

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 14, 1959

Operator El Paso Natural Gas		Lease San Juan 29-5 No. 32-29- (D)	
Location 9908, 1500W; 29-29-5		County Rio Arriba	State New Mexico
Formation Dakota		Pool Undesignated	
Casing: Diameter 7"	Set At: Feet 7625	Tubing: Diameter 2"	Set At: Feet 7820
Pay Zone: From 7775	To 7872	Total Depth: 8030 c/o	Shut in: 9/5/59
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant: C 14.1605		5" liner 7566 - 8029	
Shut-In Pressure, Casing, PSIG 998 (MV)	- 12 - PSIA 1010	Days Shut-In 9	Shut-In Pressure, Tubing, PSIG 2560 (Dak)	- 12 - PSIA 2572
Flowing Pressure: P, PSIG 202	- 12 - PSIA 214		Working Pressure: P _w , PSIG Calc.	- 12 - PSIA 532
Temperature: T, °F 70	n = .75		F _{pv} (From Tables) 1.015	Gravity .586

Initial SIPT (MV) = 994 psig
Final SIPC (MV) = 1005 psig

Packer at 7473

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

$$Q = 14.1605 \times 214 \times .9905 \times 1.012 \times 1.015 = 3083 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{6615184}{6332160} \right)^n \quad 1.0446^{.75} \times 3083 = 1.0332 \times 3083$$

$$A_{of} = 3185 \text{ MCF/D}$$

TESTED BY W. D. DawsonWITNESSED BY W. B. Smith (Phillips)

L. D. Galloway
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by TBG

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AZTEC DISTRICT OFFICE

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