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 October 10, 2003

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

Release Notification and Corrective Action

	-							\boxtimes	Initia	al Report Final Repo
								5509		
Facility Na	me: Pipel	ine Deep Fee	deral Con	n #1		Facility Ty	pe:			- May
Name of Company: Cimarex Energy Address: 600 N Marienfeld Suite 600, Midland TX 79701 Facility Name: Pipeline Deep Federal Com #1 Surface Owner: Mineral Owner: LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County	No.									
	of Company: Cimarex Energy Contact: Marty Davis Telephone No. (575) 605-5509 Yame: Pipeline Deep Federal Com #1 Facility Type: e Owner: Mineral Owner: Lease No. LOCATION OF RELEASE tter Section Township Range Feet from the North/South Line Feet from the East/West Line County Lease Latitude: Longitude: NATURE OF RELEASE Volume Recovered: 0 bbi Date and Hour of Occurrence Unknown Unknow									
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West I	ine	County
G	7	198	34E							Lea
		170	3 12		. 1					Lou
				Lat	itude:	Long	itude:			
				N	ATURE	OF RELE	ASE			
						Volume of	Release 122 bb	ls Vol	ıme R	Recovered: 0 bbls
Source of Re	elease: Inter	nal Corrosion					Hour of Occurren			
(17 T	NT (0:0					W/L0 E N			
was immedi	ate Notice		Yes 🔲	No Not Re	quired	II TES, IC	whom? Jim N	iccormick; ir	isna E	sadbear, BLM
By Whom?	Sergio Con	treras, SESI				Date and I	Hour 9/2/10, 8:0	00 am		
					-				se.	
			Yes X	No						
					ick onsite	e to recover s	tanding fluid wit	hin the tank		
					ick Olisic	to iccover s	tanding fidid wit	mi die talik.	-	
					n approp	riate work pl	an will be submi	tted to NMOC	D.	
regulations a public health should their o or the environ	Il operators or the environment of operations homent. In a	are required to ronment. The ave failed to a ddition, NMC	o report and acceptant acc	nd/or file certain reports of a C-141 report investigate and r	elease no ort by the emediate	NMOCD m	nd perform corre- arked as "Final F on that pose a thr	ctive actions for Report" does no reat to ground	or rele ot relie water,	eases which may endanger eve the operator of liability , surface water, human health
Signature:	Mai	ty Da	کہ				4		ON .	DIVISION
	e: Marty Da	vis			1	Approved by	District Supervis		GC.	Lokins
Title: Field I	Foreman				F	Approval Dat	e: 9 29 10	Expira	tion I	Date: 11/29/10
E-mail Addre		@cimarex.com	n ne: (575) (505-5509	(Conditions of	Approval:			Attached [] 1RP = 02-11-2682

^{*} Attach Additional Sheets If Necessary

istrict 1 625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 000 Rio Brazos Road, Aztec, NM 87410

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

Revised October 10, 2003

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

Form C-141

Release Notification and Corrective Action **OPERATOR** Initial Report Final Report Name of Company: Cimarex Energy Contact: Marty Davis Address: 600 N Marienfeld Suite 600, Midland TX 79701 Telephone No. (575) 605-5509

Facility Nar	ne: Pipeli	ne Deep Fed	eral Com	1#1	Facility Typ	oe:			
Surface Ow	ner:			Mineral C	wner:			Lease N	lo.
				LOCA	TION OF RE	LEASE			
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/W	Vest Line	County
G	7	19S	34E						Lea
				Lati	tude: Long	itude:			
				NA	ATURE OF RELE	ASE			
Type of Rele	ase: Crude	Oil		- 11		Release 122 bbl	S	Volume R	Recovered: 0 bbls
Source of Re						Hour of Occurrence			Hour of Discovery
Was Immedia	ate Notice (Vac 🗆	No Not Rec	If YES, To	Whom? Jim Me	cCormic		
By Whom?	Sergio Cor		ics 🗀	NO INOUNCE		Hour 9/2/10, 8:0	0 am		
Was a Water						olume Impacting t		ercourse.	
112			Yes X	No					
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	*					A September 1
Internal corro Describe Are On Decembe samples were 2011, SESI w have all been your consider	osion caused a Affected r 15, 2010, r retrieved a vas onsite w performed ration and a	SESI was ons at depths rangivith Gandy's C with the apprupproval.	bottom of Action Tak ite with H ing from o Corp. to re oval of, ar	f the tank. Vac truken.* fungry Horse, LLC ne (1) foot below -install test trench d in accordance v	grade surface (bgs), #4 to a depth of 12' vith all NMOCD req	est trenches (TT) i to five (5) feet bg bgs and TPH resu uirements. As a re	in the sou s. TT #- lts was < esult, we	uthwest cor 4 has TPH 16.0 mg/k respectfull	rner of location pad. Grab of 406 mg/kg. On January 20, g. Remedial actions at this site y submit this closure report for suant to NMOCD rules and
regulations a public health should their of or the environ	Il operators or the envi operations had not be a second operation of the second operation of the second operation of the second operators	are required to ronment. The nave failed to	o report and acceptant acc	nd/or file certain r ce of a C-141 report investigate and r	elease notifications a ort by the NMOCD nemediate contaminat	and perform correct narked as "Final R ion that pose a thr	ctive acti deport" d reat to gr	ons for release not release ound water	eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other
Signature:		rty Da	v5		Approved by	OIL CON ENV EN CA	R:	ATION	Chin
Title: Field I	Foreman				Approval Da	ite: 02/22	-\11	Expiration	Date:
E-mail Addre	ess: mdavis	@cimarex.com			Conditions	of Approval:			Attached
Date: 1/28	3/11	Pho	ne: (575) 6	505-5509					1RP-02-11-2682

