

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE May 25, 1976

Operator El Paso Natural Gas Company		Lease Scott #2-A	
Location SE 31-32N-10W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5416'	Tubing: Diameter 2 3/8	Set At: Feet 5300'
Pay Zone: From 4455	To 5322	Total Depth: 5416	Shut In 5-18-76
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG --	+ 12 = PSIA --	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 766	+ 12 = PSIA 778	
Flowing Pressure: P PSIG 272	+ 12 = PSIA 284		Working Pressure: P <sub>w</sub> PSIG Calc.	+ 12 = PSIA 557	
Temperature: T = 72 °F	F <sub>t</sub> = .9887	n = .75	F <sub>pv</sub> (From Tables) 1.029	Gravity .680	F <sub>g</sub> = .9393

CHOKE VOLUME = Q = C x P<sub>t</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

Q = 12.365(284) (.9887) (.9393) (1.029) = 3356 MCF/D

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

Aof = Q  $\left( \frac{605284}{295035} \right)^n = 3356(2.0516)^{.75} = 3356 (1.7143)$

Aof = 5753 MCF/D



Note: Blew light fog of H2O throughout test, vented 437 MCF of gas to atmosphere.

TESTED BY C. R. Wagner

WITNESSED BY \_\_\_\_\_

C.R. Wagner  
Well Test Engineer