

DUKE ENERGY FIELD SERVICES 370 17th Street Suite 900 Denver, CO 80202

303 595 3331

July 1, 2004

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

#### RE: G-Extension-3 020104 {5} Release Site Closure Documentation Unit P, Section 31, T21S, R36E Lat: N 32° 26' 38.35" Long: W 103° 18' 57.08" Duke Energy Field Services, LP Lea County, NM

Mr. Johnson:

Enclosed please find for your review, one copy of the G-Extension-3 020104 {5} Release Site Closure Report. The closure report summarizes the remedial activities associated with the clean up of the Duke Energy Field Services, LP (DEFS) pipeline leak that was discovered on February 1, 2004.

Based on the information provided in the above referenced closure report, DEFS would like to request no further action for this location.

If you have any questions regarding the information provided in the closure report, please give me a call at 303-605-1718.

Sincerely

**Duke Energy Field Services, LP** 

Stephen Weathers, PG Sr. Environmental Specialist

cc: Paul Mulkey, DEFS Linam Ranch Lynn Ward, DEFS Midland Environmental Files



Enclosure

# **Duke Energy** Field Services

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

G-EXTENSION-3 RELEASE SITE DEFS REF: G-EXTENSION-3 020104 [5]

UL-P (SE<sup>4</sup> OF THE SE<sup>4</sup>) OF SECTION 30 T21S R36E ~8.2 MILES WEST OF EUNICE LEA COUNTY, NEW MEXICO

LATITUDE: N 32° 26' 38.85" LONGITUDE: W 103° 17' 57.08"

JUNE 15, 2004

**PREPARED BY:** 

#### Environmental Plus, Inc.

2100 Avenue O P.O. Box 1558 Eunice, NM 88231 Phone: (505)394-3481 FAX: (505)394-2601

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#### **Project Summary**

#### Site Specific:

- Company Name: Duke Energy Field Services
- Facility Name: G-Extension Natural Gas Gathering Pipeline
- **Project Reference** G-Extension [5] 020104
- Company Contacts: Paul Mulkey / Steve Weathers
- Site Location: WGS84 N32° 26' 38.85"; W103° 17' 57.08"
- Legal Description: Unit Letter P, (SE¼ of the SE¼), Section 30, T21S, R36E
- General Description: approximately 8.2-miles west of Eunice, New Mexico
- Elevation: 3,619-ft amsl Depth to Ground Water: >220-ft
- Land Ownership: DASCO Cattle Co. (Atlee Snyder)
- EPI Personnel: Technical Manager Pat McCasland Project Consultant – John Good

#### Site Foreman – Roger Boone

#### **Release Specific:**

- Product Released: Natural Gas & NGL
- Volume Released: 3-bbl reported
   Volume Recovered: 0-bbl
- Time of Occurrence: 01-Feb-04 Time of Discovery: 01-Feb-04
- **Release Source**: 12" steel NG pipeline; integrity lost due to internal corrosion; repaired by clamping with ultimate replacement of section.
- Initial Surface Area Affected: 333-ft<sup>2</sup>

#### Remediation Specific:

- Final Vertical extent of contamination: 5-ft bgs; Remaining depth to ground water: >200-ft
- Water wells within 1,000-ft: 0 Surface water bodies within 1,000-ft: 0
- NMOCD Site Ranking Index: 0 points (>100-ft to top of water table)
- Remedial goals for Soil: TPH 5,000 mg/kg; BTEX 50 mg/kg; Benzene 10 mg/kg; Chlorides 250 mg/kg; Sulfates 600 mg/kg
- RCRA Waste Classification: Exempt
- Remediation Option Selected: a) Excavation and disposal of contaminated soil above NMOCD remedial goals; b) field analyses to confirm removal of soil impacted of NMOCD remedial threshold of 100 ppm via PID; c) backfill with clean caliche and topsoil.
- Disposal Facility: South Monument Volume disposed of: 318-yd<sup>3</sup>
- Project Completion Date: February 4, 2004
- Additional Commentary: None

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#### **<u>1.0 Introduction & Background</u>**

