

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 6, 1963

Operator El Paso Natural Gas Company		Lease Huerfano No. 139	
Location 1650'S, 1650'E, Sec. 32-26-9		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing Diameter 4.500	Set At Feet 6746	Tubing Diameter 2.375	Set At Feet 6634
Pay Zone: From 6498	To 6661	Total Depth 6750	Shut In 11-29-63
Stimulation Method Sand Water Frac.		Flow Through Casing Flow Through Tubing	

Choke Size, Inches 0.750	Choke Constant, C 12.365	Days Shut-In 7	Shut-In Pressure, Tubing 1439	PSIG 1451
Shut-In Pressure, Casing 1932	PSIG 1944	PSIA 91	Working Pressure, P _w 335	PSIG 347
Flowing Pressure, P 79	PSIG 91	PSIA 91	F _{gv} (From Tables) 1.010	Gravity .720
Temperature 71	F _g .9896	F _g .75	F _g .9129	

CHOKE VOLUME $Q = C \times P_r \times F_g \times F_{gv} \times F_{pr}$

$Q = (12.365)(91)(.9896)(.9129)(1.010)$

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

$A_{of} = \left(\frac{3779136}{3658727} \right)^n (1.0329)^{.75} (1027) = (1.0245)(1027)$

$A_{of} = 1052$ MCF/D

NOTE: 7 min. after well was turned on it unloaded a big slug of water with gas & oil following. The well continued to blow a heavy spray of water & hydrocarbons throughout the remainder of the test. It was still blowing sand at the end of the test.

TESTED BY **Dannie R. Roberts**

Checked

~~W. B. Grant~~ BY **Tom B. Grant**

Lewis D. Galloway
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