Jimmy Cooper #4 Closure Report Duke Energy Field Services Lea County, New Mexico

NOVEMBER 12, 2001

Prepared For:

Duke Energy Field Services P. O. Box 5493 Denver, CO 80217

RP-214

Site Name:

JIMMY COOPER #4 (JC#4)

Site Location:

T20S, R36 E, SECTION 23, UNIT C



Prepared By:

ENVIRONMENTAL

PO Box 7624 Midlind, Texas 79708



November 12, 2001

Mr. Steve Weathers Duke Energy Field Services, LP P. O. Box 5493 Denver, Colorado 80217

Re: Removal of Hydrocarbon-Impacted Soils from the JC #4 site Township 20 South, Range 36 East, Section 23, Unit C

Dear Mr. Weathers:

Trident Environmental (Trident) was retained by Duke Energy Field Services, LP. (DEFS) to oversee the removal of hydrocarbon-impacted soil from an area along a pipeline right-of-way operated by DEFS near Monument, New Mexico in Lea County. The site (JC #4) is located in Section 23 (Unit C), Township 20 South, Range 36 East on property owned by/Jimmy T. Cooper. The location of the JC #4 site is shown on the topographic map in Attachment A. The work was conducted in accordance with the work plan submitted to the New Mexico Oil Conservation Division (OCD). Trident personnel periodically collected soil samples to characterize the extent of hydrocarbon-impact and to verify when cleanup target levels had been achieved. This letter report describes the methods and results of the excavation, sampling, waste disposition, and backfilling operations for documentation that closure requirements have been satisfied.

Excavation and Sampling Procedures

Allstate Services Environmental (Allstate) performed excavation. Allstate used one trackhoe, one dozer, and one loader for earthmoving services. An area was excavated where Mr. Cooper identified indications of hydrocarbon-impacted soils. During excavation operations, subsurface soil samples were collected by Trident with stainless steel trowels. Floor samples were collected as a composite sample consisting of five aliquots, unless specified otherwise (Attachment A). Composite samples consisting of a minimum of three aliquots were also collected from each wall (north, south, east, and west), unless noted otherwise. During the course of excavation activities, samples were also collected for headspace analysis using an organic vapor meter (OVM), which was calibrated to assume a benzene response factor. All soil sampling, headspace analysis, and laboratory analysis were performed in accordance with OCD "Guidelines for Remediation of Leaks, Spills, and Releases" (August 13, 1993). Excavation operations were completed when laboratory analysis of collected samples indicated the extent of hydrocarbon-impacted soils remaining in the excavation were below the following concentrations:

- 100 milligrams per kilogram (mg/kg) of total petroleum hydrocarbons (TPH),
- 10 mg/kg benzene,
- 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX)

Soil samples were submitted to Environmental Laboratory of Texas (Odessa, Texas) and analyzed for gas and diesel range organics (GRO and DRO) using EPA Method 8015 to determine TPH concentrations. BTEX analyses were conducted for soil samples that exceeded OVM readings of 100 ppm or when GRO and/or DRO concentrations were above 100 mg/kg.

Mr. Steve Weathers November 12, 2001 Page 2 of 2

Soil Stockpiling, Waste Disposition, and Backfilling

An effort to segregate clean versus impacted soil during excavation was made. Only hydrocarbonimpacted soil that exceeded 100 mg/kg GRO/DRO, 10 mg/kg benzene, and/or 50 mg/kg total BTEX was transported to the C & C Landfarm. These target cleanup levels are based on the ranking criteria in the OCD "Guidelines for Remediation of Leaks, Spills, and Releases". A total ranking score of greater than 19 points was assumed since groundwater is less than 50 feet below ground surface based on landowner's claims and well records from the Office of the State Engineer.

Approximately <u>280</u> cubic yards of hydrocarbon-impacted soils were transported by local hauling contractors (Allstate) to the C & C Landfarm, owned and operated by Mr. Jimmy T. Cooper (OCD Rule 711 Permit Approval NM-01-0016). Completed Generator Certificate of Waste Status (C-143) and Release Notification and Corrective Action (C-141) forms are included in Attachment A.