This report addresses the site investigation and remediation of the Duke Energy Field Services (DEFS) "G-Extension-3 [5] 020104" 12-inch natural gas gathering line remediation site. On February 1, 2004, Environmental Plus, Inc. (EPI) was notified by DEFS regarding a recently discovered natural gas and associated natural gas liquid (NGL) release along the G-Extension-3 pipeline. This site is located approximately 0.7 mile north of the southern-most of the sites (#1) and was designated #5 for ease of identification. The initial C-141 Form submitted to the New Mexico Oil Conservation Division (NMOCD) on February 2, 2004, reports the release volume as threebarrels with zero-barrels recovered. EPI performed GPS surveying, photography and characterization of the site on February 1, 2004. The initial site consisted of an approximate 333 square feet (ft<sup>2</sup>) visibly affected surface area (*Reference Figure 3*). Remediation of this site consisted of excavation and disposal of 318 cubic yards (yds<sup>3</sup>) of contaminated soil from what was ultimately a 1,720-ft<sup>2</sup> excavation extending to 5-feet below ground surface (bgs). The contaminated soil was disposed of at the South Monument approved surface waste facility. The excavation bottom(s) and sidewalls were composite sampled on February 3, 2004 and analyzed in the field for the presence of organic vapors utilizing an UltraRae photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. The construction phase of the site remediation commenced on February 2, 2004 and was completed with backfilling and contouring on February 4, 2004.

The site is associated with the DEFS G-Extension-3 natural gas gathering pipeline. This release site is located in Unit Letter P, (SE<sup>1</sup>/<sub>4</sub> of the SE<sup>1</sup>/<sub>4</sub>), Section 30, T21S, R36E, N32° 26' 38.85" and W103° 17' 57.08". The site is approximately 8.2-miles west of Eunice, New Mexico. The property is owned by Atlee Snyder, d.b.a. DASCO Cattle Company *(reference Figures 1 through 3)*.

The natural gas and associated NGL release at this site was discovered on February 1, 2004. The Initial NMOCD C-141 Form was submitted to the Hobbs District Office on February 2, 2004. The release was less than four barrels, and as such, did not qualify as a mandatory reportable release. The Initial NMOCD C-141 Form was submitted for informational purposes only. The leak was the result of internal pipe corrosion. The pipeline was initially repaired with a temporary clamp and eventually replaced with poly pipeline by DEFS personnel.

#### 2.0 Site Description

#### 2.1 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 Plain physiographic subdivision, described by Nicholson & Clebsch as an area "underlain by a hard caliche surface and is almost entirely covered by reddish-brown dune sand". The thickness of the sand cover ranges from 2-5 feet in most areas to as much as 20-30 feet in drift areas.

#### 2.2 Ecological Description

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

#### 2.3 Area Ground Water

The unconfined groundwater aquifer at this site is projected to be >220-ft bgs based on limited water depth data obtained from the New Mexico State Engineers Office data base and information provided by the landowner. Ground water gradient in this area is generally to the east-southeast.

#### 2.4 Area Water Wells

All recorded wells are greater than 1,000 horizontal feet from the site.

#### 2.5 Area Surface Water Features

No surface water bodies exist within 1,000 horizontal feet of the site.

#### 3.0 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 groundwater 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 (CoC), i.e., TPH<sup>8015m</sup>, benzene, and the mass sum of benzene, toluene, ethylbenzene, and total xylenes (BTEX), were 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 groundwater 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. Ground W	ater	2. Wellhead Pro	otection Area	3. Distance to Surface Water		
Depth to GV points	V <50 feet: 20		water source, or; vate domestic water	<200 horizontal feet: 20 points		
Depth to GV 10 points	V 50 to 99 feet:	source: 20 poi		200-1000 horizontal feet: 10 points		
Depth to GV 0 points	V >100 feet:		water source, or; vate domestic water <i>ts</i>	>1000 horizontal feet: <i>0 points</i>		
Ground Water Score = 0		Wellhead Prote	ection Score= 0	Surface Water Score= 0		
Site Rank (1	+2+3) = 0 + 0 + 0	= 0 points (fo	or soil 0-120'-bgs)			
Total Site R	anking Score and	d Acceptable Re	medial Goal Concent	rations		
Parameter	20 or >		10	0		
Benzene <sup>1</sup>	10 ppm		10 ppm	10 ppm		
BTEX <sup>1</sup>	50 ppm		50 ppm	50 ppm		
ТРН	100 ppm		1000 ppm	5000 ppm		

A field soil vapor headspace measurement of 100 ppm may be substituted for a laboratory analysis of the benzene and BTEX concentration limits.

