

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 8, 1959

Operator El Paso Natural Gas Company		Lease San Juan 31-6 No. 16-33 (M)	
Location 850S, 1840W; 33-31-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 9-5/8	Set At: Feet 3572	Tubing: Diameter 1-1/4	Set At: Feet 5725
Pay Zone: From 5430	To 5838	Total Depth 8182	Shut In: 8/24/59
Stimulation Method Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, in. .75		Choke Constant: C 14.1605		7" at 7736 5" at 7661-8178	
Shut-In Pressure: Casing, (MV) 883	PSIG 12 PSIA 895	Days Shut-In 15	Shut-In Pressure: Tubing (MV) 884	PSIG 12 PSIA 896	
Flowing Pressure 126	PSIG 12 PSIA 138		Working Pressure: F _w 180	PSIG 12 PSIA 192	
Temperature: T 64	F _g in .75		F _{pv} (Fract. Indices) 1.011	Gravity .614	

Initial SIPT (D) = 2672psig
Final SIPT (D) = 2683 psig

Packer at 7297

CHOKE VOLUME = Q C x P_c x F_c x F_g x F_{pv}

Q 14.1605 x 138 x .9962 x .9918 x 1.011 1952 MCF D

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

$$A_{of} = \left(\frac{802816}{765952} \right)^n$$

$$1.0481^{.75} \times 1952 = 1.0358 \times 1952$$

A_{of} 2022 MCF D

TESTED BY W. D. Dawson

WITNESSED BY W. B. Smith (Phillips) (C. Wagner, PNW)



L. D. Galloway
L. D. Galloway

OF OBSERVATION

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2. <i>[Faint handwritten text]</i>	1		
3. <i>[Faint handwritten text]</i>	1		✓