



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,

ohn the

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

Table of Contents

Executive Summa	ury	2
Introduct	on	2
Backgrou	nd	2
Site Desc	ription	3
.1 0	eological Description	3
.2 E	cological Description	3
.3 A	rea Ground Water	3
.4 A	rea Water Wells	3
.5 A	rea Surface Water Features	3
NMOCD	Site Ranking	3
Subsurfa	e Soil Investigation	4
Ground V	Vater Investigation	4
Remediat	ion	5
Closure J	ustification	5
ATTACHMEN	<u>ns</u>	. 7-14
Plate 1: Site Loca	tion Map	8
Plate 2: Site Topo	graphy Map	9
Plate 3: GPS Den	narcation with Site Features	10
Plate 4: Soil Ana	ytical Data and Associated Bar Charts	11
Lab Analyses Re	ports and Chain-of-Custody Forms	. 12
Final NMOCD C	-141 Form	13
Site Information	and Metrics Form	. 14

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, (SE¹/₄ of the NW¹/₄), Section 07, T22S. (N32°24'27.93" **R**36E. and W103°18'28.11"). The spill occurred on property owned by the State of New Mexico. The surface extent of the reported spill was $1,411-ft^2$ approximately (see Plate 3 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 line 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 $\sim 1,411$ -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 \sim 8.9-miles westsouthwest (257.6°) of Eunice, NM, in Unit Letter F, (SE¹/₄ of the NW¹/₄), 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

<u>The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and</u> <u>Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A.</u> <u>Clebsch, 1961</u>, 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 Oak (Quergus 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 195ft 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)
- <u>Unlined Surface Impoundment Closure Guidelines (February 1993)</u>

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. Grou	und Water	2. Wellhead	Protection Area	3. Dis	tance to Surface Water
	GW <50 feet: points	<200' from priv	water source, or; vate domestic water e: 20 points	<200 ho	rizontal feet: 20 points
•	V 50 to 99 feet: points			200-100	0 horizontal feet: 10 points
•	W >100 feet: points	>200' from priv	n water source, or; vate domestic water e: <i>0 point</i> s	>1000 h	orizontal feet: <i>0 points</i>
Ground Wa	ater Score = 0	Wellhead Pro	otection Score= 0	Surfa	ace Water Score= 0
	Site Ran	ik (1+2+3) = 0 + 0	+ 0 = 0 points (for	soil 0-95't	ogs)
	Total Site Rank	king Score and A	cceptable Remedial C	Goal Conc	entrations
Parameter	20	or >	10		0
Benzene ¹	10	opm	10 ppm		10 ppm
BTEX	50	opm	50 ppm		50 ppm
TPH 100 ppm			1000 ppm		5000 ppm
	100 ppm field	VOC headspace me	easurement may be subst	ituted for la	b 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





Plate 1: Site Location Map

Duke Energy Field Services

œ

DEFS G-28 Loop Line East 031902



Plate 2: Site Topography Map

Duke Energy Field Services

9

DEFS G-28 Loop Line East 031902



Duke Energy Field Services

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 Date	Excavation Sampling Area	Depth	SAMPLE ID#	VOC ²	GRO ³	DRO ⁴	трн⁵	BTEX ⁶	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Cr	SO₄⁼
		(ft - bgs')		ppm	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/K
9-Apr	East BottomHole	15-ft	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	1	10	10	20	0.030	0.005	0.005	0.005	0.015	80.0	
9-Apr	West SideWall	10-ft	SDG28E4802WSW	T	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	

Diato A Soil Analytical Data and Associated Rar Charts

BTEX = 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-Orstody Roms



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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/AH

		GRO	DRO	
		(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	Cl*
LAB NUMB	ER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
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 Con	trol	743	793	1040
True Value	QC	800	800	1000
% Recovery	1	92.8	99.1	104
Relative Pe	rcent Difference	2.9	4.9	0

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

PLEASE NOTE Display and Damages. 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 medigence 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 (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

				ETHYL	TOTAL
		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DA	TC	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

