

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 30, 1976

Operator Northwest Production Corp.		Lease Jicarilla 117E #9	
Location SW 33-26N-3W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4 1/2	Set At: Feet 6514'	Tubing: Diameter 2 3/8"	Set At: Feet 6335'
Pay Zone: From 5649	To 6335	Total Depth: PBD 6514' 6498	Shut In 11-22-76
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Plate Choke Size, Inches 2.500" Plate, 4" M.R.		Choke Constant: C 32.64		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1245	+ 12 = PSIA 1257	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 1220	+ 12 = PSIA 1232	
Flowing Pressure: P 125 W.H., 16 M.R. PSIG	+ 12 = PSIA 137 W.H., 28 M.R.		Working Pressure: P _w PSIG 652	+ 12 = PSIA 664	
Temperature: T= 72 °F F _t =0.9887	n = .75		F _{pv} (From Tables) 1.004	Gravity 0.685 F _g = 1.208	

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

Q = Calculated from orifice meter readings = 997 MCF/D

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


Aof = Q $\left(\frac{1580049}{1139153} \right)^n = (997)(1.3870)^{.75} = (997)(1.2781)$

Aof = 1274 MCF/D

Note: The well produced 2 bbls. of 53° API gravity oil, 75 bbls. of water and 182 MCF gas during the test.

TESTED BY R. Hardy & J. Goodwin

WITNESSED BY


Well Test Engineer