Location of spill:	COG Tusk	Federal #	2H	Date of Spill	7-Mar-201	9		
-	If the leak/sp	ill is asso	ciated with prod	uction equipment, i.e wellhead	d, stuffing box,			
	flowline, tank ba	ttery, prod	luction vessel, tra	nsfer pump, or storage tank place	e an "X" here: X			
			Ir	iput Data:	OIL:	WATER:		
				re known enter the volumes here:		0.0 BBL		
	es are given, input	data for th	he following "Are	ea Calculations" is optional. Th	Standing Liquid		imes.	
			wet soil				linuid dauth	-:1 (0
Total Surface Area width Rectangle Area #1 40 ft	length 142 ft	Х	depth oil 3.50 in	(%) Standing Liquid Area 0% Rectangle Area #1	width 0 ft X	length 0 ft X	liquid depth 0 in	%) oil 0
Rectangle Area #2 0 ft 2		X	0 in	0% Rectangle Area #2		0 ft X	0 in	C
Rectangle Area #3 0 ft 2 Rectangle Area #4 0 ft 2		X X	0 in 0 in	0% Rectangle Area #3 0% Rectangle Area #4		Oft X Oft X	0 in 0 in	0
Rectangle Area #5 0 ft		x	0 in	0% Rectangle Area #5		0 ft X	0 in	Č
Rectangle Area #6 0 ft		X	0 in	0% Rectangle Area #6		0 ft X	0 in	C
Rectangle Area #7 0 ft 0 Rectangle Area #8 0 ft 0		X X	0 in 0 in	0% Rectangle Area #7 0% Rectangle Area #8		0 ft X 0 ft X	0 in 0 in	((
	produ	etion ever		kay PRODUCTION DATA REQUIRE	.n			
Average Daily Production: Oil 0			0 Gas (M					
		_		Total Hydrocarbon (Content in gas: 0%	(percentage)		
Did leak occur before the separator?:	YES	N/A	(place an "X")	H2S Content in F		PPM		
				H2S Content in		PPM		
Amount of Free Liquid Recovered: 15 BBL		okay		Percentage of Oi	l in Free Liquid Recovered: 0%	(percentage)		
Liquid holding factor *: 0.14 gal p	-		when the spill wets th		Use the following when th	e liquid completely fills the	e pore space of the	soil:
			llon (gal.) liquid per g			ked soil is contained by b		ot).
				uid per gal. volume of soil.		uid per gal. volume of soi = 0.25 gal. liquid per gal. v		
				per gal volume of soil				
		y ioam = 0.1	6 gal. liquid per gal. v	per gal. volume of soil. olume of soil.		quid per gal. volume of so		
Total Solid/Liquid Volume: 5,680 sq. fi					* Sandy loam = 0.5 gal. lie			ft.
Total Solid/Liquid Volume: 5,680 sq. ft Estimated Volumes Spilled	. 1,657 cu. 1		6 gal. liquid per gal. v	olume of soil.	* Sandy loam = 0.5 gal. li sq. ft.	quid per gal. volume of so	il.	ft.
		ft.	6 gal. liquid per gal. v	olume of soil. Total Free Liquid Volume	* Sandy loam = 0.5 gal. li sq. ft. on Volumes Lost	quid per gal. volume of so	il.	
<u>Estimated Volumes Spilled</u> Liquid in Soil: Free Liquid:	. 1,657 cu. 1 <u>H2O</u> 41.3 BBL <u>0.0</u> BBL	ft. -	6 gal. liquid per gal. v cu. ft. OIL 0.0 BBL 0.0 BBL	olume of soil. Total Free Liquid Volume <u>Estimated Productic</u> Estimated Proc	* Sandy loam = 0.5 gal. lii sq. ft. on Volumes Lost duction Spilled:	quid per gal. volume of so cu. ft. <u>H2O</u>	ار دu. <u>OIL</u>	
Estimated Volumes Spilled Liquid in Soil:	. 1,657 cu . 1 <u>H2O</u> 41.3 BBL	ft. -	6 gal. liquid per gal. v cu. ft. <u>OIL</u> 0.0 BBL	olume of soil. Total Free Liquid Volume <u>Estimated Productic</u>	* Sandy loam = 0.5 gal. lii sq. ft. on Volumes Lost duction Spilled: here Damage	quid per gal. volume of so cu. ft. <u>H2O</u>	ار دu. <u>OIL</u>	