Attach Additional Sheets If Necessary

Cimarex Energy Company Pipeline Deep Federal Com #1 Section 7, Township 19S, Range 34E Lea County, New Mexico

Closure Report

January 28, 2011



RECEIVED

HOBBSOCD

Prepared for:

Cimarex Energy Company 600 North Marienfeld, Suite 600 Midland, Texas 79701

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240 (575) 397-0510

I. Company Contacts

Company Representative	Company	Telephone	E-mail
Marty Davis	Cimarex Energy Co.	575-605-5509	mdavis@cimarex.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Cimarex Energy Company to perform a site assessment at the Pipeline Deep Federal Com #1. This location is the site of an active well and battery. The location is located in Section 7, Township 19 South, and Range 34 East. Internal corrosion in the bottom of the tank released approximately 122 barrels of crude oil with no recovery.

III. Surface and Ground Water

According to the database provided by the USGS the closest groundwater of record is in Section 26, Section 19S, Range 33E. The depth of water in this well was 85' in January 1996.

IV. Soils

The surface soils in the area are predominantly sand.

V. Characterization

The target cleanup levels are reached by the application of the "Unlined Surface Impoundment Closure Guidelines New Mexico Oil Conservation Division (NMOCD) – February, 1993 to this site is 1000 parts per million (ppm) Total Petroleum Hydrocarbons (TPH). Application of the New Mexico Oil Conservation Division's ranking criteria for contaminated soils at this site is presented below:

Depth to Ground Water:			
(Vertical distance from contaminants to	Less than 50 feet	20 points	
seasonal high water elevation of	50 feet to 99 feet	10 points	X
groundwater)	>100 feet	0 points	
Wellhead Protection Area:			
(Less than 200 feet from a private domestic	Yes	20 points	
water source; or less than 1000 feet from all other water sources)	No	0 points	X
Distance to Surface Water:			
(Horizontal distance to perennial lakes,	Less than 200 feet	20 points	
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points	
canals and ditches)	>1000 feet	0 points	X
1841	RANKING SCORE (T	OTAL POINTS)	10

VI. Work Performed

On December 15, 2010, SESI was onsite with Hungry Horse, LLC. to install five (5) test trenches (TT) in the southwest corner of location pad. Grab samples were retrieved at depths ranging from one (1) foot below grade surface (bgs), to five (5) feet bgs. Comparative samples were transported under Chain of Custody to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for Chlorides (EPA Method 4500B) Total Petroleum Hydrocarbons (TPH EPA Method 418.1) and Benzene, Toluene, Ethyl Benzene, and Total Xylenes (BTEX EPA Method 8021B).

