

OPEN FLOW TEST DATA

DATE September 15, 1976

Operator Northwest Production		Lease Jicarilla 119N #5-A	
Location NW 6-26N-R4W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6477'	Tubing: Diameter 2.375	Set At: Feet 6280'
Pay Zone: From 5606	To 6277'	Total Depth: PBD 6477' 6460	Shut In 9-5-76
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Plate Choke Size, Inches 2.500" 4" M.R.		Plate Choke Constant: C 32.64		Tested through a 3/4" variable choke.	
Shut-In Pressure, Casing, PSIG 1070	+ 12 = PSIA 1082	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 662	+ 12 = PSIA 674	
Flowing Pressure: P PSIG 80 M.R., 218 W.H.	+ 12 = PSIA 92 M.R., 230 W.H.		Working Pressure: P _w PSIG 555	+ 12 = PSIA 567	
Temperature: T = 52 °F F _t = 1.0078	n = .75		F _{pv} (From Tables) 1.010	Gravity 0.680	F _g = 0.9393

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

$$Q = \text{Calculated from orifice meter readings} = \underline{2242} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1170724}{849235} \right)^n = (2242)(1.3786)^{.75} = (2242)(1.2723)$$

$$Aof = \underline{2852} \text{ MCF/D}$$

Note: The well produced 341 MCF of gas and no oil during the test.

TESTED BY C. Rhames and T. D. Norton

WITNESSED BY _____

Well Test Engineer

