

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 24, 1978

Operator El Paso Natural Gas Company		Lease Newberry #12 (OWWO)	
Location NE 4-31-12		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 5.500	Set At: Feet 7289'	Tubing: Diameter 2 3/8	Set At: Feet 7163'
Pay Zone: From 6992'	To 7178	Total Depth: 7289'	Shut In 5-11-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG --	+ 12 = PSIA --	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 1162	+ 12 = PSIA 1174	
Flowing Pressure: P PSIG 64	+ 12 = PSIA 76		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 163	
Temperature: T = 64°F	n =	Fpv (From Tables) 1.009	Gravity .650	Fg = .9608	
Ft = .9962	.75				

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

$$Q = 12.365(76)(.9962)(.9608)(1.009) = \underline{\quad 908 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1350244}{1323675} \right)^n = (1.0201)^{.75} = (908) = (1.0150)(908)$$

$$Aof = \underline{\quad 922 \quad} \text{ MCF/D}$$

Note: Well blew heavy fog of H₂O throughout test. Well vented 101 MCF to the atmosphere during test.

TESTED BY D. Wright

WITNESSED BY _____

C.R. Wagner
Well Test Engineer