The results are as followed:

Sample ID	Chlorides (mg/kg)	TPH 418.1 (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
TT #1 1'bgs	<16.0	<100	< 0.050	< 0.050	< 0.050	< 0.150
TT #1 3'bgs	<16.0	<100	< 0.050	< 0.050	< 0.050	<0.150
TT #2 1'bgs	<16.0	<100	< 0.050	<0.050	<0.050	<0.150
TT #2 3'bgs	<16.0	<100	< 0.050	< 0.050	< 0.050	<0.150
TT #3 1'bgs	<16.0	<100	< 0.050	< 0.050	< 0.050	<0.150
TT #3 3'bgs	<16.0	<100	< 0.050	<0.050	< 0.050	<0.150
TT #4 1'bgs	<16.0	406	< 0.050	< 0.050	< 0.050	<0.150
TT #4 3'bgs	<16.0	<100	< 0.050	<0.050	< 0.050	<0.150
TT #4 5'bgs	<16.0	<100	< 0.050	< 0.050	< 0.050	<0.150
TT #5 1'bgs	<16.0	<100	< 0.050	<0.050	<0.050	<0.150
TT #5 3'bgs	<16.0	<100	<0.050	<0.050	<0.050	<0.150

On January 20, 2011, SESI was onsite with Gandy's Corp. to re-install test trench #4 to a depth of 12'bgs per Mr. Leking, NMOCD. A bottom sample (extent of backhoe) was obtained and transported under Chain of Custody to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for Total Petroleum Hydrocarbons (TPH)(EPA Method 418.1) and Benzene, Toluene, Ethyl Benzene, and Total Xylenes (BTEX)(EPA Method 8260B):

The results of the re-install test trench are as follows:

Sample ID	TPH 418.1 (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
TT #4 12'bgs	<100	< 0.050	< 0.050	< 0.050	< 0.150

