FORM **27** Rev 6/99

State of Colorado Oil and Gas Conservation Commission



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

FOR OG	CC USE ONLY
OCCC I	Employee:
0000	Imployee.
Spill	Complaint
Inspection	n NOAV
Tracking No:	2608926

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Spill or Release X Plug & Aband	on Central Facility Closure	Site/Facility Closure	Other (describe):
OGCC Operator Number: 56565			Contact Name and Telephone:
Name of Operator: Merit	Energy		Ronnie Singleton
Address: 1221 40t ^h St			No: 970-534-0031
City: Evans	State: Co	Zip: 80620	Fax: e-mail: ronnie.singleton@meritenergy.com
API Number: 05-123	3-20012 C	County: Wel	ld
Facility Name: Tank Battery	F	acility Number:	
Well Name: Rory		Vell Number:1	
Location: (QtrQtr, Sec, Twp, Rng, Me			Latitude:Longitude:
	TECHNICA	AL CONDITION:	S
Type of Waste Causing Impact (crude	e oil, condensate, produced water,		
Site Conditions: Is location within a	sensitive area (according to Rule 9	If yes, atta 901e)? Yes, based on pr	ach evaluation Y roximity to irrigation and AG land
Adjacent land use (cultivate	ed, irrigated, dry land farming, indu	strial, residential, etc.):	Pasture / Undeveloped
Soil type, if not previously in	dentified on Form 2A or Federal Su	ırface Use Plan: clay	and sand
Potential receptors (water wells within	n 1/4 mi, surface waters, etc.): Gr	oundwater approx 7-8	feet BGL, South Platte River approx 500 ft east
soaked into the subsurface. Impacted Media (check):	elease was contained within berm,	Some of the release ov	verspray extended outside of berm to the west. Fluids How Determined:
Soils	Within tank battery berm and to the west, vertical	illy from surface to the water table	Visual observations during initial excavation
Vegetation	NA		
Groundwater	Oil on water surface, 7-8' BGL		Visual observation of excavation base.
Surface Water	NA		<u> </u>
	REMEDIA	TION WORKPL	_AN
Describe initial action taken (if previous berm were removed with vac truck.	ously provided, refer to that form o	r document): See	Form 19, Well was shut-in. Residual fluids within
berm and approximately 15 feet west of 75 feet by 30 feet. A second nit senal	utside the original berm area. Majo of the tank battery berm. The prima rated from the primary pit by a 1' hi	ority of the soils from su ary excavation area incl inh berm (3' wide) to the	
Describe how remediation of existing facility, land treatment on site, removed.		_	nd disposal at an injection well or licensed ourning of oily vegetation, etc.:
		::::	
Impacted soils were removed and disposite sheen and free product on the groundy			r will be pumped from the pit to address visible lity.
_	•	-	

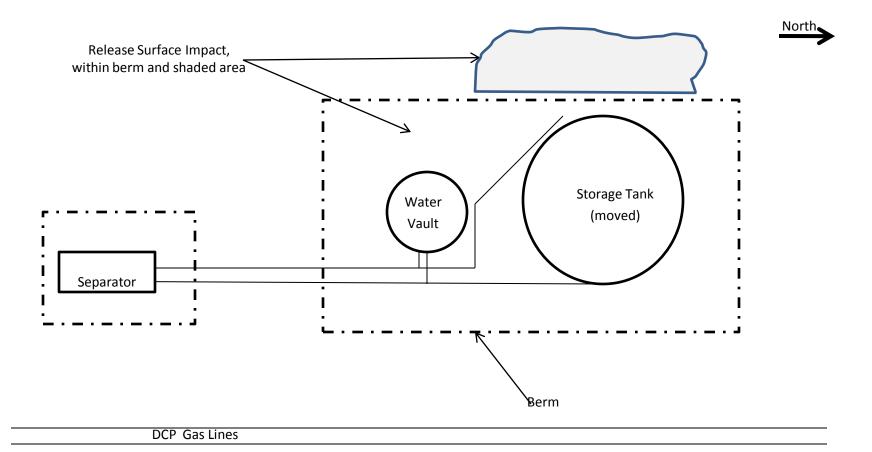
FORM 27 Rev 6/99

State of Colorado Oil and Gas Conservation Commission 1120 Lincoln Street Shife 801 Denver Colorado 8020



