

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

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 Name: Missouri Unit "13" Fee #5	Facility Type:
Surface Owner: Private	Mineral Owner:
Lease No.	

LOCATION OF RELEASE AP# 30-025-38606-00-00

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	13	15S	37E					Lea

Latitude: 33° 01' 24.28" Longitude: 103° 09' 07.33"

NATURE OF RELEASE

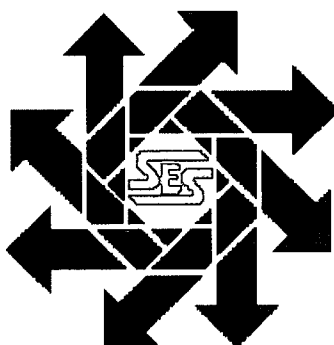
Type of Release: Crude Oil	Volume of Release 132 bbls	Volume Recovered: 42 bbls
Source of Release: Valve pushed open	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: 10/9/10, 3 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoff Leking OCD	
By Whom? Sergio Contreras, SESI	Date and Hour: 10/11/10 9 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
Load/unload valve on the tank was pushed open by cattle. Vac truck onsite to recover standing fluid and transported fluid back into the storage tank.		
Describe Area Affected and Cleanup Action Taken.*		
SESI was contacted for assessment. Area will be delineated and an appropriate work plan will be submitted to NMOCD. EXCAVATION PERFORMED		
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: <i>Marty Davis</i>	OIL CONSERVATION DIVISION	
Printed Name: Marty Davis	Approved by <i>Enw Engineer:</i> District Supervisor: <i>Geoffrey Leking</i>	
Title: Field Foreman	Approval Date: 02/03/11	Expiration Date: -
E-mail Address: mdavis@cimarex.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/11/10 Phone: (575) 605-5509		IRP-02-11-2680

* Attach Additional Sheets If Necessary

**Cimarex Energy Company
Missouri Unit 13 Fee #5
Unit B Section 13, Township 15S, Range 37E
Lea County, New Mexico**

Closure Report

January 28, 2011



Prepared for:

***Cimarex Energy Company
600 North Mariefeld, Suite 600
Midland, Texas 79701***

By:

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

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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 Missouri Unit 13 Fee #5. The location is located in Section 13, Township 15 South, and Range 37 East. According to the C-141, the load/unload valve on the tank was pushed open by cattle releasing approximately 132 barrels of crude oil. A vacuum truck onsite and recovered approximately 42 barrels of standing fluid and transported fluid back into the storage tank.

III. Surface and Ground Water

There are (3) three monitoring wells located on the north and east side of the Denton SWD facility. The Denton SWD Facility is located approximately 2,300 feet east of the Missouri 13-5. Depth to water measurements collected from these monitor wells on November 1, 2010 indicated an average ground water depth of 58.40 ft.

IV. Soils

The surface soils in the area are predominantly sand and sandy loam.

V. Work Performed

On October 14, 2010 SESI was onsite to install two (2) test trenches on location pad to determine vertical extent of release area. Release area stayed on location pad. Test trenches were excavated to a one (1) foot depth.

Samples were properly preserved and transported under chain of custody to Cardinal Labs of Hobbs, New Mexico. The samples were analyzed for Chlorides (EPA Method 4500-ClB), Benzene, Toluene, Ethyl Benzene, Total Xylenes (BTEX EPA Method 8021) and Total Petroleum Hydrocarbons (TPH EPA Method 418.1).

The results of the analysis are as follows:

Lab ID	Sample ID	Chlorides (mg/kg)	TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Xylenes (mg/kg)
Analysis Date:	-	10/14/10	10/14/10	10/14/10	10/14/10	10/14/10	10/14/10
H021065-01	TT #1 2"	3,920	2,500	3.54	129	120	365
H021065-02	TT #1 1'bgs	272	30	<0.050	<0.050	<0.050	0.185
H021065-03	TT #2 2"	112	62,000	25.4	399	257	793
H021065-04	TT #2 1'bgs	160	87	<0.050	<0.050	<0.050	<0.050

On January 6-11, 2011, SESI was onsite with Hungry Horse to excavate the affected area to a depth of one (1) foot below grade surface (bgs). A total of 260 yards of contaminated soil was transported to Gandy Marley's land farm for disposal. The excavated area was backfilled with clean soils and the location pad repaired.

VI. Conclusion

Remedial actions at this site have all been performed with the approval of, and in accordance with all NMOCD requirements. The most highly hydrocarbon impacted soils have been disposed of and the area was backfilled with clean soil and returned to natural grade.

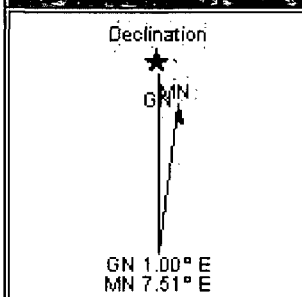
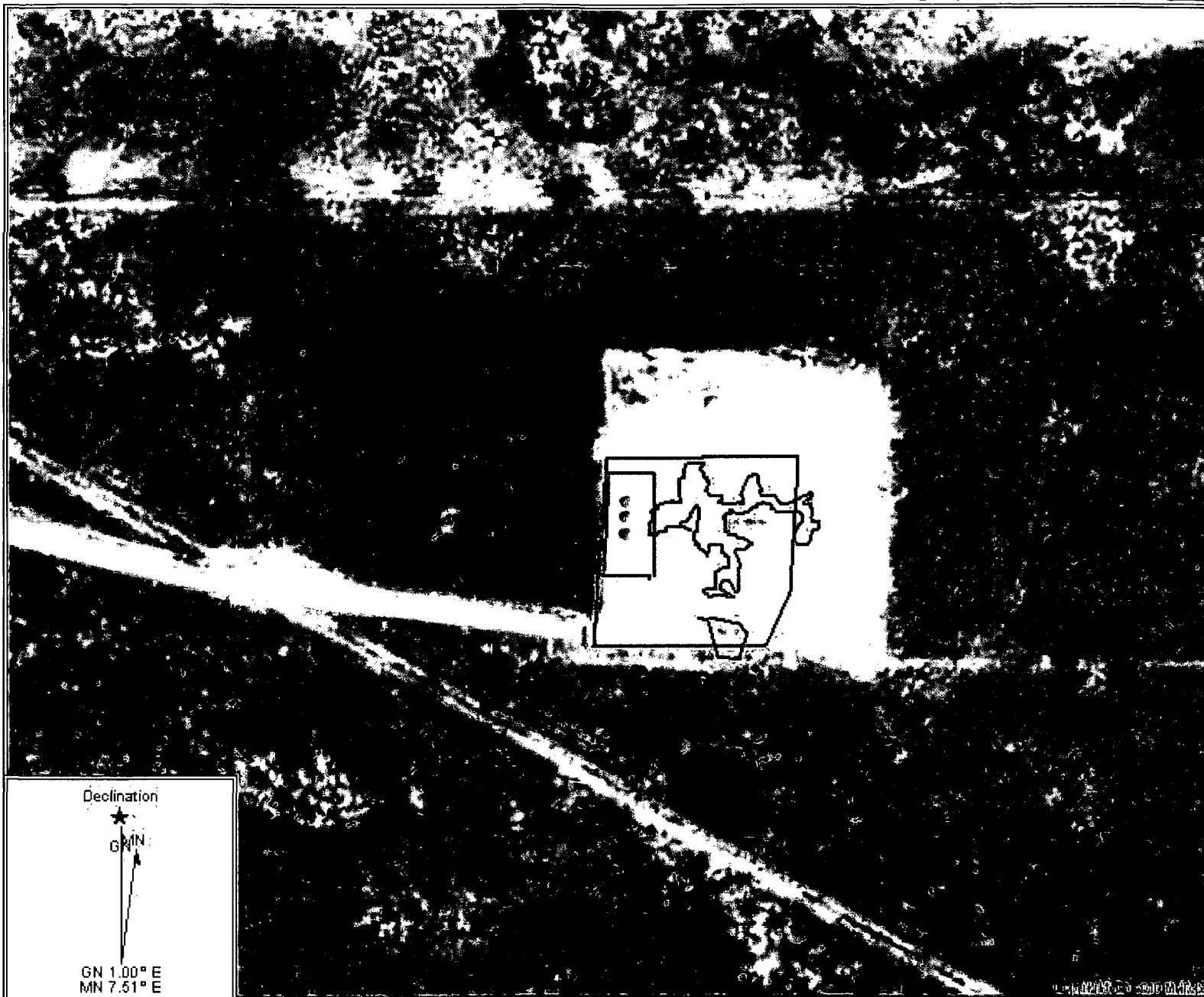
This is an active tank battery and it is requested that the spill report be closed with no further action required at this time. The operator is aware that at such time the tank battery becomes inactive further action may be required.

