Bratcher, Mike, EMNRD

From:	Tavarez, Ike <ike.tavarez@tetratech.com></ike.tavarez@tetratech.com>
Sent:	Friday, January 20, 2012 10:05 AM
То:	Gregston, Terry G; Bratcher, Mike, EMNRD
Cc:	Pat Ellis; Joshua Russo; Grubbs, Robert
Subject:	RE: COG-Holder Federal Tank Battery-Work Plan: Request for additional information
Attachments:	COG - Revised - Holder CB Federal Tank Battery.pdf

Mike and Terry,

As requested by the BLM, I enclosed the revised work plan to include the sampling of the overspray area. Please call me if you have any questions, thanks

Ike Tavarez Tetra Tech

From: Gregston, Terry G [mailto:tgregsto@blm.gov]
Sent: Thursday, January 19, 2012 7:39 PM
To: Tavarez, Ike; Bratcher, Mike, EMNRD (mike.bratcher@state.nm.us)
Cc: Joshua Russo; Grubbs, Robert; Amos, James A
Subject: RE: COG-Holder Federal Tank Battery-Work Plan: Request for additional information

Gentlemen,

I reviewed your submitted work plan and found that no samples had been taken in the affected pasture area. Nor were there mitigation measures included for the pasture-affected area. A mixture of saltwater and oil was sprayed over the pasture area and there are areas of greater accumulation and saturation to deeper levels the closer you get to the tank facility. The pasture-impacted areas also need to be sampled and mitigation measures put forward in the submitted cleanup plan for this spill. You can resubmit a plan, or submit an addendum for the original plan.

Thank you for your attention to these concerns,

Terry Gregston

Environmental Protection Specialist Bureau of Land Management 620 E. Greene St. Carlsbad, NM 88220 Office (575) 234-5958 Cell (575) 361-2635 Fax (575) 234-5927

Confidentiality Warning: This message along with any attachments are intended only for use of the individual or entity to which it is addressed and may contain information that is privileged or confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

From: Tavarez, Ike [mailto:Ike.Tavarez@tetratech.com] Sent: Thursday, January 19, 2012 2:51 PM To: Bratcher, Mike, EMNRD (<u>mike.bratcher@state.nm.us</u>); Gregston, Terry G
Cc: Pat Ellis; Joshua Russo; Grubbs, Robert; Amos, James A
Subject: COG Operating - Holder Federal Tank Battery - Eddy Co - Approval Request

Mike and Terry,

Please review the attached work plan for the Holder CB Federal Tank Battery located in Eddy County, New Mexico. Once approved, the soil remediation will be implemented at the site. I will forward a hard copy of the report for your files. Please call me if you have any questions, thanks .

Ike Tavarez, PG | Senior Project Manager

Main: 432,682,4559 (Fax: 412,622,9846) (Cell: 412,425,5878

Ike Tavaiez@tetratech.com

Tetra Tech | Camplex Weild, Clear Solutions"

1910 North Big Spang | Violand 1X 79705 www.tetratech.com

PlicASE NOTE this message, neuding by noted ments may a sube privileges, confidential and privileges, and matter any distance and the semiconarce is ended to be presented to be presented to be presented to be presented to be and the neutropic of the sender by use of the presence is specified and may be units of the presence is each operation of the presence is specified. If you are not the interced recycles presence is specified and may be units of the presence is each operation of the presence is presence.

