

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE March 6, 1963

Operator El Paso Natural Gas Company		Lease Brookhaven State No. 9	
Location 1450'N, 1190'E, Sec. 16-31-11		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 5.500	Set At: Feet 7077	Tubing: Diameter 2.375	Set At: Feet 7369
Pay Zone: From 7192	To 7359	Total Depth: 7463	Shut In 2-6-63
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365		4" liner 6944' to 7463'.	
Shut-In Pressure, Casing, PSIG 2096	+ 12 = PSIA 2108	Days Shut-In 28	Shut-In Pressure, Tubing, PSIG 1594	+ 12 = PSIA 1606	
Flowing Pressure: P 131	+ 12 = PSIA 143		Working Pressure: Pw, PSIG 629	+ 12 = PSIA 641	
Temperature: 69			Fpv (From Tables) 1.020	Gravity .780	Fg = .8771
Ft. .9915	.75				

CHOKE VOLUME $Q_c = C \times P_c \times F_c \times F_g \times F_{pv}$

$$Q_c = (12.365)(143)(.9915)(.8771)(1.020)$$

1568

MCF/D

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

$$A_{of} = \left(\frac{4,443,664}{4,032,783} \right)^n$$

$$(1.1018)^{.75} (1568) = (1.0745)(1568)$$

$A_{of} = 1685$ MCF/D



NOTE: The well blew dead in approximately 3 1/2 mins. and then unloaded very heavy slug of muddy water and continued to make heavy spray of water with some hydrocarbons throughout test.

TESTED BY R. F. Headrick

WITNESSED BY

Checked by Herman E. McAnelly

Lewis D. Galloway
Lewis D. Galloway