

Field Services

May 17, 2004

Mr. Larry Johnson Oil Conservation Division 1625 N. French Dr. Hobbs, NM 88240

RE: O-5 Pipeline Leak

Dear Mr. Johnson;

Attached to this letter is the final C-141 and request for closure ("no further action" requested) for a leak that was discovered on September 19, 2003. The leak was discovered by DEFS and an initial C-141 was prepared and submitted by Mr. John Good of Environmental Plus, Inc. (EPI).

EPI did not initiate delineation activities on the location which led Mr. Ronnie Gilchrest, Field Supervisor, DEFS, to report the leak a second time to the Regional Environmental Coordinator, Lynn Ward, who then made a second notification to the OCD and filed a second initial C-141. Therefore, two initial C-141 forms were submitted for the same release site and two discovery dates have been provided. For the sake of clarification, the release was discovered on September 19, 2003. You may remember a few email correspondences about this subject.

Since EPI did not initiate delineation activities, Gandy Corp. was contacted to perform the delineation. Gandy Corp excavated the location (Site 1), sampled the sides and bottom for TPH, BTEX, and Chlorides. During the activities, an additional six (6) leaks were found (Sites 2, 3, 4, 5, 6, and 7) on the O-5 Pipeline. Each site was also excavated and sampled.

The attached Final C-141 includes the documentation of the final soil levels, the estimated depth to groundwater, a ranking total (Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993), and remedial goals. The impacted soils were removed and disposed as RCRA exempt waste at Artesia Aeriation. Each excavation was backfilled and contoured. The O-5 pipeline has been replaced in order to avoid future releases.

If you have questions about the release, remediation activities, or analytical results, please contact me at 432/620-4207 or email <u>lcward@duke-energy.com</u>. Otherwise, DEFS respectfully requests "no further action required" for each release site: Site 1, 2, 3, 4, 5, 6, and 7.

Sincerely, Duke Energy Field Services, LP

Sr. Environmental Specialist Western Division

Cc: R. Gilchrest File 2.1.1.1

Duke = 229153 Jacilety = FPAC0602046884 Doped = ePAC0602047047 neident = nPAC0602047101 neident = nPAC0602047101



Hobbs

OCD

57897077

3300 North A Street Building 7 Midland, TX 70705

DUKE ENERGY FIELD SERVICES

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

<b>Release Notification and</b>	Corrective	Action
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OPERATOR		Initial Report	K Final Report
Name of Company	Contact		
DUKE ENERGY FIELD SERVICES, LP	LYNN WARD		
Address	Telephone No.		
10 DESTA DR., SUITE 400-W, MIDLAND, TX 79705	432/620-4207		
Facility Name	Facility Type		
O-5 PIPELINE	NATURAL GAS PIPELINE		

#### Surface Owner PEARCE RANCH

Mineral Owner

Lease No.

#### LOCATION OF RELEASE

Unit Letter	Section 16	Township 17S	Range 34E	Feet from the	North/South Line	Feet from the	East/West Line	County BLEA COUNTY
	21							

#### NATURE OF RELEASE

Type of Release				Volume of Release	Volume Recovered
CRUDE OIL				7 BBLS	4 BBLS
Source of Release				Date and Hour of Occurrence	Date and Hour of Discovery
PIPELINE				2/18/04 @ 1:45 pm MST*	2/18/04 @ 1:45 pm MST
				9/19/03 @ 10:20 am MST	
Was Immediate Notice Given?				If YES, To Whom?	
	XYes	No	Not Required	LARRY JOHNSON, VOICE MAIL N	IESSAGE
By Whom? DLYNN WARD				Date and Hour 2/18/04 @ 4:30 pm M	1ST.
Was a Watercourse Reached?		~		If YES, Volume Impacting the Water	course.
۰. ۱	Yes	No			
If a Watercourse was Impacted, De	escribe Fully	* NA			

Describe Cause of Problem and Remedial Action Taken.\*

INITIAL REPORT: The O-5 pipeline is a 6" low pressure pipeline, operated by Duke Energy Field Services, LP (DEFS). At approx. 1:45 pm MST, a leak on the line in Section 16, T17S, R34E was discovered. The leak was caused by internal/external corrosion. Operations immediately clamped the line and will replace the line in 2004. The impacted soils are to be excavated and disposed at Artesia Aeriation near Maljamar, NM by Gandy, Inc. It is DEFS's intent to collect one (1) to two (2) composit samples from the bottom of the excavation. If the excavation is greater than 1 foot in depth, a composite sample from each sidewall will also be collected. According to the New Mexico Office of the State Engineer (NMOSE), there are no water wells in Section 16. The closest water well is indicated to be in Section 21 and greater than 1000 horizontal feet. The depth to groundwater in Section 21 is greater than 100 feet below ground surface (bgs). Based on water data, the RRALs are 5,000 ppm TPH, 10 ppm Benzene, and 50 ppm BTEX.

FINAL REPORT: While excavating and removing the impacted soils from the leak site, an additional six (6) leaks were identified on the same O-5 pipeline. All five (5) leaks were clamped and the soils excavated and disposed at Artesia Aeriation. The quantity of the releases from each site is unknown. The dimensions of each site is as follows:

Site 1: 45' x 30' x 5' (Section 16, T17S, R34E)

Site 2: 40' x 20' x 5' (Section 21, T17S, R34E)

Site 3: 25' x 50' x 5' (Section 21, T17S, R34E)

Site 4: 55' x 30' x 2 to 4' increasing to 7' and then 12' beneath release point (Section 21, T17S, R34E)

Site 5: 100' x 15'x 3 to 4' on the edges and increasing to 6 to 7' in the central bottom area (Section 21, T17S, R34E)

Site 6: 25' x 65' x 5' (Section 21, T17S, R34E)

Site 7: 70' x 45' x 4 to 5' in bottom (Section 21, T17S, R34E)

Based on the NMOSE database available on the internet, the depth to groundwater beneath the release location is approximately 118 feet below ground surface. The printout from the database is attached. The site ranking for each site is also attached and identifies the RRALs.