SITE INFORMATION

		Rep	ort Type: W	ork Plan		
General Site Info	ormation:	s tyte «s		the subury of	and the second second	
Site:		Holder CB F	ederal Paddock	TB Margaria		
Company:		COG Operat	ing LLC			
Section, Towns		Unit E 👘	Sec 17		30E	la star star
		API-30-015-2				
County: 🚟 🔬	المريد المستعين المستعد	Eddy Count	у <u>() () () () () () () () () () () () () (</u>		an the state of the second	
	Carl Contraction		32.83569° N		103.99915	<u>• W</u>
Surface Owner:	··	Federal				
Mineral Owner:						
Directions:					itoff (CR 217) and 82, tr ight and travel0.2 miles	
Release Data:	· · · · · · · · · · · · · · · · · · ·					
Date Released:		11/13/2011				<u> </u>
Type Release:		Produced Flu	uid			
Source of Contar	mination:	Heater Treat				
Fluid Released:		15 bbls				
Fluids Recovered: 11 bbls						
Official Commu	nication:	1		1999 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1		Sector Sector
Name:	Pat Ellis				avarez	
Company:	COG Operating, LL	<u>с, , , , , , , , , , , , , , , , , , , </u>	†		Tech	
Address:	550 W. Texas Ave.		<u> </u>		N. Big Spring	
P.O. Box			·			
City:	Midland Texas, 797		·	Midla	nd, Texas	
Phone number:	(432) 686-3023		<u> </u>			
			<u> </u>	(432)	682-4559	
Fax:	(432) 684-7.137					
Email:	péllis@conchoreso	urces.com		IKE.I	avarez@tetratech.com	
Ranking Criteria						
Depth to Groundv	vater:		Ranking Score	· · · · · · · · · · · · · · · · · · ·	Site Data	
<50 ft			20		······································	
50-99 ft			10			
<u>>100 ft. **</u>	<u>, aa si (i si (</u>		0	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
WellHead Protect			Ranking Score		Site Data	
	000 ft., Private <200 f		20		•	•
Water Source >1,0	000 ft., Privatè >200 f	te de la trace	<u>,</u> 0		<u> </u>	n den de la la La la
Surface Body of V	Nater:		Ranking Score		Site Data	
<200 ft.			20			
200 ft - 1,000 ft.			10			
>1,000 ft.	2 - 12		0	a construction of the second	2° 4,	

Total Ranking Score: 0

Acceptable Soil RRAL (mg/kg)							
Benzene	Total BTEX	ТРН					
10	50	5,000					



January 20, 2012

Mr. Mike Bratcher Environmental Engineer Specialist Oil Conservation Division, District 2 1301 West Grand Avenue Artesia, New Mexico 88210

Re: Revised - Work Plan for the COG Operating LLC., Holder CB Federal Paddock Tank Battery, Unit E, Section 17, Township 17 South, Range 30 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Holder CB Federal Paddock Tank Battery located in Unit E, Section 17, Township 17 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.83569°, W 103.99915°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on November 13, 2011, and released approximately fifteen (15) barrels of produced fluid from the heater treater. To alleviate the problem, COG personnel repaired the heater treater. Eleven (11) barrels of standing fluids were recovered. The majority of the spill was contained within the firewall, with the exception of some overspray that affected the pasture. Micro-blaze has been applied to the oversprayed vegetation. The area affected measures 10' X 85'. The initial C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 17. According to the NMOCD groundwater map, the depth to groundwater in this area is approximately 225' below surface. The groundwater data is enclosed in Appendix B.



Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Analytical Results

On December 21, 2011, Tetra Tech personnel inspected and sampled the spill area. Three (3) auger holes (AH-1, AH-2 and AH-3) were installed using a stainless steel hand auger to assess the impacted soils. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, none of the samples exceeded the RRAL for TPH except for (AH-2). (AH-2) showed total BTEX above the RRAL for total BTEX at 0-1' and declined at 1'-1.5'. A shallow chloride impact was encountered at the site. Auger holes (AH-2 and AH-3) showed a shallow chloride impact at 0-1' of 1,570 mg/kg and 4,750 mg/kg, respectively. The deeper samples significantly declined with depth at 1.0' below surface.

The area of AH-1 did show a deeper impact to the soils however the chloride levels declined with depth to 1,360 mg/kg at 2-2.5'. Deeper samples were not collected due to a dense caliche formation.

Work Plan

COG proposes to remove impacted material as highlighted (green) in Table 1 and shown on Figure 4. In the area of AH-1, a trench will be installed to define chloride impact. As requested by the BLM, soil samples will be collected from the overspray area to evaluate the soils in the area. The soil samples collected will be analyzed for TPH, BTEX and chlorides. Based on the results, the overspray area will be addressed to remediate the TETRA TECH

soil, if necessary. Once the areas are excavated to the appropriate depths, the excavation will be backfilled with clean soil. Upon completion, a final report will be submitted to the NMOCD.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safely concerns. As such, Tetra Tech will excavate the soils to the maximum extent practicable.

If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call me at (432) 682-4559.

> Respectfully submitted, TETRA FECH

Iké Tavàrez Project Manager

cc: Pat Ellis - COG cc: Terry Gregston - BLM .

