

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 1, 1976

Operator El Paso Natural Gas Company		Lease Scott #2-A	
Location SE 31-32N-10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Ballard	
Casing: Diameter 4.500	Set At: Feet 5416'	Tubing: Diameter 1 1/4"	Set At: Feet 2904'
Pay Zone: From 2805	To 2883'	Total Depth: 5416	Shut In 5-18-76
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 760	PSIG	+ 12 = PSIA 772	Days Shut-In 14	Shut-In Pressure, Tubing 760	PSIG + 12 = PSIA 772
Flowing Pressure: P 110	PSIG	+ 12 = PSIA 122		Working Pressure: P _w 110	PSIG + 12 = PSIA 122
Temperature: T = 76 °F	F _t = .9850	n = .85		F _{pv} (From Tables) 1.011	Gravity .670 F _g = .9463

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

$$Q = 12.365(122)(.9850)(.9463)(1.011) = \underline{1422} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{595984}{581100} \right)^n = (1422)(1.0256)^{.85} = (1422)(1.0217)$$

$$Aof = \underline{1453} \text{ MCF/D}$$

Note: Well blew dry gas throughout test,
gas vented to atmosphere was 189 MCF/D.

TESTED BY C. R. Wagner

WITNESSED BY

C. R. Wagner
Well Test Engineer

