

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 9-28-78

Operator Northwest Production Corp.		Lease Jicarilla 152 W #2-A (MV)	
Location SE 5-26-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5855'	Tubing: Diameter 2 3/8	Set At: Feet 5771'
Pay Zone: From 4853	To 5794'	Total Depth: 5855'	Shut In 8-10-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4"		Orifice 2.750		Meter Choke Constant: C 41.10			
Shut-In Pressure, Casing, --	PSIG	+ 12 = PSIA --	Days Shut-In 49	Shut-In Pressure, Tubing 807	PSIG	+ 12 = PSIA 819	
Flowing Pressure: P MR 66	PSIG	+ 12 = PSIA W.H. 153	Working Pressure: P _w MR 78	PSIG	+ 12 = PSIA Calc.	Gravity .650	F _g = 1.240
Temperature: T = 64 °F		F _t = .9962	n = .75	F _{pv} (From Tables) 1.019			

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

$$Q = \text{Calculated from orifice meter readings} = \underline{1924} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{670761}{565136} \right)^n = (1.1869)^{.75} (1924) = (1.1371) (1924)$$

$$Aof = \underline{2188} \text{ MCF/D}$$

Note: Well produced 13.5 Bbls. of oil and 1 Bbl. of water. Well vented 230 MCF of gas.

TESTED BY S. Hardy

WITNESSED BY A. Rector

C. R. Wagner
Well Test Engineer