

OPEN FLOW TEST DATA

DATE September 29, 1977

Operator Northwest Production Corp.		Lease Jicarilla 117E #2-A	
Location Unit I Sec. 33-T26N-R3W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6500'	Tubing: Diameter 2.375	Set At: Feet 6369'
Pay Zone: From 5630	To 5952	Total Depth: PB 6483	Shut In 9-22-77
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" 2.500		Meter Choke Constant: C 32.64		Tested thru 3/4" variable choke	
Shut-In Pressure, Casing, pkf	PSIG + 12 = PSIA	Days Shut-In 7	Shut-In Pressure, Tubing 1038	PSIG + 12 = PSIA	1050
Flowing Pressure: P MR= 3 WH= 22	PSIG + 12 = PSIA	Working Pressure: Pw Calc.	PSIG + 12 = PSIA	68	
Temperature: T= 57 °F Ft= 1.003	n = .75	Fpv (From Tables) 1.000	Gravity .650	Fg = 1.240	

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

$$Q = 32.64(2.5)(1.22)(3.162)(1.003)(1.0)(1.240) = 392 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1102500}{1097876} \right)^n = 392(1.0042)^{.75} = 392(1.0032)$$

$$Aof = 393 \text{ MCF/D}$$

Note: Well produced 2.25 Bbls. water with trace of oil during 3 hour test. The well produced 103 MCF of gas during the test.

TESTED BY Dave Howell & Roger Hardy

WITNESSED BY

Well Test Engineer

