

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE March 4, 1975

Operator El Paso Natural Gas Company		Lease Pinon Mesa #3	
Location 1420/S, 820/E, Sec. 23, T31N, R14W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6016'	Tubing: Diameter 2.375	Set At: Feet 5895'
Pay Zone: From 5784'	To 5966'	Total Depth: PBT 6016' 6002'	Shut In 2-23-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 2.500 Plate 4" MR		Plate Choke Constant: C 32.64		Well tested thru a 3/4" variable choke.	
Shut-In Pressure, Casing, PSIG 1640	+ 12 = PSIA 1652	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 1628	+ 12 = PSIA 1640	
Flowing Pressure: P MR 33 WH 118 PSIG	+ 12 = PSIA MR 45 WH 130		Working Pressure: P _w 362 PSIG	+ 12 = PSIA 374	
Temperature: T = 60 °F F _t = 1.000	n = .75		F _{pv} (From Tables) 1.011	Gravity .650 F _g = 1.240	

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

Q = Calculated from orifice meter readings = 1743 MCF/D

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

Aof = Q $\left(\frac{2729104}{2589228} \right)^n = 1743(1.0540)^{.75} = 1745(1.0402)$

Aof = 1813 MCF/D

Note: The well produced 1 Bbl of 60 API gravity oil and 1 Bbl of water.

TESTED BY F. Johnson

WITNESSED BY L. Fothergill

Loren W. Fothergill
Well Test Engineer