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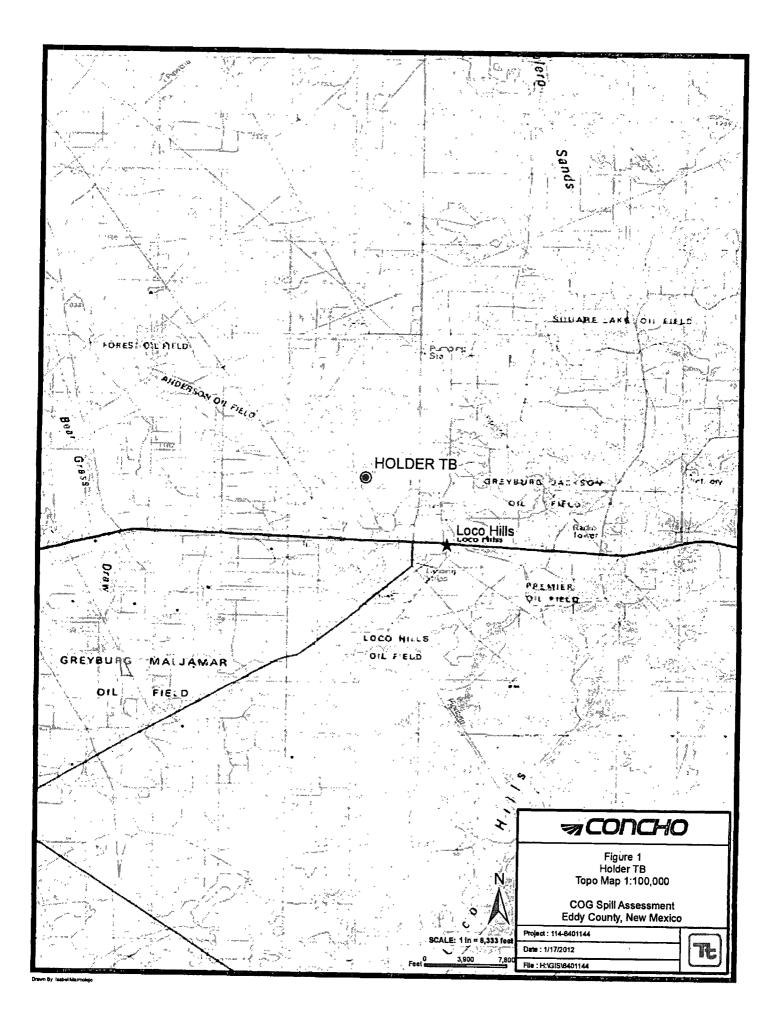
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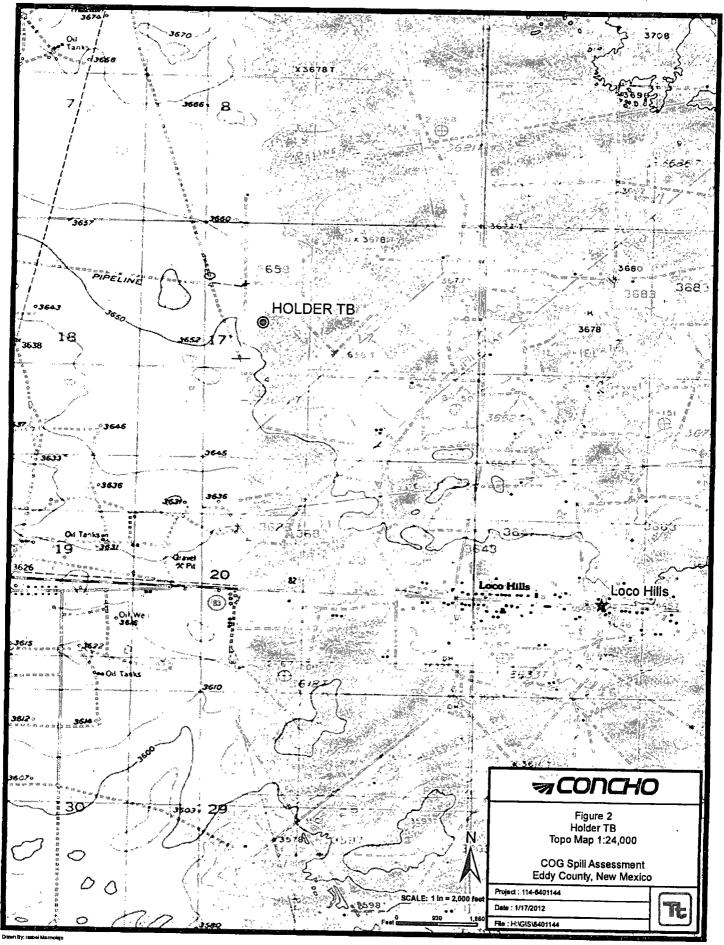
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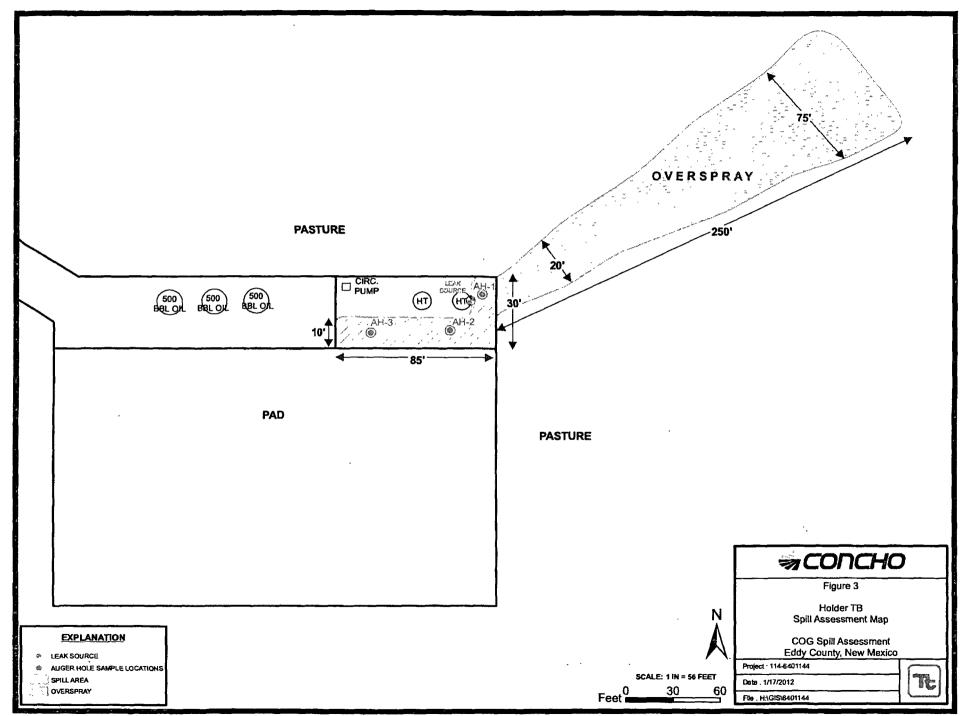
Figures

