

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE March 22, 1965

Operator Beta Development Company		Lease SJ 29-6 Unit No. 85	
Location 890'N, 990'E, Section 27, T-29-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7775	Tubing: Diameter 2.375	Set At: Feet 7693
Pay Zone: From 7562	To 7744	Total Depth: 7775	Shut In 3-15-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365		Company Distribution Only	
Shut-In Pressure, Casing, PSIG 2711	+ 12 = PSIA 2723	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2662	+ 12 = PSIA 2674	
Flowing Pressure: P PSIG 199	+ 12 = PSIA 211		Working Pressure: P _w PSIG 861	+ 12 = PSIA 873	
Temperature: T = 74 °F	F _t = .9868	n = .75	F _{pv} (From Tables) 1.020	Gravity .670	F _g = .9463

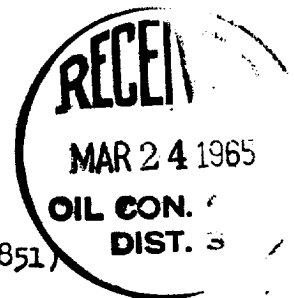
CHOKE VOLUME = Q = C x P_t x F_t x F_g x F_{pv}

$$Q = (12.365) (211) (.9868) (.9463) (1.020) = \underline{2,485} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{7387499}{6625370} \right)^n = (2485) (1.1150)^{.75} = (2485) (1.0851)$$

$$A_{of} = \underline{2,696} \text{ MCF/D}$$



NOTE: Well produced a heavy spray of distillate and water throughout the test. The well produced a small quantity of frac sand during the test.

TESTED BY George Hoffman (Beta)WITNESSED BY H. E. McAnally (EPNG)

Lewis D. Galloway
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