

OPEN FLOW TEST DATA

DATE December 16, 1976

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #125	
Location NE/4 Section 8, T-27-N, R-4-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 4.500"	Set At: Feet 6400'	Tubing: Diameter 1 1/4"	Set At: Feet 3949'
Pay Zone: From 3841'	To 3920'	Total Depth: 6400' PBTD 6383'	Shut In 12-2-76
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750"		Choke Constant: C 12.365		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, 1031	PSIG	+ 12 = PSIA 1043	Days Shut-In 14	Shut-In Pressure, Tubing 1030	PSIG
				+ 12 = PSIA 1042	
Flowing Pressure: P 64 WH; 19 MR	PSIG	+ 12 = PSIA 80 WH; 31 MR		Working Pressure: P _w 386	PSIG
				+ 12 = PSIA 398	
Temperature: T = 74°F		n = F _t = 0.9868		F _{pv} (From Tables) 1.003	Gravity 0.615 F _g = 1.275

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

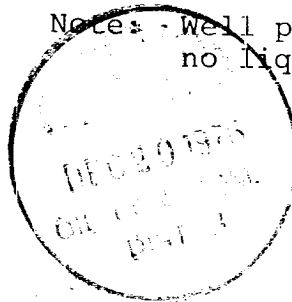
Q = Calculated from orifice meter readings 1054 MCF/D

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

$$Aof = \left(\frac{1087849}{929445} \right)^n = (1054) (1.1704)^{.85} = (1054) (1.1431)$$

Aof = 1205 MCF/D

Notes: Well produced 182 MCF gas and no liquids during the test.



TESTED BY R. Hardy & C. Rhames

WITNESSED BY

H. E. McCreary