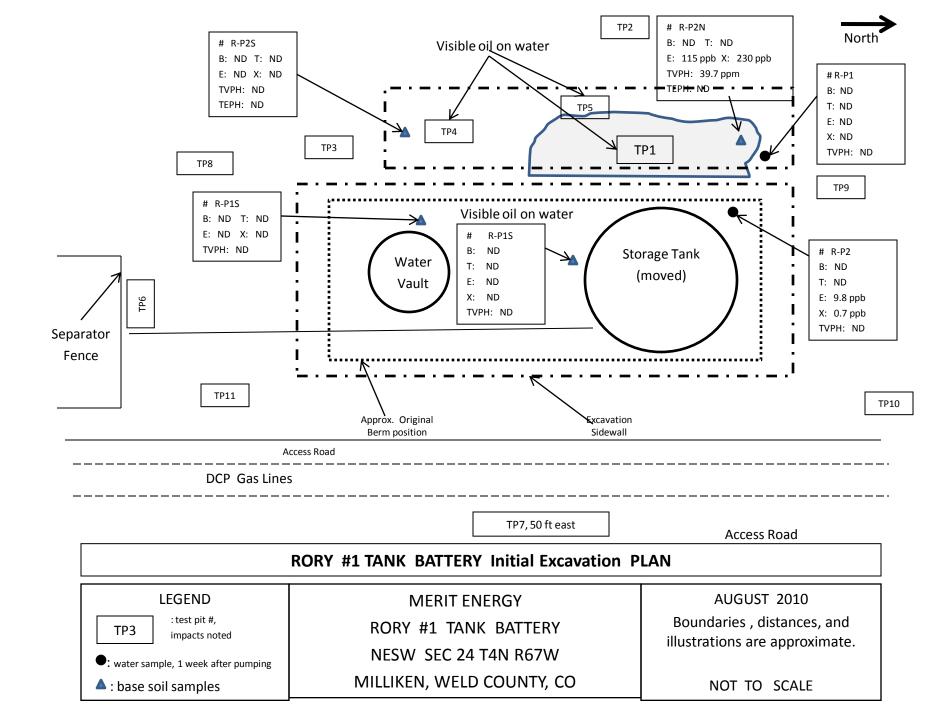
Tracking Number:	
Name of Operator:	
OGCC Operator No:	
Received Date:	
Well Name & No:	

Received Date: Received Date: Received Date: Received Date: Well Name & No: Merit Rory #1 Tank battery It groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, anal methods, etc.): After pumping the pit for a week water samples were collected for lab analysis. Additional water samples will be collected from pit pric backfilling. Temporary monitoring wells will be installed at appropriate locations. Wells will be sampled after site work is completed. Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and re program, including location of new seed, seed mix and noxlous weed prevention. Attach diagram or drawing. Use additional she description if required. The tank battery will be replaced and the appropriate repairs will be made. Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite or drawing. At this time the only samples that have been completed are from the initial water samples from the pit and sample excavation base. These results are below regulatory action levels. Copies of this analytical are attached. Is further site investigation required? Y X N If yes, describe: Overexcavation is necessary outside of the initial pit excavation. Subsequent samples of the lateral exception of three gas lines buried in and east of the service road.	or to
Facility Name & No: Mcrit Roxy #1 Tank battery It groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, anal methods, etc.): After pumping the pit for a week water samples were collected for lab analysis. Additional water samples will be collected from pit price backfilling. Temporary monitoring wells will be installed at appropriate locations. Wells will be sampled after site work is completed. Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reprogram, including location of new seed, seed mix and noxlous weed prevention. Attach diagram or drawing. Use additional she description if required. The tank battery will be replaced and the appropriate repairs will be made. Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite or drawing. At this time the only samples that have been completed are from the initial water samples from the pit and sample excavation base. These results are below regulatory action levels. Copies of this analytical are attached. Is further site investigation required? Y X N If yes, describe: Overexcavation is necessary outside of the initial pit excavation. Subsequent samples of the lateral excessible collected. It is assumed that the lateral extension of the excavation to the east is limited by the p of three gas lines buried in and east of the service road.	or to
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Field screening of the initial execution indicator that estimate are assessed within the second state of t	resence
Field screening of the initial excavation indicates that residual impacts are present within the water table. To reduce or limit the potential for long term impact the excavation will be extended to remove a reason amount of impacted materials. The overburden materials will be set aside and reused as fill materials.	zone. rable
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IMPLEMENTATION	
Date Site Investigation Began: Aug 23, 2010 Date Site Investigation Completed: Appro 10/7 Date Remediation Plan Submitted:	<u></u>
Remediation Start Date: 8/25/2010 Anticipated Completion Date: October 30, 2010 Actual Completion Date: TBD	
hereby certify that the statements made in this form are, to the best of my knowledge frue, correct and complete.	
Print Name: John Mahoney (for Merit Energy) Signed:	
Title: MEC Inc. President Date: Sept 26, 2019	
GCC Approved: / arey June for Title ols (Nalson Date: /	



Access Road

	RORY #1 TANK BATTERY SITE PLAN	
LEGEND	MERIT ENERGY	AUGUST 2010
	RORY #1 TANK BATTERY	Boundaries , distances, and
	NESW SEC 24 T4N R67W	illustrations are approximate.
	MILLIKEN, WELD COUNTY, CO	NOT TO SCALE



19703531671

WELD LABORATORIES, INC.