VII. Figures and Appendices

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

Figure 1
Vicinity Map

Figure 2
Site Map



Map Name: SE PRAIRIEVIEW, NM
Scale: 1 inch = 200 ft.

Map Center: 033° 01' 24.68" N 103° 09' 09.36" W
Horizontal Datum: WGS84

Appendix A

Analytical Results

October 22, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: CIM-10-017

Enclosed are the results of analyses for samples received by the laboratory on 10/14/10 16:30.

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 Hydrocarbons

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

Cardinal Laboratories is accredited 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,



Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received: 10/14/2010
 Reported: 10/22/2010
 Project Name: CIM-10-017
 Project Number: MISSOURI 13-5
 Project Location: LEA, NM

Sampling Date: 10/14/2010
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TT #1 2" BGS (H021065-01)

BTEX 8021B		mg/kg		Analyzed By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.54	2.50	10/19/2010	ND	1.69	84.7	2.00		
Toluene*	129	50.0	10/19/2010	ND	1.83	91.6	2.00		
Ethylbenzene*	120	50.0	10/19/2010	ND	1.93	96.7	2.00		
Total Xylenes*	365	150	10/19/2010	ND	5.63	93.8	6.00		

Surrogate: 4-Bromofluorobenzene (PIL) 93.1 % 80-120

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	10/15/2010	ND	432	108	400	3.77	

TPH 418.1		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	2500	100	10/22/2010	ND	150	115	131	6.45	SUB-SS

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received: 10/14/2010
 Reported: 10/22/2010
 Project Name: CIM-10-017
 Project Number: MISSOURI 13-5
 Project Location: LEA, NM

Sampling Date: 10/14/2010
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TT #1 1' BGS (H021065-02)

STEX 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	10/19/2010	ND	1.69	84.7	2.00		
Toluene*	<0.050	0.050	10/19/2010	ND	1.83	91.6	2.00		
Ethylbenzene*	<0.050	0.050	10/19/2010	ND	1.93	96.7	2.00		
Total Xylenes*	0.185	0.150	10/19/2010	ND	5.63	93.8	6.00		

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 80-120

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/15/2010	ND	432	108	400	3.77	

TPH 418.1	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	30.0	10.0	10/22/2010	ND	150	115	131	6.45	SUB-SS

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received: 10/14/2010
 Reported: 10/22/2010
 Project Name: CIM-10-017
 Project Number: MISSOURI 13-5
 Project Location: LEA, NM

Sampling Date: 10/14/2010
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TT #2 2" BGS (H021065-03)

ANTEX 8021B	mg/kg	Analyzed By: cms						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	25.4	25.0	10/19/2010	ND	1.69	84.7	2.00		
Toluene*	399	50.0	10/19/2010	ND	1.83	91.6	2.00		
Ethylbenzene*	257	50.0	10/19/2010	ND	1.93	96.7	2.00		
Total Xylenes*	793	150	10/19/2010	ND	5.63	93.8	6.00		

Surrogate: 4-Bromofluorobenzene (PIL) 75.0 % 80-120

Chloride, SM4500Cl-B	mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/15/2010	ND	432	108	400	3.77	

TPH 418.1	mg/kg	Analyzed By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	62000	1000	10/22/2010	ND	150	115	131	6.45	SUB-SS

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received: 10/14/2010
 Reported: 10/22/2010
 Project Name: CIM-10-017
 Project Number: MISSOURI 13-5
 Project Location: LEA, NM

Sampling Date: 10/14/2010
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TT #2 1' BGS (H021065-04)

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	10/19/2010	ND	1.69	84.7	2.00			
Toluene*	<0.050	0.050	10/19/2010	ND	1.83	91.6	2.00			
Ethylbenzene*	<0.050	0.050	10/19/2010	ND	1.93	96.7	2.00			
Total Xylenes*	<0.150	0.150	10/19/2010	ND	5.63	93.8	6.00			

Surrogate: 4-Bromofluorobenzene (PIL) 98.7 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/15/2010	ND	432	108	400	3.77		

TPH 418.1		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TPH 418.1	87.0	10.0	10/22/2010	ND	150	115	131	6.45	SUB-SS	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

SUB-SS	Analysis subcontracted to SunStar Laboratories, Inc.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

Company Name: <u>SESE</u>				BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>Bob Allen</u>				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">chlorides</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 418.1</div> </div>																			
Address: <u>703 E Clinton</u>				Company:																							
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn: <u>Sgune</u>																							
Phone #: <u>505-393-2510</u> Fax #:				Address:																							
Project #: <u>CIM-10-017</u> Project Owner: <u>Cimarron</u>				City:																							
Project Name: <u>Missouri 13-5</u>				State: Zip:																							
Project Location: <u>Lea, NM</u>				Phone #:																							
Sampler Name: <u>TSGAC Lincoln</u>				Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME													
AZ1065-1	T701 72" bss	6	1										10/14/10	0600	✓	✓	✓										
2	LT41 1" bss	✓	✓											0705	✓	✓	✓										
3	TT42 2" bss	✓	✓											0805	✓	✓	✓										
4	TT42 1" bss	✓	✓											0935	✓	✓	✓										