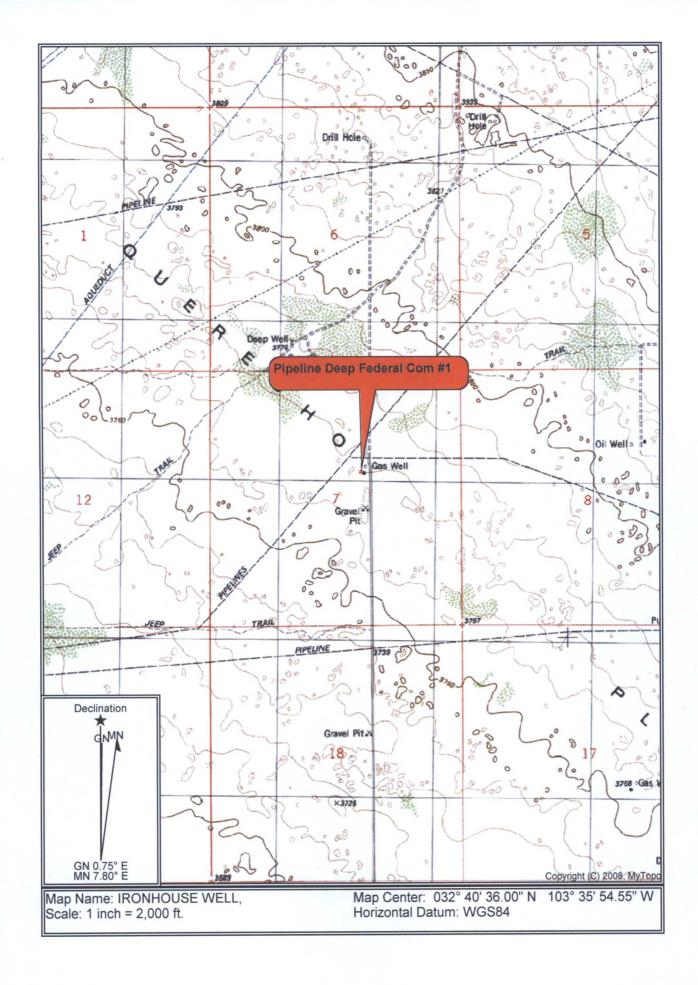
VII. Conclusion

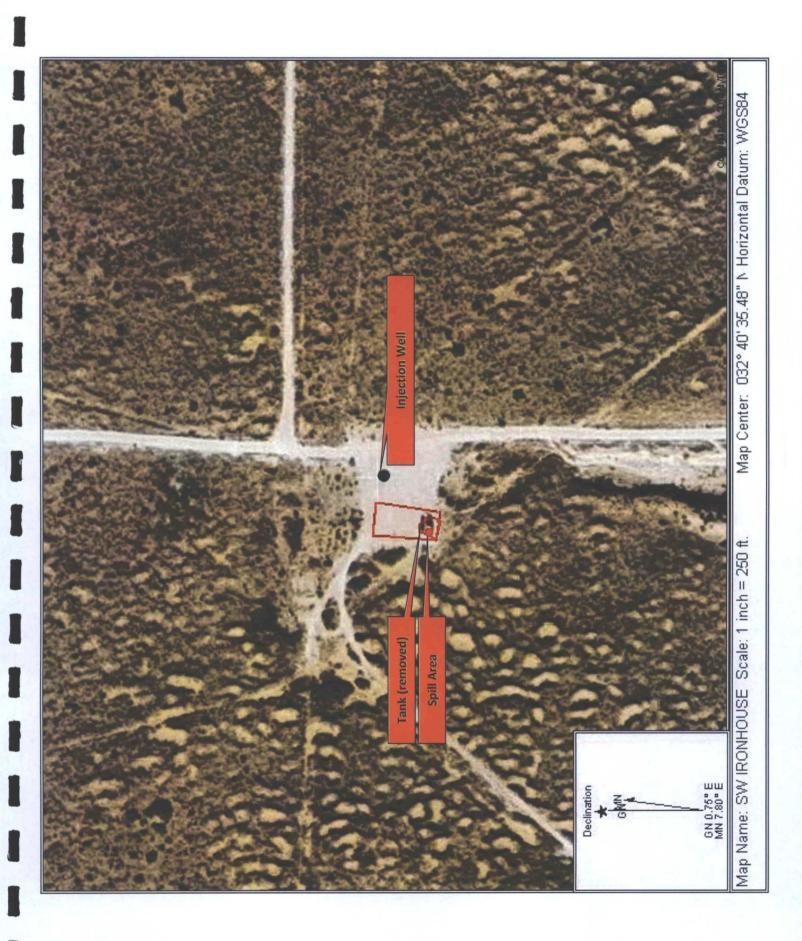
Remedial actions at this site have all been performed with the approval of, and in accordance with all NMOCD requirements.

As a result, we respectfully submit this closure report for your consideration and approval.

VIII. Figures and Appendices

Figure 1 – Vicinity Map Figure 2 – Site Map Appendix A – Analytical Results Appendix B – Site Photographs Appendix C – C-141







December 22, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: CIM-10-016

Enclosed are the results of analyses for samples received by the laboratory on 12/15/10 16:15.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

12/15/2010

12/22/2010

Sampling Date:

12/15/2010

Reported:

Sampling Type:

BS

% Recovery

Soil

Project Name:

CIM-10-016

Sampling Condition:

Cool & Intact

True Value QC

Project Number:

PIPELINE DEEP FED COM #1

Reporting Limit

Sample Received By:

Aaron Berry

RPD

Qualifier

Project Location:

Analyte

LEA, NM

Result

Sample ID: TT #1 1'BGS (H021537-01)

RT	FY	8021B	
	-	OOTID	

Analyzed By: CMS

Analyzed

Method Blank

TPH 418.1	Analyte	Result	Reporting Limit	Analyzed 12/22/2010	Method Blank	BS 1200	% Recovery	True Value QC 1000	RPD 1.65	Qualifier
TPH 418.1		mg/	kg	Analyze	d By: AB					
Chloride		<16.0	16.0	12/16/2010	ND	432	108	400	3.64	
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SI	M4500CI-B	mg/	kg	Analyze	d By: HM					
Surrogate:	4-Bromofluorobenzene (PIL	101 9	70-130							
Total Xylen	es*	<0.150	0.150	12/18/2010	ND	6.45	107	6.00	8.97	
Ethylbenzer	ne*	<0.050	0.050	12/18/2010	ND	2.19	110	2.00	9.00	
Toluene*		<0.050	0.050	12/18/2010	ND	2.12	106	2.00	9.00	
Benzene*		<0.050	0.050	12/18/2010	ND	2.02	101	2.00	8.59	

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

BTEX 8021B

12/15/2010

Reported:

12/22/2010

mg/kg

Project Name:

CIM-10-016

Project Number: Project Location:

PIPELINE DEEP FED COM #1

LEA, NM

Sampling Date:

12/15/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Aaron Berry

Sample ID: TT #1 3'BGS (H021537-02)

DIEN COLLE		9/	9	rindiryand	a b) 1 0110					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	12/18/2010	ND	2.02	101	2.00	8.59	
Toluene*		<0.050	0.050	12/18/2010	ND	2.12	106	2.00	9.00	
Ethylbenzen	ne*	<0.050	0.050	12/18/2010	ND	2.19	110	2.00	9.00	
Total Xylene	es*	<0.150	0.150	12/18/2010	ND	6.45	107	6.00	8.97	
Surrogate: 4	4-Bromofluorobenzene (PIL	111	% 70-130)						
Chloride, SN	14500CI-B	mg/	/kg	Analyze	d By: HM					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		<16.0	16.0	12/17/2010	ND	432	108	400	3.64	
TPH 418.1		mg/	/kg	Analyze	d By: AB					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1		<100	100	12/22/2010	ND	1200	120	1000	1.65	