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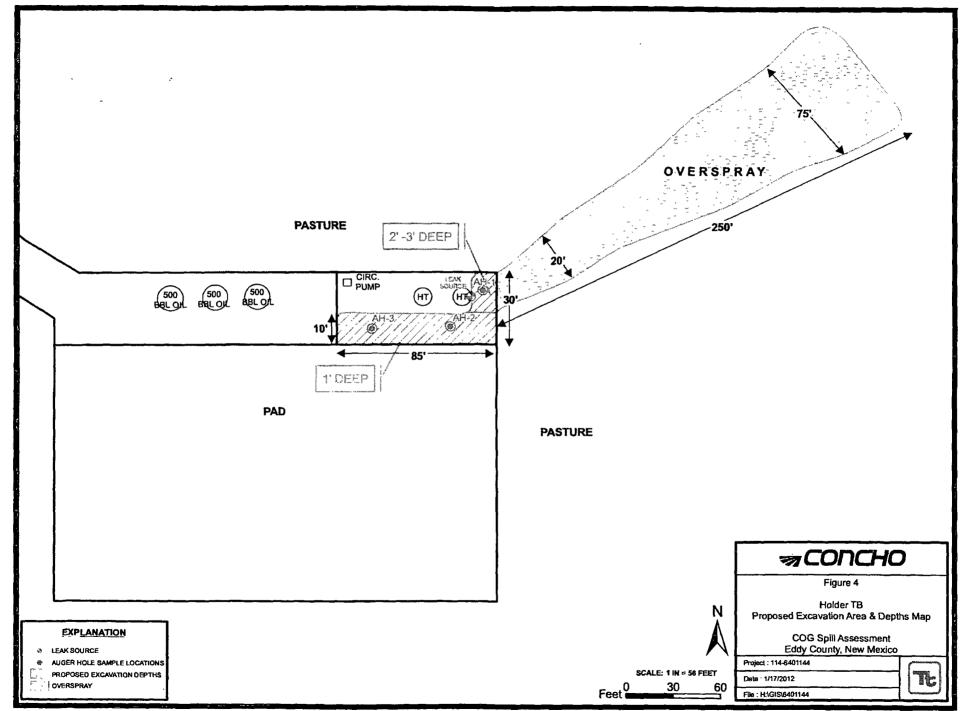
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Drawn By: Isabel Mermolojo