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Relinquished By:	Date: <u>10/14/10</u> Time: <u>16:30</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date: <u>10/14/10</u> Time: <u>16:30</u>	Received By: <u>Jodi Newson</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) <u>Sampler</u> - UPS - Bus - Other:	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: <u>JH</u> (Initials)	REMARKS:

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

#26

Appendix B

Site Photographs



Well sign



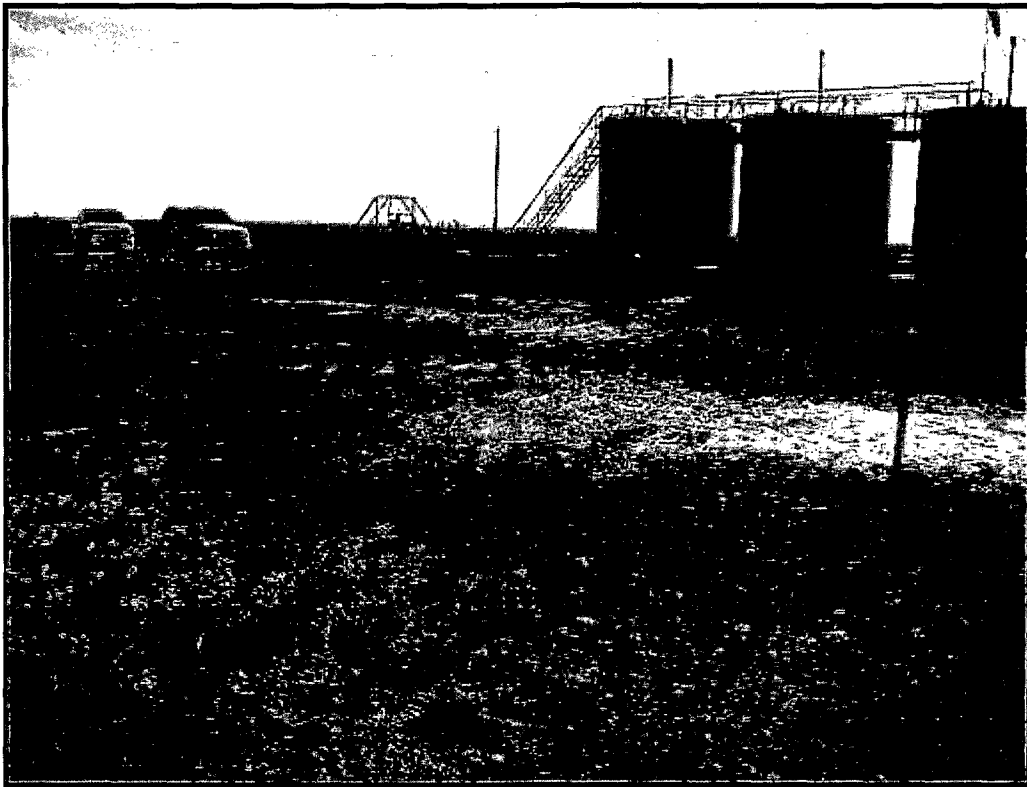
Release Point facing south



Release area facing southeast



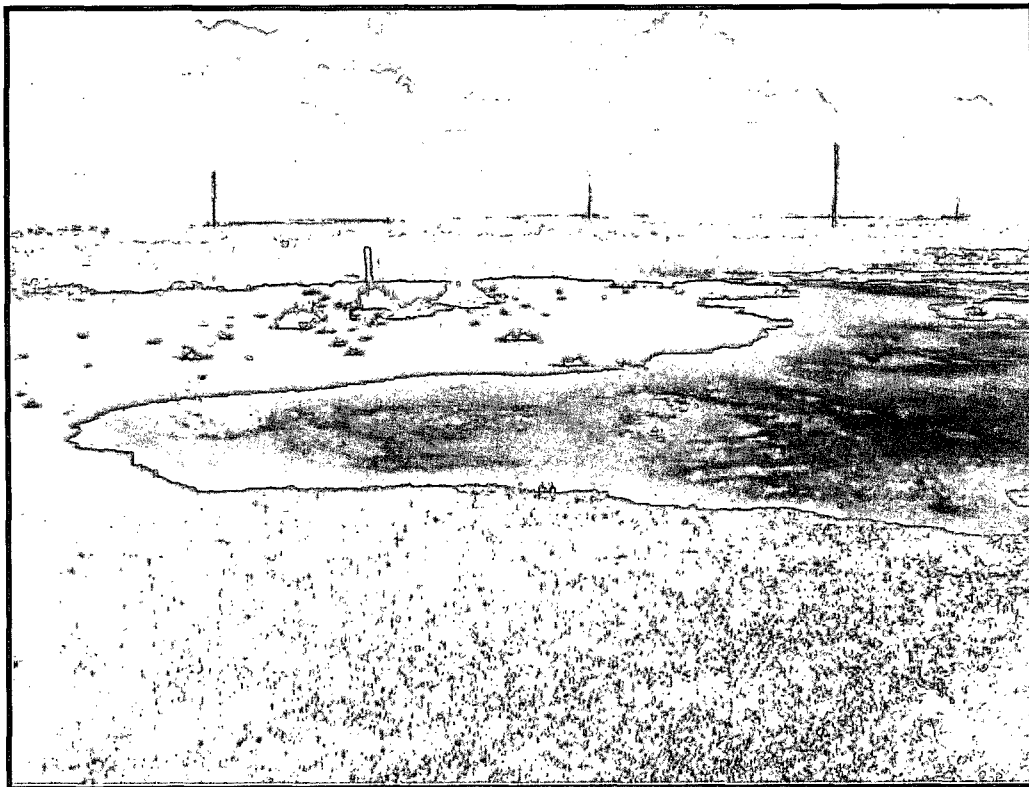
Release area facing north



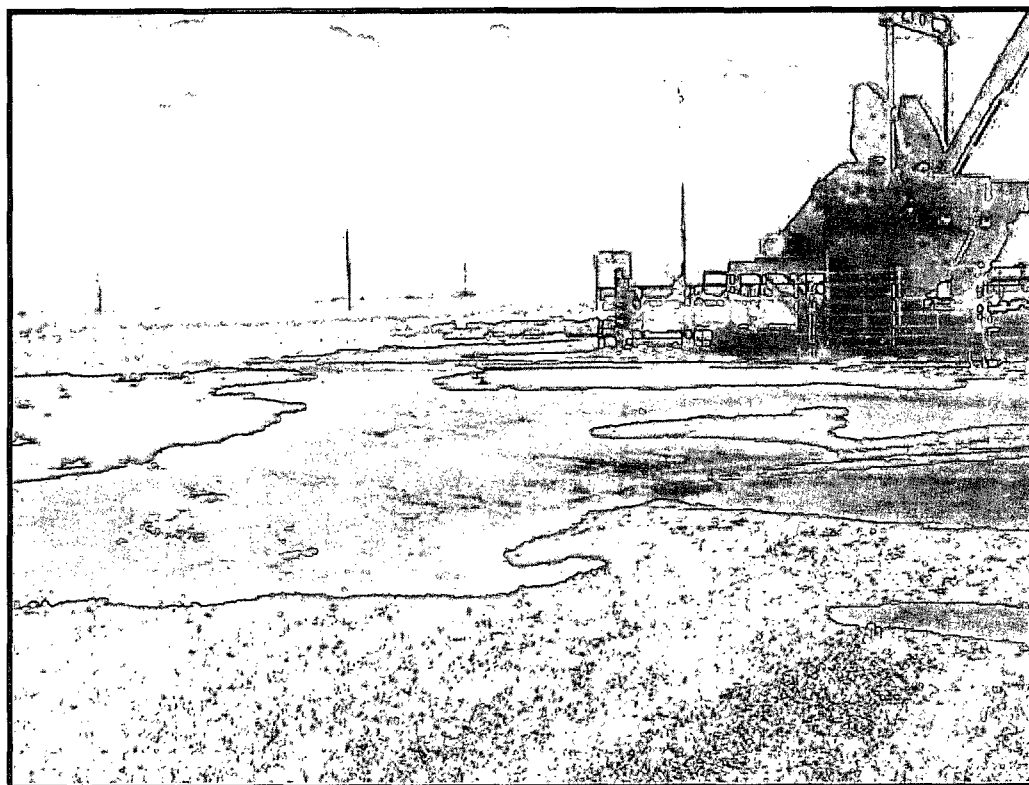
