

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

Location of spill: Screwdriver 24 Federal Com #002H

Date of Spill: 23-Jan-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 depth	oil (%)	Standing Liquid Area	width	length	liquid depth	oil (%)	
Rectangle Area #1	10 ft	93 ft	X	0.10 in	100%	Rectangle Area #1	22 ft	X	40 ft	X	1 in 100%
Rectangle Area #2	40 ft	X	42 ft	X	0.50 in 100%	Rectangle Area #2	0 ft	X	0 ft	X	0 in 0%
Rectangle Area #3	0 ft	X	0 ft	X	0 in 0%	Rectangle Area #3	0 ft	X	0 ft	X	0 in 0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in 0%	Rectangle Area #4	0 ft	X	0 ft	X	0 in 0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in 0%	Rectangle Area #5	0 ft	X	0 ft	X	0 in 0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in 0%	Rectangle Area #6	0 ft	X	0 ft	X	0 in 0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in 0%	Rectangle Area #7	0 ft	X	0 ft	X	0 in 0%
Rectangle Area #8	0 ft	X	0 ft	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: 2,610 sq. ft.

cu. ft.

78 cu. ft.

Total Free Liquid Volume:

880 sq. ft.

cu. ft.

55 cu. ft.

Estimated Volumes Spilled

Liquid in Soil: 0.0 BBL 1.9 BBL
Free Liquid: 0.0 BBL 9.8 BBL
Totals: 0.0 BBL 11.7 BBL

Total Liquid Spill Liquid: 0.0 BBL 11.73 BBL

Recovered Volumes

Estimated oil recovered: BBL check - okay
Estimated water recovered: BBL check - okay

Estimated Production Volumes Lost

Estimated Production Spilled: 0.0 BBL 0.0 BBL

Estimated Surface Damage

Surface Area: 2,610 sq. ft.
Surface Area: .0599 acre

Estimated Weights, and Volumes

Saturated Soil = 8,708 lbs 78 cu. ft. 3 cu. yds.
Total Liquid = 12 BBL 493 gallon 4,100 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
NO
NO