#### 4.0 Subsurface Soil Investigation

The vertical extent of hydrocarbon contamination at the site was determined with a test excavation of the release area associated with the point of release (POR) to a depth of 5-ft bgs on February 2, 2004. The lateral extent of contamination was determined with measurements of organic vapor concentrations as the excavation progressed outwardly from the POR. Organic vapor concentrations were measured in the field utilizing an UltraRae PID equipped with a 10.6 eV lamp.

Upon delineating the extents of impacted soil, composite soil samples were collected from the base and sidewalls of the excavation and analyzed in the field to verify remedial limits had been achieved. Organic vapor concentrations ranged from 17.5 to 52.1 ppm with an average concentration of 26.7 ppm (*reference Table 1*).

#### 5.0 Ground Water Investigation

The projected depth to ground water at this site is >220-ft bgs. Excavation of the site was to a maximum depth of five feet. Final field analyses for soil samples collected from the base of the excavation indicated organic vapor concentrations of <100 ppm (*reference Table 1*).

The excavation was backfilled with clean caliche and topsoil purchased from the property owner. Based on the removal of impacted soil below remedial goal concentrations (i.e., 100 ppm) and adequate depth to ground water, there is no need for further groundwater investigation at this site.

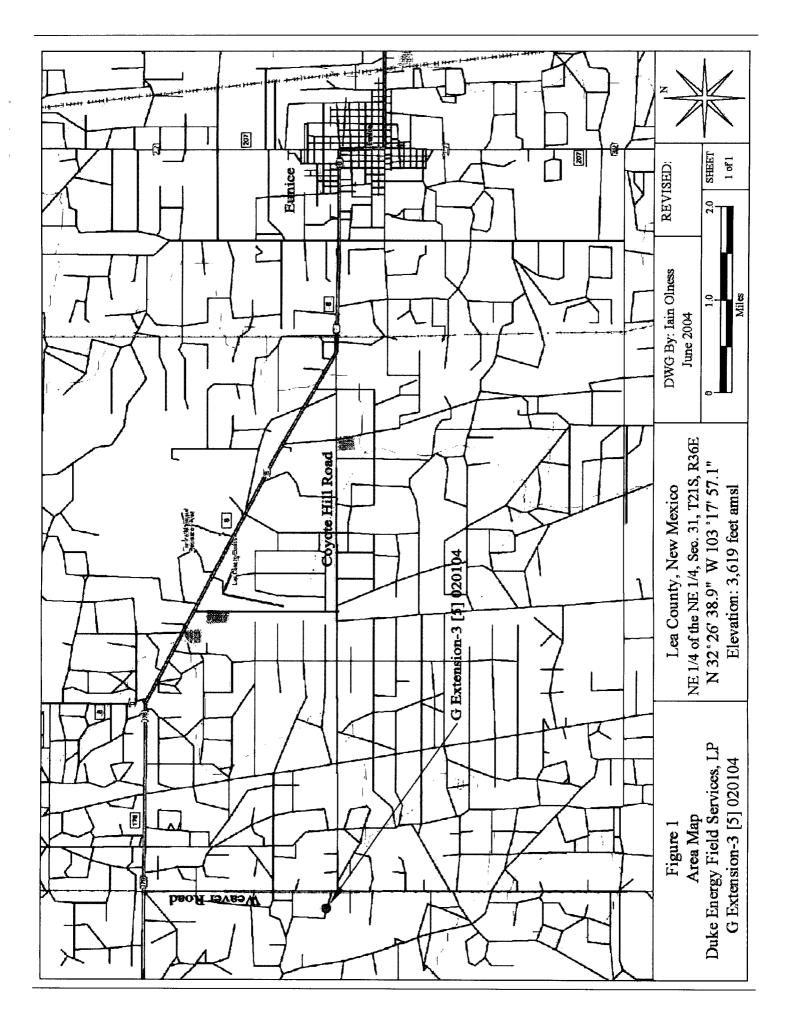
#### **6.0** Remediation Process

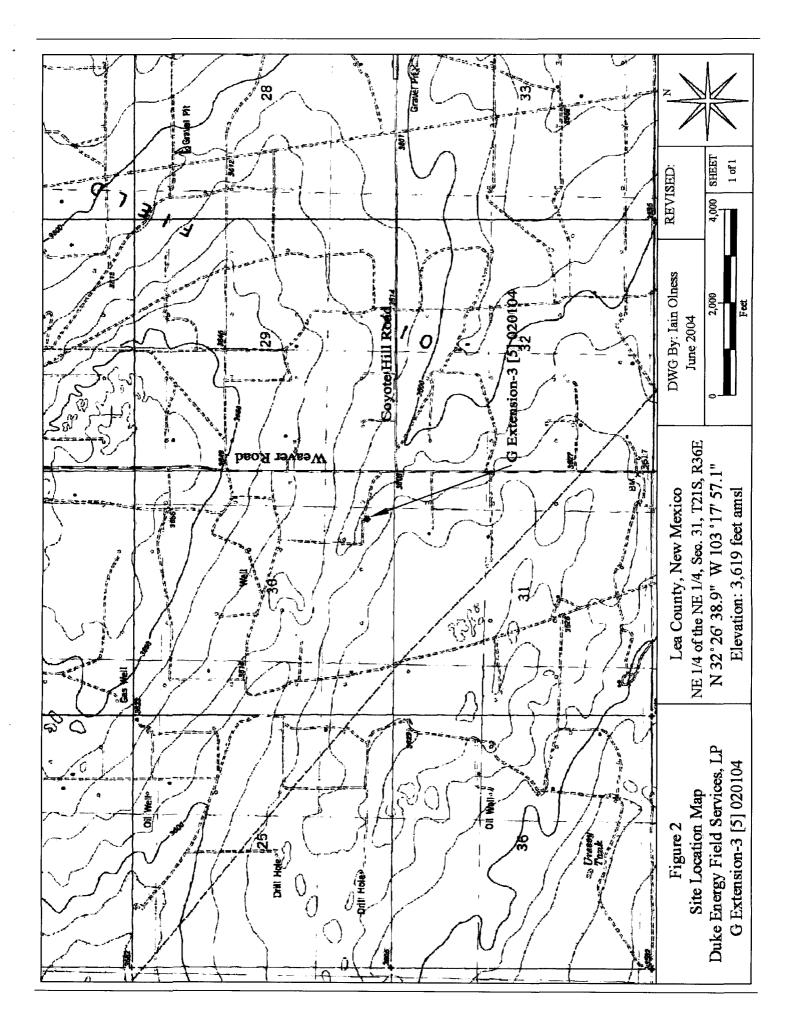
Remediation of the site commenced on February 2, 2004 and continued through February 4, 2004. Remedial activities at the site consisted of excavation and disposal of 318 yd<sup>3</sup> of NGL contaminated soil from the site. All contaminated soil removed from the site was disposed of in the NMOCD approved South Monument land farm located south of Monument, New Mexico. After field analyses of soil samples indicated remedial goals had been achieved (i.e., <100 ppm utilizing PID field analyses), the excavation was backfilled with clean caliche and topsoil purchased from the property owner. The backfilling and contouring of the site was completed on February 4, 2004.

