

Calculation for Leak Volume

INPUT

Facility Name	=	TD-3 Pipeline	
Date	=	8/20/2019	
Hole Size	=	0.5	Inches
Pipe Pressure	=	60	psig
Duration	=	5	Hrs

EQUATIONS

Leak Rate = $(1.178) * (\text{Hole Size}^2) * (\text{Pipe Psig})$

CALCULATIONS

Leak Rate = 17.670 Mcf/Hr

Gas Loss = 88.350 Mcf

Spill Report Information

Length of Spill Area (ft):	200
Width of Spill Area (ft):	250.0
Depth of Spill Area (ft):	0.2
% Oil in Liquid:	10.0
Amount Recovd. (bbls):	0.0
Est. Liquid Vol. (bbls):	2.2266953
Porosity Factor (soil type):	Sandstone
Vol. of Oil Released (bbls):	2.2266953
Vol. of Water Released (bbls):	20.0402573
Impacted Soil Vol (ft3):	25.725