Release area facing west



Release area facing west



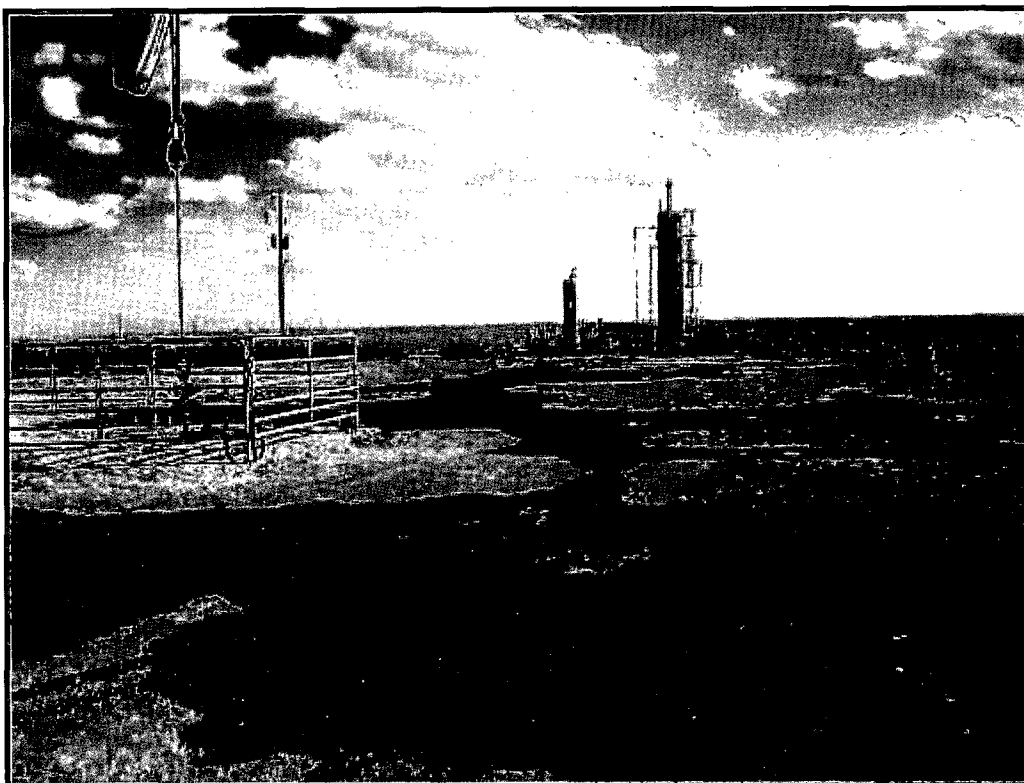
Release area facing east



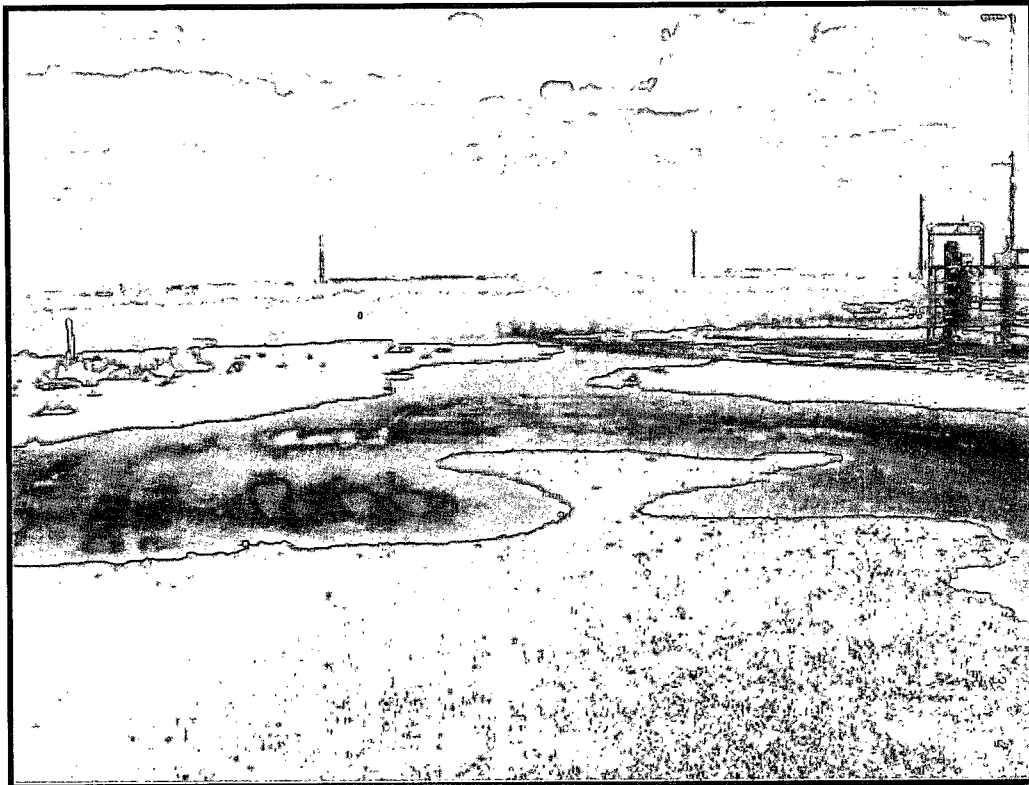
Release area facing southeast



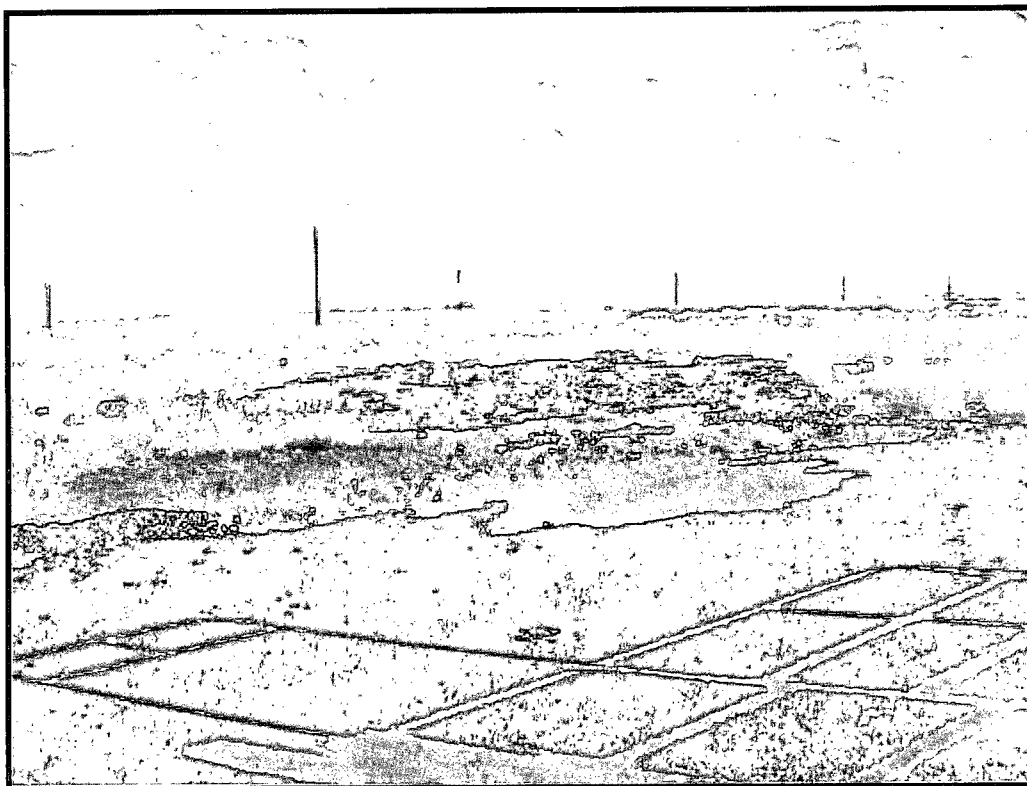
Release area facing southwest



Release area facing south



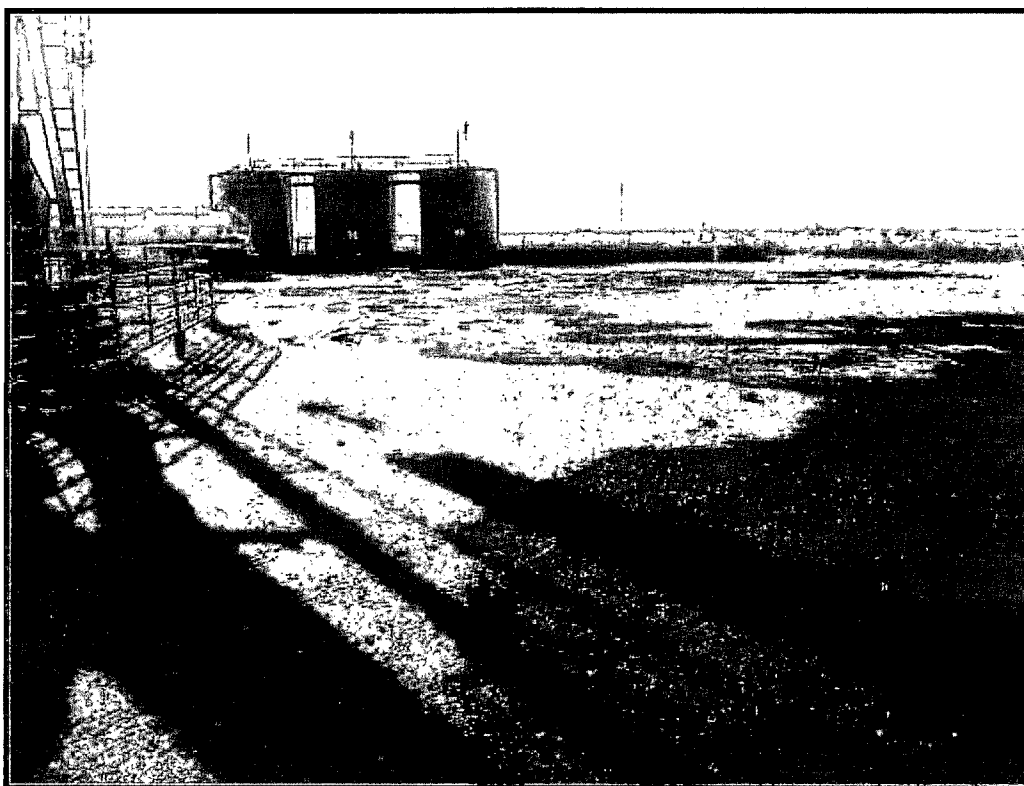