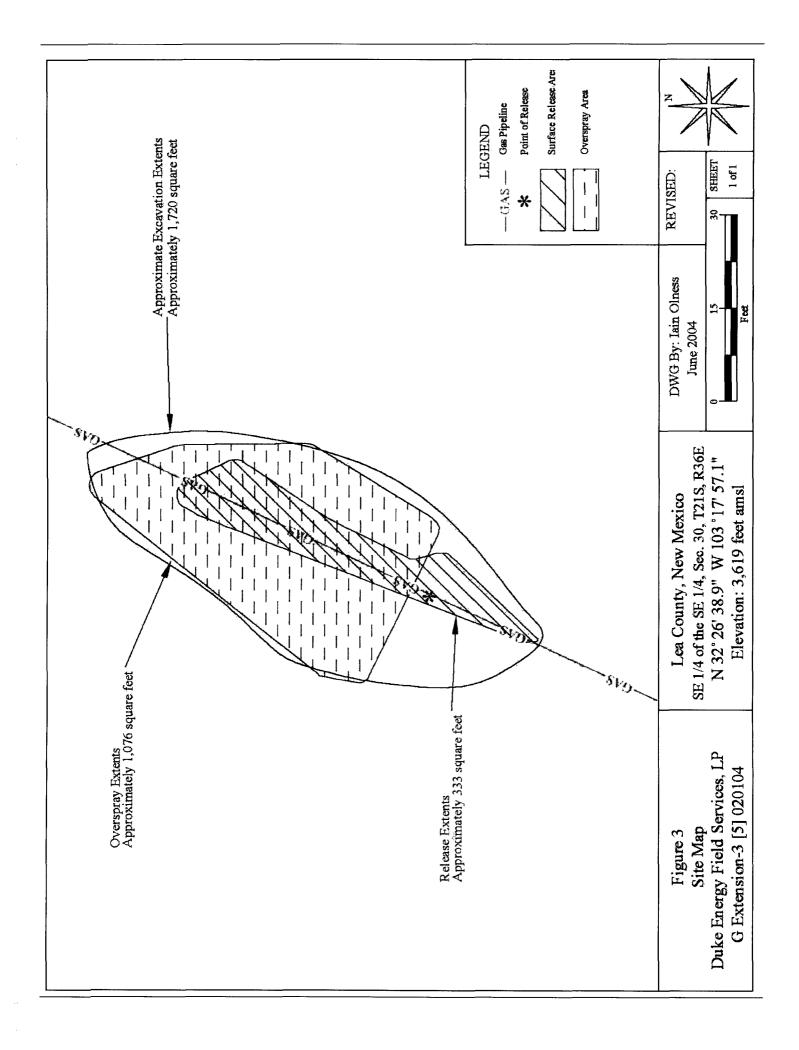
#### 7.0 Closure Justification

This report documents successful removal of impacted soil above the remedial threshold of 100 ppm for field vapor analyses for this release site. The impacted soil was excavated and removed from the location. Disposal of RCRA exempt contaminated soils was at the South Monument 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 and issue a *Site Closure Letter*.

**FIGURES** 







**TABLES** 

**TABLE 1** 

# Summary of Excavation Analytical Results

# G Extension-3 [5] - Ref #020104

			Field Analysis	Renzene	Toluena	Ethylkenzene	Total Vidence	Total DTEV	GKO	DKO	TDU
Sample ID	Sample Date	Sample Date Sample Location				NICTION			(C6-C10)	(>C10-C28)	11-11
			(tudd)	(mg.Kg)	(mg/Yg)	(mg/Kg)	(mg/Kg)	(mg.Kg)	(mg/Kg)	(mg/Kg)	(mg/kg)
SDGE020304WBHC	3-Feb-04	Bottom -5*	52.1	NA	NA	NA	NA	NA	NA	NA	NA
SDGE020304EBHC	3-Fcb-04	Bottom - 5'	29.2	NA	NA	NA	NA	NA	NA	NA	NA
SDGE020304SSWC	3-Feb-04	South Sidewall	20.0	NA	NA	NA	NA	NA	NA	NA	NA
SDGE020304NSWC	3-Feb-04	North Sidewall	17.5	NA	NA	NA	NA	NA	NA	NA	AN
SDGE020304ESWC	3-Feb-04	East Sidewall	21.6	NA	NA	NA	NA	NA	NA	NA	NA
SDGE020304WSWC	3-Fcb-04	West Sidewall	19.6	NA	NA	NA	NA	NA	NA	NA	NA
NMOCD Remedial Thresholds	hresholds			10				<b>9</b> 5			5,000