11/02 Date

PLEASE NOTE: Liability 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 claims, including those for negigence and any other cause whatsoewer 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. H6665B.XLS

5 f	nal Laboratories	In	с.			101	Ea	-+ \ /	[onla	nd	Чо	hbc	NIM	22340						_		-		-		
	01 Fax 915-673-7020						01 East Marland, Hobbs, NM 88240 505-393-2326 Fax 505-393-2476																			
Company 1	Name Environmental Plu	ıs Ir	nc.			Bill Tourse					Analysis Request															
Project Manager Pat McCasland																										
Address	PO Box 1558																									
City, State, Zip Eunice, NM																										
Phone#/Fax# 505-394-2870/505-394-2601]	Env	iror	me	ntal	Plu	s Inc.															
Project #/Owner Duke																							•			
Project Name G28 East																S	8021B									
Project Location						•									ច	8015	802									
Sampler N	ame CODY MILLER											Ŭ	TPH 8	BTEX	l							Ì				
		IP.				MA	TRIX			PI	RESER	RV.	SAM	PLING		Ħ	B	l								
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME												
H Lelole5-1	SDG28E4802EBH	С	1			X			-		X		4/9/02	740	Х	Χ	Χ									
-2	SDG28E4802WBH	С	1			X					X		4/9/02	750	Χ	Χ	Χ									
-3	SDG28E4802NSW	С	1			Χ					X		4/9/02	800	X	X	Х									
-4	SDG28E4802WSW	С	1			X					X		4/9/02	810	X	X	Χ									
	SDG28E4802SSW	С	1			X					X		4/9/02	820	X	X	X									
-6	SDG28E4802ESW	С	1			X					X		4/9/02	830	X	X	X		L	<u> </u>	ļ					
																		<u> </u>	L	<u> </u>	 	\vdash				
												·						<u> </u>	<u> </u>		<u> </u>	┟──┤				-
																			 		ļ	┟──┤				
																-										

i state state and

	Date 4/9/1) Received By:	Fax Results To Pat McCasland 505-394-2601
Cody Mille	Time	REMARKS:
Relinquished by:	Pate A/A By: (lab staff)	
	TT: TO I MUN FUL	
Delivered by Sampler	Sample Cod & Intag	
Derivered by Sampler	(Yes) No ^V	

	<u> </u>						Duke Energy Fi	eld Servic				
Distance I								Earn C 141				
District I				State of	New Mex	tico		Form C-141				
1625 N. French	Dr., Hobbs, N	M 88240	Energy	Minerals	and Natur	al Resources	Revised N	March 17, 1999				
District II												
1301 W. Grand	Avenue, Artes	ia, NM 88210		<u></u>			Sub-site 2 Constant					
District III		37.67.410			rvation Div		Submit 2 Copies					
1000 Rio Brazo	s Road, Aztec,	NM 8/410			h St. Franci			e in accordance				
District IV				Santa I	Fe, NM 875	05	with Rul	le 116 on back				
1220 S. St. Fra	ncis Dr., Santa							side of form				
		Rel	ease Noti	ification a	and Corr	ective Action						
		DPERATO	R			Initial Report	Final Report					
Name of Con	npany				Contact							
DUKE ENE	RGY FIELI) SERVICES			Paul Mulkey							
Address					Telephone N	0.						
11525 W. Carlsbad Hwy. Hobbs, NM 88240 505-397-5716												
Facility Nam	e				Facility Type	,						
G-28 Loop Line East Natural Gas Gathering Pipeline												
Surface Own	er			Mineral Own	ner		Lease No.					
State of New	Mexico			NA			NA					
			L	DCATION	OF RELEA	ASE						
Unit Letter	Section	Township	Range	Feet from	Feet from	Longitude	Latitude	County:				
F	7	228	36E	South Line	West Line	W103º 18' 28.11"	N32° 24' 27.93''	Lea				
L.	,	A 40		3156	1468		1132 24 27.33	Lea				
NATURE OF RELEASE												
Type of Rele					Volume of R		Volume Recovered					
		associated lic	uid compon	ents	5-25			bbl				
Source of Re						ur of Occurrence	Date and Hour of Di	scovery				
Steel Pipelin Was Immedia		gas gathering		· · · ····	Unknown	111 O	3/19/02					
was immedia	□ Yes	ven? ☑ No	D Not R	aminad	If YES, To V	vnom?						
By Whom?				equired	NA Date and Ho							
NA					NA	u						
Was a Water	course Reach	ned?				me Impacting the W	atercourse	· · · · · ·				
		□ Yes	☑ No		NA	ine impreang the fi						
If a Watercon	urse was Imp	acted, Describ			L		• • •					
NA	•	-	•									
Describe Cau	use of Problem	m and Remedi	al Action Tal	ken.*								
Historical le	ak caused by	y internal pip	eline corrosi	ion. Pipeline	repaired by I	DEFS.						
Describe Are	a Affected ar	nd Cleanup Ac	tion Taken.*	:								
1411-ft ² sur	face area R	CRA Exempt	Non-hazard	lous contamii	nated soil (47	2-yd ³) above remed	ial goals excavated a	and				
		avation was b				•	U					
T harshy and f				1 1	1		1.0					
				-	-	-	nd that pursuant to NM for releases which may					
					-		ieve the operator of liabi	• •				
operations hav	e failed to ade	quately investig	ate and remed	iate contaminat	ion that pose a	threat to ground wate	er, surface water, human	n health or the				
			e of a C-141 re	port does not r	elieve the operat	tor of responsibility for	compliance with any othe	π federal, state,				
or local laws at	nd/or regulation	18.										

