{.85} = 1277(1.0172)$$

$$Aof = \underline{\hspace{2cm}} 1299 \text{ MCF/D}$$

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

TESTED BY R. Hardy

WITNESSED BY \_\_\_\_\_



Loren W. Fothergill  
Loren W. Fothergill  
Well Test Engineer