<u>Estimated Volumes Spilled</u> Liquid in Soil: Free Liquid:	. 1,657 cu. 1 <u>H2O</u> 41.3 BBL <u>0.0</u> BBL	ft. - -	6 gal. liquid per gal. v cu. ft. OIL 0.0 BBL 0.0 BBL	olume of soil. Total Free Liquid Volume Estimated Productic Estimated Proc Estimated Surfa	* Sandy loam = 0.5 gal. lii sq. ft. on Volumes Lost duction Spilled: <u>ice Damage</u> 5,680 sq. ft.	quid per gal. volume of so cu. ft. <u>H2O</u>	ار دu. <u>OIL</u>	
<u>Estimated Volumes Spilled</u> Liquid in Soil: Free Liquid: Totals:	. 1,657 cu. 1 H2O 41.3 BBL 0.0 BBL 41.3 BBL	ft. - -	6 gal. liquid per gal. v cu. ft. 0.0 BBL 0.0 BBL 0.0 BBL	olume of soil. Total Free Liquid Volume <u>Estimated Productic</u> Estimated Proc <u>Estimated Surfa</u> Surface Area	* Sandy loam = 0.5 gal. lik sq. ft. on Volumes Lost duction Spilled: <u>the Damage</u> 5,680 sq. ft. 1304 acre	quid per gal. volume of so cu. ft. <u>H2O</u>	ار دu. <u>OIL</u>	
Estimated Volumes Spilled Liquid in Soil: Free Liquid: Totals: Total Liquid Spill Liquid:	. 1,657 cu. 1 <u>H20</u> 41.3 BBL <u>0.0 BBL</u> 41.3 BBL 41.3 BBL	ft. - -	6 gal. liquid per gal. v cu. ft. 0.0 BBL 0.0 BBL 0.0 BBL 0.0 BBL	olume of soil. Total Free Liquid Volume <u>Estimated Productio</u> Estimated Prod <u>Estimated Surfa</u> Surface Area Surface Area	* Sandy loam = 0.5 gal. lii sq. ft. on Volumes Lost duction Spilled: ace Damage 5,680 sq. ft. 1304 acre and Volumes	quid per gal. volume of so cu. ft. <u>H2O</u>	ار دu. <u>OIL</u>	L
Estimated Volumes Spilled Liquid in Soil: Free Liquid: Totals: Total Liquid Spill Liquid: <u>Recovered Volumes</u>	. 1,657 cu. 1 <u>H2O</u> 41.3 BBL 41.3 BBL 41.3 BBL	ft. - -	6 gal. liquid per gal. v cu. ft. 0.0 BBL 0.0 BBL 0.0 BBL 0.0 BBL	olume of soil. Total Free Liquid Volume <u>Estimated Productio</u> Estimated Proc <u>Estimated Surfa</u> Surface Area Surface Area Surface Area	* Sandy loam = 0.5 gal. lii sq. ft. on Volumes Lost duction Spilled: <u>the Damage</u> 5,680 sq. ft. 1304 acre <u>and Volumes</u> = 185,547 lbs	quid per gal. volume of so cu. ft. <u>H2O</u> 0.0 BBL	il. cu. <u>OIL</u> 0.0 BBI	L yds.
Estimated Volumes Spilled Liquid in Soil: Free Liquid: Totals: Total Liquid Spill Liquid: Recovered Volumes Estimated oil recovered: BBL Estimated water recovered: BBL	. 1,657 cu. 1 <u>H2O</u> 41.3 BBL 41.3 BBL 41.3 BBL	ft.	6 gal. liquid per gal. v cu. ft. 0.0 BBL 0.0 BBL 0.0 BBL 0.0 BBL	olume of soil. Total Free Liquid Volume <u>Estimated Productio</u> Estimated Proc <u>Estimated Surfa</u> Surface Area Surface Area <u>Estimated Weights</u> Saturated Soil = Total Liquid =	* Sandy Ioam = 0.5 gal. lik sq. ft. on Volumes Lost duction Spilled: <u>toce Damage</u> 5,680 sq. ft. 1304 acre and Volumes 185,547 lbs 185L	uid per gal. volume of so cu. ft. <u>H2O</u> 0.0 BBL	il. Cu. 0.0 BBI 61 cu.	L yds.
Estimated Volumes Spilled Liquid in Soil: Free Liquid: Totals: Total Liquid Spill Liquid: Recovered Volumes Estimated oil recovered: BBL Estimated water recovered: BBL Air Emission from flowline leaks:	. 1,657 cu. 1 <u>H2O</u> 41.3 BBL 41.3 BBL 41.3 BBL	ft.	6 gal. liquid per gal. v cu. ft. 0.0 BBL 0.0 BBL 0.0 BBL 0.0 BBL	olume of soil. Total Free Liquid Volume <u>Estimated Productic</u> Estimated Proc <u>Estimated Surfa</u> Surface Area Surface Area <u>Estimated Weights</u> Saturated Soil =	* Sandy Ioam = 0.5 gal. lik sq. ft. on Volumes Lost duction Spilled: <u>toce Damage</u> 5,680 sq. ft. 1304 acre and Volumes 185,547 lbs 185L	1,657 cu. ft.	il. Cu. 0.0 BBI 61 cu.	L yds.
