

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE October 26, 1978

Operator Northwest Production Corp.		Lease Jicarilla 152 W #4 (MV)	
Location SW 5-26-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5814'	Tubing: Diameter 2 3/8	Set At: Feet 5750'
Pay Zone: From 4838	To 5770	Total Depth: 5814'	Shut In 10-18-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" M.R.		orifice 2.750		Meter Choke Constant: C 41.10	
Shut-In Pressure, Casing, PSIG --		+ 12 = PSIA --		Days Shut-In 8	
Flowing Pressure: P M.R. 28 W.H. 109		PSIG + 12 = PSIA M.R. 40 W.H. 121		Working Pressure: P <sub>w</sub> Calc.	
Temperature: T = 58 °F		n = Ft = 1.0019		Fpv (From Tables) 1.004	Gravity .650 Fg = 1.240

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

$$Q = \text{Calculated from orifice meter readings} = 1232 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{527076}{480420} \right)^n = (1.0971)^{.75} = (1232) = (1.0720)(1232)$$

$$Aof = 1321 \text{ MCF/D}$$

Note: Well made 3.65 Bbls of oil and 2.60 bbls. of water during test and vented 133 MCF of gas.

TESTED BY R. Hardy

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

*C.R. Wagner*  
Well Test Engineer