DUKE ENERGY FIELD SERVICES



SITE INVESTIGATION, REMEDIATION,
AND FINAL C-141
CLOSURE DOCUMENTATION

G-28 LOOP LINE RELEASE SITE

DEFS REF: G-28 LOOP LINE EAST 031902

UL-F (SE¼ of the NW¼) of Section 7 T22S R36E

~8.9 MILES WEST-SOUTHWEST (257.6°) OF EUNICE

LEA COUNTY, NEW MEXICO

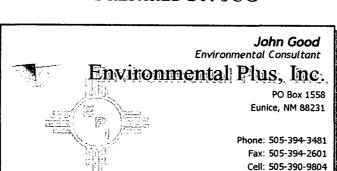
LATITUDE: N32° 24' 27.93"

LONGITUDE: W103° 18' 28.14"

Email: enviplus1@aol.com

MARCH 31, 2003

PREPARED BY: JCG





ENVIRONMENTAL PLUS, INC. MICRO-BLOOD MICRO-BLOOD CAT

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

March 31, 2003

Mr. Larry Johnson
Energy, Minerals, and Natural Resources Department
New Mexico Oil Conservation Division
1625 North French Dr.
Hobbs, New Mexico 88240

Subject: DEFS - G28 Loop Line East 031902 Final C-141 and Closure Documentation

Dear Mr. Johnson:

Environmental Plus, Inc. (EPI), on behalf of Duke Energy Field Services (DEFS) submits for your consideration and approval the Final C-141 and Closure Documentation for the "G28 Loop Line East 031902" remediation site. This report documents the vertical and horizontal extents of hydrocarbon contamination at the site, removal of contaminated soils above acceptable CoC levels and disposal of said contaminated soils at EPI's approved land farm. This submittal is consistent with the Initial C-141 and Remediation Plan submitted to NMOCD on March 19, 2002. Therefore, on behalf of Duke Energy Field Services, EPI requests that the NMOCD consider the information provided within this documentation and require "no further action" at this site.

If there are any questions please call Mr. Ben Miller or myself at EPI's offices, or at 505-390-0288 or 505-390-9804 respectively. Mr. Paul Mulkey of Duke Energy Field Services can be contacted at 505-397-5716.

Please address all official correspondence regarding this release to Mr. Paul Mulkey at:

Duke Energy Field Services 11525 West Carlsbad Highway Hobbs, New Mexico 88240

Sincerely,

John Good, Environmental Consultant

CC: Paul Mulkey, Duke Energy Field Services, Hobbs, w/enclosure Lynn Ward, Duke Energy Field Services, Midland, w/enclosure Steve Weathers, Duke Energy Field Services, Denver, w/enclosure Sherry Miller, President, Environmental Plus, Inc.

Ben Miller, Vice President/General Manager, Environmental Plus, Inc. Pat McCasland, EPI Technical Manager, Environmental Plus, Inc.

File

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Executive Summary

Environmental Plus, Inc. (EPI) was notified by Duke Energy Field Services (DEFS) on March 19, 2002 regarding a historical pipeline release site involving DEFS' "G-28 Loop Line" natural gas gathering pipeline. DEFS' initial C-141 (03-19-02) indicates an unknown release volume and no recovery. The leak was historical in nature and was the result of internal pipeline corrosion. DEFS

personnel repaired the steel pipeline by clamping.

Characterization and remedial work by EPI commenced on March 19, 2002 and was completed on April 16, 2002. The "G-28 Loop Line East 031902" site is located ~8.9-miles west-southwest (257.6°) of Eunice, NM, in Unit Letter F, (SE¼ of the NW¼), Section 07, (N32°24'27.93" R36E. W103°18'28.11"). The spill occurred property owned by the State of New Mexico. The surface extent of the reported spill was $1,411-ft^2$ approximately (see Plate Attachments). The vertical extent of contamination did not extend below 15-ft below ground surface (bgs).

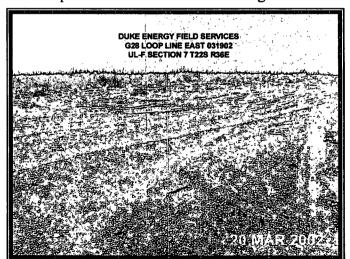


EPI excavated and disposed of 472-yd³ of contaminated soil from the site commencing on March 19, 2002. Composite bottom-hole and sidewall soil samples were submitted to Cardinal Laboratories, Hobbs, NM on April 9, 2002. Results of these analyses confirmed that TPH, BTEX, and Benzene levels were below threshold levels throughout the site.