Analyzed By: CMS

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

(575) 393-4388

Received:

12/15/2010

Reported:

12/22/2010

Project Name:

CIM-10-016

Project Number: Project Location: PIPELINE DEEP FED COM #1

LEA, NM

Sampling Date:

12/15/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Aaron Berry

Sample ID: TT #2 1'BGS (H021537-03)

BTEX 8021B	mg	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2010	ND	2.02	101	2.00	8.59	
Toluene*	<0.050	0.050	12/18/2010	ND	2.12	106	2.00	9.00	
Ethylbenzene*	<0.050	0.050	12/18/2010	ND	2.19	110	2.00	9.00	
Total Xylenes*	<0.150	0.150	12/18/2010	ND	6.45	107	6.00	8.97	
Surrogate: 4-Bromofluorobenzene (PL	102	% 70-130)						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/17/2010	ND	432	108	400	3.64	
TPH 418.1	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	12/22/2010	ND	1200	120	1000	1.65	

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen 703 East Clinton Hobbs NM, 88240

(575) 393-4388

Received:

12/15/2010

Reported: Project Name:

12/22/2010 CIM-10-016

Project Number: Project Location:

PIPELINE DEEP FED COM #1 LEA, NM

100

<100

Sampling Date:

12/15/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Aaron Berry

Sample ID: TT #2 3'BGS (H021537-04)

BTEX 8021B

TPH 418.1

Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2010	ND	2.02	101	2.00	8.59	
Toluene*	<0.050	0.050	12/18/2010	ND	2.12	106	2.00	9.00	
Ethylbenzene*	<0.050	0.050	12/18/2010	ND	2.19	110	2.00	9.00	
Total Xylenes*	<0.150	0.150	12/18/2010	ND	6.45	107	6.00	8.97	
Surrogate: 4-Bromofluorobenzene (PIL	108 %	6 70-130							
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/17/2010	ND	432	108	400	3.64	
TPH 418.1	mg/l	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

1200

120

1000

1.65

12/22/2010

*=Accredited Analyte Cardinal Laboratories

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Safety & Environmental Solutions

(575) 393-4388

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

Received:

12/15/2010

Reported:

Project Location:

12/22/2010

Project Name: Project Number: CIM-10-016

PIPELINE DEEP FED COM #1 LEA, NM

Sampling Date:

12/15/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Aaron Berry

Sample ID: TT #3 1'BGS (H021537-05)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2010	ND	2.02	101	2.00	8.59	
Toluene*	<0.050	0.050	12/18/2010	ND	2.12	106	2.00	9.00	
Ethylbenzene*	<0.050	0.050	12/18/2010	ND	2.19	110	2.00	9.00	
Total Xylenes*	<0.150	0.150	12/18/2010	ND	6.45	107	6.00	8.97	
Surrogate: 4-Bromofluorobenzene (PIL	104 9	70-130							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		<16.0	16.0	12/17/2010	ND	432	108	400	3.64	
TPH 418.1	TPH 418.1 mg/kg		/kg	Analyze	d By: AB					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1		<100	100	12/22/2010	ND	1200	120	1000	1.65	

Cardinal Laboratories

*=Accredited Analyte

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

12/15/2010

Reported:

12/22/2010

Project Name: Project Number: Project Location: CIM-10-016 PIPELINE DEEP FED COM #1

LEA, NM

Sampling Date:

12/15/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Aaron Berry

Sample ID: TT #3 3'BGS (H021537-06)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2010	ND	2.02	101	2.00	8.59	
Toluene*	<0.050	0.050	12/18/2010	ND	2.12	106	2.00	9.00	
Ethylbenzene*	<0.050	0.050	12/18/2010	ND	2.19	110	2.00	9.00	
Total Xylenes*	<0.150	0.150	12/18/2010	ND	6.45	107	6.00	8.97	
Surrogate: 4-Bromofluorobenzene (PIL	112 9	70-130)						

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/17/2010	ND	432	108	400	3.64	
TPH 418.1	mg	mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	12/22/2010	ND	1200	120	1000	1.65	

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

12/15/2010

Reported:

12/22/2010

Project Name:

CIM-10-016

Project Number:

PIPELINE DEEP FED COM #1

LEA, NM

Sampling Date:

12/15/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Aaron Berry

Project Location:

