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

Location of spill: Tres Equis State 2H   **Date of Spill:** 6/5/2019

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:

	OIL:	WATER:
If spill volumes from measurement, i.e. metering, tank volumes, etc.are known enter the volumes here:	**0.0000 BBL**	**0.0000 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	50 ft	X	15 ft	X	5 in	0%	Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%	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%

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okay
Production Data NOT Required

Average Daily Production: Oil   Water
     0 BBL   0 BBL

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

Amount of Free Liquid Recovered:	0 BBL	okay	Percentage of Oil in Free Liquid Recovered:	2% (percentage)
Liquid holding factor *:	0.14 gal per gal			

Use the following when the spill wets the grains of the soil.
* sand = .08 gallon liquid per gallon volume of soil.
* gravelly (caliche) loam = .14 gallon liquid per gallon volume of soil.
* sandy clay loam soil = .14 gallon liquid per gallon volume of soil.
* clay loam = .16 gallon liquid per gallon volume of soil.

Use the following when the liquid completely fills the pore space of the soil:
Occures when the spill soaked soil is contained by barriers, natural (or not).
* gravelly (caliche) loam = .25 gallon liquid per gallon volume of soil.
* sandy loam = .5 gallon liquid per gallon volume of soil.

Saturated Soil Volume Calculations:

	H2O	OIL
Total Solid/Liquid Volume:	**750** sq. ft. **313** cu. ft.	cu. ft.

Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	7.8 BBL	0.0 BBL
Free Liquid:	0.0 BBL	0.0 BBL
Totals:	**7.792 BBL**	**0.000 BBL**
Total Liquid Spill Liquid:	**7.792 BBL**	**0.000 BBL**

Recovered Volumes

Estimated oil recovered:	0.0 **BBL**	check - okay
Estimated water recovered:	0.0 **BBL**	check - okay

Free Liquid Volume Calculations:

		H2O	OIL
Total Free Liquid Volume:	sq. ft.	**.000** cu. ft.	**.000** cu. ft.

Estimated Production Volumes Lost

	H2O	OIL
Estimated Production Spilled:	**0.000000** BBL	**0.000000** BBL

Estimated Surface Damage

Surface Area:	750 sq. ft.
Surface Area:	.0172 acre

Estimated Weights, and Volumes

Saturated Soil =	35,000 lbs	313 cu.ft.	12 cu.yds.
Total Liquid =	8 BBL	327.25 gallon	2,723 lbs