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Tables

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Table 1COG Operating LLCHolder CB Federal Paddock Tank BatteryEddy County, New Mexico

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Sample		ate Sample Depth-	Soil	Status	2. A.	PH (mg/k	g)	Benzene	ně Toluene	Ethiybenzene	Xylene	Total BTEX	Chloride	
iD	Sample Date	Depth (ft)	(BEB)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg) (mg	(mg/kg)
AH-1	12/21/2011	0-1	1	X		110	88.4	1.98	0.0223	0.254	1.50	2.34	4.12	8,670
	ŧ	1-1.5	1 '	X										8,860
	11	2-2.5	થીં વેપ્લું.	X				1977 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 2019 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 2019 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 -						1,360
2. 8. 1	a sa na		<u>.</u>	5 × ×	Salla and	, v,	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		15 - 15 F.				. 4. jaz. 4. 4	
AH-2	12/21/2011	૽ૼૢૺ ૻ૾ 0-1 ૢૢૢૺ૾	[1'	X		3,820	1,340	5,160	7.03	105	77.6	106	296	<u>_</u> 1,570
	11	1-1.5	· 1'	X		3.96	<50.0	3.96	<0.0200	<0.0200	<0.0200	<0.0200	<0,0200	<200
	n	2-2.5	1'	X		-	-	-	-	-	-	-	-	<200
	13	3-3.5	1'	Х		-	-	-	-	-	-	-	-	<200
	it	4-4.5	1'	X		-	-	-	-	-	-	-	-	<200
	11	5-5.5	1'	X		-		-		-	-	-	-	<200
· · · ·	* ~ ~ ~ ~ ~					t start in som			,				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
AH-3	12/21/2011	0-1	0.5'	X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	4,750
	¢	1-1.5	0.5'	Х		-	-	-	-	-	-	-	-	288
	μ	2-2.5	0.5'	Х		•	-	-		-		-	-	<200
8 2 1	· • •	· · · ·			· · · · ·	2.14 . 2.15	12 3 35.5	4	· · · · ·	the second second				

(--) Not Analyzed

Proposed Excavation Depths

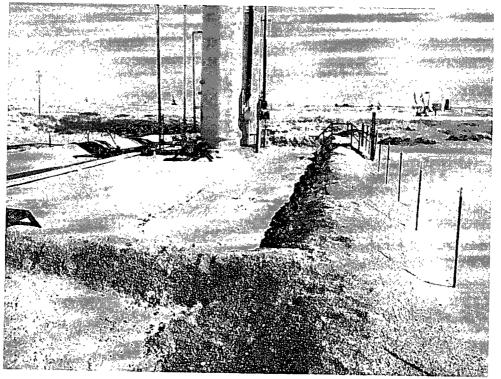
(BEB) Below Excavation Bottom

Photos

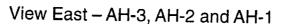
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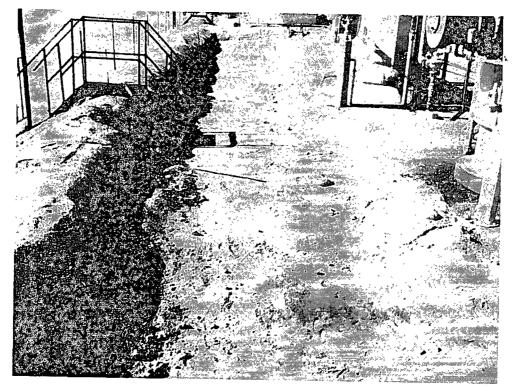
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COG Operating LLC Holder CB Federal Paddock TB Eddy County, New Mexico



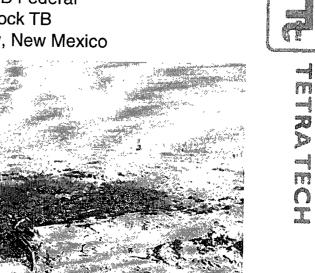
MTRATECT





View West - AH-2 and AH-3

COG Operating LLC Holder CB Federal Paddock TB Eddy County, New Mexico





View East - Overspray

Site info and picture details

Appendix A

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State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

	OPERATOR	\boxtimes	Initial Report	Final Report
Name of Company COG OPERATING LLC	Contact	Pat Ellis]
Address 550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077		
Facility Name Holder CB Federal Paddock TB	Facility Type	Tank Battery		

Curfana Ouman Fadaral	Mineral Owner	Lease No. (API#) 30-015-20708
Surface Owner Federal		