Samples were collected from each sidewall and the excavation bottom (analytical attached) and analyzed for Total Petroleum Hydrocarbons, Benzene, Toluene, Ethylbenzene, and Xylene (BTEX). One sample from the bottom was also analyzed for Chlorides. All analytical revealed levels below the RRALs and are summarized in the attached.

The O-5 pipeline leaks were the result of internal corrosion. The line has been replaced by field operations in order to prevent future releases.

Describe Area Affected and Cleanup Action Taken.\* Please see the above description and the attached summary tables. Following receipt of analytical data, clean caliche fill was purchased from the landowner and the excavations were backfilled, compacted and contoured. This final C-141 documents successful implementation of achieving the RRALs at all seven sites. DEFS respectfully requests that the NMOCD require "no further action" at the sites.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature	" Imn War	ĺ	OIL CONSERV	ATION DIVISION
Printed N	lame: Lynn Ward		Approved by District Supervisor	<u>.</u>
Title:	Environmental Specialist		Approval Date:	Expiration Date:
Date:	5/14/04	Phone: 432/620-4207	Conditions of Approval:	Attached

• Attach Additional Sheets If Necessary

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#### SUMMARY OF SITE 1 RELEASE

Site	Total TPH	Benzene	Total BTEX	Chlorides
Identification	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Site 1	821	< 0.005	BDL	48
Site 1	2240	< 0.005	BDL	48
Site 1	1660	< 0.005	BDL	48
Site 1	3922.9	< 0.005	BDL	48
Site 1	2470	< 0.005	BDL	64

*Note: BDL* = *below detection limit* 

#### Ranking Score:

Depth to groundwater:	>100 feet bgs	0 points
Distance to water source:	>200 feet	0 points
Distance to surface water:	>1000 feet	0 points

#### Remedial Goals:

TPH:	5000 ppm
BTEX:	50 ppm
Benzene:	10 ppm
Chlorides:	250 ppm

#### **SUMMARY OF SITE 2 RELEASE**

Site	Total TPH	Benzene	Total BTEX	Chlorides
Identification	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Site 2	284	< 0.005	BDL	32
Site 2	703	< 0.005	BDL	48
Site 2	434	<0.005	BDL	48
Site 2	425	<0.005	BDL	64
Site 2	905	<0.005	BDL	48

*Note: BDL* = *below detection limit* 

# Ranking Score:

Depth to groundwater:	>100 feet bgs	0 points
Distance to water source:	>200 feet	0 points
Distance to surface water:	>1000 feet	0 points

#### Remedial Goals:

TPH:	5000 ppm
BTEX:	50 ppm
Benzene:	10 ppm
Chlorides:	250 ppm

#### **SUMMARY OF SITE 3 RELEASE**

Site	Total TPH	Benzene	Total BTEX	Chlorides
Identification	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Site 3	57.2	<0.005	BDL	48
Site 3	113	< 0.005	BDL	32
Site 3	221	< 0.005	BDL	32
Site 3	458	<0.005	BDL	80
Site 3	75.4	<0.005	BDL	48

Note: BDL = below detection limit

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0 points 0 points 0 points

0 points 0 points 0 points

Depth to groundwater:	>100 feet bgs
Distance to water source:	>200 feet
Distance to surface water:	>1000 feet

Remedial Goals:

5000 ppm
50 ppm
10 ppm
250 ppm

## **SUMMARY OF SITE 4 RELEASE**

Site	Total TPH	Benzene	Total BTEX	Chlorides
Identification	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Site 4	<10	< 0.005	BDL	48
Site 4	<10	< 0.005	BDL	64
Site 4	<10	< 0.005	BDL	32
Site 4	<10	< 0.005	BDL	64
Site 4	<10	< 0.005	BDL	32

Note: BDL = below detection limit

#### Ranking Score:

Depth to groundwater:	>100 feet bgs
Distance to water source:	>200 feet
Distance to surface water:	>1000 feet

#### Remedial Goals:

TPH:	5000 ppm
BTEX:	50 ppm
Benzene:	10 ppm
Chlorides:	250 ppm

#### **SUMMARY OF SITE 5 RELEASE**

Site	Total TPH	Benzene	Total BTEX	Chlorides
Identification	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Site 5	<10	< 0.005	BDL	48
Site 5	<10	< 0.005	BDL	48
Site 5	<10	< 0.005	BDL	48
Site 5	<10	< 0.005	BDL	48
Site 5	<10	<0.005	BDL	32

*Note: BDL* = *below detection limit* 

#### Ranking Score:

Depth to groundwater:	>100 feet bgs	0 points
Distance to water source:	>200 feet	0 points
Distance to surface water:	>1000 feet	0 points

#### Remedial Goals:

TPH:	5000 ppm
BTEX:	50 ppm
Benzene:	10 ppm
Chlorides:	250 ppm

### SUMMARY OF SITE 6 RELEASE

Site	Total TPH	Benzene	Total BTEX	Chlorides
Identification	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Site 6	36.8	< 0.005	BDL	48
Site 6	99.3	< 0.005	BDL	48
Site 6	16.4	< 0.005	BDL	32
Site 6	247	< 0.005	BDL	32
Site 6	17.8	< 0.005	BDL	48

*Note: BDL* = *below detection limit* 

#### Ranking Score:

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Depth to groundwater:	>100 feet bgs	0 points
Distance to water source:	>200 feet	0 points
Distance to surface water:	>1000 feet	0 points

# Remedial Goals:

TPH:	5000 ppm
BTEX:	50 ppm
Benzene:	10 ppm
Chlorides:	250 ppm

#### SUMMARY OF SITE 7 RELEASE

Site	Total TPH	Benzene	Total BTEX	Chlorides
Identification	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Site 7	1303.2	< 0.005	0.255	32
Site 7	1030	< 0.005	BDL	32
Site 7	652	< 0.005	BDL	48
Site 7	777	< 0.005	BDL	48
Site 7	1586.5	< 0.005	0.147	32

