



Duke Energy

9-23-05  
LR 50

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

<b>Name of Company</b> Duke Energy Field Services, LP 219466	<b>Contact</b> Mark Owens
<b>Address</b> 1625 West Marland, Hobbs, New Mexico 88240	<b>Telephone No.</b> (505) 397-4451
<b>Facility Name</b> J-4-2	<b>Facility Type</b> 8" Steel/Driscoll Transmission Line

<b>Surface Owner</b> State of New Mexico	<b>Mineral Owner</b>	<b>Lease No.</b>
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#### LOCATION OF RELEASE

<b>Unit Letter</b> C	<b>Section</b> 27	<b>Township</b> T19S	<b>Range</b> R35E	<b>Feet from the North/South Line</b>	<b>Feet from the East/West Line</b>	<b>County:</b> Lea Lat. N 32° 38' 18.85" Lon. W 103° 26' 49.02"
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#### NATURE OF RELEASE

<b>Type of Release</b> Natural Gas and Natural Gas Liquids	<b>Volume of Release</b> <5 barrels	<b>Volume Recovered</b> No Recovery
<b>Source of Release</b> Internal corrosion or an 8" steel/driscoll transmission line operating at 15 to 25 psi.	<b>Date and Hour of Occurrence</b> August 3, 2005	<b>Date and Hour of Discovery</b> August 3, 2005
<b>Was Immediate Notice Given?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	<b>If YES, To Whom?</b>	
<b>By Whom?</b>	Not Required	
<b>Was a Watercourse Reached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If YES, Volume Impacting the Watercourse.</b> NA	

**If a Watercourse was Impacted, Describe Fully.\***  
NA

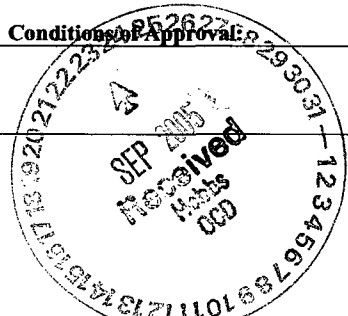
**Describe Cause of Problem and Remedial Action Taken.\***The release occurred due to internal corrosion of an 8" steel/driscoll transmission line. The line was shut in, the leak origin excavated and a section of the line replaced. Soil borings have been advanced at the site to delineate the extent of contamination and a temporary monitoring well installed to determine if groundwater has been impacted due to the release.

**Describe Area Affected and Cleanup Action Taken.\***  
Soil contaminated above the NMOCD Remedial Guidelines will be disposed of at an approved facility or remediated on site. Remedial Goals: TPH = 100 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 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.

<b>Signature:</b>	<b>OIL CONSERVATION DIVISION</b>	
<b>Printed Name:</b> Lynn Ward <b>E-mail Address:</b> lward@duke-energy.com	<b>Approved by District Supervisor:</b>	
<b>Title:</b> Senior Environmental Specialist	<b>Approval Date:</b>	<b>Expiration Date:</b>
<b>Date:</b> <b>Phone:</b> (432) 620-4207	<b>Conditions of Approval:</b>	<b>Attached</b> <input type="checkbox"/>