Release area facing southeast



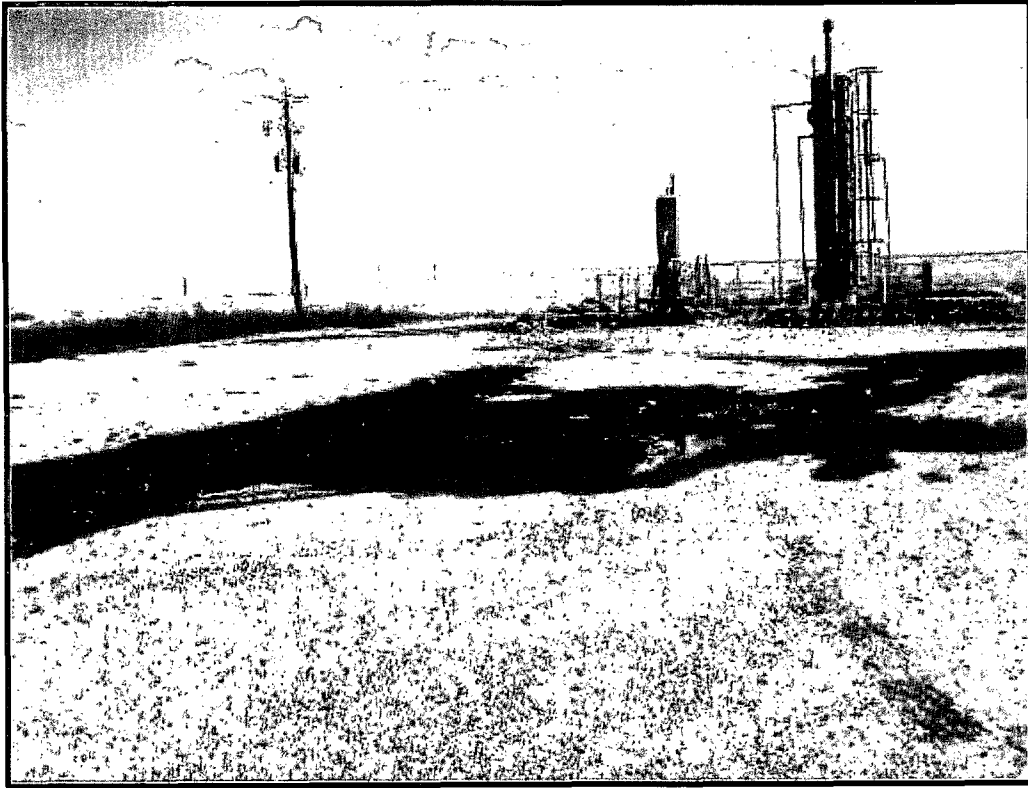
Release area facing east



Release area facing east



Release area facing west



Release area facing south



Release area facing north



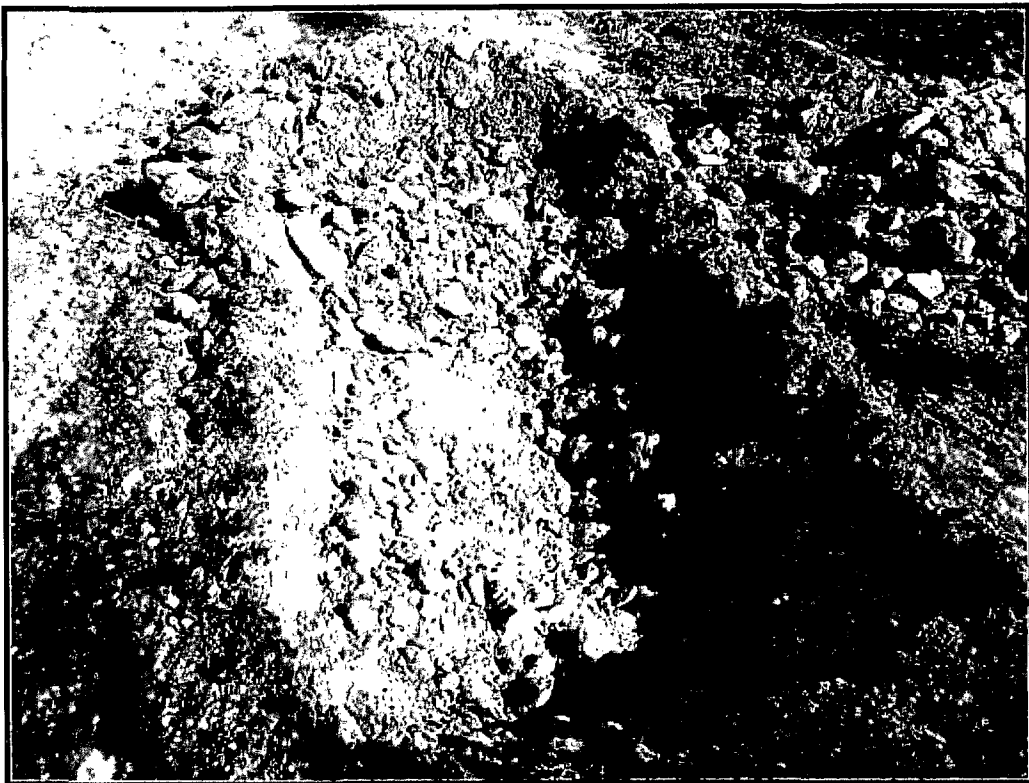
Test Trench #1 facing northeast



Test Trench #1 1' bgs



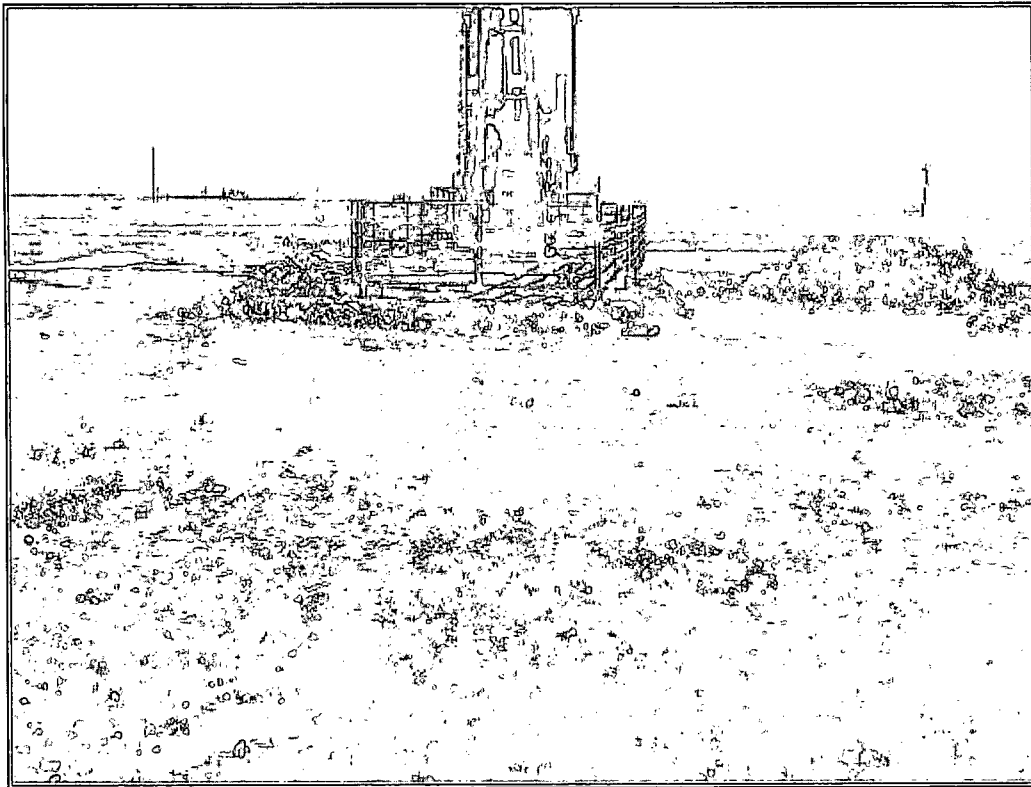
