

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 26, 1965

Operator El Paso Natural Gas Company		Lease Rincon Unit No. 128 (DK)(OWWO)	
Location 1600'S, 990'W, Sec. 28, T-27-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 5.000	Set At: Feet 7749	Tubing: Diameter 2.375	Set At: Feet 7611
Pay Zone: From 7418	To 7679	Total Depth: 7789	Shut In 8-19-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365		Baker Model "D" Packer Set at 6096	
Shut-In Pressure, Casing, (MV) 573	PSIG	+ 12 = PSIA (MV) 585	Days Shut-In 7	Shut-In Pressure, Tubing 1356	PSIG + 12 = PSIA 1368
Flowing Pressure: P 164	PSIG	+ 12 = PSIA 176		Working Pressure: P _w (Calc) 388	PSIG + 12 = PSIA 388
Temperature: T = 66 °F		n = .75		F _{pv} (From Tables) 1.015	Gravity .637 F _g = .9721

IS IPT (MV) = 574 Psig

FS IPC (MV) = 578 Psig

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

$$Q = (12.365) (176) (.9943) (.9721) (1.015) = \underline{2135} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,871,424}{1,720,880} \right)^n = (2,135) (1.0874)^{.75} = (2,135) (1.0649)$$

NOTE: Made light mist of hydrocarbon throughout test.

$$Aof = \underline{2274} \text{ MCF/D}$$

TESTED BY Ronald HeadrickCALCULATED BY: Hermon E. McAnally

Lewis D. Galloway
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