BTEX » Benzene, Toluene, Ethylbenzene, Tolal Aylenes GRO = Gasoline Range Organics DRO « Diesel Range Organics TPH = Total Petroleum Hydrocarbons

#### **APPENDIX I**

# FINAL NMOCD C-141 FORM AND SITE INFORMATION AND METRICS FORM

District I								
				State o	f New Mexic	:0		Form C-141
1625 N. French Dr., Hol	bbs, NM 88240		Ene	rgy Minerals		-		Revised June 10, 2003
District II				S WANDER		i incorar eco		
1301 W. Grand Avenue,	Artesia, NM 88210							
District III				Oil Cons	ervation Divisi	on		2 Copies to appropriate
1000 Rio Brazos Road,	Aztec, NM 87410				th St. Francis			ict Office in accordance
District IV				Santa	Fe, NM 87505			with Rule 116 on back
1220 S. St. Francis Dr.,				~				side of form
		Dtificatio ERATOR	on and (	Corrective A	Action - INI	FORMATION	AL ONLY	Final Report
Name of Company	DUKE ENER		0000100		Contact	Paul Mulkey	Linnar Kebord	
Address	11525 W. Carls	sbad Hwy.	Hobbs	, NM 88240	Telephone No.	505-397-5716		
Facility Name	G-Extension-3				Facility Type	Natural Gas Gat	hering Pipeline	
Surface Owner	DASCO Cattle	e Co		Mineral Owner	NA		Lease No.	NA
	DADCO Catta			1				
<b>TT</b> . '- <b>F</b>		T	7	LOCATION O		<b>I 1 1 1 1</b>	T at a	
Unit Letter	Section	Township	Range	Feet from	Feet from	Longitude	Latitude	County:
Р	30	<b>21S</b>	36E	South Line	West Line	W103º 17' 57.08"	N32º 26' 38.85"	Lea
	<u> </u>		I	530	3964	I		L
			<u> </u>	NATURE OF	RELEASE			<u></u>
Type of Release					Volume of Relea	ase	Volume Recovered	
Natural Gas relea	ase and associat	ed NGL's			3	bbl	n	bbl
Source of Release					Date and Hour of		Date and Hour of D	
						1-Feb-04 1-Feb-04		
12" Steel Pipeline								
Was Immediate Noti		-	_		If YES, To Who	m?		
	U <sub>Yes</sub> [		✓ Not	t Required	NA			
By Whom?	NA				Date and Hour	NA		
Was a Watercourse I	Reached?				If YES. Volume	Impacting the Water	XOUITSE.	
		] Yes			NA			
			110		l'in			
If a Watercourse was		WANTER .						
	e impactor, iscorio							
	a mpacaa, insano							
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NA	roblem and Remedi	al Action Ta						
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Field	Energy Services	2/1/04	N	A	
SITE: G-Extension				Reference 1020	104 [Site 5]
Company:		ERGY FIELD SERV			
Street Address:		Highway 80	1020		
Mailing Address:	·····	Carlsbad Hwy.			
City, State, Zip:	Hobbs, NM				
Representative:	Paul Mulke				
Representative Telepho	يعيذون والمستعدين والتناسي والمتعاد والمتعاد والمتعاد والمتعاد والمتعاد والمتعاد والمتعاد والمتعاد والمتعاد وال		<u></u>	<u></u>	
Telephone:				·······	
Fluid volume released (	bbls); 3	Recovered (bbls	s): 0		
		ly NMOCD verbally with	£	orm C-141 within 15	davs.
	5-25 bbls: Submit form C-1				
Leak, Spill, or Pit (LSP)		020104 [Site 5]			
Source of contamination		12" Steel Pipeline			
Land Owner, i.e., BLM,		DASCO Cattle Co.	225 E. Bende	er, Suite 150, Hol	bbs, NM 88240
LSP Dimensions:		(GPS Site Diagram			• 17777.7.7.7.7.7.9
LSP Area:		333 -ft <sup>2</sup>			
Location of Reference F	Point (RP):		CAN DRAW DE LE	<u> </u>	An <u>anan (1967), an a</u> nanan ang ang ang ang ang ang ang ang an
Location distance and d				· · · · · · · · · · · · · · · · · · ·	
Latitude:		N32° 26' 38.85"	······································		- 'n"
Longitude:		W103° 17' 57.08"			
Elevation above mean s	iea level:	3619 -ft ams			·
Feet from South Section	n Line:	530			
Feet from West Section	Line:	3964			
Location - Unit and 1/4	1/4: UL-	Р	SE 1/4 of SE	1/4	
Location - Section:		30			
Location - Township:		21S			
Location - Range:		36E			······································
Surface water body with	in 1000' radius of Site	: 0			
Surface water body with	in 1000' radius of Site	: 0			
Domestic water wells wi	thin 1000' radius of Sit	te: O			
Domestic water wells wi	thin 1000' radius of Sil	te: O			
Agricultural water wells v	within 1000' radius of S	Site: 0			
Agricultural water wells w	within 1000' radius of S	Site: 0			
Public water supply well	s within 1000' radius o	f Site: 0			
Public water supply well	s within 1000' radius o	f Site: 0			
Depth (ft) from land surf		DG): 220			
Depth (ft) of contaminat		10			
Depth (ft) to ground wat	er (DG - DC = DtGW)				
1. Ground		2. Wellhead P		3. Dista	ance to Surface Water Body
If Depth to GW <50 feet	: 20 points	If <1000' from wate		<200 horizontal	feet: 20 points
If Depth to GW 50 to 99	feet: 10 points	<200' from private source: 20 points	uomestic water		ontal feet: 10 points
	·	If >1000' from wate	er source, or,		ourse to bound
If Depth to GW >100 fee	et: 0 points	>200' from private		>1000 horizonta	al feet: 0 points
		source: 0 points		ļ	
Ground water Score:	0	Wellhead Protection	on Area Scor 0	Surface Water	Score: 0
Site Ran <u>k (1+2+3)</u> =	0		·····		
	Total S	ite Ranking Score	and Acceptable	Concentrations	
Parameter	20 or >		10		0
Benzene <sup>1</sup>	10 ppm		10 ppm		10 ppm
BTEX <sup>1</sup>	50 ppm		50 ppm		50 ppm
		· · · · · · · · · · · · · · · · · · ·			5000 ppm