Test Trench #2 facing south



Test Trench #2 1' bgs



Test Trench #2 facing west



Excavated area facing east



Excavated area facing south



Excavated area facing west



Excavated area facing west



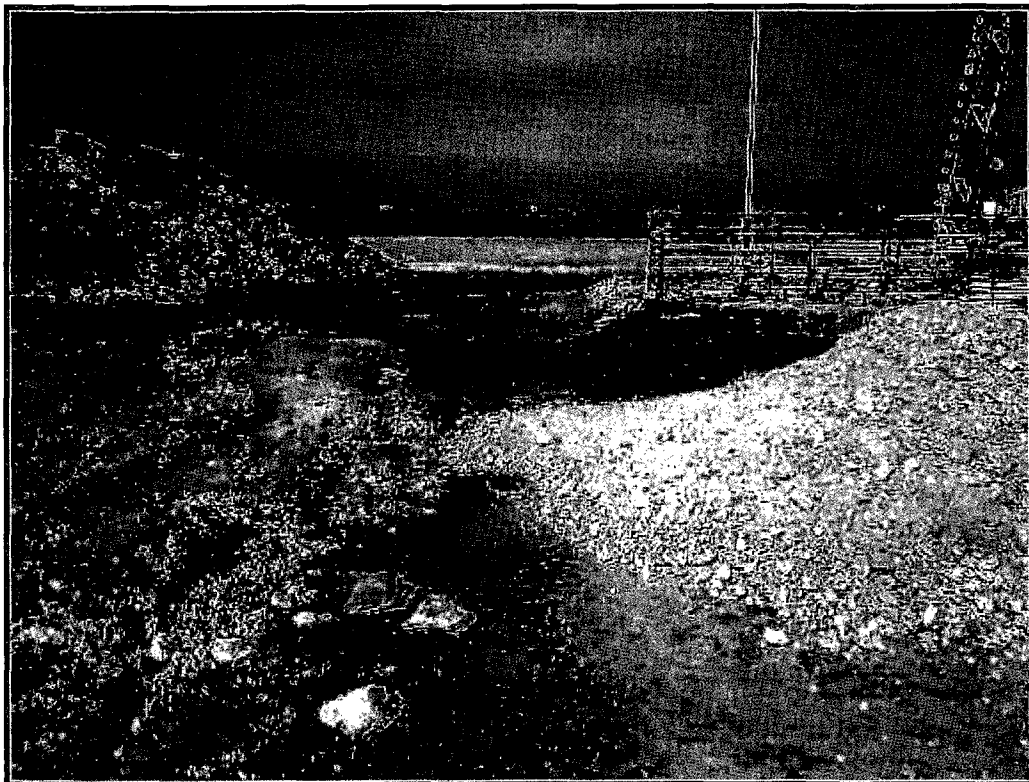
Excavated area facing west



Excavated area facing north



Excavated area facing north



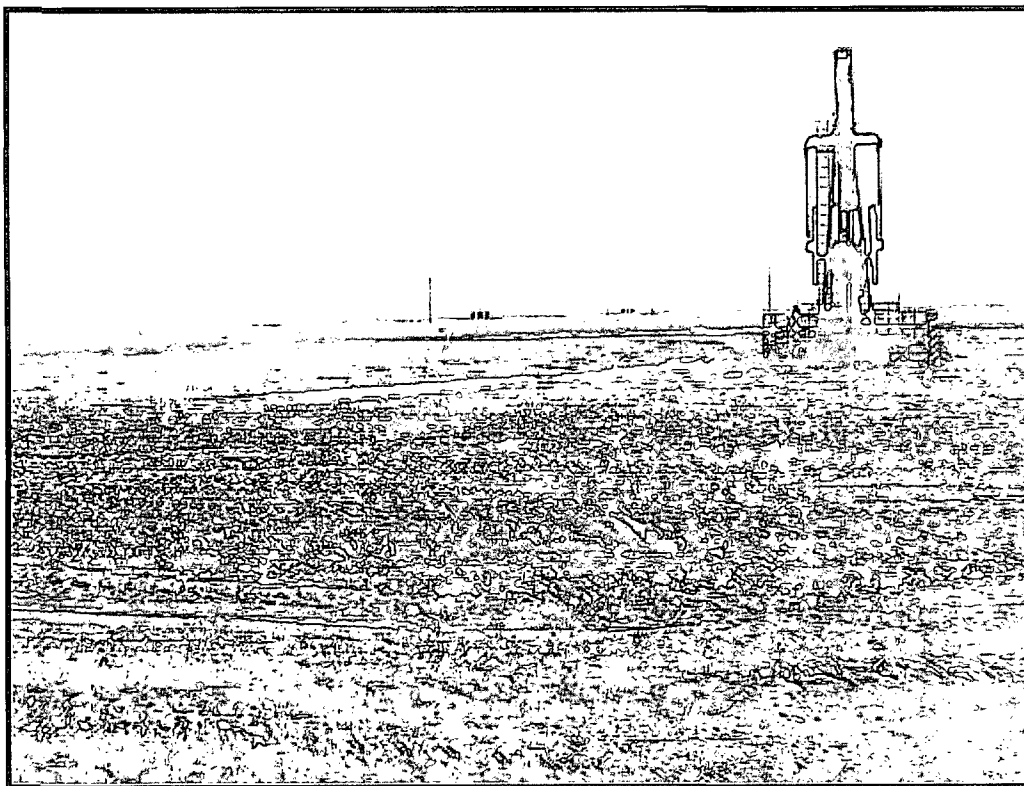
