

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 6, 1975

Operator El Paso Natural Gas Company		Lease Lloyd A #4 (CH)	
Location 1650/S, 1460/W, Sec. 9, T29N, R11W		County San Juan	State New Mexico
Formation Chacra		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 3029'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2908'	To 2990'	Total Depth: PBD 3029' 3019'	Shut In 7-3-75
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 1062	+ 12 = PSIA 1074	Days Shut-In 119	Shut-In Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P, PSIG 36	+ 12 = PSIA 48		Working Pressure: P _w , PSIG Calculated	+ 12 = PSIA 60	
Temperature: T = 61 °F	n = .75		F _{pv} (From Tables) 1.004	Gravity .650	F _g = .9608

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

$$Q = 12.365(48)(.9990)(.9608)(1.004) = \underline{\quad 572 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1153476}{1149876} \right)^n = 572(1.0031)^{.75} = 572(1.0023)$$

$$Aof = \underline{573} \text{ MCF/D}$$



Note: Well blew fine mist of water throughout test. During the test 91.8 MCF of gas was vented to atmosphere.

TESTED BY R. Hardy

WITNESSED BY _____

Darryl W. Brink
Well Test Engineer