

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 24, 1977

Operator Northwest Production Corporation		Well Name Jicarilla 117E #2-A	
Location SE 33-26-03		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6500'	Tubing: Diameter 2 3/8	Set At: Feet 6369'
Pay Zone: From 6014	To 6365	Total Depth: 6500	Shut In 5-17-77
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" M.R.		Meter Choke Constant: C 2.500 plate 32.64		Well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG --	+ 12 = PSIA --	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 938	+ 12 = PSIA 950	
Flowing Pressure: P M.R. 2.0# 14# W.II. PSIG	+ 12 = PSIA 14# M.R. 26# W.II.		Working Pressure: P _w PSIG	+ 12 = PSIA 50	
Temperature: T = 57 °F	F _t = 1.003	n = .75	F _{pv} (From Tables) 1.004	Gravity .687	F _g = .9346

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

$$Q = \text{Calculated from orifice meter readings} = 172 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{902500}{901600} \right)^n = (172)(1.0001)^{.75} = (172)(1.0001)$$

$$Aof = 172 \text{ MCF/D}$$

Note: Well produced 11.2 Bbls of 63° gravity oil and vented 18 MCF of gas during the test.



TESTED BY Hardy-Howell- Wagner

WITNESSED BY Jim Warner

Jim Warner
Well Test Engineer