

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 10, 1961

Operator El Paso Natural Gas Company		Lease Stewart No. 8	
Location 1060'S, 1650'W, Sec. 28-30N-10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing Diameter 4-1/2" O.D.	Set At: Feet 7335	Tubing: Diameter 2-3/8" O.D.	Set At: Feet 7181
Pay Zone: From 7052	To 7202	Total Depth: 7368 c/o 7300	Shut In 7-17-61
Stimulation Method Sand/Water Frac.		Flow Through Tubing X	

Choke Size, Inches .750	Choke Constant: C 12.365	Shut-In Pressure, Casing 2073	PSIG - 12 - PSIA 2085	Days Shut-In 24	Shut-In Pressure, Tubing 2060	PSIG - 12 - PSIA 2072
Flowing Pressure: P _f 221	PSIG - 12 - PSIA 233	Temperature: 76	F _f .9850	F _g .75	Working Pressure: P _w 823	PSIG - 12 - PSIA 835
				F _{pv} (From Tables) 1.022	Gravity .670 F _g .9463	

$$\text{CHOKE VOLUME } Q = C \times P_r \times F_f \times F_g \times F_{pv}$$

$$Q = (12.365)(233)(.9850)(.9463)(1.022)$$

2745

MCF/D

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

$$A_{of} = \left(\frac{4,347,225}{3,650,000} \right)^n$$

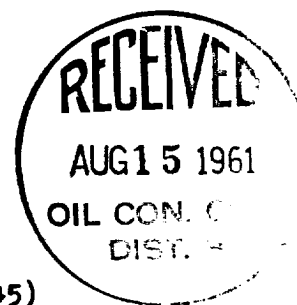
$$(1.1910)^{.75}(2745) = (1.1403)(2745)$$

A_{of}

3130

MCF/D

NOTE: Slight Mist of Liquid.



Don Mortensen

Checked by:

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