Signature	Paul!	Male	Sent	OIL COM	SERVATION DIVISIO	N			
Printed Na	ame: I	Paul Mulkey		Approved by District Supervisor:					
Title:	Maintenance/	Construction	Supervisor	Approval Date:	Expiration Date:				
Date:	3/31/03	Phone:	505-39 7-5716	Conditions of Approval:		Attached .			
Attach Ad	ditional Sheets If	Nagagag							

h Additional Sheets If Necessary

		Incident Da	ate and NMOCD Notified	17	
G Field S	Servičés	3/19/	/02 NA		40. K. 10. 10.
SITE: G-28 Loop L	ine East	· ·	Assigned Site	Reference	#031902
Company:	DUKE ENE	RGY FIELD	SERVICES		
Street Address:	5805 East I	lighway 80			
Mailing Address:	11525 W. C	arlsbad Hw	y.		
City, State, Zip:	Hobbs, NM	88240		<u> </u>	
Representative:	Paul Mulke	f			
Representative Telepho	one: 505-397-57	16			
Telephone:					
Fluid volume released	(bbls): 5-25	Recovere	d (bbls): 0		
	>25 bbls: Noti	ty NMOCD vert	pally within 24 hrs and submit for	m C-141 within	15 days.
			ays (Also applies to unauthorized	releases of 50-	500 mcf Natural Gas)
eak, Spill, or Pit (LSP		#031902			
Source of contaminatio			ne - Natural gas gatherin		
Land Owner, i.e., BLM,			w Mexico Commissione		Santa Fe, NM
_SP Dimensions:			PS Site Diagram attache	d)	
SP Area:		1,411	-ft ²		
ocation of Reference			· · · · · · · · · · · · · · · · · · ·		
ocation distance and o	lirection from RP:				
_atitude:		N32° 24' 27	[.] .93"		
ongitude:		W103° 18' :	28.11"		
Elevation above mean	sea level:	3596	-ft amsl		
Feet from South Section	n Line:	3156			
eet from West Section	n Line:	1468			
ocation - Unit and 1/4	1/4: UL-	<u>F</u>	SE 1/4 of NW	1/4	
ocation - Section:		7			
Location - Township:		22S			
Location - Range:		36E	· · · · · ·		
Surface water body wit	hin 1000' radius of Site	ə:	0		
Surface water body wit	hin 1000' radius of Site	Ð:	0		
Domestic water wells w	ithin 1000' radius of S	ite:	0		
Domestic water wells w	ithin 1000' radius of S	ite:	0	······	
Agricultural water wells	within 1000' radius of	Site:	0		
Agricultural water wells	within 1000' radius of	Site:	0		
Public water supply we	lls within 1000' radius	of Site:	0		
Public water supply we	lls within 1000' radius	of Site:	0		
Depth (ft) from land su	rface to ground water	(DG):	195		
Depth (ft) of contamina	tion (DC):		15		
Depth (ft) to ground wa	ter (DG - DC = DtGW):	180		
1. Groun	d Water		nead Protection Area	3.	Distance to Surface Water Body
f Depth to GW <50 fee	et: 20 points		om water source, or, private domestic water	<200 horiz	ontal feet: 20 points
f Depth to GW 50 to 9	9 feet: 10 points	source: 20		200-100 1	norizontal feet: 10 points
		lf >1000' fr	om water source, or,		
If Depth to GW >100 fo	9907: U points	>200' from source: 0 p	private domestic water oints	>1000 hori	zontal feet: 0 points
Ground water Score:	0	Wellhead F	Protection Area Scor 0	Surface W	later Score: 0
Site Rank (1+2+3) =	0				
	Total Si	te Ranking	Score and Acceptable	Concentrat	tions
Parameter	20 or >		10		0
Benzene ¹	10 ppm		10 ppm		10 ppm
BTEX ¹	50 ppm		50 ppm		50 ppm
ТРН	100 ppm		1000 ppm		5000 ppm