LOCATION OF RELEASE

Γ	Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	E	17	175	30E					Eddy
L									

Latitude 32 50.138 Longitude 103 59.951

NATURE OF RELEASE

Type of Release Produced fluid	Volume of Release 3bbls oil 12bbls produced water	Volume Recovered 1 bbl oil 10bbls produced water							
Source of Release Heater treater fire tube gasket	Date and Hour of Occurrence 11/13/2011	Date and Hour of Discovery 11/13/2011							
Was Immediate Notice Given?	If YES, To Whom?	ann an far far far far an seann an sea							
By Whom?	Date and Hour								
Was a Watercourse Reached?	If YES, Volume Impacting the Wi	atercourse.							
If a Watercourse was Impacted, Describe Fully.*									
Describe Cause of Problem and Remedial Action Taken.*	·								
Heater treater fire tube gasket was leaking. The heater treater was isolated and the fire tube gasket has been repaired. The heater treater has been returned to service.									
Describe Area Affected and Cleanup Action Taken.*		······································							
Initially 15bbls of produced fluid was released from the heater treater and contained inside the dike walls of the facility with the exception of some facility and micro-blaze has been applied to the over-sprayed vegetation. possible contamination from the release and we will present a remediation remediation work.	overspray due to wind gusts. All free Tetra Tech will sample the spill site	fluid has been recovered from inside the area inside the facility to delineate any							
I hereby certify that the information given above is true and complete to tregulations all operators are required to report and/or file certain release a public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	notifications and perform corrective as the NMOCD marked as "Final Report" te contamination that pose a threat to	ctions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health							
$\Omega \pi =$	OIL CONSER	VATION DIVISION							
Signature:									
Printed Name: Josh Russo	Approved by District Supervisor:								
Title: HSE Coordinator	Approval Date:	Expiration Date:							
·	Conditions of Approval:	Attached							
Date: 11/22/2011 Phone: 432-212-2399									

* Attach Additional Sheets If Necessary

Appendix B

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Water Well Data Average Depth to Groundwater (ft) COG - Holder CB Federal Paddock TB Eddy County, New Mexico

_	16 :	16 South 29 East				
6	5	4	3	2	1	
7	8	9	10	11	12	
18	17	16	15	14	13	
19 11	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

-	· 17 Se	outh	:	29 East	
6	5	4.	3	2	1
7	8	9	10	11	12
18	. 17	16	15	14	13
19	20	21	22 80	23	24
30	29 210 208'	28	27	26	25
31	32	33	34	35 153	36

_	18	South		29 Eas	t	
6	5	4	з	2	1	
7	8	9	10	11	12	
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

	16 :	South	30 East				
6	5	4	4 3 2 1		1		
7	8	9	10	11	12		
18	17	16	15	14	13		
19	20	21	22	23	24		
30	29	28	27	26	25		
31	32	33	34	35	36		

16 South 31 East Э 4.8

17 South 30 East

6	5	4	3	2	1
7	8	9	10	11	12
18		16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	18 :	South	;	30 Easi	ł
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

South	31 East

6,	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34 271	35	36

18 South 31 East

6	5	4	3	2	1
7	8'	9	10	11	12 400
18	17	16	15	14 317	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35 261	36

New Mexico State Engineers Well Reports

USGS Well Reports

Geology and Groundwater Conditions in Southern Eddy, County, NM

NMOCD - Groundwater Data

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Site Location

Appendix C

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Page Number: 1 of 3

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Work Order: 11122306

Project Location:Eddy Co., NMProject Name:COG/Holder CB Federal Paddock TBProject Number:114-6401144

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
285190	AH-1 1' BEB 0-1'	soil	2011-12-21	00:00	2011-12-22
285191	AH-1 1' BEB 1-1.5'	soil	2011-12-21	00:00	2011-12-22
285192	AH-1 1' BEB 2-2.5'	soil	2011-12-21	00:00	2011-12-22
285193	AH-2 1' BEB 0-1'	soil	2011-12-21	00:00	2011-12-22
285194	AH-2 1' BEB 1-1.5'	soil	2011-12-21	00:00	2011-12-22
285195	AH-2 1' BEB 2-2.5'	soil	2011-12-21	00:00	2011-12-22
285196	AH-2 1' BEB 3-3.5'	soil	2011-12-21	00:00	2011-12-22
285197	AH-2 1' BEB 4-4.5'	soil	2011-12-21	00:00	2011-12-22
285198	AH-2 1' BEB 5-5.5'	soil	2011-12-21	00:00	2011-12-22
285199	AH-3 0.5' BEB 0-1'	soil	2011-12-21	00:00	2011-12-22
285200	AH-3 0.5' BEB 1-1.5'	soil	2011-12-21	00:00	2011-12-22
285201	AH-3 0.5' BEB 2-2.5'	soil	2011-12-21	00:00	2011-12-22