\* Attach Additional Sheets If Necessary







Site Information and Metrics

<b>Incident Date:</b> 3 August 2005	<b>NMOCD Notified:</b> 22 September 2005
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<b>Site:</b> J-4-2		<b>Assigned Site Reference #:</b> 130028	
<b>Company:</b> Duke Energy Field Services			
<b>Street Address:</b>			
<b>Mailing Address:</b> 1625 West Marland			
<b>City, State, Zip:</b> Hobbs, New Mexico 88240			
<b>Representative:</b> Mark Owens			
<b>Representative Telephone:</b> (505) 397-5541			
<b>Telephone:</b>			
<b>Fluid volume released (bbls):</b> <5 bbls		<b>Recovered (bbls):</b> No Recovery	
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)			
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)			
<b>Leak, Spill, or Pit (LSP) Name:</b> J-4-2			
<b>Source of contamination:</b> Internal corrosion of an 8" steel/driscoll transmission line			
<b>Land Owner, i.e., BLM, ST, Fee, Other:</b> State of New Mexico			
<b>LSP Dimensions:</b> 152 feet by 39 feet			
<b>LSP Area:</b> ≈2,800 ft <sup>2</sup>			
<b>Location of Reference Point (RP):</b>			
<b>Location distance and direction from RP:</b>			
<b>Latitude:</b> N 32° 38' 18.58"			
<b>Longitude:</b> W 103° 26' 49.02"			
<b>Elevation above mean sea level:</b> 3,740			
<b>Feet from South Section Line:</b>			
<b>Feet from West Section Line:</b>			
<b>Location- Unit or ¼¼:</b> NE¼ of the NW¼		<b>Unit Letter:</b> C	
<b>Location- Section:</b> 27			
<b>Location- Township:</b> T19 S			
<b>Location- Range:</b> R 35 E			
<b>Surface water body within 1000 ' radius of site:</b> none			
<b>Domestic water wells within 1000' radius of site:</b> none			
<b>Agricultural water wells within 1000' radius of site:</b> none			
<b>Public water supply wells within 1000' radius of site:</b> none			
<b>Depth from land surface to ground water (DG):</b> ≈ 23			
<b>Depth of contamination (DC):</b> Unknown			
<b>Depth to ground water (DG – DC = DtGW):</b> <50 feet			
<b>1. Ground Water</b>		<b>2. Wellhead Protection Area</b>	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or; <200' from private domestic water source: 20 points	
If Depth to GW 50 to 99 feet: 10 points		If >1000' from water source, or; >200' from private domestic water source: 0 points	
If Depth to GW >100 feet: 0 points			
<b>Ground water Score = 20</b>		<b>Wellhead Protection Area Score = 0</b>	
<b>Site Rank (1+2+3) = 20</b>			
<b>Total Site Ranking Score and Acceptable Concentrations</b>			
<b>Parameter</b>	<b>&gt;19</b>	<b>10-19</b>	<b>0-9</b>
Benzene <sup>1</sup>	10 ppm	10 ppm	10 ppm
BTEX <sup>1</sup>	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1,000 ppm	5,000 ppm
<sup>1</sup> 100 ppm field VOC headspace measurement may be substituted for lab analysis			

⚠ Attachments can contain viruses that may harm your computer. Attachments may not display correctly.

**Johnson, Larry, EMNRD**

**From:** Lynn C Ward [lward@duke-energy.com] **Sent:** Thu 9/22/2005 5:01 PM  
**To:** Johnson, Larry, EMNRD  
**Cc:**  
**Subject:** Release on the J-4-2 (DEFS)  
**Attachments:**  J-4-2 Soil Analytical Results.pdf(16KB)  LJ 092205 LTR.pdf(963KB)

Dear Larry,

Attached is the analytical from the boring of the J-4-2 release and the initial C-141 information. There were 3 boreholes, SB-3 hit groundwater at 25' bgs. As you can see, the PID readings at 20 feet were 772 which suggests that contamination is present however field chlorides indicate chloride levels below 250 mg/Kg.

I have directed EPI to install a temporary monitor well which was done today (9/22/05). They intend to develop and sample the monitor well on Friday (9/23/05). This water sample will be delivered to a lab to be analyzed for TPH, BTEX, and Chlorides. I have also asked them to submit the soil sample collected at 20 feet for analysis (TPH, BTEX, and Cl).

I will need more time to obtain the OGRID number as I don't know where that information might be. The line is an 8" steel, low pressure gathering line. Due to the interruption of normal operations, I am unable to access our databases which would provide me with the normal flow through the pipeline and H2S content. Additionally, I have been unable to reach my field supervisor. I will try again tomorrow for the throughput and OGRID #.

(See attached file: J-4-2 Soil Analytical Results.pdf) (See attached file: LJ 092205 LTR.pdf)

Duke Energy Field Services, LP

Lynn Ward  
Sr. Env. Specialist  
Southern Division

(o) 432/620-4207  
(c) 432/413-3601

TABLE 1

Summary of Soil Boring Analytical Results

Duke Energy Field Services J-4-2 (Ref. #130028)