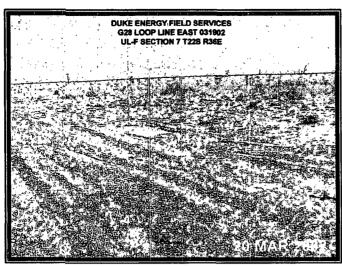
All contaminated soil removed from the site was disposed of at EPI's NMOCD approved land farm. The excavation was backfilled with clean caliche and topsoil. The site was contoured to prevent pooling over the excavation site.

1.0 Introduction

This report addresses the site investigation and remediation of the DEFS "G-28 Loop Line East



031902" natural gas gathering remediation site. On March 19, 2002, DEFS notified EPI regarding a natural gas and associated NGL release at this site. The initial C-141 Form submitted to NMOCD (March 19, 2002) contains no data concerning release volumes, and indicates zero recovery. EPI responded the same day (March 19, 2002) and commenced GPS delineation, photography, characterization and preliminary excavation of the contaminated soil in the immediate area of the reported leak. The site initially consisted of an area ~40-ft X ~50-ft associated with the release. The total release affected area



comprised ~1,411-ft². Remediation of this release site consisted of excavation and disposal of contaminated soil at EPI's Land Farm, soil analyses, backfill and contouring of the excavation. Completion of the site remediation project was on April 16, 2002.

2.0 Background

The site is associated with the DEFS G-28 Loop Line natural gas gathering pipeline. This release site is located ~8.9-miles west-southwest (257.6°) of Eunice, NM, in Unit Letter F, (SE¼ of the NW¼), Section 07, T22S, R36E, (N32°24'27.93" and

W103°18'28.11"). The land is owned by the State of New Mexico. A site location map, site topographical map and a detailed GPS site diagram are included in the Attachments as Plates 1, 2 and 3.

The natural gas and associated NGL release at this site was discovered March 19, 2002. The leak was the result of internal pipe corrosion. The pipe was clamped and repaired by DEFS personnel.

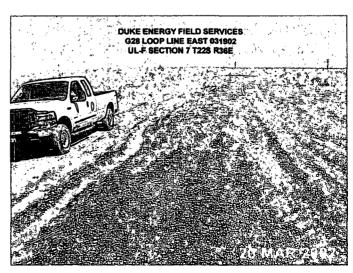
3.0 Site Description

3.1 Geological Description

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as "an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and generally overlain by sandy soil." The release site is located in the Eunice Plains physiographic subdivision, described by Nicholson & Clebsch as an area "underlain by a resistant caliche surface, and almost entirely covered by red dune sand. The Eunice Plains surface generally slopes east-southeast.

3.2 Ecological Description

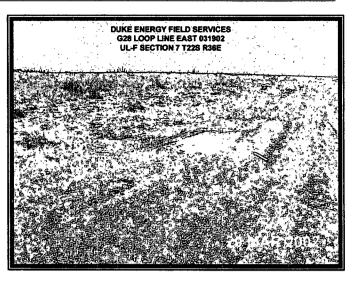
The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin (Querqus harvardi) interspersed with Mesquite Honey (Prosopis glandulosa) along with typical desert flowering annuals grasses, and flowering perennials. Mammals represented. include Orrd's and Merriam's Kangaroo Rat, Deer Mouse,



White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Coyote. Reptiles, Amphibians, and Birds are numerous and typical of area. A survey of Listed, Threatened, or Endangered species was not conducted.

3.3 Area Ground Water

The estimated depth to the unconfined ground water aquifer at this site is 195-ft bgs, based on data obtained from the NM State Engineers Office. The site is located in the Eunice Plains



physiographic area approximately 8.9-miles west-southwest (257.6°) of Eunice, NM. Ground water gradient in this area is generally to the southeast.

3.4 Area Water Wells

All recorded wells are greater than 1000 horizontal feet from the site.

3.5 Area Surface Water Features

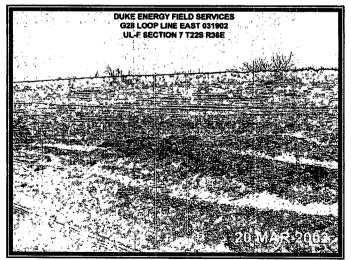
No surface water bodies exist within 1000 horizontal feet of the site.

4.0 NMOCD Site Ranking

Contaminant delineation and remedial work done at this site indicate that the chemical parameters of the soil and the physical parameters of the ground water were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

- ♦ Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)
- ♦ Unlined Surface Impoundment Closure Guidelines (February 1993)

Acceptable thresholds for contaminants/constituents of concern (CoCs), i.e., TPH^{8015m}, Benzene,



and the mass sum of Benzene, Toluene, Ethyl Benzene, and total Xylenes (BTEX), was determined based on the NMOCD Ranking Criteria as follows:

- ◆ Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water.
- ♦ Wellhead Protection Area, i.e., distance from fresh water supply wells.
- Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.