Sample ID: TT #4 1'BGS (H021537-07)

BTEX 8021B	mg/	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2010	ND	2.02	101	2.00	8.59	
Toluene*	<0.050	0.050	12/18/2010	ND	2.12	106	2.00	9.00	
Ethylbenzene*	<0.050	0.050	12/18/2010	ND	2.19	110	2.00	9.00	
Total Xylenes*	<0.150	0.150	12/18/2010	ND	6.45	107	6.00	8.97	
Surrogate: 4-Bromofluorobenzene (PIL	116	% 70-130							
Chloride, SM4500Cl-B mg/kg		kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

,		,	,			,			
Chloride	<16.0	16.0	12/17/2010	ND	432	108	400	0.00	
TPH 418.1 mg/k		/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	406	100	12/22/2010	ND	1200	120	1000	1.65	

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Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

12/15/2010

Reported:

12/22/2010

Project Name: Project Number:

Project Location:

CIM-10-016

PIPELINE DEEP FED COM #1

LEA, NM

Sampling Date:

12/15/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Aaron Berry

Sample ID: TT #4 3'BGS (H021537-08)

BTEX 8021B	mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2010	ND	2.02	101	2.00	8.59	
Toluene*	<0.050	0.050	12/18/2010	ND	2.12	106	2.00	9.00	
Ethylbenzene*	<0.050	0.050	12/18/2010	ND	2.19	110	2.00	9.00	
Total Xylenes*	<0.150	0.150	12/18/2010	ND	6.45	107	6.00	8.97	
Surrogate: 4-Bromofluorobenzene (PIL	103 %	70-130							
Chloride, SM4500CI-B	mg/l	cg	Analyze	d By: HM					

yte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	<16.0	16.0	12/17/2010	ND	432	108	400	0.00	
TPH 418.1		mg/kg		Analyzed By: AB					
yte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	<100	100	12/22/2010	ND	1200	120	1000	1.65	
		<16.0 mg/	<16.0 16.0 mg/kg te Result Reporting Limit	<16.0	<16.0 16.0 12/17/2010 ND mg/kg Analyzed By: AB te Result Reporting Limit Analyzed Method Blank	<16.0 16.0 12/17/2010 ND 432 mg/kg Analyzed By: AB te Result Reporting Limit Analyzed Method Blank BS	<16.0 16.0 12/17/2010 ND 432 108 mg/kg Analyzed By: AB te Result Reporting Limit Analyzed Method Blank BS % Recovery	<16.0 16.0 12/17/2010 ND 432 108 400 mg/kg Analyzed By: AB te Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC	<16.0 16.0 12/17/2010 ND 432 108 400 0.00 mg/kg Analyzed By: AB te Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD

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PLEASE NOTE: Liability 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 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 ios, or loss of row, or loss of profits incurred by client, fix abbidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

12/15/2010

Reported:

12/22/2010

Project Name:

Project Number: Project Location: CIM-10-016

PIPELINE DEEP FED COM #1

LEA, NM

<100

100

Sampling Date:

12/15/2010

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Aaron Berry

Sample ID: TT #4 5'BGS (H021537-09)

BTEX 8021B	mg,	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2010	ND	2.02	101	2.00	8.59	
Toluene*	<0.050	0.050	12/18/2010	ND	2.12	106	2.00	9.00	
Ethylbenzene*	< 0.050	0.050	12/18/2010	ND	2.19	110	2.00	9.00	
Total Xylenes*	<0.150	0.150	12/18/2010	ND	6.45	107	6.00	8.97	
Surrogate: 4-Bromofluorobenzene (PIL	110	% 70-130							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/17/2010	ND	432	108	400	0.00	
TPH 418.1	mg/	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

1200

120

1000

1.65

12/22/2010

Cardinal Laboratories

TPH 418.1

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

12/15/2010

Reported:

12/22/2010

Project Name:

CIM-10-016

Project Number: Project Location: PIPELINE DEEP FED COM #1

LEA, NM

Sampling Date:

12/15/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Aaron Berry

Sample ID: TT #5 1'BGS (H021537-10)

BTEX	8021B	

	в	ч.	,	n	v.