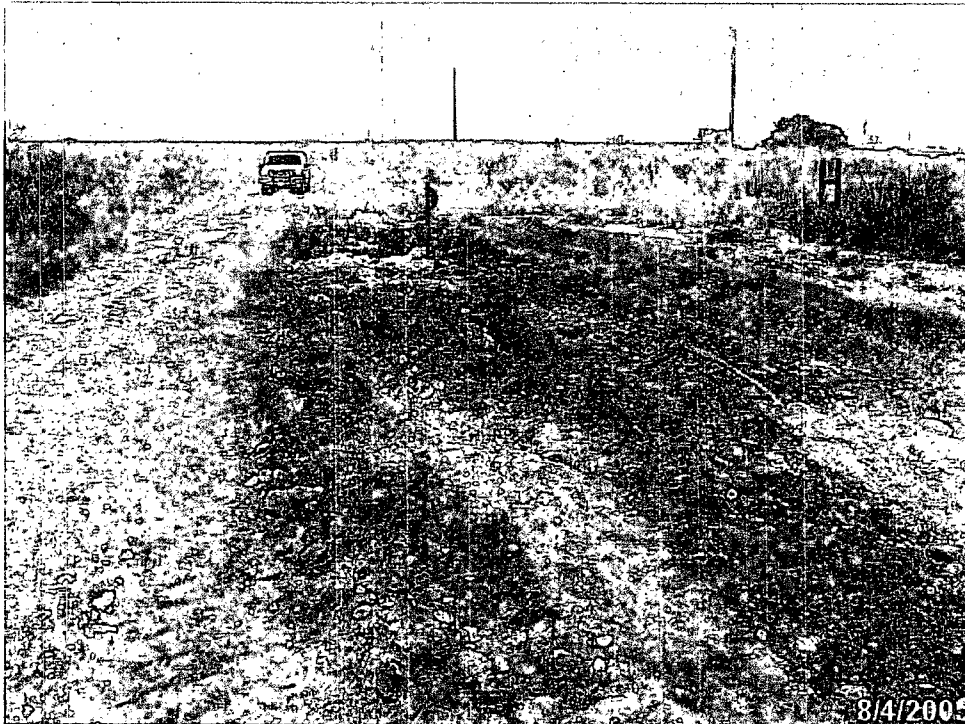
Soil Boring	Depth (feet)	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)	Sulfate (mg/Kg)
SB-1	2	21-Sep-05	64.7	160										
	5	21-Sep-05	3.0	160										
SB-2	2	21-Sep-05	565	240										
	5	21-Sep-05	25.7	320										
	10	21-Sep-05	5.4	400										
	15	21-Sep-05	5.4	320										
	20	21-Sep-05	4.1	320										
SB-3	2	21-Sep-05	330	320										
	5	21-Sep-05	439	44										
	10	21-Sep-05	788	1,120										
	15	21-Sep-05	759	640										
	20	21-Sep-05	772	240										
	25	21-Sep-05	1.9	560										
<b>NMOCD Remedial Thresholds</b>			<b>100<sup>3</sup></b>		<b>10</b>				<b>50</b>			<b>100</b>	<b>250<sup>4</sup></b>	

<sup>1</sup> *Bolded values are in excess of the NMOCD Remediation Thresholds*

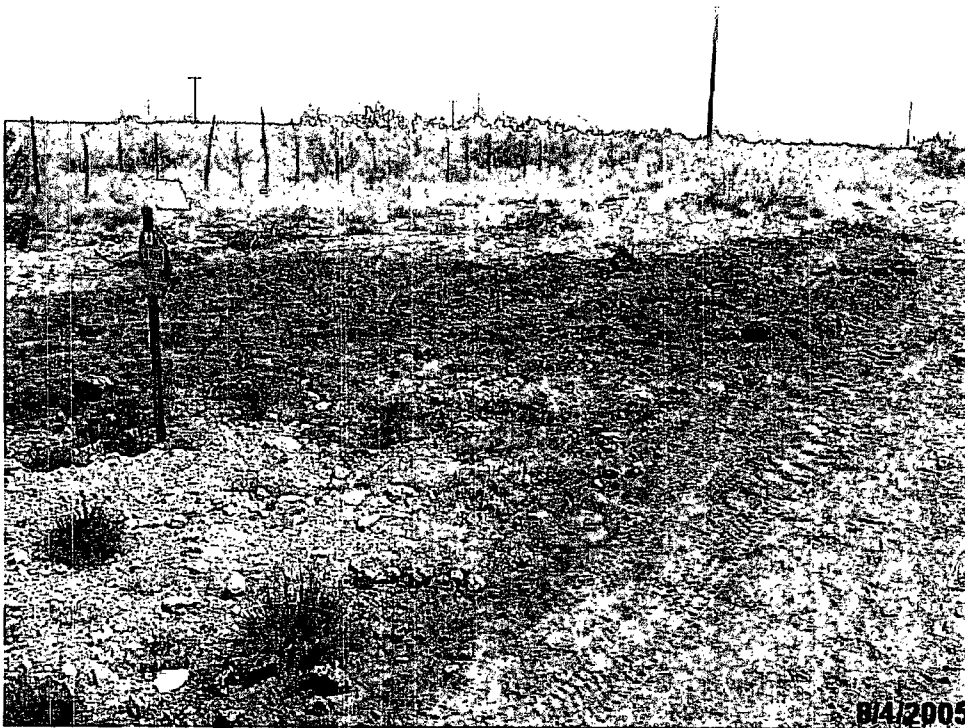
<sup>2</sup> - - : Not Analyzed

<sup>3</sup> In lieu of laboratory analyses of benzene, toluene, ethylbenzene and total xylenes.

<sup>4</sup> Chloride residuals may not be capable of impacting local groundwater above the NMWQCC standard of 250 mg/L



Photograph #1: Release area, looking westerly. Dark colored soil indicates contamination.



Photograph #2: Release area, looking easterly. Dark colored soil indicates contamination.

**TABLE 1**

**Well Data**

**DEFS- J-4-2 (Ref. #130028)**

Well Number	Diversion <sup>A</sup>	Owner	Use	Twp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation <sup>B</sup>	Well Depth (ft bgs)	Depth to Water (ft bgs)
L02250	3	W.P. McIntosh	PRO	19S	35E	22 3 3 1	32° 18' 18.86"	103° 27' 11.77"	01-Apr-54	3,746	50	20
L02250 (1)	0	Gulf Oil Corp.	PRO	19S	35E	22 3 3	32° 18' 18.86"	103° 27' 11.77"		3,746		
L03843	0	Donnelly Drilling Company Inc.	PRO	19S	35E	22 3 3	32° 18' 18.86"	103° 27' 11.77"		3,746		
L03844	3	Moran Oil Producing & Drilling	PRO	19S	35E	22 3 1	32° 38' 31.97"	103° 27' 11.76"	23-Apr-58	3,750	71	27
L04101	3	Virgil Linam	DOM	19S	35E	22 3 3	32° 18' 18.86"	103° 27' 11.77"	11-Dec-59	3,746	50	35
L04290	3	C.W. Trainer	PRO	19S	35E	22 1 4 3	32° 38' 45.07"	103° 26' 56.28"		3,753		
L05937	0	Thelma A. Linam	PRO	19S	35E	22 3 3	32° 18' 18.86"	103° 27' 11.77"		3,746		
L05937 (1)	0	Mrs. Thelma A. Linam	PRO	19S	35E	23 3 3	32° 18' 18.86"	103° 27' 11.77"		3,747		
L09901 (E)1	0	ARCO Oil & Gas Company	PRO	19S	35E	23 3 4	32° 38' 18.77"	103° 25' 54.39"		3,727		
L11510	3	Leo V. Sims II	STK	19S	35E	27 2 3	32° 37' 52.63"	103° 26' 40.84"	22-Aug-03	3,724	42	
USGS #1				19S	35E	22 1 4 3			17-Apr-91	3,750		16.8
USGS #2				19S	35E	22 3 3 4			28-Jul-54	3,743		23.5
USGS #3				19S	35E	22 3 3 4			27-Jan-71	3,743		23.7
USGS #4				19S	35E	27 4 3 2			27-Jan-71	3,711		21.9
USGS #5				19S	35E	17 2 1 1	32° 39' 44"	103° 28' 40"	25-Jan-96	3,822		26.0
USGS #6				19S	35E	24 4 2 2	32° 38' 28"	103° 24' 07"	25-Jan-96	3,699		20.0

\* = Data obtained from the New Mexico Office of the State Engineer Website ([http://waters.ose.state.nm.us:7001/WATERS/wr\\_RegisServlet1](http://waters.ose.state.nm.us:7001/WATERS/wr_RegisServlet1))

