

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 26, 1978

Operator Northwest Production Corp.		Lease Jicarilla 152 W #4-A (MV)	
Location NW 5-26-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5856'	Tubing: Diameter 2 3/8	Set At: Feet 5724'
Pay Zone: From 4835	To 5753'	Total Depth: 5856'	Shut In 10-18-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" M.R.		orifice 2,500		Meter Choke Constant: C 32.64	
Shut-In Pressure, Casing, PSIG --		+ 12 = PSIA --	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 508	
Flowing Pressure: P PSIG M.R. 1# W.H. 87		+ 12 = PSIA 99		Working Pressure: P _w PSIG Calc. 134	
Temperature: T = 57 °F F _t = 1.0029		n = .75		F _{pv} (From Tables) 1.004	
				Gravity .650 F _g = 1.240	

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

$$Q = \text{Calculated from ofirice meter readings} = \underline{628} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{270400}{252444} \right)^n = (1.0711)^{.75} (628) = (1.0529) (628)$$

$$Aof = \underline{661} \text{ MCF/D}$$

Note: Well made 5.50 bbl's of oil and 6.54 bbl's of water during test and vented 32 MCF of gas.

TESTED BY R. Hardy

WITNESSED BY _____

C.R. Wagner
Well Test Engineer