Location of sp	ill:	COG - Red Sa	auce Stat	te 1H TB	_	Date of Spill:	8-Nov	2019				
		If the leak/sp	ill is ass	ociated with	_ productio	n equipment , i.e wellhead,	stuffing box,					
	f	flowline, tank ba	ittery, pro	oduction vesse	l, transfer	pump, or storage tank place	an "X" here: X					
					Input	Data:						
If spill volumes fr	om meas	urement. i.e. me	eterina. ta	ank volumes, e	etc. are kno	own enter the volumes here:	OIL: 0.0 BE		WATER: 0.0 BBI	1		
						Iculations" is optional. The					s.	
Total	Area C	alculations					Standing Liq	uid (Calculation	s		
Total Surface Area width		length		wet soil depth	oil (%)	Standing Liquid Area	width		length	lia	uid depth	oil (%
Rectangle Area #1 65	ť	30 ft	Х	0.25 in	100%	Rectangle Area #1	0 ft	Х	0 ft	Х	0 in	(
Rectangle Area #2 0		0 ft	Х	0 in	0%	Rectangle Area #2	0 ft		0 ft		0 in	(
Rectangle Area #3 0		0 ft 0 ft	X X	0 in 0 in	0% 0%	Rectangle Area #3	0 ft 0 ft	X X	0 ft 0 ft	X X	0 in 0 in	(
Rectangle Area #4 0 Rectangle Area #5 0		0 ft	x	0 in	0%	Rectangle Area #4 Rectangle Area #5		x	0 ft		0 in	(
Rectangle Area #6 0		0 ft	X	0 in	0%	Rectangle Area #6	0 ft		0 ft		0 in	(
Rectangle Area #7 0		0 ft	х	0 in	0%	Rectangle Area #7		Х	0 ft		0 in	(
Rectangle Area #8 0	t X	0 ft	Х	0 in	0%	Rectangle Area #8	0 ft	Х	0 ft	х	0 in	(
					okay							
	0.00					DUCTION DATA REQUIRED)					
Average Daily Production: Oil	0 BBL	Water 0	BBL	0 Gas	s (MCFD)	Total Hydrocarbon Co	ontent in gas:)%	(percentage)			
Did leak occur before the separator?:		YES	N/A	(place an "X	<i>"</i>)	H2S Content in Pr			PPM			
				(prace arr re	/							
						H2S Content in	Fank Vapors:	0	PPM			
Amount of Free Liquid Recovered:	3BL		okay			H2S Content in ⁻ Percentage of Oil i	n Eree Liquid		PPM (percentage)			
Recovered:	3BL gal per ga		he followir	ng when the spill v		Percentage of Oil i	n Free Liquid Recovered:	9% en the I	(percentage)			
Recovered:		* San	<u>the followin</u> nd = 0.08 g	gallon (gal.) liquid	per gal. volu	Percentage of Oil i	n Free Liquid Recovered:)% (en the I I soake	(percentage) liquid completely f ed soil is contained	d by barriers		
Recovered:		* San * Gra	the followir nd = 0.08 g velly (calic	gallon (gal.) liquid che) loam = 0.14 g	per gal. volu gal. liquid per	Percentage of Oil i	n Free Liquid Recovered: Use the following wh Occurs when the spi * Clay loam = 0.20 g)% (<u>en the I</u> I soake al. liquid	(percentage) liquid completely f ed soil is contained d per gal. volume	d by barriers of soil.	s, natural (or n	
Recovered:		* San * Gra * San	the followin nd = 0.08 g welly (calic ndy clay loa	gallon (gal.) liquid	per gal. volu gal. liquid per liquid per ga	Percentage of Oil i us of the soil. me of soil. gal. volume of soil. I. volume of soil.	n Free Liquid Recovered:	9% (en the l I soake al. liquid pam = C	(percentage) liquid completely f ad soil is contained d per gal. volume 0.25 gal. liquid per	d by barriers of soil. · gal. volum	s, natural (or n	
Recovered:	gal per ga	* San * Gra * San	the followin ad = 0.08 g velly (calic ady clay loa y loam = 0	gallon (gal.) liquid che) loam = 0.14 g am soil = 0.14 gal	per gal. volu gal. liquid per liquid per ga gal. volume	Percentage of Oil i us of the soil. me of soil. gal. volume of soil. I. volume of soil.	n Free Liquid Recovered: Use the following wh Occurs when the spi * Clay loam = 0.20 g * Gravelly (caliche) k	9% I soake al. liquid bam = (al. liqui	(percentage) liquid completely f ad soil is contained d per gal. volume 0.25 gal. liquid per	d by barriers of soil. gal. volum of soil.	s, natural (or n	ot).
