

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 10-25-66

Operator El Paso Natural Gas Company		Lease Riddle "C" No. 2 (CWWO)	
Location 990'N, 990'E, Sec. 30, T-31-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5775	Tubing: Diameter 2.375	Set At: Feet 5723
Pay Zone: From 1920	To 5731	Total Depth: 5775	Shut In 10-12-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2 1/2" Plate; 4" M.R.		Choke Constant: C 33.293		Tested Through 3/4" Variable Choke	
Shut-In Pressure, Casing, PSIG 882	+ 12 = PSIA 894	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 724	+ 12 = PSIA 736	
Flowing Pressure: P PSIG 145 M.R.; 292 W.H.	+ 12 = PSIA 157 M.R.; 304 W.H.		Working Pressure: Pw PSIG 768	+ 12 = PSIA 780	
Temperature: T = 81 °F	Ft = .9804	n = .75	Fpv (From Tables) 1.012	Gravity .665	Fg = 1.2263

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_t \times F_g \times F_{pv}$$

$$Q = \text{Calculated from Orifice Meter reading} = 3491 \text{ MCF/D}$$

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

$$Aof = \left(\frac{799,236}{190,836} \right)^n = (3491)(4.1880)^{.75} = (3491)(2.9276)$$

NOTE: The well produced 25.77 bbls. of oil into the tank.

$$Aof = 10,220 \text{ MCF/D}$$

TESTED BY H. E. McAnally & R. F. HeadrickCHECKED BY T. B. Grant

H. L. Kendrick