	BTEX			TPH DRO - NEW	TPH GRO	
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
285190 - AH-1 1' BEB 0-1'	0.0223	0.254	1.50	2.34	88.4	110 Q.
285193 - AH-2 1' BEB 0-1'	7.03	105	77.6	106	1340	3820 q.
285194 - AH-2 1' BEB 1-1.5'	< 0.0200	< 0.0200	< 0.0200	<0.0200	<50.0	3.96 qr,qs
285199 - AH-3 0.5' BEB 0-1'	<0.0200	< 0.0200	< 0.0200	<0.0200	<50.0	<2.00 Qr.Q*

Sample: 285190 - AH-1 1' BEB 0-1'

Param	Flag	Result	Units	\mathbf{RL}
Chloride		8670	mg/Kg	4

Sample: 285191 - AH-1 1' BEB 1-1.5'

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: January 5, 2012		Work Order: 11122306	Page Number: 2 of 3	
Param	Flag	Result	Units	RL
Chloride		8860	mg/Kg	4
Sample: 285192 -	- AH-1 1' BEB 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		1360	mg/Kg	4
Sample: 285193 -	- AH-2 1' BEB 0-1'			
Param	Flag	Result	Units	RL
Chloride		1570	mg/Kg	4
Sample: 285194 -	· AH-2 1' BEB 1-1.5'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4
Sample: 285195 -	· AH-2 1' BEB 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4
Sample: 285196 -	· AH-2 1' BEB 3-3.5'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4
_	- AH-2 1' BEB 4-4.5'			
Param Chloride	Flag	Result <200	Units mg/Kg	RL 4
Sample: 285198 -	- AH-2 1' BEB 5-5.5'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

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Report Date: Janu	ary 5, 2012	Work Order: 11122306	F	Page Number: 3 of 3
Sample: 285199	- AH-3 0.5' BEB 0-1'			
Param	Flag	Result	Units	RL
Chloride		4750	mg/Kg	4

Sample: 285200 - AH-3 0.5' BEB 1-1.5'

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Param	Flag	Result	Units	RL
Chloride		288	mg/Kg	4

Sample: 285201 - AH-3 0.5' BEB 2-2.5'

4

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Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

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Bratcher, Mike, EMNRD

From:	Gregston, Terry G <tgregsto@blm.gov></tgregsto@blm.gov>	
Sent:	Friday, January 20, 2012 3:03 PM	
То:	Tavarez, Ike; Bratcher, Mike, EMNRD	
Cc:	Pat Ellis; Joshua Russo; Grubbs, Robert	
Subject:	RE: CB Holder Federal Tank Battery-Revised Work Plan: Approval Stipulations	

Gentlemen,

This notification is in regard to the following location and undesirable event:

Event Number: NU12047TG Event Date: 11/13/2011 Event Name: Holder CB Federal Tank Battery Legals: T17S/R30E, sec. 17, SWNW

The submitted cleanup plan for the Holder CB Tank Battery is approved with the following conditions of approval:

Notification Stipulations:

1. A copy of the cleanup plan and conditions of approval must be given to the contractor or site work personnel and be present on the location during all cleanup operations.

2. The authorized officer must be notified at the following phases of cleanup or conditions:

a. Prior to moving equipment on location for cleanup

b. When the excavation is nearing completion and a BLM inspection of the excavation or witnessing of sampling is required by the cleanup plan COA's.

- c. When the final dirt work is nearing completion and to schedule a final onsite prior to removal of equipment.
- d. Three days before the site is seeded.
- e. Any time that a variance of the approved plan or conditions of approval is required.
- f. In the event that you encounter excavation difficulties, unexpected void areas, or archeological artifacts the

Authorized Officer must be contacted immediately. An onsite may be required to assess the situation.

3. The authorized officer on this undesirable event case is:

Terry Gregston (575) 361-2635 tgregsto@blm.gov

Facility Cleanup Stipulations:

Unlined facility:

1. The BLM requires horizontal cleanup of the spill impacted areas in addition to vertical cleanup/mitigation measures. In this case, the location is still a working tank battery location. As such, excavation depths in portions of the spill area in close proximity to standing production equipment may be limited due to safety concerns. In such cases, the spill will be excavated as far as practical and safety limits to cleanup measures will be considered a temporary spill abatement measure that will be further mitigated upon the abandonment of the well/facility location. Appropriate notations to that effect will be entered in the well file.