Excavated soils below the remediation action levels and as agreed upon by Mr. Cooper were returned to the excavation after sampling and analysis verification. Also, native soil from adjacent sand dunes in the area was provided by Mr. Cooper and used as additional backfill in the excavation to restore the excavation to a level grade.

Results

At the completion of excavation activities all areas had petroleum hydrocarbon concentrations below the OCD standards listed above. Soil sample locations and site features are depicted on the site map in Attachment A. A Site Data Form that includes a summary of the analytical results and photo documentation are also provided in Attachment A. Laboratory analytical reports, and chain-of-custody documentation for the samples collected are provided in Attachment B. Copies of the field logbook are in Attachment C.

Sincerely,

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Gilbert J. Van Deventer, REM Project Manager

Attachments

cc: Jimmy Cooper, landowner - Monument, NM

C:DEFS\COOPER\JC4\JC4CLOSE.DOC

ATTACHMENT A

TOPOGRAPHIC MAP SITE DATA FORM C-141 AND C-143 FORMS PHOTODOCUMENTATION



SITE DATA FORM

TRW Technician:	JMF/GJV Ex	xcavation Crew Name	s: <u>Allstate Se</u>	ervices Env	vironmen	tal Sit	te ID:	immy Cooper	<u>#4</u>	
Site Location: Latitu	ude <u>-32°-3</u>	<u>3'-43.4" N</u> Longi	tude <u>[103° 1</u>	9' <u>30.6</u> " V	V Cou	unty: <u>L</u>	ea	State: New	Mexico	
Section 23	Township _	20 South	Range <u>36</u>	East	_ Unit _	<u> </u>				
Begin Excavation (D	Date/Time) _	04/4/01	Complete I	Excavation	(Date/T	ime) <u>0</u>	4/10/01			
LAND USE:		Residential	Recreation	onal		🗖 Far	m land			
(Check all that app	(II	Industrial	□ School/I	Daycare		🔳 Rai	nge land			
	pry) 🖬 (Oil & Gas	Rural				ner:			
	Area: 🔳 🗆	> 100 feet □ 50 > 1,000 feet from a wa er Body: ■ > 1,000				n private de $\Box < 200$ fé		rater source		
SURFACE SOII		Sand Caliche	□ Gravel □ Clay			ilt)ther				
			Wic							
	EXCAVATION Length					rage Depth		Maximum Depth		
DIMENSIONS			12 - 15			feet	-	6	_ feet	
VOLUME BACKF	TILLED:	<u>280</u> yd ³				LANDFAR	<u>- M:</u>	280	yd ³	
	Lottor	<u>AN</u> Sample	ALYTICAL Sample	1	-	CRO	DBO	7		
	Letter	Identification	затріе Туре	Date	OVM (ppm)	GRO (mg/kg)	DRO (mg/kg)			
	Α	Floor (5')	Grab	4-4-01	0.01	< 10	< 10			
	В	Floor (6')	Grab	4-4-01	0.00	< 10	< 10			
	C	Floor (3')	Composite	4-9-01	0.00	< 10	< 10			
	D	N. Wall	Composite	4-9-01	0.00	< 10	< 10			
	E	S. Wall	Composite	4-9-01	0.00	< 10	< 10			
	F G	E. Wall	Composite	4-9-01	0.00	< 10	< 10	_		
		W. Wall Excavated Soil	Composite Composite	4-9-01 4-9-01	0.00	< 10 < 10	< <u>10</u> 212			
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			Scale: 1 inch =	20 feet						