Analyzed By: CMS

	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	12/18/2010	ND	2.02	101	2.00	8.59	
Toluene*		<0.050	0.050	12/18/2010	ND	2.12	106	2.00	9.00	
Ethylbenzen	ne*	<0.050	0.050	12/18/2010	ND	2.19	110	2.00	9.00	
Total Xylene	es*	<0.150	0.150	12/18/2010	ND	6.45	107	6.00	8.97	
Surrogate: 4	4-Bromofluorobenzene (PIL	107 5	% 70-130							
Chloride, SN	M4500CI-B	mg/	kg	Analyze	d By: HM					
Chloride, SN	M4500CI-B Analyte	mg/ Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SN						BS 432	% Recovery	True Value QC	RPD 0.00	Qualifier
		Result	Reporting Limit	Analyzed 12/17/2010	Method Blank					Qualifier
Chloride		Result <16.0	Reporting Limit	Analyzed 12/17/2010	Method Blank					Qualifier Qualifier

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Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received: Reported: 12/15/2010

12/22/2010

Project Name: Project Number: Project Location: CIM-10-016 PIPELINE DEEP FED COM #1

LEA, NM

Sampling Date:

12/15/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Aaron Berry

Sample ID: TT #5 3'BGS (H021537-11)

BTEX	8021B	

mg/kc

Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2010	ND	2.02	101	2.00	8.59	
Toluene*	<0.050	0.050	12/18/2010	ND	2.12	106	2.00	9.00	
Ethylbenzene*	<0.050	0.050	12/18/2010	ND	2.19	110	2.00	9.00	
Total Xylenes*	<0.150	0.150	12/18/2010	ND	6.45	107	6.00	8.97	
Surrogate: 4-Bromofluorobenzene (PIL	107	% 70-130)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/17/2010	ND	432	108	400	0.00	
TPH 418.1	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	12/22/2010	ND	1200	120	1000	1.65	

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	ă	FEFFER FOR THE REST STATEMENT THE THE THE STATEMENT THE ST	11/8	01718	AN TO LINE STATEMENT AND	ANALYSIS REQUEST	UEST	Mesting beliefelde interpresent provide	The state of the s
Project Manager:	18 1 HIlen		P.O. #;						
Address: 703	35 6 Clinton	THE COMPANY OF THE CONTROL OF THE CO	Company:						
City: (Lebbs	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL	State: //M Zip: 88240	Attn:						:
Phone #: 5	597-0510	Canada de Canada	Address:	A MANAGEMENT OF THE PARTY OF TH					
Project #: ()	21-10-671 6 Project Owne	or Commerce	City:	THE RESERVE OF THE COMMENT OF THE CO			99.09880000.00		
Project Name:	Project Name: Pipeline Deig Food Com	Com #1	State: Z	Zip:					
Project Locatic	Project Location: Levy AP		Phone #:		7				
Sampler Name	Sampler Name: 756616 Kilving		Fax #:	5	>				
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ON [000 - 000	THE STATE OF THE S	Date: Redelived By:	Time:	Sample Condition CHE	- Other: # 26 4.50 Ness Yes A
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 14 of 15



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

88240	2476
ž	393-247
Jobbs,	(575)
Jd, F	FAX
Marlar	3-2326
East	393
101	(575)

ompany Name: SCES	565					718	BILL TO				A	ANALYSIS		REQUEST		CONTRACTOR STATEMENT	THE STATE OF THE S	_
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FOR LAB USE ONLY	11 6 63 16	E	M	MATRIX	PRE:	PRESERV.	SAMPLING		2 5	-9		-						-
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uisned By:	Date: Received By:		Phone Result:	□ Yes		Add'I Phone #:	
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	Time: 15		REMARKS:			No control to the control to the control of the con	
Julished By:	Date: Received By:	The second secon					
	Time:						
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #26 4.5%	# 26 4.5% Sample Condition	CHECKED BY: (Initials)					

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 15 of 15



January 25, 2011

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: CIM-10-016

Enclosed are the results of analyses for samples received by the laboratory on 01/20/11 14:45.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions

Bob Allen

703 East Clinton

Hobbs NM, 88240

Fax To:

(575) 393-4388

Received:

TPH 418.1

01/20/2011

Reported:

01/25/2011 CIM-10-016

Project Name: Project Number:

PIPELINE DEEP FEDERAL COM #1

Project Location:

LEA, NM

<100

100

Sampling Date:

01/20/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: TT #4 12' BGS (H100147-01)

BTEX 8021B	mg/	'L	Analyze	ed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2011	ND	2.37	118	2.00	19.9	
Toluene*	<0.050	0.050	01/24/2011	ND	2.34	117	2.00	18.5	
Ethylbenzene*	<0.050	0.050	01/24/2011	ND	2.33	117	2.00	16.3	
Total Xylenes*	<0.150	0.150	01/24/2011	ND	6.97	116	6.00	16.0	
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 80-120							
TPH 418.1	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