*Note: BDL* = *below detection limit* 

## Ranking Score:

Depth to groundwater:	>100 feet bgs
Distance to water source:	>200 feet
Distance to surface water:	>1000 feet

0 points 0 points 0 points

#### Remedial Goals:

5000 ppm
50 ppm
10 ppm
250 ppm

FAX NO. : 505 396 6887 1



PHONE (325) 079-7001 + 2111 BEECHWOOD + ABILENE, TX 79803

PHONE (808) 283-2520 - 101 E. NARLAND - HOUBS, NM 88240

ANALYTICAL RESULTS FOR GANDY CORP. ATTN: JON GANDY WEST STAR RTE. LOVINGTON, NM 88260 FAX TO: (505) 396-6887

Receiving Date: 03/19/04 Reporting Date: 03/22/04 Project Owner: DUKE Project Name: O5 LINE-PIPELINE CLEANUP Project Location: BUCKEYE, NM

Sampling Date: NOT GIVEN Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

·		GRO	DRO			ETHYL	TOTAL
LAB NO.	SAMPLE ID	(C5-C10)	(>C10-C20)	BENZENE	TOLUENE	BENZENE	XYLENES
	•	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS	DATE:	03/19/04	03/19/04	03/19/04	03/19/04	03/19/04	03/19/04
H8542-1	#1 3-18 10.30	<10.0	821	<0.006	<0.005	<0.006	<0.015
H8542-2	#1 3-18 10:30	<10.0	2240	<0.005	<0.005	<0.005	<0.015
H8542-3	#1 3-18 10:30	<10.0	1660	<0.005	<0.005	<0.005	₹0.015
H8542-4	#1 3-18 10:30	12.9	3910	<0.005	<0.005	<0.005	<0.015
H8542-5	#1 3-18 10:30	<10.0	2470	<0.005	<0.005	<0.005	<0.015
1-18542-6	#2 3-18 10:15	<10.0	284	<0.005	<0.005	<0.005	<0.015
H8542-7	#2 3-18 10:15	<10.0	703	<0.005	< 0.005	<0.005	₹0.015
H8542-8	#2 3-18 10:15	₹10.0	434	<0.005	<0.005	₹0.005	<0.015
H8542-9	#2 3-18 10:15	<10.0	425	<0.005	<0.005	<0.005	<0.015
H8542-10	#2 3-18 10:16	<10.0	905	<0.005	<0.005	<0.005	<0.015
H8542-11	#3 3-18-04 10:00AM	<10.0	57.2	<0.005	<0.005	<0.005	< 0.015
H8542-12	#3 3-18-04 10:00AM	<10.0	113	<0.005	<0.005	<0.005	<0.015
H8542-13	#9 3-18-04 10:00AM	<10.0	221	<0.005	<0.005	<0.005	<0.015
H8542-14	#3 3-18-04 10:00AM	<10.0	458	<0.005	<0.005	<0.005	<b>&lt;0.015</b>
H8542-15	#3 3-18-04 10:00AM	<10.0	75.4	<0.005	<0.005	<0.005	<0.015
H8542-18	#7 3-18-04 12:30PM	43.2	1260	<0.005	0.010	0.032	0.213
H8542-17	#7 3-18-04 12:30PM	<10.0	1030	<0.006	<0.005	<0.005	0.044
H8542-18	#7 3-18-04 12:30PM	<10.0	652	<0.005	<0.005	<0.005	<0.015
H8542-19	#7 3-18-04 12:30PM	₹10,0	777	<0.006	<0.005	<0.005	<0.015
H8542-20	#7 3-18-04 12:30PM	18.5	1570	<0.005	<0.006	0.015	0.132
	·····						
Quality Co	ntrol	845	801	0.090	0.096	0.095	0.285
True Value	QC	800	800	0.100	0.100	0.100	0.300
% Recove	ſy	108	100	90.3	95.1	94.7	94.9
Relative P	ercent Difference	4.8	12.2	0.7	2.5	4.9	4.9

METHODS: TPH GRO & DRO - EPA SW-848 8015 M; BTEX - SW-845 8260.

Butte H8542.XLS

PLEASE NOTE: Listeling and Damages. Cardinal's listility and channe security remoty for bny clean griend, whither guide in contract or tort, shall be (initial to the sincunt paid by cleant for shall/secure All debys, including those for negligance and sity offer cluans shallower shall be avaided in contract or tort, shall be (initial to the sincunt paid by cleant for shall/secure services. In no event shall candinal be lands for incidental or consequencies downed welved unless made in writing and measured by Bardbast which thin thin thin the prior deby and the subscience and/secure that candinal be lands for incidential or consequencies developed, inclusive, where it initiation, business in the major of the subscience or state of profile insured by ellent, its subscience, all before the subscience of the prior developed and and the subscience of the subscience. And the secure of the subscience or the subscience or the subscience of the subscience or the subscience of the prior state of the prior and the subscience of the subscience.



PHONE (325) 873-7001 + 2111 BEECHWOOD + ABILENE, TX 79603

PHONE (505) 393-2326 + 101 E. MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR GANDY CORP. ATTN: JON GANDY WEST STAR RTE. LOVINGTON, NM 88260 FAX TO: (505) 396-6887

Receiving Date: 03/17/04 Reporting Date: 03/18/04 Project Number: NOT GIVEN Project Name: PIPELINE CLEANUP Project Location: NOT GIVEN Sampling Date: NOT GIVEN Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: BC

