

Jimmy Cooper #5 Closure Report Duke Energy Field Services Lea County, New Mexico

NOVEMBER 13, 2001

Prepared For:

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



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Site Location:

T20S, R36 E, SECTION 23, UNIT P

Prepared By:

ENVIRONMENT

PO Box 7624 Midland, Texas 79708

Sincerely,

Wan Dents

Gilbert J. Van Deventer, REM Project Manager

Attachments

cc: Jimmy Cooper, landowner - Monument, NM

C:DEFS\COOPER\JC5\JC5CLOSE.DOC



November 13, 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 #5 site Township 20 South, Range 36 East, Section 23, Unit P

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 #5) is located in Section 23 (Unit P), Township 20) (South, Range 36 East on property owned by Jimmy T. Cooper. The location of the JC #5 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. Grab samples were collected from the floor and each wall (north, south, east, and west) of the excavation (Attachment A). 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 not performed because soil samples did not exceeded OVM readings of 1 ppm and GRO and/or DRO concentrations were less than 10 mg/kg.

Mr. Steve Weathers November 13, 2001 Page 2 of 2

Soil Stockpiling, Waste Disposition, and Backfilling

None of the 220 cubic yards of excavated soil exceeded 100 mg/kg GRO/DRO, 10 mg/kg benzene, and/or 50 mg/kg total BTEX therefore, it was returned back into the excavation, as agreed upon by Mr. Cooper. 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.

Completed Generator Certificate of Waste Status (C-143) and Release Notification and Corrective Action (C-141) forms are included in Attachment A.

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,

an Dent

Gilbert J. Van Deventer, REM Project Manager

Attachments

cc: Jimmy Cooper, landowner - Monument, NM

C:DEFS\COOPER\JC5\JC5CLOSE.DOC

ATTACHMENT A

TOPOGRAPHIC MAP

SITE MAP

SITE DATA FORM

C-141 AND C-143 FORMS

PHOTODOCUMENTATION

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Site Data Form

		in the second								
TRW Technician:	DTL Excavation Cre	w Names: <u>Allstate</u>	Services Environment	al Site ID:	nmy Cooper #5					
Site Location: Latitude <u></u>										
Section <u>23</u> T	ownship <u>20 Sou</u>	h Range	36 East Unit	P						
Begin Excavation (Da	nte/Time) [~06/28/0]	D 11/15/01	Complete Excavatio	on (Date/Time)/0	6/28/01					
LAND USE:	ResidentialIndustrial		eational ol/Daycare	Farm landRange land						
(Check all that appl	y) ■ Oil & Gas	□ Rura	•	□ Other:						
Depth to Groundwate Wellhead Protection A Distance to Nearest S	Area: ■ > 1,000 fee	t from a water source	■ < <u>50 feet</u>	om private domestic w $\Box < 200$ feet	vater source					
SURFACE SOIL	S: ■ Sand □ Caliche	□ Grave □ Clay		Silt Other <u>Silty clay (</u>	(3'-8')					
EXCAVATION	Lengt	1	Width Ave	erage Depth	Maximum Depth					
DIMENSIONS		feet	<u>15-30</u> feet	<u>5</u> feet	<u>8</u> feet					
VOLUME EXCAV	ATED: 100 22	0 yd ³ VOI	LUME HAULED TO	LANDFARM:	yd ³					
	SUMMARY		ND DRO CONCEN	TRATIONS						
Sample Location	Sample Depth	Sample Type	OVM (ppm)	GRO (mg/kg)	DRO (mg/kg)					
F1 (South Floor)	4.5	Grab	< 1.0	< 10	< 10					
F2 (North Floor)	8	8 Grab < 1.0 < 10 < 10								
NW-1 (Wall)	4	Grab	< 1.0	< 10	< 10					
E-1 (Wall)	2	Grab	< 1.0	< 10	< 10					
W-1 (Wall)	3	Grab	< 1.0	< 10	< 10					
S-1 (Wall)	2	Grab	< 1.0	< 10	< 10					
Stockpile	N/A	Composite	< 1.0	< 10	< 10					

