

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 11-1-66

Operator El Paso Natural Gas Company		Lease Schwerdtfeger No. 1-X	
Location 940'S, 1650'W, Sec. 27, T-31-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5508	Tubing: Diameter 2.375	Set At: Feet 5429
Pay Zone: From 4667	To 5458	Total Depth: 5508	Shut In 10-25-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2 1/2" plate; 4" M.R.	meter 33.293	Choke Constant: C 33.293	Tested through 3/4" Variable Choke	
Shut-In Pressure, Casing 721	PSIG + 12 = PSIA 733	Days Shut-In 7	Shut-In Pressure, Tubing 504	PSIG + 12 = PSIA 516
Flowing Pressure: P 221 W.H. ; 107 meter	PSIG + 12 = PSIA 233 W.H. ; 119 meter		Working Pressure: Pw 631	PSIG + 12 = PSIA 643
Temperature: T = 61 °F	F _g = .9990	n = .75	Fpv (From Tables) 1.014	Gravity .668 F _g = 1.2235

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

Q = Calculated from Orifice Meter Readings = 2776 MCF/D

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

Aof = $\left(\frac{537289}{123840} \right)^n = (2776)(4.3385)^{.75} = (2776)(3.0061)$

NOTE: The well produced 9.18 bbls. of oil into the tank.

Aof = 8345 MCF/D

TESTED BY R. F. Headrick & A. J. Loleit

CHECKED BY T. B. Grant

Calculated by H. E. McNally



H. L. Kendrick