## **APPENDIX II**

## **PROJECT PHOTOGRAPHS**

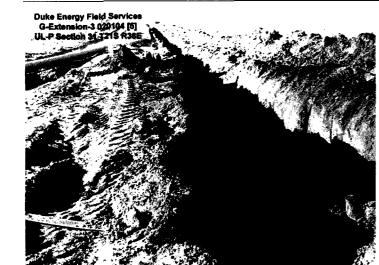


Photo #1: Release area, looking southwest.

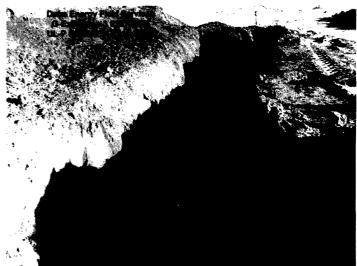


Photo #2: Initial excavation, looking northeast.

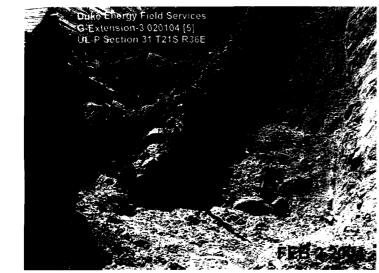


Photo #3: Excavation, looking southerly.

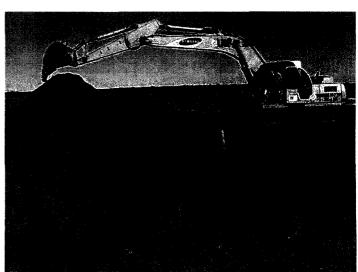


Photo #4: Excavation, looking northerly.



Photo #5: Site graded and contoured, looking northerly.



Photo #6: Site graded and contoured, looking southerly.