		GRO	DRO			ETHYL	TOTAL
LAB NUMBE	ER SAMPLE ID	(C6-C10)	(>C <sub>10</sub> -C <sub>28</sub> )	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/Kg)	(mg/Kg)	( <b>mg</b> /Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS	DATE:	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04	03/17/04
H8533-1	#4 @ 3:20 PM	<10.0	<10.0	< 0.005	<0.005	< 0.005	< 0.015
H8533-2	#4 @ 3:20 PM	<10.0	<10.0	<0.005	< 0.005	< 0.005	<0.015
H8533-3	#4 @ 3:20 PM	<10.0	<10.0	<0.005	< 0.005	< 0.005	<0.015
H8533-4	#4 @ 3:20 PM	<10.0	<10.0	<0.005	< 0.005	< 0.005	<0.015
H8533-5	#4 @ 3:20 PM	<10.0	<10.0	< 0.005	<0.005	<0.005	<0.015
H8533-6	#5 @ 3:10 PM	<10.0	<10.0	<0.005	<0.005	<0.005	< 0.015
H8533-7	#5 @ 3:10 PM	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H8533-8	#5 @ 3:10 PM	<10.0	<10.0	<0.005	< 0.005	< 0.005	<0.015
H8533-9	#5@3:10 PM	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H8533-10	#5 @ 3:10 PM	<10.0	<10.0	< 0.005	<0.005	<0.005	<0.015
H8533-11	#6 @ 3:00 PM	<10.0	36.8	<0.005	<0.005	<0.005	<0.015
H8533-12	#6 @ 3:00 PM	<10.0	99.3	<0.005	<0.005	<0.005	<0.015
H8533-13	#6 @ 3:00 PM	<10.0	16.4	< 0.005	<0.005	<0.005	<0.015
H8533-14	#6 @ 3:10 PM	<10.0	247	<0.005	<0.005	<0.005	<0.015
H8533-15	#6 @ 3:10 PM	<10.0	17.8	<0.005	<0.005	<0.005	<0.015
Quality Cont	rol	843	835	0.090	0.099	0.096	0.291
True Value C		800	800	0.100	0.100	0.100	0.300
% Recovery		105	104	90.2	98.6	95.7	97.1
Relative Per	cent Difference	1.1	5.6	2.8	5.4	0.8	0.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

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H8533.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive ramedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in whiting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lipble for incidental or consequential damages, including, without limitation, business interruptions, tose of use, or less of prefits incurred by client, it's subsidiaries, affiliates or successors arising out of or related to the performance of services harmundar hy Cardinal, ingardiace of whether such claim is baced upon any of the above stated reasons or otherwise.



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 + 101 E. MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR GANDY CORP. ATTN: JON GANDY WEST STAR ROUTE LOVINGTON, NM 88260 FAX TO: (505) 396-6887

Receiving Date: 03/19/04 Reporting Date: 04/09/04 Project Number: NOT GIVEN Project Name: 05 LINE-PIPELINE CLEANUP Project Location: BUCKEYE Analysis Date: 04/09/04 Sampling Date: NOT GIVEN Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: AH

LAB NUMBER

Cl<sup>-</sup> (ma/Ka)

H8542-1	#1 3-18 10:30	48
H8542-2	#1 3-18 10:30	48
H8542-3	#1 3-18 10:30	48
H8542-4	#1 3-18 10:30	48
H8542-5	#1 3-18 10:30	64
H8542-6	#2 3-18 10:15	32
H8542-7	#2 3-18 10:15	48
H8542-8	#2 3-18 10:15	48
H8542-9	#2 3-18 10:15	64
H8542-10	#2 3-18 10:15	48
Quality Control		1010
True Value QC		1000
% Recovery		101
Relative Percen	3.0	

SAMPLE ID

METHOD: Standard Methods 4500-CIB Note: Analyses performed on 1:4 w:v aqueous extracts.

PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising, whether based in contract or bot, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived untess made in writing and received by Cardinat within thirty (30) days after completion of the applicable canned Domastern enay Cardinat be liable to incidental or consequential damages, including, without limitation, business interruptions, bas of lise. or loss of posts thermat by client, its abiditions, sillilates or auccessors arking out of or related to the period services hereunder by Cardinat, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603 PHONE (505) 393-2326 · 101 E. MARLAND · HOBBS, NM 88240

ANALYTICAL RESULTS FOR GANDY CORP. ATTN: JON GANDY WEST STAR ROUTE LOVINGTON, NM 88260 FAX TO: (505) 396-6887

Receiving Date: 03/19/04 Reporting Date: 04/09/04 Project Number: NOT GIVEN Project Name: 05 LINE-PIPELINE CLEANUP Project Location: BUCKEYE

Analysis Date: 04/09/04 Sampling Date: NOT GIVEN Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: AH

LAB	NUMBER
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CI

(mg/kg)	
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H8542-11	#3 3-18 10:00	48
H8542-12	#3 3-18 10:00	32
H8542-13	#3 3-18 10:00	32
H8542-14	#3 3-18 10:00	80
H8542-15	#3 3-18 10:00	48
H8542-16	#7 3-18 12:30	32
H8542-17	#7 3-18 12:30	32
H8542-18	#7 3-18 12:30	48
H8542-19	#7 3-18 12:30	48
H8542-20	#7 3-18 12:30	32
Quality Control	······································	1010
True Value QC		1000
% Recovery		101
Relative Percen	3.0	

SAMPLE ID

METHOD: Standard Methods 4500-CIB Note: Analyses performed on 1:4 w:v aqueous extracts.

emist

PLEASE NOTE: Liebling and Damages. Cardinat's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All clamps, instraining those for negligence and any other cause wheteoever chall be deemed waived unbes made in writing and received by Cardinati writin thiny (30) days after completion of the applicable servide CB/based in the completion of the applicable statistics, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates of successors arising out of or related to the performance of services hereundar by **Cardinal**, negatives of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (325) 673 7001 - 2111 BEECHWOOD - ABILENE, TX 79603

PHONE (505) 393-2326 + 101 E. MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR GANDY CORP. ATTN: JON GANDY WEST STAR ROUTE LOVINGTON, NM 88260 FAX TO: (505) 396-6887

Receiving Date: 03/17/04 Reporting Date: 04/09/04 Project Number: NOT GIVEN Project Name: PIPELINE CLEANUP Project Location: NOT GIVEN Analysis Date: 04/09/04 Sampling Date: NOT GIVEN Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: AH