ľ

District I	

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico **Energy Minerals and Natural Resources**

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

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

Attached

Release Notification and Corrective Action

OPERATOR					Initial Report Final Report				
Name of Company					Contact				
DUKE ENERGY FIELD SERVICES					Paul Mulkey				
Address					Telephone No.				
11525 W. Carlsbad Hwy. Hobbs, NM 88240					505-397-5716				
Facility Name					Facility Type				
G-28 Loop Line East					Natural Gas Gathering Pipeline				
					·····				
Surface Owner Mineral Own					ner Lease No.				
State of New Mexico NA					NA				
······	,				OF RELEASE				
Unit Letter	Section	Township	Range	Feet from	Feet from	Longitude	Latitude	County:	
F	7	228	36E	South Line		W103º 18' 28.11"	N32º 24' 27.93"	Lea	
		L		3156	1468				
NATURE OF RELEASE									
Type of Release					Volume of R		Volume Recovered		
Natural Gas release and associated liquid components					5-25	bbl ur of Occurrence	0 bbl Date and Hour of Discovery		
Source of Release					Unknown	ur of Occurrence	3/19/02		
Steel Pipeline - Natural gas gathering Was Immediate Notice Given?					If YES, To Whom?				
					NA				
					Date and Hour				
					NA 2456780				
					If YES, Volume Impacting the Watercourse, 70, 70, 70, 70, 70, 70, 70, 70, 70, 70				
	······	O Yes	D No		NA A Z				
If a Watercourse was Impacted, Describe Fully.*									
NA					R APR 2009				
Deceribe Car	an of Drobler	and Damad	al Astian Tak						
Describe Cause of Problem and Remedial Action Taken.* Historical leak caused by internal pipeline corrosion. Pipeline repaired by DEFS.									
Describe Cause of Problem and Remedial Action Taken.* Historical leak caused by internal pipeline corrosion. Pipeline repaired by DEFS.									
Describe Area Affected and Cleanup Action Taken.*									
1411-ft ² surface area RCRA Exempt Non-hazardous contaminated soil (472-yd ³) above remedial goals excavated and disposed									
of by EPL Excavation was backfilled with clean material.									
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:	Paul	17/	lken	~	OIL CONSERVATION DIVISION				
Printed Nam	e.	Paul Mulke			1				
					Approved by District Supervisor:				
Title:	Maintenanc	e/Constructio	on Superviso	r					
					Approval Da	ite:	Expiration Date:		

Phone:

505-397-5716

Conditions of Approval:

Date: