Facility : 61730X99 **Date :** 9/22/2019

Enter data in shaded fields to calculate gas volumes released due to leak and/or blowdown of system.

Hours of leak		
Diameter of hole (inches)		
Line Pressure at Leak		Hourly Basis
Volume of Gas Leaked	**0.00**	0.00 MSCF

NOTE: Enter Components on the Gas Leak or Gas Blowdown sheet as needed.

Rectangle or Line Crack

Length, in.	
Width, in,	
Eqv. Diameter, in.	

Calculations:

Volume of Gas Leaked (MSCF) = Diameter*Diameter*(Upstream Gauge Pressure + Atmospheric Pressure)*Hours of Leak

****Reference: Pipeline Rules of Thumb Handbook, 3rd Edition, McAllister. Page 260. Assuming Standard Temperature and Pressure (14.7 psi and 60 F)**

Footage of Pipe blowndown	62000	
Initial line pressure	675	
Diameter of Pipe (inches)	6	
Volume of Gas Blown Down	**661.78202**	MSCF

Calculations:

Volume of Gas Blown Down (MSCF) = Volume at pipeline conditions (ft3)*(Gauge Pressure (psig)+Atmospheric Pressure 13.7 psi)*Standard Temperature (60F) /(1000 scf/mscf)*Standard Pressure (14.7psi)*Temperature(F)*Z Factor

Volume at pipeline conditions (scf) = Diameter/12 (ft)*Diameter/12 (ft)*PI/4*Length of pipe (ft)

****Reference: Gas Pipeline Hydraulics, Menson (2005) Pages 132-134. Assuming the Ideal Gas Law and Tpipeline = Tatm.**

Total Gas Loss	**661.78 MSCF**	**0.662 MMSCF**

Cause/ Reason: line rupture along the seam no apparent cause of the rupture.

Corrective Action: Incident is under investigation.

Name: steve Kutach III **Cell Phone:** 3033014375