. ...-

	LAD NUMBER	SAMPLE ID	(mg/Kg)
1	H8533-1	#4 @ 3:20 PM	48
	H8533-2	#4 @ 3:20 PM	64
	H8533-3	#4 @ 3:20 PM	32
1.1.1.11	H8533-4	#4 @ 3:20 PM	64
	H8533-5	#4 @ 3:20 PM	32
	H8533-6	#5 @ 3:10 PM	48
	H8533-7	#5 @ 3:10 PM	48
	H8533-8	#5 @ 3:10 PM	48
	H8533-9	#5 @ 3:10 PM	48
	H8533-10	#5 @ 3:10 PM	32
	H8533-11	#6 @ 3:00 PM	48
	H8533-12	#6 @ 3:00 PM	48
	H8533-13	#6 @ 3:00 PM	32
i	H8533-14	#6 @ 3:00 PM	32
	H8533-15	#6 @ 3:00 PM	48
	Quality Control	······································	1010
	True Value QC		1000
	% Recovery		101
	Relative Percent	Difference	3.0

METHOD: Standard Methods

4500-CI<sup>-</sup>B

Note: Analyses performed on 1:4 w:v aqueous extracts.

emíst

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ariging, whether based in contract or ton, shall be limited to the amount paid by client for analyses. All claims, including these for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service of galaxies, including these for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or less of profits incurred by client, its subsidiaries, affiliates or successors arising and or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

<i>New Mexico Office of the State Engineer</i> Well Reports and Downloads
Township: 17S Range: 34E Sections: 21
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) O Non-Domestic O Domestic All
Well / Surface Data Report Avg Depth to Water Report Water Column Report Clear Form WATERS Menu Help

#### WATER COLUMN REPORT 05/06/2004

	(quarters (quarters	are are	re 1=NW 2 re bigges		2=1 st	NE to	3=SW 4=SE) smallest)			Depth	Depth Wat		
Well Number	Tws	Rng	Sec	q	P	q	Zone	x	Y	Well	Water	Colu	
L 04624 APPRO	175	34E	21	1	1					186	170		
L 04624	175	34E	21	1	1					186	170		
L 06897 (E)	17S	34E	21	2	4	3				176	118		

Record Count: 3

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New Mexico Office of the State Engineer Well Reports and Downloads
Township: 17S Range: 34E Sections: 16
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) O Non-Domestic O Domestic All
Well / Surface Data Report Avg Depth to Water Report   Water Column Report Water Column Report   Clear Form WATERS Menu
WATER COLUMN REPORT 05/06/2004 (quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest) Depth Depth Wate Well Number Tws Rng Sec q q q Zone X Y Well Water Colu

No Records found, try again

<i>New Mexico Office of the State Engineer</i> Well Reports and Downloads								
Township: 17S Range: 34E Sections: 21								
NAD27 X: Y: Zone: Search Radius:								
County: Basin: Number: Suffix:								
Owner Name: (First) (Last) O Non-Domestic O Domestic All								
Well / Surface Data Report Avg Depth to Water Report   Water Column Report Water Form   Clear Form WATERS Menu								

		AVER	AGE	DEPTH OF	WATER	REPORT	05	5/06/20	04		
Ban	Tws	Rna	Sec	Zone	x	-	Y	Wells	(Depth Min	Water in Max	Feet) Avg
L	175	34E	21				-	3	118	170	153
Reco	rd Co	ount:	3								

http://164.64.58.140:7001/iWATERS/WellAndSurfaceDispatcher



ENVIRONMENTAL PLUS, INC. Micro-Blaze STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

01 June 2004

Mr. Larry Johnson Environmental Engineer New Mexico Oil Conservation Division 1625 North French Hobbs, New Mexico 88240

Re: Initial C-141

Duke Energy Field Services O Line – Reference #130003 UL J, NW¼ of the SE¼ of Section 19, Township 17 South, Range 32 East Latitude N 32° 49' 3.673" and Longitude W 103° 48' 8.156"

Dear Mr. Johnson,

Environmental Plus, Inc. (EPI), on behalf of Mr. Paul Mulkey, Duke Energy Field Services, L.P. (DEFS), submits the attached New Mexico Oil Conservation Division (NMOCD) form C-141 for the above referenced leak site located on land owned by the Bureau of Land Management and leased by Norman Caswell, approximately 3.5 miles southwest of Maljamar, New Mexico. The New Mexico Office of the State Engineer website database indicates there are no water supply wells within a one mile-radius of the release site. Due to the absence of water supply wells in the area, it is presumed that groundwater in this area is intermittent to non-existent (i.e., groundwater is >100' below the deepest detectable contamination). The attached site information and metrics form ranks the site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993).

A remediation plan will be developed and submitted for NMOCD approval and will address issues identified during delineation of the vertical and horizontal extents of chloride, total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and total xylenes (BTEX). The contaminated soil is exempt from RCRA 40 CFR Part 261.

If there are any questions please call Mr. Ben Miller or myself at the office or at (505) 390-0288 and (505) 390-7306, respectively or Mr. Paul Mulkey at (505) 397-5716. All official communication should be addressed to:

Mr. Paul Mulkey Duke Energy Field Services 11525 West Carlsbad Highway Hobbs, New Mexico 88240

Sincerely,

ENVIRONMENTAL PLUS, INC.