Based on the proximity of the site to

protectable area water wells, surface water bodies, and depth to ground water from the lower most contamination, the NMOCD ranking score for the site is 0 points with the soil remedial goals highlighted in the Site Ranking table presented below.

1. Groun	d Water	2. Wellhead Protection Area	3. Distance to Surface Water				
Depth to G\ 20 pc		If <1000' from water source, or; <200' from private domestic water	<200 horizontal feet: 20 points				
Depth to GW 10 pc		source: 20 points	200-1000 horizontal feet: 10 points >1000 horizontal feet: 0 points				
Depth to GV 0 po		If >1000' from water source, or; >200' from private domestic water source: 0 points					
Ground Wate	er Score = 0	Wellhead Protection Score= 0	Surface Water Score= 0				
	Site Ran	k (1+2+3) = 0 + 0 + 0 = 0 points (for	soil 0-95'bgs)				
-	Total Site Ranl	king Score and Acceptable Remedial (Goal Concentrations				
Parameter	20	or > 10	0				
Benzene ¹	10 ן	opm 10 ppm	10 ppm				
BTEX ¹	50	opm 50 ppm	50 ppm				
ТРН	100	ppm 1000 ppm	5000 ppm				
<u> </u>	100 ppm field	VOC headspace measurement may be subs	tituted for lab analysis				

5.0 Subsurface Soil Investigation

The subsurface soil samples were composite samples taken from the bottom and sidewalls of the excavation on April 9, 2002. Lab analyses results of this sampling event confirmed that TPH, BTEX, Benzene and Chloride levels were below the Remedial Goals for this site. *Plate 4* in the Attachments is a summary table, with charts, of the results of the composite soil sampling performed for this remediation project.

6.0 Ground Water Investigation

The conservatively estimated depth to ground water at this site is 195-ft bgs. Excavation of the site



was to a maximum depth of 15-ft. Final CoC levels of the bottom-hole and sidewalls of the excavation were analyzed to be within the following ranges: TPH-20 to 34.4 ppm; Benzene – 0 to 0.005 ppm; BTEX – 0 to 0.03 ppm; and, Chlorides – 32 to 80 ppm.

The excavation was backfilled with clean backfill material (caliche and top soil), and then contoured to prevent pooling of runoff water. Based on the removal the Constituents of Concern and adequate depth to ground water, there will be no need for further ground water investigation at this site.

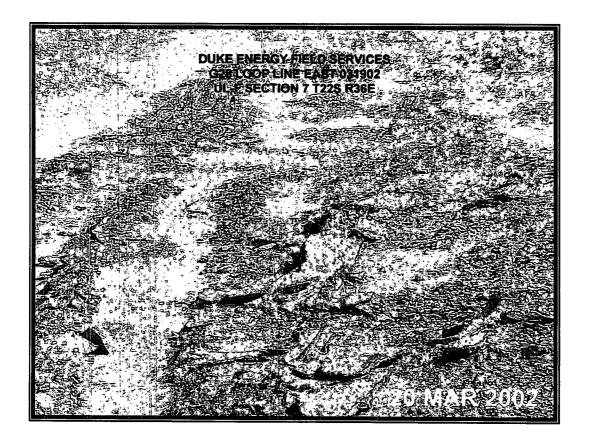
7.0 Remediation

Remediation of the site commenced on March 19, 2002 and continued through April 16, 2002. Site remediation consisted of excavation and disposal of 472 yd³ of RCRA Exempt contaminated soil in EPI's approved land farm located south of Eunice, NM. The excavation was backfilled with clean caliche and top soil material.

The excavation was composite sampled on April 9, 2002. Results of the bottom hole and sidewall analyses (*Plate 4 – Attachments*) indicated that no further excavation was necessary to achieve remedial goals in the excavation.

8.0 Closure Justification

This report documents successful implementation of the Remediation Plan approved by NMOCD for this release site. Soil contaminated above acceptable CoC remedial concentrations was excavated and removed from the location. Disposal of RCRA exempt contaminated soils was at EPI's approved land farm. The excavation was backfilled with clean caliche and topsoil and properly contoured to provide adequate drainage. Based on the data presented in this report, Environmental Plus, Inc., on behalf of Duke Energy Field Services, requests that the NMOCD require "no further action" at this site.



ATTACHMENTS

Plate 1: Site Location Map	8
Plate 2: Site Topography Map	9
Plate 3: GPS Demarcation with Site Features	10
Plate 4: Soil Analytical Data and Associated Bar Charts	11
Lab Analyses Reports and Chain-of-Custody Forms	12
Final NMOCD C-141 Form	13
Site Information and Metrics Form	14



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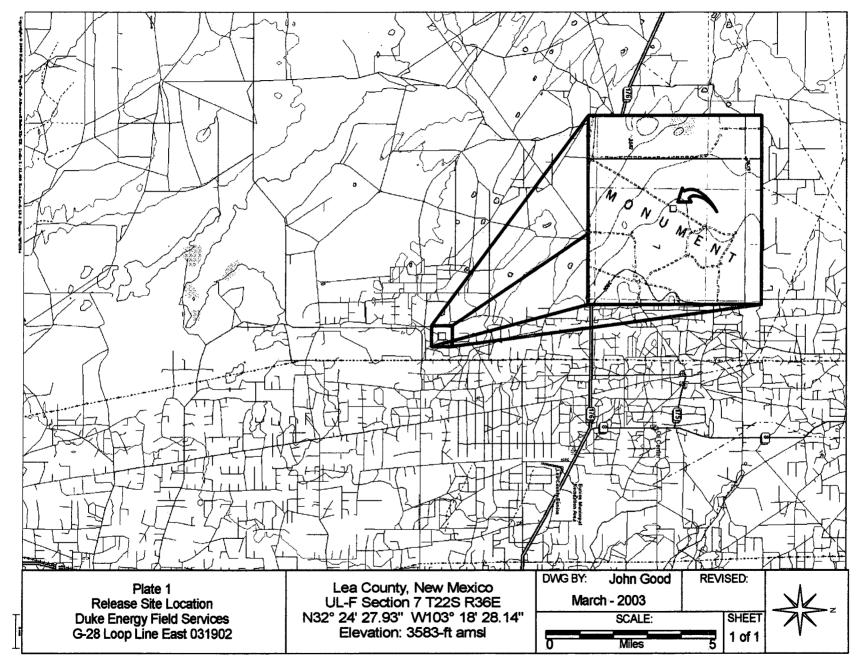


Plate 1: Site Location Map

DEFS G-28 Loop Line East 031902

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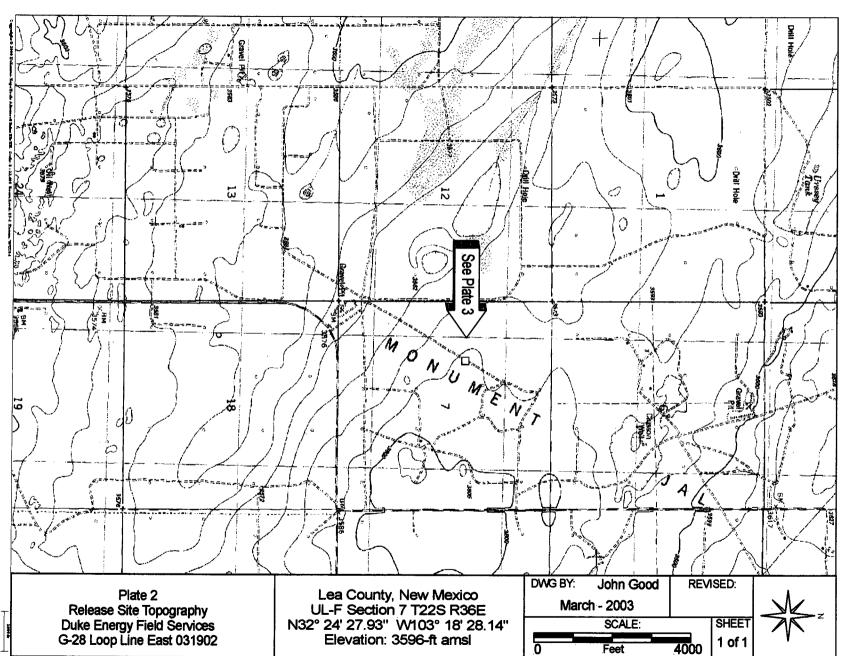


Plate 2: Site Topography Map

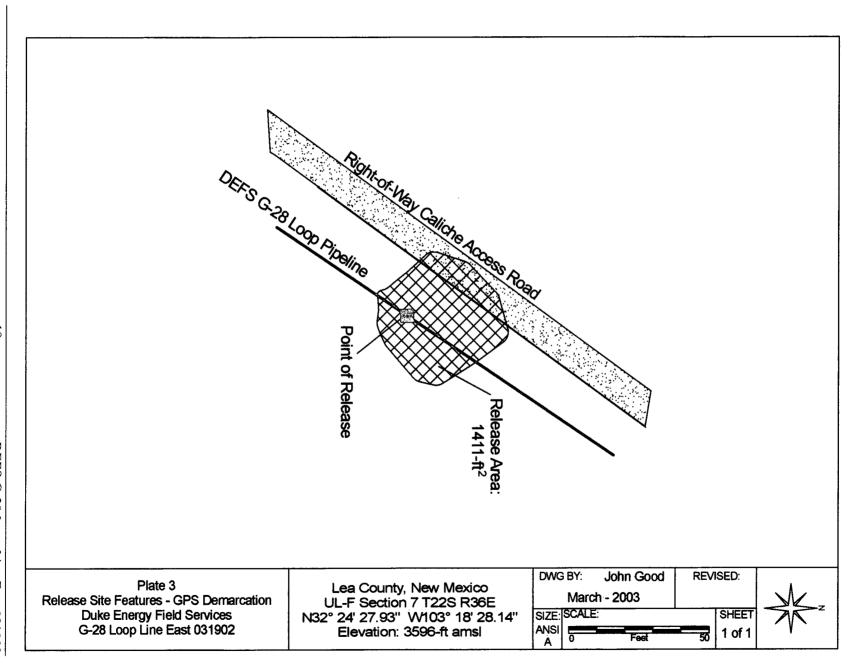


Plate 3: GPS Demarcation with Site Features

Plate 4 - Soil Analytical Data and Associated Bar Charts

			2000 11100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										
	Duke Energy Field Services - G28 Loop Line East 031902 - Excavation Sampling Results													
Bold	Bold highlighted cells indicate values in excess of the NMOCD remedial action guideline thresholds: TPH = 5000 mg/Kg; Benzene = 10 mg/Kg; BTEX = 50 mg/Kg; CI = 250 mg/Kg; SO4 = 600 mg/Kg													
Sample Excavation Date Sampling Area	Depth	SAMPLE ID#	VOC2	GRO ³	DRO⁴	TPH ⁵	BTEX ⁶	Benzene	Toluene	Ethyl Benzene	Total Xylenes	р	SO₄⁼	
Date	Sampling Area	(ft - bgs ¹)		ppm	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
9-Apr	East BottomHole	15-R	SDG28E4802EBH		10	10	20	0.030	0.005	0.005	0.005	0.015	80.0	
9-Apr	West BottomHole	15-ft	SDG28E4802W8H		10	10	20	0.030	0.005	0.005	0.005	0.015	64.0	
9-Apr	North SideWall	10-ft	SDG28E4802NSW		10	10	20	0.030	0.005	0.005	0.005	0.015	80.0	
9-Apr	West SideWall	10-ft	SDG28E4802WSW		10	10	20	0.030	0.005	0.005	0.005	0.015	80.0	
9-Apr	South SideWall	10-ft	SDG28E4802SSW		10	24	34	0.030	0.005	0.005	0.005	0.015	64.0	
9-Apr	East SideWall	10-ft	SDG28E4802ESW		10	10	20	0.030	0.005	0.005	0.005	0.015	32.0	

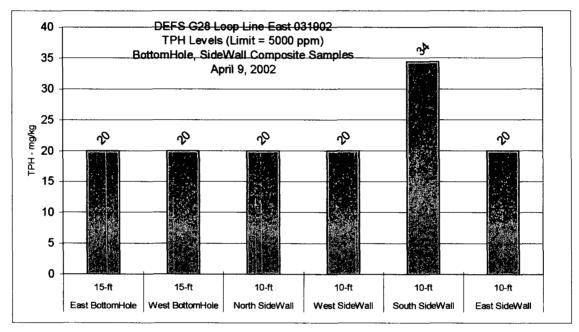
bgs = below ground surface 2 VOC = Volatile Organic Constituents; (note: 100 ppm Isobutylene calibration gas = 101 ppm)

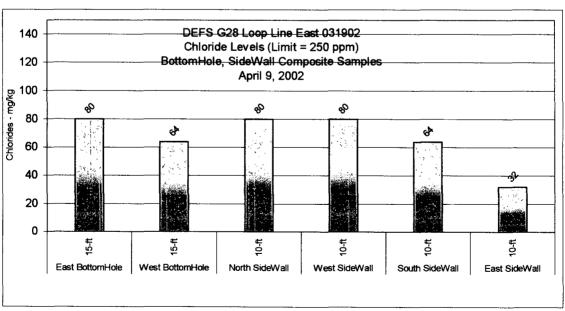
³ GRO - Gasoline Range Organics (Detection Limit = 10 mg/Kg)

⁴ DRO - Diesel Range Organics (Detection Limit = 10 mg/Kg)

⁵ TPH - Total Petroleum Hydrocarbon (GRO+DRO)

BITEX = Sum of CoC's (Detection Limits = 0.005 mg/Kg; 0.015 mg/Kg) Note: Reported detection limits are considered "de minimus" values and are included in the TPH and BTEX summations.





Lab Analyses Reports and Chain-of-Custody Froms



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

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: PAT McCASLAND

P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 04/09/02
Reporting Date: 04/11/02
Project Owner: DUKE

Project Owner: DUKE

Project Name: G28 EAST

Project Location: NOT GIVEN

Sampling Date: 04/09/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH Analyzed By: BC/AH

ANALYSIS	DATE	04/10/02	04/10/02	04/10/02
H6665-1	SDG28E4802EBH	<10.0	<10.0	80
H6665-2	SDG28E4802WBH	<10.0	<10.0	64
H6665-3	SDG28E4802NSW	<10.0	<10.0	80
H6665-4	SDG28E4802WSW	<10.0	<10.0	. 80
H6665-5	SDG28E4802SSW	<10.0	24.4	64
H6665-6	SDG28E4802ESW	<10.0	<10.0	32
Quality Cor	itrol	743	793	1040
True Value	QC	800	800	1000
% Recover	у	92.8	99.1	104
Relative Pe	rcent Difference	2.9	4.9	0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl⁻: Std. Methods 4500-Cl⁻B *Analyses performed on 1:4 w:v aqueous extracts.

Muself Ha Cool

Date

PLEASE NOTE: District and between Database Cardinal'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 claims, including those 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. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of 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.



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

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: PAT McCASLAND

P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 04/09/02 Reporting Date: 04/11/02

Project Owner: DUKE

Project Name: G28 EAST Project Location: NOT GIVEN

Sampling Date: 04/09/02 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DA	TE	04/10/02	04/10/02	04/10/02	04/10/02
H6665-1	SDG28E4802EBH	<0.005	<0.005	<0.005	<0.015
H6665-2	SDG28E4802WBH	<0.005	<0.005	<0.005	<0.015
H6665-3	SDG28E4802NSW	<0.005	<0.005	<0.005	<0.015
H6665-4	SDG28E4802WSW	<0.005	<0.005	<0.005	<0.015
H6665-5	SDG28E4802SSW	<0.005	<0.005	<0.005	<0.015
H6665-6	SDG28E4802ESW	<0.005	<0.005	<0.005	<0.015
Quality Control		0.105	0.108	0.109	0.311
True Value QC		0.100	0.100	0.100	0.300
% Recovery		105	108	109	104
Relative Perce	nt Difference	5.4	8.0	4.7	3.8

METHOD: EPA SW-846 8260

nist / /

Date

Cardinal Laboratories Inc.

2111 Beechwood, Abilene, TX 79603 915-673-7001 Fax 915-673-7020 101 East Marland, Hobbs, NM 88240 505-393-2326 Fax 505-393-2476

Company	Name Environmental Plu	ıs Iı	nc.													Analysis Request						-			
Project Ma	· · · · · · · · · · · · · · · · · · ·							1 \$40000		Che ne c										Ť					
Address	PO Box 1558					1																			
City, State,	Zip Eunice, NM																								
Phone#/Fa	ax# 505-394-2870/505-	394	-260)1]	Env	iron	ıme	ntal	Plu	s Inc.										İ		
Project #/0	Owner Duke														İ										
Project Na	me G28 East															Σ	8021B								
Project Loc															ច	8015	802								
Sampler N	ame CODY MILLER														ľ		втех		Ì					Ì	
		<u>ت</u>				MA	TRIX			PI	RESER	V.	SAMI	LING	<u> </u>					. 1					
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	ОТНЕК	DATE	ТІМЕ											
	SDG28E4802EBH	U	1			X					Χ		4/9/02	740	X				L						
-2	SDG28E4802WBH	U	1			X					X		4/9/02	750	Х									\dashv	
-3	SDG28E4802NSW	C	1			X					X		4/9/02	800	X		-							\dashv	
	SDG28E4802WSW	C	1			X					X		4/9/02	810	X	_	Χ							_	
	SDG28E4802SSW	C	1	<u> </u>		X					X		4/9/02	820	X		Χ						_		
- lo	SDG28E4802ESW	C	1			X					X		4/9/02	830	X	Χ	Χ		<u> </u>	ļ		_			
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contribute reconstructions	Pate 4/9/1 Received By:	Fax Results To Pat McCasland 505-394-2601
Code Mille	Time	REMARKS:
Relinguished by:	Received By: (lab staft)	
	TI: On I MIN ITU	
Delivered by Sampler	Sample Sod & Intact Checked By:	
Derivered by Sampier	(Yes No V	

District I

1625 N. French Dr., Hobbs, NM 88240

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**

Form C-141

Revised March 17, 1999

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

	C	PERATO	R			☐ Initial Report	☑ Final Report					
Name of Cor	npany				Contact							
DUKE ENE	RGY FIELD	SERVICES			Paul Mulkey							
Address		•			Telephone No.							
11525 W. Ca	arlsbad Hwy.		Hobbs, N	IM 88240	505-397-5716							
Facility Nam					Facility Type	<u> </u>						
G-28 Loop I					1 , ,,	Gathering Pipeline	•					
F				<u></u>	[
Surface Own	er			Mineral Owr	ier		Lease No.					
State of New	Mexico			NA			NA					
			LC		OF RELEA	ASE	1					
Unit Letter	Section	Township	Range	Feet from	Feet from	Longitude	Latitude	County:				
_		-	Ū	South Line	West Line	_		_				
F	7	22S	36E	3156	1468	W103° 18' 28.11"	N32° 24' 27.93"	Lea				
	•	·	N	ATURE O	F RELEAS	SE						
Type of Rele	ase				Volume of R	elease	Volume Recovered					
Natural Gas	release and	associated lie	quid compon	ents	5-25	bbl	0	bbl				
Source of Re	lease				Date and Ho	ur of Occurrence	Date and Hour of Di	scovery				
Steel Pipelin	ie - Natural g	as gathering			Unknown		3/19/02					
Was Immedi	ate Notice Gi	ven?			If YES, To V	Vhom?						
	□ Yes	☑ No	□ Not R	equired	NA							
By Whom?					Date and Hour							
NA W	·	10			If YES, Volume Impacting the Watercourse.							
Was a Water	rcourse Reach		- N			me impacting the W	atercourse.	j				
If a Watanaa	urse was Impa	☐ Yes	☑ No		NA	u						
NA	urse was impa	icied, Descri	e rully.									
IVA												
Describe Car	use of Probler	n and Remedi	al Action Tal	cen *								
Historical le	ak caused by	internal pip	eline corrosi	on. Pipeline	repaired by I	DEFS.						
Describe Are	ea Affected an	d Cleanun Ac	tion Taken *									
		-			ested soil (47	2 rid ³ \ abovo nomod	ial goals excavated a					
	by EPI. Exca					z-yu) above remeu	iai goais excavateu i	ing				
disposed of	by 131 1. 134ca	wadon was b	ackinica wit	n cican mate	1 141.							
I hereby certif	y that the inform	nation given ab	ove is true and	complete to the	e best of my k	nowledge and understa	nd that pursuant to NM	OCD rules and				
							for releases which may					
							ieve the operator of habi					
							er, surface water, human compliance with any other					
	nd/or regulation			port does not re	novo dia opoliti	or or responsibility for v	compliance with any our	a loudal, state,				
	<i>.</i> //	20-1			T	OIL CONSERVA	ATION DIVISION					
Signature:		11/	kus	_		OIL CONSERVA	ATTOM DIVISION					
D: A INI												
Printed Nam	e:	Paul Mulkey	y		Approved by	District Supervisor:						
Title:	Maintena	o/Constant	m Cum									
1 IUC.	MINITERIANC	e/Constructio	лı Superviso	·	Approval Da	te:	Expiration Date:					
Date:	3/31/03	Phone:	505-39	07-5716	Conditions o	f Approval:		Attached .				
Attach Addit	ional Sheets I	f Necessary	***************************************									

Duke Energy	Incident Da	ate and NMOCD Notified	d?	
🕝 Field Services	3/19	/02 NA	1	
SITE: G-28 Loop Line East	•	Assigned Site	Reference	#031902
	ERGY FIELD	SERVICES		
	Highway 80			
	Carlsbad Hw			
City, State, Zip: Hobbs, N		· · · · · · · · · · · · · · · · · · ·		
Representative: Paul Mulk				
Representative Telephone: 505-397-5	716			
Telephone:				
Fluid volume released (bbls): 5-25	Recovere	ed (bbls): 0		
>25 bbls: No	tify NMOCD ver	bally within 24 hrs and submit for	rm C-141 within	15 days.
5-25 bbls: Submit form C	-141 within 15 da	ays (Also applies to unauthorized	releases of 50-	500 mcf Natural Gas)
Leak, Spill, or Pit (LSP) Name:	#031902			
Source of contamination:	Steel Pipeli	ine - Natural gas gatherin	ng .	
Land Owner, i.e., BLM, ST, Fee, Other:		w Mexico Commissione		Santa Fe, NM
LSP Dimensions:	50' x 50' (G	PS Site Diagram attache	ed)	
LSP Area:	1,411	-ft ²		
Location of Reference Point (RP):	· · · · ·			
Location distance and direction from RP:				
Latitude:	N32° 24' 27	7.93"		
Longitude:	W103° 18'	28.11"		
Elevation above mean sea level:	3596	-ft amsl		
Feet from South Section Line:	3156			
Feet from West Section Line:	1468			
Location - Unit and 1/4 1/4: UL-	F	SE 1/4 of NW	/ 1/4	
Location - Section:	7			
Location - Township:	22S			
Location - Range:	36E			
Surface water body within 1000' radius of S	te:	0		
Surface water body within 1000' radius of S	te:	0		
Domestic water wells within 1000' radius of	Site:	0		
Domestic water wells within 1000' radius of	Site:	0		
Agricultural water wells within 1000' radius of	of Site:	0		
Agricultural water wells within 1000' radius of	of Site:	0		
Public water supply wells within 1000' radius	of Site:	0		
Public water supply wells within 1000' radius	of Site:	0		
Depth (ft) from land surface to ground water	· (DG):	195		
Depth (ft) of contamination (DC):		15		
Depth (ft) to ground water (DG - DC = DtGV	V):	180		
1. Ground Water		head Protection Area	3.	Distance to Surface Water Body
If Depth to GW <50 feet: 20 points		om water source, or,	<200 horiz	ontal feet: 20 points
If Depth to GW 50 to 99 feet: 10 points	<200' from source: 20	private domestic water		norizontal feet: 10 points
		om water source, or,	200-1001	ionzoniai reet. To points
If Depth to GW >100 feet: 0 points		private domestic water	>1000 hori	zontal feet: 0 points
	source: 0 p	points		
Ground water Score: 0	Wellhead i	Protection Area Scor 0	Surface W	later Score: 0
Site Rank (1+2+3) = 0				
Total \$	Site Ranking	Score and Acceptable	Concentra	
Parameter 20 or >		10		0
Benzene ¹ 10 ppm		10 ppm		10 ppm
BTEX ¹ 50 ppm		50 ppm		50 ppm
TPH 100 ppm	•	1000 ppm		5000 ppm
100 ppm field VOC headspace measureme	ent may be s	ubstituted for lab analysis	S	

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised March 17, 1999

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

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

		Kel	ease Noti	incation a	and Corr	ective Action		
		OPERATO	R			☐ Initial Report	☑ Final Report	
Name of Con	npany			· · · · · · · · · · · · · · · · · · ·	Contact			
DUKE ENE	RGY FIELD	SERVICES	į.		Paul Mulkey	7		
Address					Telephone No	0.		
11525 W. Ca	arlsbad Hwy	·	Hobbs, N	NM 88240	505-397-571			
Facility Name	e				Facility Type			
G-28 Loop I	ine East				Natural Gas	Gathering Pipeline	è	
Surface Own				Mineral Ow	war.		Lease No.	
					liei			
State of New	Mexico			NA CASTA			NA	
					OF RELEA			
Unit Letter	Section	Township	Range	Feet from	Feet from	Longitude	Latitude	County:
F	7	22S	36E	South Line 3156	1	W103° 18' 28.11"	N32° 24' 27.93"	Lea
		L	<u> </u>		1468 OF RELEAS	<u> </u>	<u>L</u>	<u></u>
Type of Relea	956	_		MIURE	Volume of R		Volume Recovered	
* *		associated lic	auid compon	ents	5-25		i	bbl
Source of Re		######################################	Toro semper.	PERO		ur of Occurrence	Date and Hour of Di	
		gas gathering	Į.		Unknown		3/19/02	
	ate Notice Giv		 		If YES, To W	Vhom?	######################################	
	□ Yes	☑ No	□ Not Re	equired	NA			
By Whom?					Date and Ho	ur		
NA		,			NA	····	3456	780
Was a Water	course Reach		_			me Impacting the W	atercourse. 1	7897077
		□ Yes	No No	P	NA		<u></u>	
	ırse was Impa	acted, Describ	e Fully.				/o APR	nna T
NA							29 APR	2003
Describe Car	es of Probler	m and Remedi	iol Action Tal	kon *				+ €0
					repaired by D	TEES	Con Hobb OCD	2
Alistoi somi so	ak tausee es	mount hely	Cities torross	Mi Tiboum.	chance of -	ef ix	(c')	. જે 🖊
Describe Are	a Affected ar	nd Cleanup A	ction Taken.*	*			222324	17020
1411-ft ² sur	face area RC	CRA Exempt	Non-hazard	ous contamir	nated soil (472	2-vd³) above remedi	ial goals excavated a	and disposed
		as backfilled				· ,	— B -—	
-								
							nd that pursuant to NM	
							tions for releases which loes not relieve the open	
							und water, surface water	
							sibility for compliance	
		nd/or regulations		• •				······································
Cionotura	10	Phas			T	OIL CONSERVA	ATION DIVISION	
Signature:	Tank	1/2	lkens					
Printed Name	e.	Paul Mulke			7			
			, 		Approved by	District Supervisor:		
Title:	Maintenanc	ce/Construction	on Superviso	r	Approval Da	ite:	Expiration Date:	
Date:	4/2/03	Phone:	505-39	97-5716	Conditions of	of Approval.		Attached .