

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE February 8, 1979

Operator El Paso Natural Gas Company		Lease Neil #6A (PC) (OWWO)	
Location SE 33-32-11		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5541'	Tubing: Diameter 1 1/4	Set At: Feet 2935'
Pay Zone: From 2824'	To 2894'	Total Depth: 5541'	Shut In 1-20-79
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 954	+ 12 = PSIA 966	Days Shut-In 19	Shut-In Pressure, Tubing PSIG 748	+ 12 = PSIA 760	
Flowing Pressure: P PSIG 320	+ 12 = PSIA 332		Working Pressure: P _w PSIG 378	+ 12 = PSIA 390	
Temperature: T = 52 °F F _t = 1.008	n = .85		F _{pv} (From Tables) 1.039	Gravity .670 F _g = .9463	

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

$$Q = 12.365 \times 332 \times 1.008 \times .9463 \times 1.039 = 4069 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{933156}{781056} \right)^{.85} = (1.1947)^{.85} (4069) = (1.1633) (4069)$$

Note: Well blew dry gas throughout test and vented 454 MCF to the atmosphere during the test.

$$Aof = 4733 \text{ MCF/D}$$

TESTED BY C. Rhames

WITNESSED BY

C. R. Rhames
Well Test Engineer

