

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE 8-30-66

Operator El Paso Natural Gas Company		Lease Southern Petroleum State No. 3 (PC)(CWWO)	
Location 990'N, 1650'W, Sec. 32, T-26-N, R-6-W		County Rio Arriba	State New Mexico
Formation Pictured Cliff		Pool South Blanco	
Casing: Diameter 5.500	Set At: Feet 2419	Tubing: Diameter 1.660	Set At: Feet 2348
Pay Zone: From 2340	To 2384	Total Depth: 3343	Shut In 8-10-66
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		Packer Baker Model: "D" set at 2396	
Shut-In Pressure, Casing, (PC) 402 PSIG	+ 12 = PSIA 414	Days Shut-in 20	Shut-In Pressure, Tubing (PC) 402 PSIG	+ 12 = PSIA 414
Flowing Pressure: P 16 PSIG	+ 12 = PSIA 28		Working Pressure: P _w 17 PSIG	+ 12 = PSIA 29
Temperature: T = 58 °F	n = .85		F _{pv} (From Tables) 1.004	Gravity .665 F _g = .9498

ISIPT (CH) = 916 psig

FSIPT (CH) = 916 psig

CHOKE VOLUME = Q = C × P_i × F_i × F_g × F_{pv}

$$Q = (12.365)(28)(1.0019)(.9498)(1.004) = \underline{331} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{171396}{170555} \right)^n = (331)(1.0049)^{.85} = (331)(1.0041)$$

NOTE: Well blew light fog of water throughout the test.

$$A_{of} = \underline{332} \text{ MCF/D}$$

TESTED BY J. B. GoodwinWITNESSED BY T. B. GrantCALCULATED BY H. E. McAnally

H. L. Kendrick
