

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 17, 1974

Operator El Paso Natural Gas Company		Lease Ballard #17	
Location 1500/S, 800/E, Sec. 15, T26N, R9W		County San Juan	State New Mexico
Formation Gallup		Pool Angel Peak Ext.	
Casing: Diameter 4.500	Set At: Feet 5900'	Tubing: Diameter 2.375	Set At: Feet 5778'
Pay Zone: From 5522	To 5791	Total Depth: PBTB 5900' 5884'	Shut In 10-2-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" MR	Orifice 2.50	Orifice Choke Constant: C 32.64	Well tested thru 3/4" variable choke		
Shut-In Pressure, Casing, 1212	PSIG	+ 12 = PSIA 1224	Days Shut-In 15	Shut-In Pressure, Tubing 940	PSIG + 12 = PSIA 952
Flowing Pressure: P Mr 18	PSIG WH 38	+ 12 = PSIA MR 30	WH 50	Working Pressure: P _w 410	PSIG + 12 = PSIA 422
Temperature: T = 63 °F	F _t = 0.9971	n = .75	F _{pv} (From Tables) 1.004	Gravity .720	F _g = 1.179

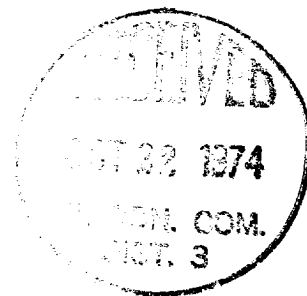
CHOKE VOLUME = Q = C x P_t x F_t x F_g x F_{pv}

Q = Calculated from meter readings. = 712 MCF/D

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

Aof = Q $\left(\frac{1468944}{1290860} \right)^n = 712(1.1380)^{.75} = 712(1.1018)$

Aof = 785 MCF/D



Note: The well produced 75.72 bbl of total liquid. The oil gravity was 38.4 API.

TESTED BY C. Rhames & J. Goodwin

WITNESSED BY _____

Loren W. Fothergill
Loren W. Fothergill
Well Test Engineer