

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

Location of spill: COG - Jazzbass 34 Federal #003H

Date of Spill: 8-Jun-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	70 ft	X	55 ft	X	1.00 in	0%	Rectangle Area #1	0 ft	X	0 ft	X	0 ft	X	0.00 in	0%
Rectangle Area #2	0 ft	X	0 ft	X	0.00 in	0%	Rectangle Area #2	0 ft	X	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0.0 in	0%	Rectangle Area #3	0 ft	X	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0.0 in	0%	Rectangle Area #4	0 ft	X	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0.0 in	0%	Rectangle Area #5	0 ft	X	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 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 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 ft	X	0 in	0%

0.1

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: 3,850 sq. ft. 321 cu. ft. cu. ft. Total Free Liquid Volume: sq. ft. cu. ft. cu. ft.

Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	8.0 BBL	0.0 BBL
Free Liquid:	0.0 BBL	0.0 BBL
Totals:	8.0 BBL	0.0 BBL

Total Liquid Spill Liquid: 8.0 BBL 0.00 BBL

Recovered Volumes

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

Estimated Production Volumes Lost

	H2O	OIL
Estimated Production Spilled:	0.0 BBL	0.0 BBL

Estimated Surface Damage

Surface Area: 3,850 sq. ft.
Surface Area: .0884 acre

Estimated Weights, and Volumes

Saturated Soil = 35,933 lbs 321 cu. ft. 12 cu. yds.
Total Liquid = 8 BBL 336 gallon 2,795 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	Texas
HC gas release reportable?	NO	NO
H2S release reportable?	NO	NO