Shaded area indicates well locations shown on Figure 2

<sup>A</sup> = in acre feet per annum

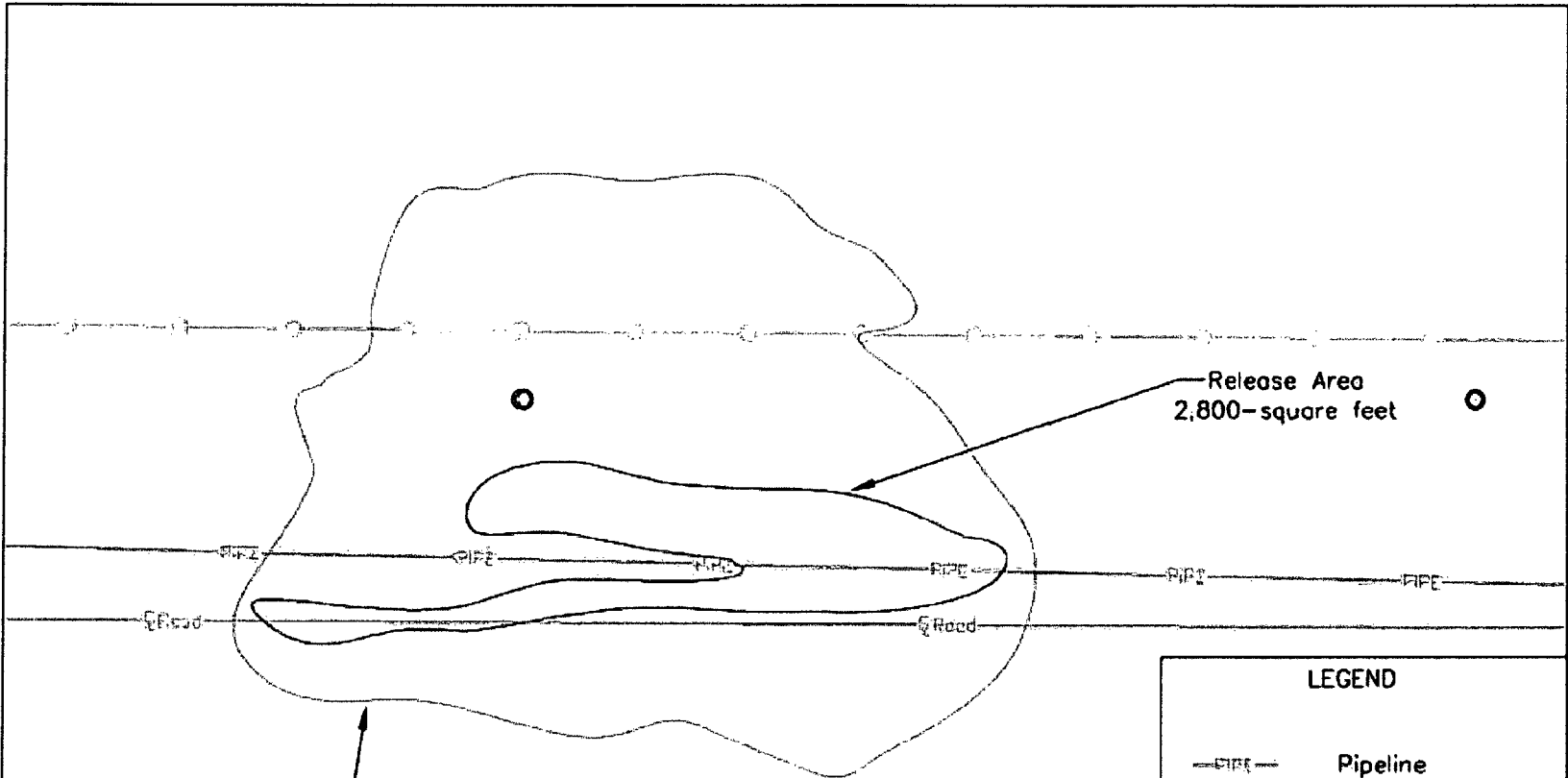
<sup>B</sup> = Elevation interpolated from USGS topographical map based on referenced location.

DOM - Domestic

STK - Livestock watering

PRO - Prospecting or development of natural resources

quarters are 1-NW, 2-NE, 3-SW, 4-SE; quarters are biggest to smallest



**LEGEND**

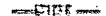

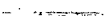

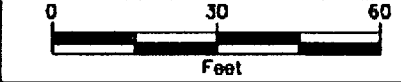
-  Pipeline
-  Access Road
-  Fenceline
-  Telephone Pole

Figure 3  
Site Map  
Duke Energy Field Services  
J-4-2

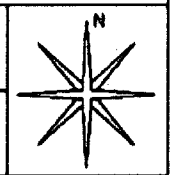
Lea County, New Mexico  
NE 1/4 of the NW 1/4, Sec. 27, T19S, R35E  
N 32° 38' 18.85" W 103° 26' 49.02"  
Elevation: 3,740 feet omsl