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

Release Notification and Corrective Action															
OPERA									al Report	Final Report					
Name of Co		En ener Eicl	d Comion				Contact (Mr. Steve Weathers)								
Address	Duke	Energy Field	a Service	s Inc.	ł <u>ews</u>		Telephor		II. SIEVE W	eathers					
		5493, Denve	er, Colora	ido 802	17				(303) 605-	1718					
Facility Nan	ne	Site Name	: JC #5				Facility		atural Gas	Pipeline/					
Surface Own	ner				Mineral	Owner				Lease N	0.				
		y Cooper					Unkı	nown							
				L	OCAT	ION ()F REL	EASE							
Unit Letter	Section	Township	Range	Feet fro North/		Lat	itude	Feet from the East/West	Longit	tude	County				
Р	23	208	36E	Li		C ^{32⁰-33}	6.5" N	Line	103° 19'	6.5" W)	Lea				
•				L											
				1	NATUI	RE OI	F RELE	ASE							
Type of Relea	ise	Conden	sate				Volume o	of Release Unknown			Recovered or release documented)				
Source of Rel	ease						Date and	Hour of Occurren	ce		nd Hour of Discovery				
Was Immedia	te Notice (Diven?	ne				Unknown Unknown If YES, To Whom?								
			Yes	No	Not Rea	quired			eeley, NMC	CD Distri	ct 1				
By Whom?		Steve We	athers				Date and	Hour							
Was a Water	course Read	ched?	Yes	No		~	If YES, Volume Impacting the Watercourse. N/A								
If a Watercou	rse was Im	pacted, Descr	ibe Fully.	*	(w)										
N/A			·····	(mi	Xie)										
Historical cor		em and Reme lease caused b		n Taken.	*	pipeline	e in subsurf	face. Removal of	impacted so	il requeste	d by landowner (Jimmy				
Cooper). Describe Are	a Affected	and Cleanup	Action Tal	ken.*		<u></u>									
On 6/28/01 o	ver-excavat	tion was initia	ated and co	ompleted							ad GRO and DRO g by 4-8 ft deep. On				
7/3/01 approx	c/220 yd ³)o	f the excavate	d soil was	returned	l to the ex	cavatior	n after it wa	as confirmed that	GRO and DI	RO concen	trations of the stockpile				
								ap are attached. w knowledge and	understand	that pursu	ant to NMOCD rules				
and regulation	ns all opera	ators are requi	ired to rep	ort and/o	r file certa	ain relea	ase notifica	tions and perform	corrective a	actions for	releases which may				
endanger public health or the environment. The acceptance of a C-141 report of liability should their operations have failed to adequately investigate and								te contamination t	hat pose a tl	hreat to gro	ound water, surface				
water, human health or the environment. In addition, NMOCD acceptance compliance with any other federal, state, or local laws and/or regulations.							e of a C-14	1 report does not	relieve the o	operator of	responsibility for				
								OIL CONS	SERVAT	ION DI	VISION				
Signature: D. A. (Approved	1 bv								
Printed Name: Stephen Weathers								supervisor:							
Title:	_	ronmental Sp					Approval	Date:	E	Expiration 1	Date:				
Date: 11	15/01		Pho	ne: (303)	605-1718	2	Condition	ns of Approval:			Attached				
Date: 1/5/01 Phone: (303) 605-1718 * Attach Additional Sheets If Necessary								in of rappioval.							

£4002/004

1,505) 393-6161	Ň	ew Mexico	Form C-143
NM 88240		Natural Resources Department	3/1 5/00
<u>Act II</u> - (505) 748-1283 , S. First		servation Division	
, etesia, NM 88210 <u>District III</u> - (505) 334-6178		South Pacheco Street	Submit to OCD
1000 Rio Brazos Road Aztec, NM 87410		, New Mexico 87505	Permitted Surface
<u>District IV</u> - (505) \$27-7131 2040 S. Pacheco	(5	505) 827-7131	Waste Management
Santa Fe, NM 87505			Facility
G	ENERATOR CERTIF	FICATE OF WASTE STATUS	
1. Waste Generator Name ar	ıd Address:	2.Permit Number (if waste genera pe	ated at an OCD rmitted 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 ac	ldress &/or ULSTR):
Hydrocarbon-impacted soil		Site Name: JC#5	
from historic pipeline leak		Sec. 23, Unit P, T20S, R36	Ε
5. Destination (Surface Wast		6. Transporter:	
C & C Landfarm, Inc. (N		Allstate Services (subcontr	
Sec 3, T20S, R3 Box 55, Monument, NM			Hobbs, NM)
(505) 397-2045	00200		
7. Estimated Volume) cy/bbls		
For NON-EXEMPT waste only	, the following documentation	a is attached (check appropriate items):	·······
MSDS Information	n	RCRA Hazardous Waste Analysis	With Chain of
Custody).	-		•
Other (Description	1)		
Generator certifies that, accor Agency's July 1988 regulatory	ding to the Resource Conserv determination, the above de	vation and Recovery Act (RCRA) and the E scribed waste is: (check appropriate classifi	nvironmental Protection cation)
<u> X </u>	MPT oilfield waste.	NON-EXEMPT oilfield wast	e that is non-hazardous
		pursuant to 40 CFR Part 26	

In addition, Generator certifies that nothing has been added to this exempt or non-exempt non-hazardous waste and that this waste does not contain Naturally Occurring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3.1 Subpart 1403.

