

******* LIQUID SPILLS - VOLUME CALCULATIONS *******

Location of spill: COG - Stuck Tank Sticks DFU 15 A TB

Date of Spill: 10-Sep-2019

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☒

Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: **0.0** BBL WATER: **0.0** BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations							Standing Liquid Calculations							
Total Surface Area		width	length	wet soil		oil (%)	Standing Liquid Area		width	length	liquid depth	oil (%)		
	Rectangle Area #1	50 ft	15 ft	X	0.65 in	0%		Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%
	Rectangle Area #2	0 ft	X	X	0 in	0%		Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
	Rectangle Area #3	0 ft	X	X	0 in	0%		Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
	Rectangle Area #4	0 ft	X	X	0 in	0%		Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
	Rectangle Area #5	0 ft	X	X	0 in	0%		Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
	Rectangle Area #6	0 ft	X	X	0 in	0%		Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
	Rectangle Area #7	0 ft	X	X	0 in	0%		Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
	Rectangle Area #8	0 ft	X	X	0 in	0%		Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

okay

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil **0** BBL Water **0** BBL **0** Gas (MCFD)

Total Hydrocarbon Content in gas: **0%** (percentage)

Did leak occur before the separator?: ☒ YES ☒ N/A (place an "X")

H2S Content in Produced Gas: **0** PPM

H2S Content in Tank Vapors: **0** PPM

Amount of Free Liquid Recovered: **0** BBL okay

Percentage of Oil in Free Liquid Recovered: **0%** (percentage)

Liquid holding factor *: **0.14** gal per gal

Use the following when the spill wets the grains of the soil.

* Sand = **0.08** gallon (gal.) liquid per gal. volume of soil.
 * Gravelly (caliche) loam = **0.14** gal. liquid per gal. volume of soil.
 * Sandy clay loam soil = **0.14** gal liquid per gal. volume of soil.
 * Clay loam = **0.16** gal. liquid per gal. volume of soil.

Use the following when the liquid completely fills the pore space of the soil:

Occurs when the spill soaked soil is contained by barriers, natural (or not).
 * Clay loam = **0.20** gal. liquid per gal. volume of soil.
 * Gravelly (caliche) loam = **0.25** gal. liquid per gal. volume of soil.
 * Sandy loam = **0.5** gal. liquid per gal. volume of soil.

Total Solid/Liquid Volume:	750 sq. ft.	41 cu. ft.	cu. ft.	Total Free Liquid Volume:	sq. ft.	cu. ft.	cu. ft.
Estimated Volumes Spilled				Estimated Production Volumes Lost			
Liquid in Soil:	1.0 BBL	0.0 BBL		Estimated Production Spilled:	0.0 BBL	0.0 BBL	
Free Liquid:	0.0 BBL	0.0 BBL					
Totals:	1.0 BBL	0.0 BBL					
Estimated Surface Damage				Estimated Surface Damage			
Total Liquid Spill Liquid:	1.0 BBL	0.00 BBL		Surface Area:	750 sq. ft.		
				Surface Area:	.0172 acre		
Recovered Volumes				Estimated Weights, and Volumes			
Estimated oil recovered:	BBL	check - okay		Saturated Soil =	4,550 lbs	41 cu. ft.	2 cu. yds.
Estimated water recovered:	BBL	check - okay		Total Liquid =	1 BBL	43 gallon	354 lbs

Air Emission from flowline leaks:

Volume of oil spill: - BBL
 Separator gas calculated: - MCF
 Separator gas released: - MCF
 Gas released from oil: - lb
 H2S released: - lb
 Total HC gas released: - lb
 Total HC gas released: - MCF

Air Emission of Reporting Requirements:

New Mexico
 HC gas release reportable? **NO**
 H2S release reportable? **NO**
 Texas
 HC gas release reportable? **NO**
 H2S release reportable? **NO**