DWG By: Jason Stegemoller  
August 2005

REVISED:



SHEET  
1 of 1



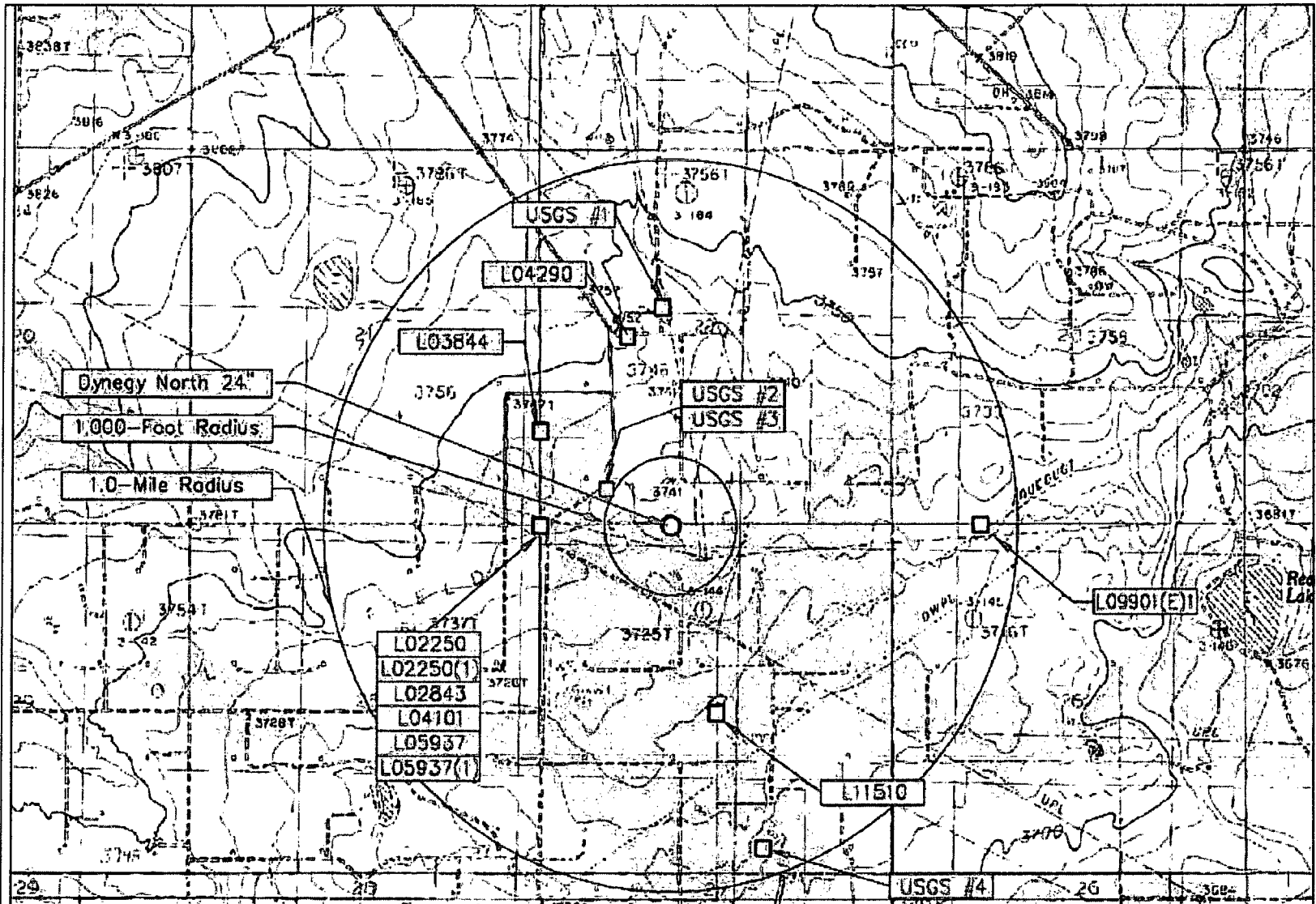


Figure 2  
 Site and Well Location Map  
 Duke Energy Field Services  
 J-4-2

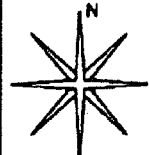
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 Elevation: 3,740 feet amsl

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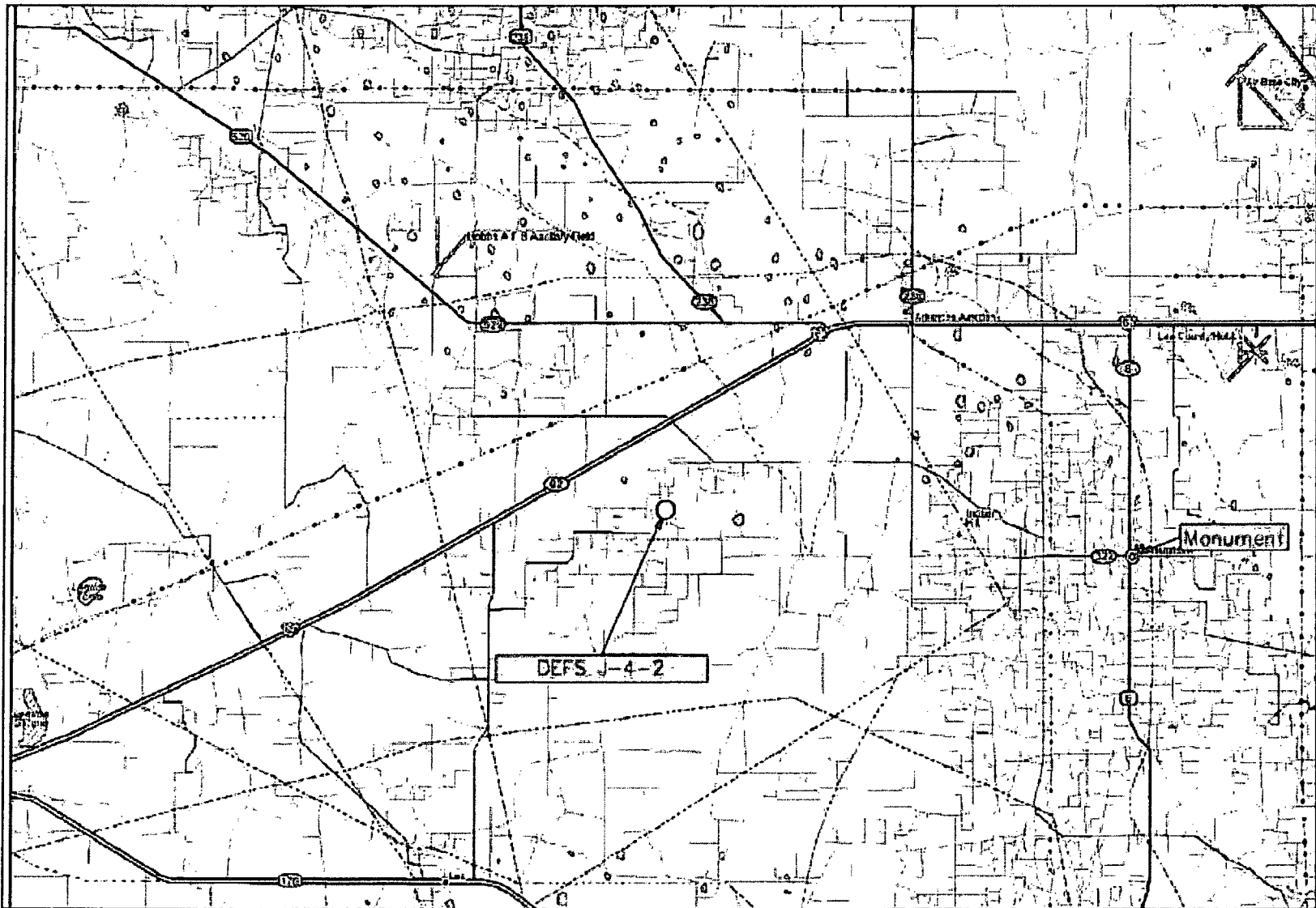


SHEET  
 1 of 1



Duke Energy  
 Field Services





5

Figure 1  
Area Map  
Duke Energy Field Services  
J-4-2

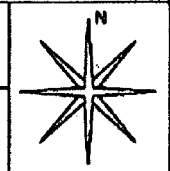
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DWG By: Jason Stegemoller  
August 2005

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DEFS J-4-2  
130028

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