1527 First Avenue • Greeley, Colorado 80631 Phone: (970) 353-8118 • Fax: (970) 353-1671 www.weldlabs.com

Project: Merit Rory #1 20 A and EPA 624/SW Ethyl- Denzene O.p-Xylene m- U. U. U. U. 9.8 0.7 0.4 and sporting limit. Suma	
Project: 1020 A an Ethylbenzene U U 9.8 9.8 o.4 ected	
Foluene Ug/L U U U O.4 Tolu not deta a level befow	
10 3	
Consulting Project; Project	
2010 mmental Co 631 Date Sampled 09/03/10 09/03/10	
September 23, 2010 September 23, 2010 Mahoney Environmental Consultin Total 10th Ave. Sample 1D Date Date Date Date Analy Sample 1D Sample 1D Sample 1D O9/03/10 09/06/06 Reporting Line Laboratory No.: E10245-5 (page Analy) Sample 1D Date Date Date Date Analy Sample 1D Date Date Analy Laboratory No.: E10245-5 (page Analy) Sample 1D Date Date Date Analy Sample 1D Date Date Date Analy Sample 1D Date Date Date Analy Laborating Line Companies are truly representation of the principle of the page Analy J=Companies are truly representation of the page Analy Sample 1D Date Date Date Date Date Date Date Dat	

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Project: Merit Rory #1 Method EPA 602/SW8020 A and EPA 624/SW8015 Denzene Date Dat	Mahone) 1601 10t Greeley,	Mahoney Environmental Consulting 1601 10th Ave. Greeley, CO 80631	intal Consu	ulting							
Date numbers Benzene Lethyl- benzene Cip-Xylene m-Xylene m-Xylene m-Xylene TVPH malyzed mg/kg	Laborato	гу Мо∴	:1024	5(page 2 o ∗thod EPA	nf 3) 1 602/SW/	Project:	Merit Rory d EPA 624	#1 SW8015			
19/06/10 U U U U U U U U U U U U U U U U U U U	Sample ID	Date Sampled	Date Inalyzy	Benzene	Toluene	Ethyl- benzene	o,p-Xylene	m-Xylene	MTBE	ТУРН	Surrogate
19/06/10 U U U U U U U U U U U U U U U U U U U				ng/kg	ug/kg	na/ka	ua/ka	IIII/ka	Indian	mailea	7
19/07/10 U U U U U U U U U U U U U U U U U U U	R-PIN	09/03/10	09/06/10		n	j D	7	, ,	n n	٦	104
19/07/10 U U 115 121 109 U 39.7 19/07/10 U U U U U U U U U U U U U U U U U U U	2 2	09/03/10	09/02/10		<u> </u>	¬	-	_	7		91.5
19/07/10 U U U U U U U U U U U U U U U U U U U	K-72N	09/03/10	08/07/10	⊃	<u> </u>	115	121	109	Π	39.7	116
ng Limit: 40 40 40 40 10 Compound analyzed for but not detected Compound detected at a level below reporting limit. Surrogate = 1.2.4-Trichlorbenzene	R-P2S	09/03/10	09/07/40	⇒		'n	<u> </u>		· ⊃		103
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Compound detected at a level below reporting limit.			Compour	d analyzed for	40 r but not dete	4U ected	•	40	40	6	QC Limits: 61-15
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	/							ગામપુરાહ = 1,2,	4- i richiorbenz	æne	

Surrogate = 1,2,4-Trichlorbenzene

o insure samples

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September 23, 2010

Diesel Fuel (No. 2)

Total Extractable Hydrocarbons (Diesel C:11-C28)

Method No. SW8015M

Date Sampled:

9/3/2010

19703531671

Project: Merit Rory #1

Date Received:

9/3/2010

(page 3 of 3)

Date Prepared:

9/7/2010

	97772010					
Lab#	Sample ID	Analysis	Surr. %	Sample	DI	1.1
	- Campio IB	Date	Recov.	Result	RL	Units
E10245-5C	R-P1N	9/20/2010	117	U	16.8	mg/kg (dry wt.)
<u>E102</u> 45-5D	R-P1S	9/20/2010	92.5	Ū I	18.9	mg/kg (dry wt.)
E10245-5E	R-P2N	9/20/2010	98.3	11	20.4	mg/kg (dry wt.)
E10245-5F	R-P2S	9/21/2010	87.1	<u>ii</u>	18.7	
			<u> </u>		10.7	mg/kg (dry wt.)

Surrogate QC Limits: 46-141 (1,2,4-Trichlorobenzene Surrogate)

Qualifiers:

U=Compound analyzed for but not detected

S=Spike Recovery outside accepted recovery limits

J=Indicates an estimated value when compound is detected

Definitions:

RL=Reporting Limit

TVH=Total Volatile Hydrocarbons

TEH=Total Extractable Hydrocarbons

Sampling procedures can affect the value of analytical results - customers are advised to use appropriate sampling protocol to insure samples are truly representative of the bulk sample.