Form C-141 Revised March 17, 1999

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

2040 South Pacheco, Santa Fe, NM 87505 Salita FC, NIVI 87505 side of form											
Release Notification and Corrective Action											
,	<u> </u>			OPERA	TOR		Final Report				
Name of Co		Enorm Fiel	d Samioa	e Ino	Contact (Mr. Steve Weathers)						
Address	Duke	Energy Fiel	a service	s inc.	Telephor		II. Sleve w	eauners)		
	P. O. Box	5493, Denve	ado 80217			(303) 605-	-1718				
Facility Name						Гуре					
۱ <u>ـــــ</u>		∫Site Name	: JC #4			N	atural Gas	Pipeline			
Surface Own		0	Mineral Owner				Lease N	0.			
L	Jimm	y Cooper			Unkr	IOWII	<u> </u>	<u> </u>			
·				LOCATION							
Unit Letter	Section	Township	Range	Feet from the La North/South	titude	Feet from the East/West	Longi	tude	County		
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By Whom?	. <u></u>				Date and						
		Steve We	athers	<u> </u>							
Was a Water	course Read	:hed?	Yes	No	If YES, Volume Impacting the Watercourse. N/A						
If a Watercou	rse was Im	pacted, Descr	ibe Fully.		L	······································					
N/A											
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				l corrosion of steel pipelin ver-excavation work. Rer							
Describe Are	a Affected	and Cleanup	Action Tal	ken.*				ì			
On 474701 or	er-excavati	on was initia and walls bel	ted. Excav	ation continued until 4/9/ g/kg. Final excavation dir	01. At the open signs we	completion of exc	avation activ	vities all are	eas had GRO and DRO		
of excavation	was compl	eted on 4/10/	01. Appr	ox. 280 cu yds of soil was							
photographs,	and site ma	p are attache	d.	840' e is true and complete to the	he hast of m	w knowladge ond	understand	that murm	ent to NMOCD miles		
and regulation	ns all opera	tors are requi	red to rep	ort and/or file certain rele	ase notifica	tions and perform	n corrective	actions for	releases which may		
endanger pub	lic health o	r the environ	nent. The	acceptance of a C-141 rep	port by the l	MOCD marked	as "Final Re	port" does	not relieve the operator		
water, human	health or t	he environme	nt. In add	adequately investigate an attion, NMOCD acceptance	te of a C-14	1 report does not	relieve the	operator of	responsibility for		
compliance w	ith any oth	er federal, sta	ite, or loca	l laws and/or regulations.	······				<u> </u>		
	D					OIL CON	SERVAT	ION DP	VISION		
Signature:	S/C	Un			Approved						
Printed Name	e: Step	hen Weathers	L		District S	upervisor:					
Title:	Envi	ronmental Sp	ecialist		Approval	Date:	I	Expiration I	Date:		
Date:	"/15/01		Pho	ne: (303) 605-1718	Condition	s of Approval:			Attached		
		haata If Naa				a or reprovar.					

* Attach Additional Sheets If Necessary

District I - (505) 393-6161
1625 N. French Dr
Hobbs, NM 88240
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131
2040 S. Pacheco
Santa Fe, NM 87505

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

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Submit to OCD Permitted Surface Waste Management Facility

GENERATOR CERTIFICATE OF WASTE STATUS

1. Waste Generator Name and Address:	2.Permit Number (if waste generated at an OCD permitted facility)								
Duke Energy Field Services Inc.	• • • • • • • • •								
P. O. Box 5493									
Denver, Colorado 80217									
3. Description of Waste and Generating Process:	4. Location of Waste (Street address &/or ULSTR):								
Hydrocarbon-impacted soil									
from historic pipeline leak	Sec. 23, Unit C, T20S, R36E								
5. Destination (Surface Waste Management Facility):	6. Transporter.								
C & C Landfarm, Inc. (NM-01-0012) Unit E, Sec 3, T20S, R37E	Allstate Services (subcontract haulers from Hobbs, NM)								
Box 55, Monument, NM 88265									
(505) 397-2045									
7. Estimated Volume cy/bbls									
For NON-EXEMPT waste only, the following documentation	is attached (check appropriate items):								
MSDS Information	RCRA Hazardous Waste Analysis (With Chain of Custody).								
Other (Description)									
Generator certifies that, according to the Resource Conserva Agency's July 1988 regulatory determination, the above desc	ation and Recovery Act (RCRA) and the Environmental Protection cribed waste is: (check appropriate classification)								
EXEMPT oilfield waste.	NON-EXEMPT oilfield waste that is non-hazardous								
	pursuant to 40 CFR Part 261. (Attach appropriate documentation)								
In addition, Generator certifies that nothing has been added waste does not contain Naturally Occurring Radioactive Mat	to this exempt or non-exempt non-hazardous waste and that this erial (NORM) regulated pursuant to 20 NMAC 3.1								
Subpart 1403.									
Generator Signature:	Date: 1/15/01								
Print Name: <u>Stephen W. Weathers</u>									
Title: Environmental Specialist									



JC4-830 View of flange on 6" dia. wrapped steel pipeline at west end of excavation.



JC4-828 View facing east showing excavation at completion. (Approximately 12-15 ft wide X 92 ft long by average 3 ft deep)

DIGITAL PHOTOGRAPHS OF THE JIMMY COOPER #4 SITE



JC4-829 View facing west showing excavation at completion.





View facing west showing restored location after backfilling.

ATTACHMENT B

LABORATORY ANALYTICAL REPORTS

AND

CHAIN-OF-CUSTODY DOCUMENTATION



"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: MR. GILBERT VAN DEVENTER 415 WEST WALL ST., STE. 1818 MIDLAND, TEXAS 79701 FAX: 682-0028

Sample Type: Soil Sample Condition: Intact/Iced/ 2 deg C Project #: None Given Project Name: Duke Energy Field Services/ Jimmy Cooper Site #4 Project Location: Sec 23, T20S, R36E, Unit C Sampling Date: 04/04/01 Receiving Date: 04/04/01 Analysis Date: 04/05/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	
38776 38777	JC#4-A (Floor Grab 5') JC#4-B (Floor Grab 6')	<10 <10	<10 <10	

% IA %EA BLANK

87	108
85	116
-10	<10

Methods: EPA SW 846-8015M GRO/DRO



Distribution: White, Canary-Laboratory / Pink-TRW

ENVIRONMENTAL LAB OF , Inc.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: MR. GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708-7624 FAX: 682-0028

Sample Type: Soil Sample Condition: Intact/Iced/ 1.5 deg C Project #: None Given Project Name: Jimmy Cooper #4 Project Location: Unit C, Sec 23, T20S, R36E Sampling Date: 04/09/01 Receiving Date: 04/09/01 Analysis Date: 04/09/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	
38999	C-Floor 3'	<10	<10	
39000	D-N. Wall	<10	<10	
39001	E-S. Wall	<10	<10	
39002	F-E. Wall	<10	<10	
39003	G-W. Wall	<10	<10	
39004	Exc. Soil	<10	212	
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% IA %EA BLANK 8911391107<10</td><10</td>

Methods: EPA SW 846-8015M GRO/DRO

l_dk; Tuttle

4-<u>10-01</u> Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: MR. GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708-7624 FAX: 682-0028

Sample Type: Soil Sample Condition: Intact/ Iced/ 1.5 deg. C Project #: None Given Project Name: Jimmy Cooper #4 Project Location: Unit C, Sec 23, T20S, R36E Sampling Date: 04/09/01 Receiving Date: 04/09/01 Analysis Date: 04/10/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	
39004	Exc. Soil	<0.025	<0.025	<0.025	<0.025	<0.025	

%IA	101	102	105	113	105
%EA	91	92	. 95	102	98
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: EPA SW 846-8021B ,5030

01 K

<u> ~{- //- //</u> Date

Raland K. Tuttle

Environmental Lab of Texas Inc.

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ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: MR. GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79706 FAX: 682-0028

Sample Type: Soil Sample Condition: Intact/Iced/ -1.0 deg C Project #: JC#4 Project Name: Duke Energy Field Services/ Jimmy Cooper #4 Project Location: T20S, R36E, Sec23, Unit C

Sampling Date: 04/19/01 Receiving Date: 04/19/01 Analysis Date: 04/21/01

ELT#	FIELD CODE	· · · · · · · · · · · · · · · · · · ·	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	 		
39441	Backfill		<10	<10			
			· ·				
	% IA %EA BLANK		93 107 <10	86 110 <10		-	

Methods: EPA SW 846-8015M GRO/DRO

Redadk

<u> 7-23-01</u> Date

Environmental Lab of Texas, Inc.

12600 West I-20 East Phone: 915-563-1800 Odessa, Texas 79763 Fax; 915-563-1713										CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST																		
Project Manager: Gil Van Deventer							Project Name: Ulmmy Cooper #44													<u> </u>								
company Name Trident Environmental											Pulce Enersy Field Servicer Project Name: Jimmy Cooper # 4 Project #: JC#4																	
Company Address: PO Box 7624										Project Loc: T205 R 368 Sec 23, UNHC																		
city/State/Zip: <u>Midland</u> , TX 79706 Telephone No: <u>915/682-0808</u> Fax No: <u>915/682-0025</u> Sampler Signature:								PO #:																				
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ATTACHMENT C

FIELD BOOK NOTES

414101 0600 Left Midland For Jimmy Cooper #ite #4 (JC#4) - Stopped For Field Supplies 0745 Arrive @ Project Location Objective: Get Preliminary Extent of Project Location, Collect Soil Sa-plas Oversight of Excavation Activity Equipment: PPE, Decon, Camera, Masuring Whetl, OVM, Soil Samplin, Equipment Weather: Sumy - Ptly Cloudy, Cool Temp ~ SOOF, Calm Winds Personnel: John Fergerson - TRW Billy Sullivan - Allstate Bobbix Blackwood - Allstatk Allstatk Equipment: (2) - 644 H John Peerd Loaders * Allstate Moving Other Equipment to Location JNF

A Nearest Well Coil) Location is: Chevron U.S.A. Inc Lat/Long EMSU-B # 904 Sec 23, TZOS, RBGE, Unit F - This Well is Located Approx 200 yds SW of Location 0830 Billy (Arrives @ Location He is Anticipating Arrival of Survey Crew From John West Engineering 0900 John West Engineering Survey Arrives in Area Billy Wants Survey Crew to Locate N-S Half Section Line * Left With Billy For JC#3 Sitz Observed Backfilled Location 1130 Surveying Crew Mark N-S Half Section Line - 1 of 8 Sites Identified is ON Jinnie Coopers Land (Trached) - Have Allstate Dig Trench on South Side off along Pipeline to Expore Contaminated Areds, TD 3 - Excavation Exposes 2 Areas Have Allstate Dig Down to Approx 5 in Heaviest Stained Area Of JMF



4-9-01 4-9.01 JC4L Phito 102 Objective Drive to JCHH to collect composite floor & wall View facility east at access word showing equip (2 londers, & trackhod) 15 Lovenvound ((Eff) & excount ion Samples from current excauction Visually, Excavation looks clean. (buileground) 6-12-3 F.F.E View of excavation Sacing east Sample D Time OUM -C-Floor (3') 1026 0 n View of exampling Loury west D-N. W.11 1030 0 E-5, Wall 1035 0 F-E, Wall 1070 0 1)-C View of west end of pipeline at flange 6-W.Wall 1045 0 5.5 Oillors well ~ Oil and north Exc. Soil 1050 D 60 Chevron U.S.A. In. EMSU - B # 901 Fed Unit # NM 70948B No visible our planer C Uh.# C, Sed 23, T205, R36E in any Sarples LC-046164-A D USES Sec-ma-len ~/ynile C I GGG horth 1/ S14 330 + 15 + 4 523 Access round 6 pipe Steel/Wrapped