Naislaness

Iain Olness, P.G. Hydrogeologist

cc: Paul Mulkey, Duke Energy Field Services, w/enclosure Ben Miller, EPI Vice President and General Manager Sherry Miller, EPI President file an And

P.O. BOX 1558 \*\*\* 2100 WEST AVE. 0 \*\*\* EUNICE. NEW MEXICO 88231 TellPhone 505\*394\*3481 FAX 305\*394\*2601

Duke Energy	Field Services Site	Incident Da	te:	NMOCD Noti	) Notified:		
Information	tion and Metrics	May 20, 200	4 @ 1300	May 20, 2004 @ 1345			
Site: O Line Assigned Site Reference #: 130003							
Company: Du	ike Energy Field Services						
Street Address:	· ·						
Mailing Addres	ss: 11525 West Carlsbad	Highway					
City, State, Zip	: Hobbs, New Mexico	88240					
Representative	: Paul Mulkey						
Representative	<b>Telephone:</b> (505) 397-	-5716					
Telephone:			·····				
Fluid volume re	eleased (bbls): $\approx 20$ bar	rels	Recove	ered (bbls): $\approx 15$	barrels		
	>25 bbls: Notify N	MOCD verbally	within 24 hrs and su horized releases >50	ibmit form C-141 wi 0 mcf Natural Gas)	ithin 15 days.		
	5-25 bbls: Submit form C-141	within 15 days (.	Also applies to unau	thorized releases of	50-500 mcf Natural Gas)		
Leak, Spill, or I	Pit (LSP) Name: O Lir	ne			-		
Source of conta	mination: 8" Steel Pipel	ine					
Land Owner, i.	e., BLM, ST, Fee, Other	: Bureau of La	and Management	- Leased by Nor	man Caswell		
LSP Dimension	is: 54 feet by 20 feet						
LSP Area: ≈1,0	075 ft <sup>2</sup>						
Location of Ref	ference Point (RP):						
Location distan	ice and direction from R	P:					
Latitude: N 32	° 49' 3.673"						
Longitude: W	103° 48' 8.156"						
Elevation above	e mean sea level:						
Feet from Sout	h Section Line:						
Feet from West	t Section Line:						
Location-Unit	or $\frac{1}{4}$ NW $\frac{1}{4}$ of the SE	E <sup>1</sup> /4	Unit Letter	: J			
Location-Secti	on: 19						
Location- Town	nship: TT/S						
Location-Rang	ge: R32E						
S	1 1000 ( 15-	<u> </u>		· · · · · · · · · · · · · · · · · · ·			
Surface water I	body within 1000 · radiu	is of site: nor					
Domestic water	r wells within 1000' radi	us of site: noi	ne				
Agricultural wa	ater wells within 1000' r	adius of site:	none				
Public water su	ipply wens within 1000	$\frac{radius of site}{radius of site}$	101 halow ground	surface			
Depth from fail	mination (DC). Unknow	<b>ler (DG):</b> 210	o below ground	surface			
Depth of contai	d water (DC DC = Dt	$\frac{n}{CW} > 100^{\circ}$			· · · · · · · · · · · · · · · · · · ·		
Depth to groun	round Water	$\frac{3}{2}$ $\frac{3}{2}$ $\frac{3}{2}$ $\frac{3}{2}$	allhaad Protectic	an Area	3 Distance to Surface Water Body		
If Depth to GW	<50 feet: 20 points	$\frac{2.00}{1f < 1000^{2}}$ from	m water source	$\frac{311}{200}$ from	<200 horizontal feet: 20 points		
If Depth to GW	50 to 99 feet: 10 points	nrivate dome	estic water source,	$\sim 20$ points	200-100 horizontal feet: 10 points		
II Deptil to UW	50 to 77 feet. 10 points	If $>1000^{\circ}$ from	m water source	$\frac{120 \text{ points}}{\text{or}} > 200^{\circ} \text{ from}$			
If Depth to GW	>100 feet: 0 points	private dome	estic water source	: 0 points	>1000 horizontal feet: 0 points		
Ground water S	Core = 0	Wellhead Pr	otection Area Sco	pre=0	Surface Water Score= 0		
Site Rank (1+2-	(+3) = 0						
Total Site Ranking Score and Accentable Concentrations							
	Total Si	10-19					
Parameter	Total Si >19		10-19		0-9		
Parameter Benzene <sup>1</sup>	Total Si >19 10 ppm		10-19 10 ppm		0-9 10 ppm		
Parameter Benzene <sup>1</sup> BTEX <sup>1</sup>	Total Si >19 10 ppm 50 ppm		10-19 10 ppm 50 ppm		0 <u>-9</u> <u>10 ppm</u> 50 ppm		
Parameter Benzene <sup>1</sup> BTEX <sup>1</sup> TPH	Total Si >19 10 ppm 50 ppm 100 ppm		10-19 10 ppm 50 ppm 1000 ppm	1	0-9 10 ppm 50 ppm 5000 ppm		

100 ppm field VOC headspace measurement may be substituted for lab analysis

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District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

.

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 March 17, 1999

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

# **Release Notification and Corrective Action**

OPERATOR	🛛 Initial Report 🗌 Final Report
Name of Company	Contact
Duke Energy Field Services	Paul Mulkey
Address	Telephone No.
11525 West Carlsbad Highway Hobbs, New Mexico 88240	(505) 397-5716
Facility Name	Facility Type
O Line	8" Steel Pipeline

Surface Owner	Mineral Owner	Lease No.
Bureau of Land Management - Leased by Norman		
Caswell		

LOCATION OF RELEASE								
Unit Letter J	Section 19	<b>Township</b> T17S	Range R32E	Feet from the North/South Line	Feet from the East/West Line	County: Lea Lat. N 32° 49' 3.673" Lon. W 103° 48' 8.156"		

#### NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Natural Gas Pipeline Fluids	20 barrels barrels	15 barrels barrels
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
8" Steel Pipeline	May 20, 2004 @ 1300	May 20, 2004 @ 1300
Was Immediate Notice Given?	If YES, To Whom?	
🛛 Yes 🔲 No 🔲 Not Required	Larry Johnson	
By Whom?	Date and Hour	
Lynn Ward of DEFS	May 20, 2004 @ 1345	
Was a Watercourse Reached? 🔲 Yes 🖾 No	If YES, Volume Impacting the Wat	ercourse.
If a Watercourse was Impacted, Describe Fully.* NA		
Describe Cause of Problem and Remedial Action Taken.*		
Steel line began leaking due to internal corrosion. Clamp Installed.		
Describe Area Affected and Cleanup Action Taken.*		
Soil contaminated above the NMOCD Remedial Guidelines will be disposed	d of at an approved facility or remediate	ed on site. Remedial Goals: TPH =
5,000  mg/Kg, benzene = $10  mg/Kg$ , and BTEX = $50  mg/Kg$ .		
I hereby certify that the information given above is true and complete to the	best of my knowledge and understand	that pursuant to NMOCD rules and
regulations an operators are required to report and/or the certain release not public health or the environment. The acceptance of a $C_{-1}/1$ report by the 1	MOCD marked as "Final Report" doe	is not relieve the operator of lightlifty
should their operations have failed to adequately investigate and remediate (	contamination that nose a threat to group	ind water surface water human
health or the environment. In addition, NMOCD acceptance of a C-141 ren	ort does not relieve the operator of resp	ponsibility for compliance with any
other federal, state, or local laws and/or regulations.		
-	OIL CONSERV	ATION DIVISION
Signature:		
Printed Name: Paul Mulkey	Approved by District Supervisor	:
E-mail Address: pdmulkey@duke-energy.com		The second se
Title: Maintenance Construction Supervisor	Approval Date:	Expiration Date:
<b>Date:</b> Phone: (505) 397-5716	Conditions of Approval:	Attached

\* Attach Additional Sheets If Necessary



Duke Energy Field Services

O Line 130003



Duke Energy Field Services

O Line 130003



4

Duke Energy Field Services



Photograph #1: Release area, looking easterly along the pipeline. Notice soil staining in bottom of the excavation.



Photograph #2: Release area, looking northerly. Notice soil staining in central portion of the photograph.

5

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

September 22, 2003

Mr. Larry Johnson New Mexico Oil Conservation Division 1625 North French Hobbs, New Mexico 88240

Subject: Duke Energy Field Services O-5 8-Inch 091903 Initial C-141 and Remediation Plan

Dear Mr. Johnson:

Environmental Plus, Inc. (EPI), on behalf of Duke Energy Field Services, submits the attached New Mexico Oil Conservation Division Form C-141 for the above referenced leak site located on land owned by the State of New Mexico. The release volume is estimated to be 7 bbl natural gas liquids (NGL) with 3 bbl recovered. The site is located in the SE¼ of the SW¼ (Unit Letter N), Section 16, Township 17 South, and Range 34 East. The geographic location is N32° 49' 45.47"; W103° 34' 05.20". The site is ~4.1 miles west-northwest (297.0°) from Buckeye, Lea County, New Mexico. According to information obtained from the New Mexico Office of the State Engineer (NMOSE) database, ground water level beneath this site is ~146-feet below ground surface (based on the water depth of several water wells located in surrounding sections). The site matrix ranking for this site is 0 for contaminated soil down to 46-ft bgs. This release also involves an approximate 6,600-ft<sup>2</sup> overspray area west of the Point of Release.

The remedial action plan for this site is to delineate and characterize the soil contamination (TPH, BTEX and Chlorides) within the affected area of the NGL release, excavate and dispose of the RCRA exempt contaminated soils. Backfill of the resultant excavation will be with clean soil/caliche obtained on-site and/or off-site from private or public sources. Any RCRA exempt contaminated soils excavated and removed from the site will be disposed of in a NMOCD approved surface waste facility.

The Constituents of Concern (CoC's) and associated NMOCD acceptable remedial levels are as follows:

- BTEX<sup>8260</sup> (Benzene, Toluene, Ethyl Benzene, and Xylenes): 50 mg/kg
- TPH<sup>8015m</sup> (Total Petroleum Hydrocarbon): 0-12-ft bgs 5000 mg/kg; 12-62-ft bgs 1000 mg/kg
- Benzene<sup>8260</sup>: 10 mg/kg
- Chlorides: 250 mg/kg (NM Water Quality Control Commission Ground & Water Standard)



ENVIRONMENTAL PLUS, INC. Micro-Blaze Misso-Blaze Out

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

If there are any questions please call Mr. Ben Miller, or myself, at our office or at (505) 390-0288 and (505) 390-9804, respectively. All official written communications should be addressed to:

Mr. Paul Mulkey Duke Energy Field Services 11525 West Carlsbad Highway Hobbs, New Mexico 88240

On behalf of Duke Energy Field Services,

John Good PI Environmental Consultant

 cc: Paul Mulkey, Duke Energy Field Services – Linam Ranch Lynn Ward, Duke Energy Field Services – Midland Steve Weathers, Duke Energy Field Services – Denver Ben Miller, EPI Vice President and General Manager Sherry Miller, EPI President Pat McCasland, EPI Technical Manager File District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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# State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised June 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. 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**