1060

106

1000

0.948

01/21/2011

Cardinal Laboratories

*=Accredited Analyte

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Laboratories

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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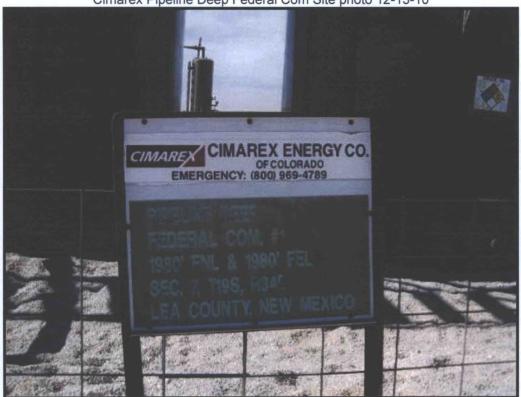
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393/2476

Page 4 of 4

Cimarex Pipeline Deep Federal Com Site photo 12-13-10



Well Sign



Test Trench #1



Test Trench #1



Test Trench #1 facing east



Test trench #2 soils



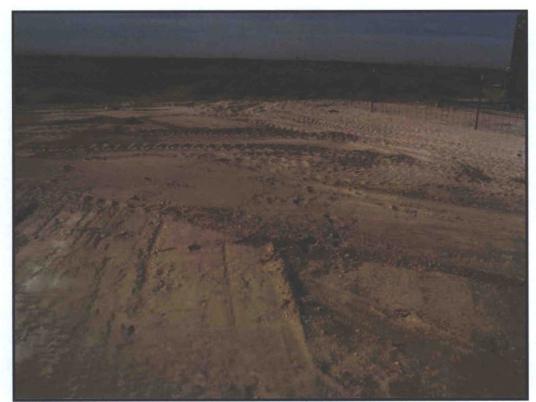
Test Trench #2



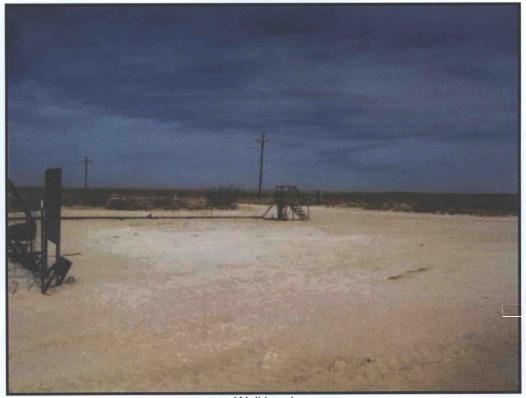
Test Trench #2 facing northwest



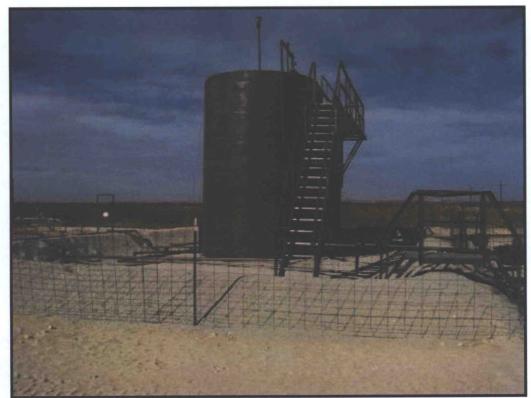
Test trenches facing north



Test Trenches facing west



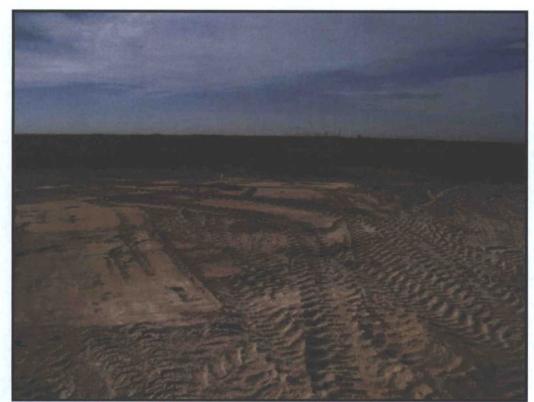
Well head



Tank batteries facing north



Test trenches backfilled facing west



Test trenches backfilled facing west



Test trench #4



Test trenches facing south

Cimarex Pipelline Deep Federal Site Photos 1-20-11



Test Trench #4 12'bgs



Test Trench #4 backfilled