Date: $\frac{1}{2}/2$ Generator Signature: Print Name: Stephen W. Weathers

Title: _____ Environmental Specialist

DIGITAL PHOTOGRAPHS OF THE JIMMY COOPER #5 SITE





JC5-2 View showing excavation at completion.



JC5-3 View facing north showing beginning of excavation activities.



JC5-4

View of site after restoration and backfilling.

ATTACHMENT B

LABORATORY ANALYTICAL REPORTS

AND

CHAIN-OF-CUSTODY DOCUMENTATION

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 FAX: 682-0727

Sample Type: Soil Sample Condition: Intact/ Iced/ -1.5 deg. C Project #: V-105 Project Name: Duke Energy Field Services Project Location: JC #5 Sampling Date: 06/28/01 Receiving Date: 06/28/01 Analysis Date: 06/28/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	
41524	Stockpile 1	<0.025	<0.025	<0.025	<0.025	<0.025	

QUALITY CONTROL	0.102	0.100	0.098	0.218	0.100
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% INSTRUMENT ACCURACY	102	100	98	109	100
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	<0.025	<0.025	<0.025	<0.025
SPIKE	0.098	0.098	0.096	0.215	0.101
SPIKE DUP	0.098	0.098	0.096	0.215	0.101
% EXTRACTION ACCURACY	98	98	96	108	101
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	0	0	0	0	Q

METHODS: EPA SW 846-8021B ,5030

la de for

Raland K. Tuttle

6-29-01

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 FAX: 689-4578

Sample Type: Soil Sample Condition: Intact/ Iced/ -1.5 deg C Project #: V-105 Project Name: Duke Energy Field Services Project Location: JC #5 Sampling Date: 06/28/01 Receiving Date: 06/28/01 Analysis Date: 06/28/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	
41518	F1 (South Floor)	<10	<10	
41519	F2 (North Floor)	<10	<10	
41520	NW-1 (Wali 4.0')	<10	<10	· .
41521	E-1 (Wall 2.0')	<10	<10	
41522	W-1 (Wall 3.0')	<10	<10	
41523	S-1 (Wall 2.0')	<10	<10	
41524	Stockpile 1	<10	<10	

QUALITY CONTROL	478	537
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	96	107
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	<10
SPIKE	509	543
SPIKE DUP	518	524
% EXTRACTION ACCURACY	107	114
BLANK	<10	<10
RPD	2	4

Methods: EPA SW 846-8015M GRO/DRO

Tuttle

6-29-01 Date



Trident Environmental P.O. Box 7624 Midland, Texas 79708 (915) 528-3878 (915) 689-4578 (Fax)

Rush

V-105-JC5-A Chain of Custody

Date 6-28-01 Page 1 of 1

Duke Energy Field Services, Attention: Steve Weathers (Signature) (Signature) (Signature) (Signature)														A	naly	sis R	equ	est							
Telephone: (15) 563-1800 <td></td> <td>1</td> <td>Į</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											1	Į							1						
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Project Information Sample Receipt Relinquished By: (1) (Company) Relinquished By: (2) (Company) Relinquished By: (3) (Company) Relinquished By:	F1 (south floor)	soil	6/28	1040																4	۱	5	1	8	1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	F2 (North Sloor)	IX.	IX.	1045	G									V	イ					4	١	5	5	9	1
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Stock pile 1 III20 III20 <thiii20< th=""> III20 <thiii20< th=""></thiii20<></thiii20<>	W-1 (Wall 3.0')	11	1	1100	6									く	\checkmark					J	1	S	2	2	1
Stockpile 1 In XO C In XO	5-1 (wall 2.0')	11	11	1105	6									V	<					4	l	5	2	3	1
Project Mame: Duke Energy Field Services Total Containers: Trident Environmental Project Name: Duke Energy Field Services Total Containers: Trident Environmental Project Location: JC#5 COC Seals: (Printed Name) (Printed Name) Project Manager: Gil Van Deventer Rec'd Good Cond/Cold: 1/.5 (Signature) (Signature) Cost Center No.: V-105 Conforms to Records: C (Date) (Time) (Date) (Time) Shipping ID No.: Hand Delivered to Lab Lab No.: Received By: (1) (Company) (3) (Company) (3) (Company) Bill to (see below): Special Instructions/Comments: Please send invoice direct to client: (Printed Name) (Printed Name) (Printed Name) Duke Energy Field Services, Attention: Steve Weathers (Signature) (Signature) (Signature) (Signature) (Signature) (Signature) (Signature) (Signature) (Signature)	Stockpile 1	1	15	1120	C	~		_						Ý	V					4	(S	2	4	1
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Duke Energy Field Services, Attention: Steve Weathers (Signature) (Signature) (Signature)					nt:	(Printed	I Name)					·	(Printed	Name))					(Printed	d Name	<i>)</i>		. <u></u>	
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P. O. Box 5493, Denver, Colorado 80217 $(2ac)$ $(7ime)$ $(7ime)$ $(7ime)$ $(7ime)$ $(1me)$ $(1me)$ $(1me)$ $(1me)$ $(1me)$ $(1me)$ $(1me)$						(Date)	0-7	Bret		ime)			(Date)			π	me)			(Date)			. (Time)	

ATTACHMENT C

FIELD BOOK NOTES

Jimmy Cooper No. 5 Activity Summary

The only area of visibly stained soil was located approximately 15 to 20 feet west (and slightly up hill) from the western (inactive) pipeline (See Photo 1). No stained soil was observed in the area between the pipelines (see Photos 2 and 3).

Prior to excavating the stained area the area between the pipelines was scraped (approximately 1 foot deep) in an effort to identify impacted soil that may have been covered by blow sand. No discolored soil was observed in this area.

The initial excavation began at 9:30 AM (CST) and extended to a depth of approximately 4 feet. A discarded flow line was found on the north end of the excavation. This was also the area of the deepest soil discoloration. The lithology can be summarized as follows:

Surface to 3 feet – Sand, brown, fine-grained (dune material) 3 feet to 6 feet – Silty Clay, reddish brown, hard

A caliche layer was observed at the deepest area of the excavation (north side) at approximately 6 to 8 feet (due to irregular surface topography).

Several "clods" of discolored soil was observed in the shallow soil. It was assumed that the clods were formed by contact with hydrocarbons, however PID reading of samples taken from the clod indicated no volatiles were present (see Photo 4 and 5).

All of the visibly stained soil was removed by 10:30 AM (CST). The southern end of the excavation was approximately 4 to 4.5 feet deep (approximately 150 cubic yards) and the northern end (below the flow line) was approximately 7 to 8 feet deep (approximately 70 cubic yards). The pit was mapped and field screened with a PID to identify areas of maximum hydrocarbon impact, however no readings were observed greater than 0.5 ppm. Grab samples were taken from each wall and two samples were taken from the floor. A composite sample was also taken from the removed (stockpiled) soil. The samples were taken to Environmental Labs of Texas for analysis of GRC and DRO (and BTEX for the stockpile sample).

Photo 6 and 7 is a view of the completed excavation as of June 28, 2001. The laboratory results (verbal) support the PID readings. All of the samples were below the detection limit (including the stockpile). It is my opinion that the release was associated with the flow line (extremely weathered crude oil) and not condensate from the pipeline. Please call me if you have any further questions.

Thanks,

Dale Littlejohn (915) 528-3878



3 JLS 6/28/01 DTZ	DTL 6/28/01 (3)
1030 completed removal of visible	Equipment Sammary Allstate
Stained Soil Screen Excavertion	CAT 325 BL Track hoe
Floor & Wall W/PID (approve. 30 locations) No Valuer	Billy + Operator + 2 hauss (Druers No soil or caliche wase hacked in
greater than 0-5 ppm.	Truck (93 mi one-way) = 212 both
- Completed map of excavation	Camera (DTL)
- Recovered grab samples at locations w/ highest DID	GPS (DTL) Wheel Triant
readings	PPE Triàcut
Sample Depth PID Reading	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1300 - Leave JC-6 Site
NW-1 4.0 (1.0	at Noon \$7/2/01
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Travel to Lab. (Lunch 1400-1430)
5-1 2.0 < 1.0	Qo by Ev. Labs of TX
Stockpile comp <1.0	* Note HC velegee may have occurred from a flow (wo + associated with
1200 Completed Sampling, preparities	the NG pipeline) an oil Slow line
to I caue location Travel to JC-6 Site	was Sound on the worth end of the exception
	1600 Arrise @ Midland