	0	PERATOR					Initial Report	Final Report	
Name of Company	DUKE ENE	RGY FIEL	) SERVI	CES	Contact	Paul Mulkey			
Address	11525 W. Carlsbad Hwy. Hobbs, NM 88240				Telephone No.	505-397-5716			
Facility Name	Facility Name O-5 8-Inch Line				Facility Type	Natural Gas Ga	thering Pipeline		
Surface Owner	State of New	Mexico		Mineral Owner	NA		Lease No.	NA	
				LOCATION O	FRELEASE		•		
Unit Letter	Section	Township	Range	Feet from	Feet from	Longitude	Latitude	County:	
N	16	17S	34E	South Line 576	West Line 1890	W103° 34' 05.20''	N32° 49' 45.47''	Lea	
				NATURE OF	RELEASE				
Type of Release	······				Volume of Rele	ase	Volume Recovered		
Natural Gas rele	ease and assoc	iated NGL'	6		7	' bbl	3	bbl	
Source of Release		······································		·	Date and Hour of	of Occurrence	Date and Hour of D	Discovery	
8" Steel Pipeline	9				9/19/2003		9/19/03		
Was Immediate Not	ice Given?				If YES, To Who	om?	L	·····	
	☑ Yes	D No		t Required	Larry Johns	on (NMOCD-Hot	obs)		
By Whom?	Lynn Ward	- DEFS (Mi	dland)		Date and Hour	9/19/03 10:20 A	M		
Was a Watercourse	Reached?				If YES, Volume Impacting the Watercourse.				
		□ <sub>Yes</sub>	☑ <sub>No</sub>		NA				
If a Watercourse wa	s Impacted, Desc	cribe Fully.*		·····					
NA									
Describe Cause of F	roblem and Rem	edial Action T	aken.*				······	<u> </u>	
Internally Corrode	d nineline rena	ired by clamr	ing leak						
	u pipeinie, repa	ncu by champ	mg icux						
Describe Area Affe	rted and Cleanun	Action Taken	*						
802 ft2 surface sn	vill area offected	ACTON 14KC	APC DROM	bbl of NCL roo	owned from 7 b	hi malaaga DCDA E	vomet Non-harond	one contominated	
soil above remedia	l goals will be or	excavated an	d disposed	l of by EPI. Back	fill will be clean	caliche and topsoil.	xempt Non-nazaru	ous contaminateu	
			-	-		-			
L hazaby cortify that the	information given a	hous is true and	complete to	the heat of my lange					
required to report and/o	or file certain release	e notifications and	i perform co	rrective actions for re	eleases which may er	ndanger public health or	the environment. The a	cceptance of a C-141	
report by the NMOCD	marked as "Final Re water surface wate	eport" does not r	lieve the ope	erator of liability show	uld their operations l	have failed to adequately	investigate and remedia	ate contamination that	
compliance with any ot	her federal, state, or	local laws and/o	r regulations		wield acceptance	or a C 141 report does	not reacte the operator	or responsionity for	
Signature: John Llord					OIL CONSERVATION DIVISION				
Printed Name:	/	John Good				interiot Comercian			
<i>v</i>					Approved by D	isuici Supervisor:	T		
Title:	Consultant -	- Environme	ental Plus	, Inc.	Approval Date:		Expiration Date:	· · · · · · · · · · · · · · · · · · ·	
E-mail Address:		jcgood461	t@aol.co	m	Conditions of t	<b>nn</b> rough			
Date: 9/22/03 Phone: 505-394-3481						pprovai:		Attached .	

# Duke Energy Field Services

.

# Incident Date and NMOCD Notified?

9/19/03

9/19/03 10:20 AM

SITE: O-5 8-Inch Line Assigned Site Reference # 091903							
Company:	ompany: DUKE ENERGY FIELD SERVICES						
Street Address:	5805 East	Highway 80					
Mailing Address:	11525 W. (	Carlsbad Hv	vy.				
City, State, Zip:	Hobbs, NM	88240					
Representative:	Paul Mulke	y					
Representative Teleph	ione: 505-397-57	/16					
Telephone:							
Fluid volume released	(bbls): <u>7</u>	Recovere	ed (bbls): 3				
	>25 bbls: Noti	fy NMOCD ver	bally within 24 hrs and submit for	m C-141 within	15 days.		
	5-25 bbls: Submit form C-1	141 within 15 d	ays (Also applies to unauthorized	releases of 50-	500 mcf Natural Gas)		
Leak, Spill, or Pit (LSF	) Name:	# 091903					
Source of contamination	on:	8" Steel Pip	peline				
Land Owner, i.e., BLM	, ST, Fee, Other:	State of Ne	w Mexico State Land Of	fice - Santa	Fe, NM		
LSP Dimensions:		30' x 40' (G	PS Site Diagram attache	d)			
LSP Area:		892	-ft <sup>2</sup>				
Location of Reference	Point (RP):						
Location distance and	direction from RP:						
Latitude:		N32° 49' 48	5.47"				
Longitude:		W103° 34'	05.20"				
Elevation above mean	sea level:	4081	-ft amsl				
Feet from South Section	on Line:	576					
Feet from West Section	on Line:	1890					
Location - Unit and 1/4	1/4: UL-	N	SE 1/4 of SW	1/4			
Location - Section:		16					
Location - Township:		17S					
Location - Range:		34E					
Surface water body wi	thin 1000' radius of Site	e:	0				
Surface water body wi	thin 1000' radius of Site	e:	0				
Domestic water wells v	within 1000' radius of S	lite:	0				
Domestic water wells v	within 1000' radius of S	lite:	0				
Agricultural water well	s within 1000' radius of	Site:	0				
Agricultural water well	s within 1000' radius of	Site:	0				
Public water supply we	ells within 1000' radius	of Site:	0				
Public water supply we	ells within 1000' radius	of Site:	0				
Depth (ft) from land su	Inface to ground water	(DG):	146				
Depth (ft) of contamination	ation (DC):		10				
Depth (ft) to ground wa	ater (DG - DC = DtGW	):	136				
1. Grour	nd Water	2. Well	head Protection Area	3.	Distance to Surface Water Body		
If Depth to GW <50 fe	et: 20 points	lf <1000' fr	om water source, or,	<200 horiz	ontal feet: 20 points		
If Depth to GW 50 to 9	99 feet: <i>10 points</i>	<200° from source: 20	private domestic water points	200-100 horizontal feet: 10 points			
		lf >1000' fr	om water source, or,				
If Depth to GW >100 f	eet: 0 points	>200' from	private domestic water	>1000 hori	zontal feet: 0 points		
source: 0 points							
Ground water Score:	Ground water Score: 0   Wellhead Protection Area Scor 0   Surface Water Score: 0						
Site $Hank(1+2+3) = 0$							
Deremeter		ite Hanking	Score and Acceptable	Concentrat			
	20 or >		10		U		
BTEX1	10 ppm		10 ppm				
тры	50 ppm		1000 ppm		<u> </u>		
[ I I I I	l ind hhu		l into bhu		l soon bhill		



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Duke Energy Field Services O-5 8-Inch - 091903 Lea County, New Mexico UL-N Section 16 T17S R34E N32° 49' 45.47" W103° 34' 05.20" Elevation: 3935-ft amsl



7

DUKE ENERGY FIELD SERVICES O-5 8" 091903 UL-N SECTION 16 T17S R34E





DUKE ENERGY FIELD SERVICES O-5 8" 091903 UL-N SECTION 16 T17S R34E

