

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

Location of spill: SRO State Com #506H & #507H

Date of Spill: 14-Aug-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: **X**

**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 (%)							
				depth															
Rectangle Area #1	114	ft	908	ft	X	6.00	in	0%	Rectangle Area #1	0	ft	X	0	ft	X	0	in	0%	
Rectangle Area #2		0	ft	X		0	ft	X		0	ft	X		0	ft	X	0	in	0%
Rectangle Area #3		0	ft	X		0	ft	X		0	ft	X		0	ft	X	0	in	0%
Rectangle Area #4		0	ft	X		0	ft	X		0	ft	X		0	ft	X	0	in	0%
Rectangle Area #5		0	ft	X		0	ft	X		0	ft	X		0	ft	X	0	in	0%
Rectangle Area #6		0	ft	X		0	ft	X		0	ft	X		0	ft	X	0	in	0%
Rectangle Area #7		0	ft	X		0	ft	X		0	ft	X		0	ft	X	0	in	0%
Rectangle Area #8		0	ft	X		0	ft	X		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 Gas (MCFD) **0**

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: **103,512** sq. ft. **51,756** cu. ft. **cu. ft.** Total Free Liquid Volume: **sq. ft.** **cu. ft.** **cu. ft.**

**Estimated Volumes Spilled**

**H2O** **OIL**

Liquid in Soil: **1290.4** BBL **0.0** BBL

Free Liquid: **0.0** BBL **0.0** BBL

Totals: **1290.4** BBL **0.0** BBL

**Estimated Production Volumes Lost**

**H2O** **OIL**

Estimated Production Spilled: **0.0** BBL **0.0** BBL

**Estimated Surface Damage**

Surface Area: **103,512** sq. ft.

Surface Area: **2.3763** acre

**Recovered Volumes**

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

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

**Estimated Weights, and Volumes**

Saturated Soil = **5,796,672** lbs **51,756** cu. ft. **1,917** cu. yds.

Total Liquid = **1,290** BBL **54,199** gallon **450,935** 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**

2RP-5717