Recovered: 0	gal per ga	* San * Gra * San * Clay cu. 1	the followin ad = 0.08 g velly (calic ady clay loa y loam = 0	gallon (gal.) liquid she) loam = 0.14 g am soil = 0.14 gal .16 gal. liquid per 41 cu.	per gal. volu gal. liquid per liquid per ga gal. volume	Percentage of Oil i is of the soil. me of soil. gal. volume of soil. I. volume of soil. of soil.	n Free Liquid Recovered: Use the following wh Occurs when the spi ' Clay loam = 0.20 g ' Gravelly (caliche) k ' Sandy loam = 0.5 g	9% I soake al. liquid bam = (al. liqui	(percentage) liquid completely / d soil is contained d per gal. volume 0.25 gal. liquid per id per gal. volume Cu.	d by barriers of soil. gal. volum of soil.	s, natural (or n e of soil. CU.	ot).
Recovered: U Liquid holding factor *: 0.14 Total Solid/Liquid Volume: 1,950	gal per ga	* San * Gra * San * Clay	the followir ad = 0.08 g velly (calic ady clay loa y loam = 0 ft.	gallon (gal.) liquid che) loam = 0.14 g am soil = 0.14 gal .16 gal. liquid per	per gal. volu gal. liquid per liquid per ga gal. volume ft.	Percentage of Oil i sof the soil, me of soil. gal. volume of soil. I. volume of soil. of soil. Total Free Liquid Volume:	n Free Liquid Recovered: Use the following wh Occurs when the spi * Clay loam = 0.20 g * Gravelly (caliche) lo * Sandy loam = 0.5 g sq.	9% I soake al. liquid bam = (al. liqui	(percentage) liquid completely f ed soil is container d per gal. volume 0.25 gal. liquid per id per gal. volume	d by barriers of soil. gal. volum of soil. ft.	s, natural (or n e of soil.	ot). ft.
Recovered: U Liquid holding factor *: 0.14 Total Solid/Liquid Volume: 1,950 Estimated Volumes Spilled Liquid in Soil: Free Liquid:	gal per ga	* San * Gra * San * Clay cu. 1 <u>H2O</u> 0.0 BBL 0.0 BBL	the following and = 0.08 g velly (calic ady clay loa y loam = 0 ft.	gallon (gal.) liquid the) loam = 0.14 ga am soil = 0.14 gal .16 gal. liquid per 41 cu. <u>OIL</u> 1.0 BBL 0.0 BBL	per gal. volu gal. liquid per ga gal. volume ft.	Percentage of Oil i sof the soil. me of soil. gal. volume of soil. I. volume of soil. I. volume of soil. Total Free Liquid Volume: <u>Estimated Production</u> Estimated Produ	n Free Liquid Recovered: Use the following wh Occurs when the spi ' Clay loam = 0.20 g ' Gravelly (caliche) k ' Sandy loam = 0.5 g Sq. Volumes Lost ction Spilled:	9% I soake al. liquid bam = (al. liqui	(percentage) liquid completely / ld soil is contained d per gal. volume 0.25 gal. liquid per id per gal. volume cu. H20	d by barriers of soil. gal. volum of soil. ft.	s, natural (or n e of soil. Cu. <u>OIL</u>	ot). ft.
Recovered: U Liquid holding factor *: 0.14 Total Solid/Liquid Volume: 1,950 Estimated Volumes Spilled Liquid in Soil:	gal per ga	* San * Gra * San * Clay cu. 1 <u>H2O</u> 0.0 BBL	the following and = 0.08 g velly (calic ady clay loa y loam = 0 ft.	gallon (gal.) liquid she) loam = 0.14 ga am soil = 0.14 gal .16 gal. liquid per 41 cu. <u>OIL</u> 1.0 BBL	per gal. volu gal. liquid per ga gal. volume ft.	Percentage of Oil i sof the soil. gal. volume of soil. I. volume of soil. of soil. Total Free Liquid Volume: <u>Estimated Production</u>	n Free Liquid Recovered: Use the following wh Occurs when the spi ' Clay loam = 0.20 g ' Gravelly (caliche) k ' Sandy loam = 0.5 g Sq. Volumes Lost ction Spilled:	9% (I soake al. liquid pam = C al. liqui ft.	(percentage) liquid completely / ld soil is contained d per gal. volume 0.25 gal. liquid per id per gal. volume cu. H20	d by barriers of soil. gal. volum of soil. ft.	s, natural (or n e of soil. Cu. <u>OIL</u>	ot).
