

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 9-28-78

Operator Northwest Production Corp.		Lease Jicarilla 152 W #4 (PC)	
Location SW 5-26-5		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 4.500	Set At: Feet 5814'	Tubing: Diameter 1 1/4	Set At: Feet 3235'
Pay Zone: From 3160	To 3220	Total Depth: 5814'	Shut In 8-25-78
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 995	+ 12 = PSIA 1007	Days Shut-In 34	Shut-In Pressure, Tubing PSIG 1003	+ 12 = PSIA 1015	
Flowing Pressure: P PSIG 320	+ 12 = PSIA 332		Working Pressure: P <sub>w</sub> PSIG 335	+ 12 = PSIA 347	
Temperature: T = 63 °F	n = Ft = .9971		Fpv (From Tables) 1.036	Gravity .670	Fg = .9463

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

$$Q = 12.365(332)(.9971)(.9363)(1.036) = 4013 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1030225}{909815} \right)^n = (1.1323)^{.75} = (4013) = (1.1114)(4013)$$

$$Aof = 4460 \text{ MCF/D}$$

Note: Well blew dry gas throughout test.  
Well vented 526 MCF to the atmosphere during test.

TESTED BY R. Hardy

WITNESSED BY

C. R. Wagner  
Well Test Engineer