

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE June 5, 1978

Operator <b>El Paso Natural Gas Company</b>		Lease <b>Newberry #12</b>	
Location <b>NE 4-31-12</b>		County <b>San Juan</b>	State <b>New Mexico</b>
Formation <b>Mesa Verde</b>		Pool <b>Blanco</b>	
Casing: Diameter <b>7.00"</b> <b>5.500</b>	Set At: Feet <b>7289'</b>	Tubing: Diameter <b>1 1/4</b>	Set At: Feet <b>5116'</b>
Pay Zone: From <b>4846</b>	To <b>5086'</b>	Total Depth: <b>7289'</b>	Shut in <b>5-11-78</b>
Stimulation Method <b>Sandwater Frac</b>		Flow Through Casing <b>XX</b>	Flow Through Tubing

Choke Size, Inches <b>.750</b>		Choke Constant: C <b>12.365</b>			
Shut-In Pressure, Casing, PSIG <b>659</b>	+ 12 = PSIA <b>671</b>	Days Shut-In <b>25</b>	Shut-In Pressure, Tubing PSIG <b>310</b>	+ 12 = PSIA <b>322</b>	
Flowing Pressure: P PSIG <b>113</b>	+ 12 = PSIA <b>125</b>		Working Pressure: P <sub>w</sub> PSIG <b>263</b>	+ 12 = PSIA <b>275</b>	
Temperature: T = <b>63 °F</b>	F <sub>t</sub> = <b>.9971</b>	n = <b>.75</b>	F <sub>pv</sub> (From Tables) <b>1.011</b>	Gravity <b>.650</b>	F <sub>g</sub> = <b>.9608</b>

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

$$Q = 12.365(125)(.9971)(.9608)(1.011) = \underline{1497} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{450241}{374616} \right)^n = (1.2019)^{.75} = (1.497) = (1.1479)(1497)$$

Note: Well blew dry gas throughout test.  
Well vented 149 MCF to the atmosphere during test.

$$Aof = \underline{1718} \text{ MCF/D}$$

TESTED BY D. WrightWITNESSED BY Frank Chavez- N.M.O.C.C.

*C. P. Wagner*  
Well Test Engineer

