Facility :	B-6		Date :	12/20/2018		
Enter data in shaded fields to calculate gas volumes released due to leak and/or blowdown of system.						
Hours of leak	0.5	NOTE: Enter Components on the Gas Leak or Gas				
Diameter of hole (inches)	0.0625	Blowdow	Blowdown sheet as needed.			
Line Pressure at Leak	615	Hourly Basis	Rectangle or Line Crack			
Volume of Gas Leaked	1.23	1.23 MSCF	Length, in.	0		
		-	Width, in,	0		
Calculations:			Eqv. Diameter, in.			

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	35956	
Initial line pressure	566	
Diameter of Pipe (inches)	8	
Volume of Gas Blown Down	574.47	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 Loss575.70 MSCF0.576 MMSCF

Cause/ Reason: Unknown

Corrective Action: Isolated and blew down

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