

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

Operator Beta Development Company		Lease SJ 29-6 Unit No. 86	
Location 790'S, 1800'W, 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 7682	Tubing: Diameter 2.375	Set At: Feet 7614
Pay Zone: From 7598	To 7658	Total Depth: 7682	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 2659	PSIG	+ 12 = PSIA 2671	Days Shut-In 7	Shut-In Pressure, Tubing 2476	PSIG + 12 = PSIA 2488
Flowing Pressure: P 232	PSIG	+ 12 = PSIA 244		Working Pressure: Pw 901	PSIG + 12 = PSIA 913
Temperature: T = 74 °F		n = .75		Fpv (From Tables) 1.024	Gravity .670 Fg = .9463

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

$$Q = (12.365) (244) (.9868) (.9463) (1.024) = \underline{2,885} \text{ MCF/D}$$

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

$$Aof = \left(\frac{7134241}{6300672} \right)^n = (2885) (1.1322)^{.75} = (2885) (1.0975)$$

$$Aof = \underline{3,166} \text{ MCF/D}$$

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

NOTE: Well produced a medium spray of distillate and water throughout the test. A heavy slug of water was produced from 7 to 10 minutes after well was turned on, but then the liquid reduced to a medium spray. Several pounds (enough to be very noticeable) of frac sand were produced during the test. Further blowing of the well may be warranted before producing the well.

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