Recovered: U Liquid holding factor *: 0.14 Total Solid/Liquid Volume: 1,950 Estimated Volumes Spilled Liquid in Soil: Free Liquid:	gal per ga	* San * Gra * San * Clay cu. 1 <u>H2O</u> 0.0 BBL 0.0 BBL	the following of the fo	gallon (gal.) liquid the) loam = 0.14 ga am soil = 0.14 gal .16 gal. liquid per 41 cu. <u>OIL</u> 1.0 BBL 0.0 BBL	per gal. volu gal. liquid per ga gal. volume ft.	Percentage of Oil i s of the soil. gal. volume of soil. I. volume of soil. of soil. Total Free Liquid Volume: <u>Estimated Production</u> Estimated Produ <u>Estimated Surfac</u>	n Free Liquid Recovered: Use the following wh Occurs when the spi * Clay loam = 0.20 g * Gravelly (caliche) k * Sandy loam = 0.5 g sq. Volumes Lost ction Spilled: & Damage	n% (I soake al. liquio par = 0 al. liqui ft.	(percentage) liquid completely / ld soil is contained d per gal. volume 0.25 gal. liquid per id per gal. volume cu. H20	d by barriers of soil. gal. volum of soil. ft.	s, natural (or n e of soil. Cu. <u>OIL</u>	ot).
Recovered: U Liquid holding factor *: 0.14 Total Solid/Liquid Volume: 1,950 Estimated Volumes Spilled Liquid in Soil: Free Liquid: Totals:	gal per ga	* San * Gra * San * Clay cu. 1 0.0 BBL 0.0 BBL 0.0 BBL	the following of the fo	gallon (gal.) liquid (he) loam = 0.14 g am soil = 0.14 gal 16 gal. liquid per 41 cu. 0.0 BBL 0.0 BBL 1.0 BBL	per gal. volu gal. liquid per ga gal. volume ft.	Percentage of Oil i s of the soil. gal. volume of soil. I. volume of soil. Total Free Liquid Volume: <u>Estimated Production</u> Estimated Produ <u>Estimated Surface</u> Surface Area:	n Free Liquid Recovered: Use the following wh Occurs when the spi Clay loam = 0.20 g Gravelly (caliche) k Sandy loam = 0.5 g Sq. Volumes Lost uction Spilled: De Damage 1,950 sq. .0448 act	n% (I soake al. liquio par = 0 al. liqui ft.	(percentage) liquid completely / ld soil is contained d per gal. volume 0.25 gal. liquid per id per gal. volume cu. H20	d by barriers of soil. gal. volum of soil. ft.	s, natural (or n e of soil. Cu. <u>OIL</u>	ot). ft.
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Recovered: 0.14 Liquid holding factor *: 0.14 Total Solid/Liquid Volume: 1,950 Estimated Volumes Spilled Liquid in Soil: Free Liquid: Totals: Total Liquid Spill Liquid: Recovered Volumes Estimated oil recovered: Estimated water recovered: Air Emission from flowline leak Volume of oil spill: - Separator gas calculated: - Separator gas released: -	gal per ga sq. ft. BBL BBL SBL MCF MCF	* San * Gra * San * Clay cu. 1 Cu. 1 0.0 BBL 0.0 BBL 0.0 BBL 0.0 BBL	the followin d = 0.08 s velly (calic dy clay log y loarn = 0 ft.	gallon (gal.) liquid (he) loam = 0.14 gal .16 gal. liquid per 41 cu. 0.0 BBL 1.0 BBL 1.0 BBL 1.0 BBL 1.0 BBL	per gal. volu jal. liquid per liquid per ga gal. volume ft. - - - -	Percentage of Oil i sof the soil. me of soil. gal. volume of soil. i. volume of soil. Total Free Liquid Volume: Estimated Production Estimated Production Estimated Production Surface Area: Surface Area: Surface Area: Surface Area: Estimated Weights, Saturated Soil = Total Liquid = Air Emission of Reportin	n Free Liquid Recovered: Use the following wh Occurs when the spi * Clay loam = 0.20 g * Gravelly (caliche) k * Sandy loam = 0.5 g • Volumes Lost totion Spilled: • Damage 1,950 sq. .0448 acr and Volumes 4,550 lbs 1 BB	en the l I soake al. liqui boam = C al. liqui ft. ft. e	(percentage) liquid completely / d soil is contained d per gal. volume 2.25 gal. liquid per id per gal. volume Cu. H2O 0.0 BBL 4.1 cu. 4.3 galle Tex	d by barriers of soil. · gal. volum of soil. ft. - - ft. on <u>as</u>	s, natural (or n e of soil. cu. <u>OIL</u> 0.0 BBI	-
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