Estimated Volumes Spilled Liquid in Soil: Free Liquid: Totals: Total Liquid Spill Liquid: Recovered Volumes Estimated oil recovered: BBL Estimated water recovered: BBL Separator gas calculated: MCF	. 1,657 cu. 1 <u>H2O</u> 41.3 BBL 41.3 BBL 41.3 BBL	ft.	6 gal. liquid per gal. v cu. ft. 0.0 BBL 0.0 BBL 0.0 BBL 0.0 BBL	olume of soil. Total Free Liquid Volume <u>Estimated Productio</u> Estimated Prod <u>Estimated Surfa</u> Surface Area Surface Area <u>Estimated Weights</u> Saturated Soil = Total Liquid = <u>Air Emission of Report</u> HC gas release reportable?	* Sandy Ioam = 0.5 gal. lik sq. ft. on Volumes Lost duction Spilled: <u>toce Damage</u> 5,680 sq. ft. 1304 acre and Volumes 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 198,100	uid per gal. volume of so cu. ft. <u>H2O</u> 0.0 BBL	il. Cu. 0.0 BBI 61 cu.	L yds.
Estimated Volumes Spilled Liquid in Soil: Free Liquid: Totals: Total Liquid Spill Liquid: Recovered Volumes Estimated oil recovered: BBL Estimated water recovered: BBL Separator gas calculated: Volume of oil spill: Separator gas calculated: MCF Separator gas released: MCF	. 1,657 cu. 1 <u>H2O</u> 41.3 BBL 41.3 BBL 41.3 BBL	ft.	6 gal. liquid per gal. v cu. ft. 0.0 BBL 0.0 BBL 0.0 BBL 0.0 BBL	olume of soil. Total Free Liquid Volume <u>Estimated Productic</u> Estimated Proc <u>Estimated Surfa</u> Surface Area Surface Area Surface Area Surface Area Surface Area Surface Area Surface Area Surface Area <u>Estimated Weights</u> Saturated Soil = Total Liquid = <u>Air Emission of Report</u>	* Sandy Ioam = 0.5 gal. lik sq. ft. on Volumes Lost duction Spilled: <u>toce Damage</u> 5,680 sq. ft. 1304 acre and Volumes 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 198,100	quid per gal. volume of so cu. ft. <u>H2O</u> 0.0 BBL 1,657 cu. ft. 1,735 gallon <u>Texas</u>	il. Cu. 0.0 BBI 61 cu.	L yds.
Estimated Volumes Spilled Liquid in Soil: Free Liquid: Totals: Total Liquid Spill Liquid: Recovered Volumes Estimated oil recovered: BBL Estimated water recovered: BBL <u>Air Emission from flowline leaks:</u> Volume of oil spill: Separator gas calculated: MCF Gas released from oil: U	. 1,657 cu. 1 <u>H2O</u> 41.3 BBL 41.3 BBL 41.3 BBL	ft.	6 gal. liquid per gal. v cu. ft. 0.0 BBL 0.0 BBL 0.0 BBL 0.0 BBL	olume of soil. Total Free Liquid Volume <u>Estimated Productio</u> Estimated Prod <u>Estimated Surfa</u> Surface Area Surface Area <u>Estimated Weights</u> Saturated Soil = Total Liquid = <u>Air Emission of Report</u> HC gas release reportable?	* Sandy Ioam = 0.5 gal. lik sq. ft. on Volumes Lost duction Spilled: <u>toce Damage</u> 5,680 sq. ft. 1304 acre and Volumes 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 198,100	H2O 0.0 BBL 1,657 cu. ft. 1,735 gallon	il. Cu. 0.0 BBI 61 cu.	L yds.
Estimated Volumes Spilled Liquid in Soil: Free Liquid: Totals: Total Liquid Spill Liquid: Recovered Volumes Estimated oil recovered: BBL Separator gas calculated: Volume of oil spill: Separator gas released: MCF	. 1,657 cu. 1 <u>H2O</u> 41.3 BBL 41.3 BBL 41.3 BBL	ft.	6 gal. liquid per gal. v cu. ft. 0.0 BBL 0.0 BBL 0.0 BBL 0.0 BBL	olume of soil. Total Free Liquid Volume <u>Estimated Productio</u> Estimated Prod <u>Estimated Surfa</u> Surface Area Surface Area <u>Estimated Weights</u> Saturated Soil = Total Liquid = <u>Air Emission of Report</u> HC gas release reportable?	* Sandy Ioam = 0.5 gal. lik sq. ft. on Volumes Lost duction Spilled: <u>toce Damage</u> 5,680 sq. ft. 1304 acre and Volumes 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 185,547 lbs 198,100	H2O 0.0 BBL 1,657 cu. ft. 1,735 gallon	il. Cu. 0.0 BBI 61 cu.	L yds.