2. Cleanup will include removal of any contaminated berm materials and/or unsuitable berm materials such as sandy soils, gravels, or cobblestones. Tank battery berms should be built of compactable caliche that is capable of fluid containment.

3. The BLM will wish to inspect the excavation once it reaches cleanup depth/width. Confirmation samples of bottoms, sidewalls and any visibly affected areas outside of the excavation trench will be required; the BLM will witness the sampling. Contact the authorized officer to schedule.

4. Lab analysis of the confirmation sampling must be forwarded to the authorized officer for final approval before backfilling. Based on the sampling results, additional cleanup may be required or the site may be approved for closure.
5. Once final approval of cleanup is given, the excavation can be backfilled with compactable caliche to the level of the original native contour plus enough loft to accommodate the settling and compaction of unconsolidated fill soils.
6. Install secondary containment berms of good quality compactable caliche around existing production equipment and the pad to prevent future spills from being released off the facility location.

Pasture Impacted Areas:

Undelineated Spill:

1. The operator will sample and present a proposal to address the pasture spill area.

Other Stipulations:

1. At the time of the final onsite for this location, the production facilities, well pad, access road, and surrounding pasture areas must be in a condition that will pass a routine inspection.

2. All household trash, debris, disconnected pipe and equipment must be removed from the area and the surrounding pasture and hauled to an authorized landfill. Do not bury cleanup trash or equipment debris in the cleanup excavation.

BLM approval of this proposal does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health, or the environment, or if the location.fails to reclaim properly. In such an event that location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws/regulations.

Terry Gregston

Environmental Protection Specialist Bureau of Land Management 620 E. Greene St. Carlsbad, NM 88220 Office (575) 234-5958 Cell (575) 361-2635 Fax (575) 234-5927

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From: Tavarez, Ike [mailto:Ike.Tavarez@tetratech.com]
Sent: Friday, January 20, 2012 10:05 AM
To: Gregston, Terry G; Bratcher, Mike, EMNRD (mike.bratcher@state.nm.us)
Cc: Pat Ellis; Joshua Russo; Grubbs, Robert
Subject: RE: COG-Holder Federal Tank Battery-Work Plan: Request for additional information

Mike and Terry,

As requested by the BLM, I enclosed the revised work plan to include the sampling of the overspray area. Please call me if you have any questions, thanks

lke Tavarez Tetra Tech From: Gregston, Terry G [mailto:tgregsto@blm.gov]
Sent: Thursday, January 19, 2012 7:39 PM
To: Tavarez, Ike; Bratcher, Mike, EMNRD (mike.bratcher@state.nm.us)
Cc: Joshua Russo; Grubbs, Robert; Amos, James A
Subject: RE: COG-Holder Federal Tank Battery-Work Plan: Request for additional information

Gentlemen,

I reviewed your submitted work plan and found that no samples had been taken in the affected pasture area. Nor were there mitigation measures included for the pasture-affected area. A mixture of saltwater and oil was sprayed over the pasture area and there are areas of greater accumulation and saturation to deeper levels the closer you get to the tank facility. The pasture-impacted areas also need to be sampled and mitigation measures put forward in the submitted cleanup plan for this spill. You can resubmit a plan, or submit an addendum for the original plan.

Thank you for your attention to these concerns,

Terry Gregston

Environmental Protection Specialist Bureau of Land Management 620 E. Greene St. Carlsbad, NM 88220 Office (575) 234-5958 Cell (575) 361-2635 Fax (575) 234-5927

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From: Tavarez, Ike [mailto:Ike.Tavarez@tetratech.com]
Sent: Thursday, January 19, 2012 2:51 PM
To: Bratcher, Mike, EMNRD (mike.bratcher@state.nm.us); Gregston, Terry G
Cc: Pat Ellis; Joshua Russo; Grubbs, Robert; Amos, James A
Subject: COG Operating - Holder Federal Tank Battery - Eddy Co - Approval Request

Mike and Terry,

Please review the attached work plan for the Holder CB Federal Tank Battery located in Eddy County, New Mexico. Once approved, the soil remediation will be implemented at the site. I will forward a hard copy of the report for your files. Please call me if you have any questions, thanks .

Ike Tavarez, PG | Senior Project Mananer

Mor. 432/382/4036 [Tax: 432/57/20840 [Oeff: 432-424-5978

Ike Tavarez@tetratech.com

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