Excavated area facing north



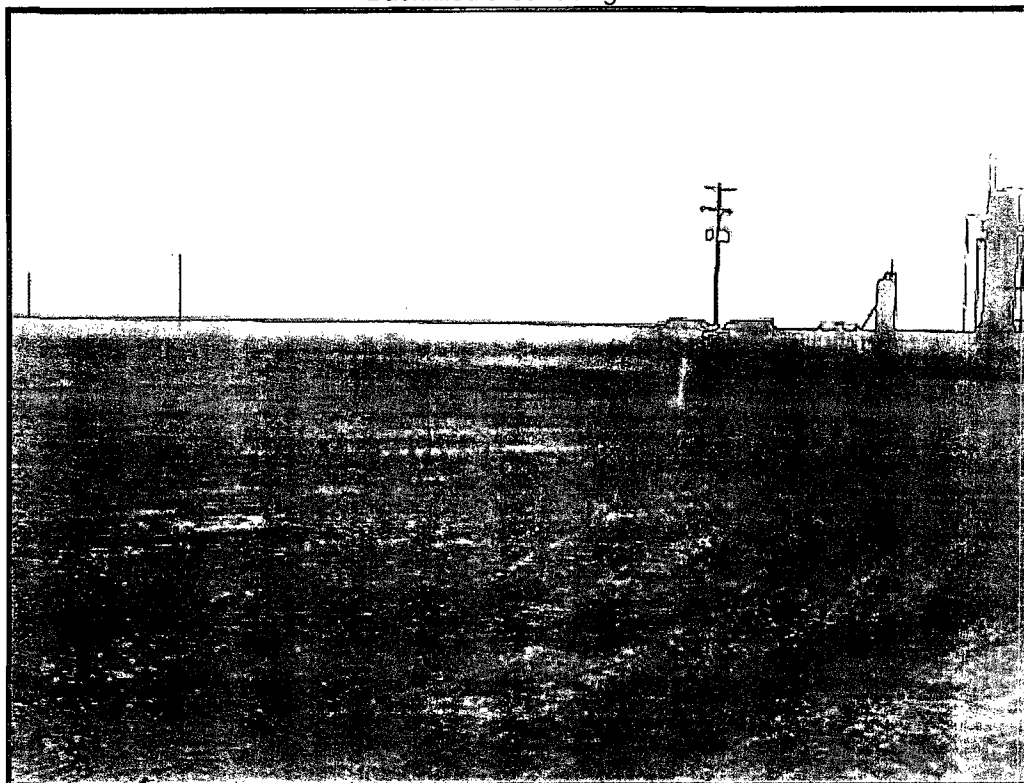
Backfilled area facing north



Backfilled area facing northeast



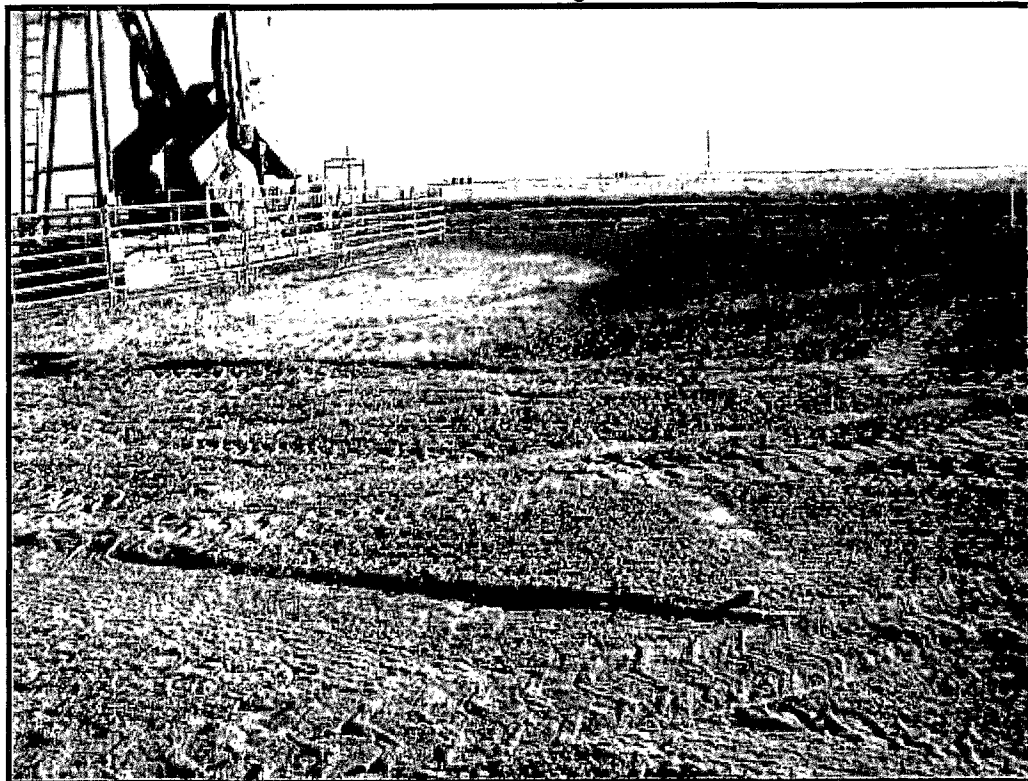
Backfilled area facing east



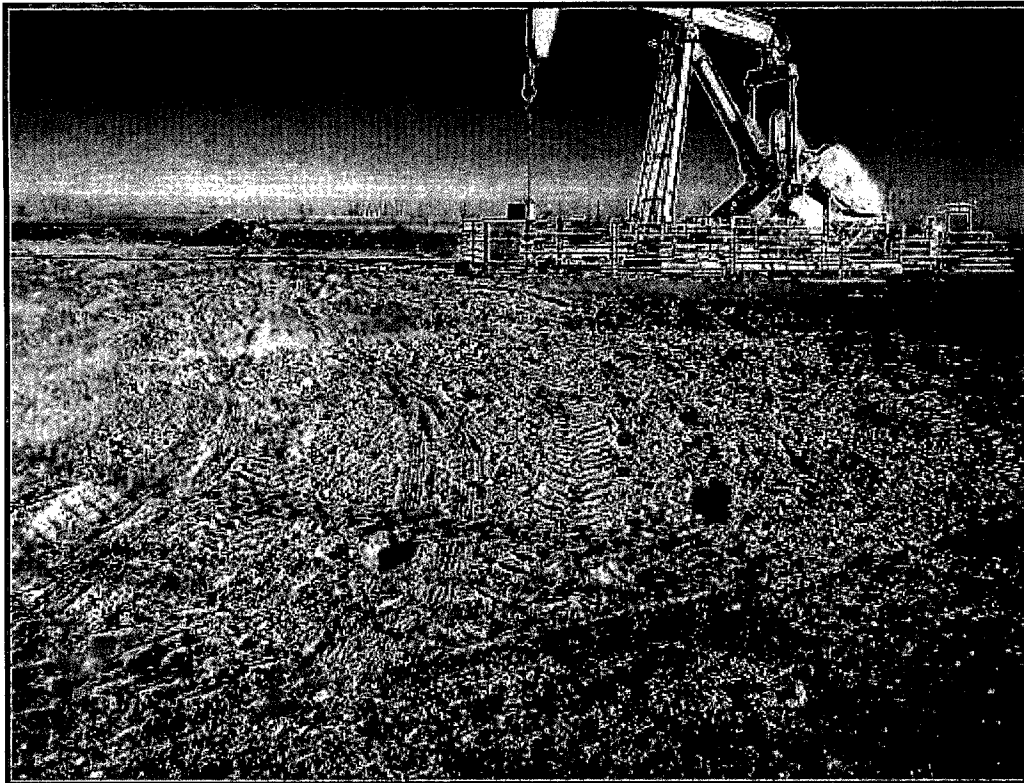
Backfilled area facing southeast



Backfilled area facing northeast



Backfilled area facing east



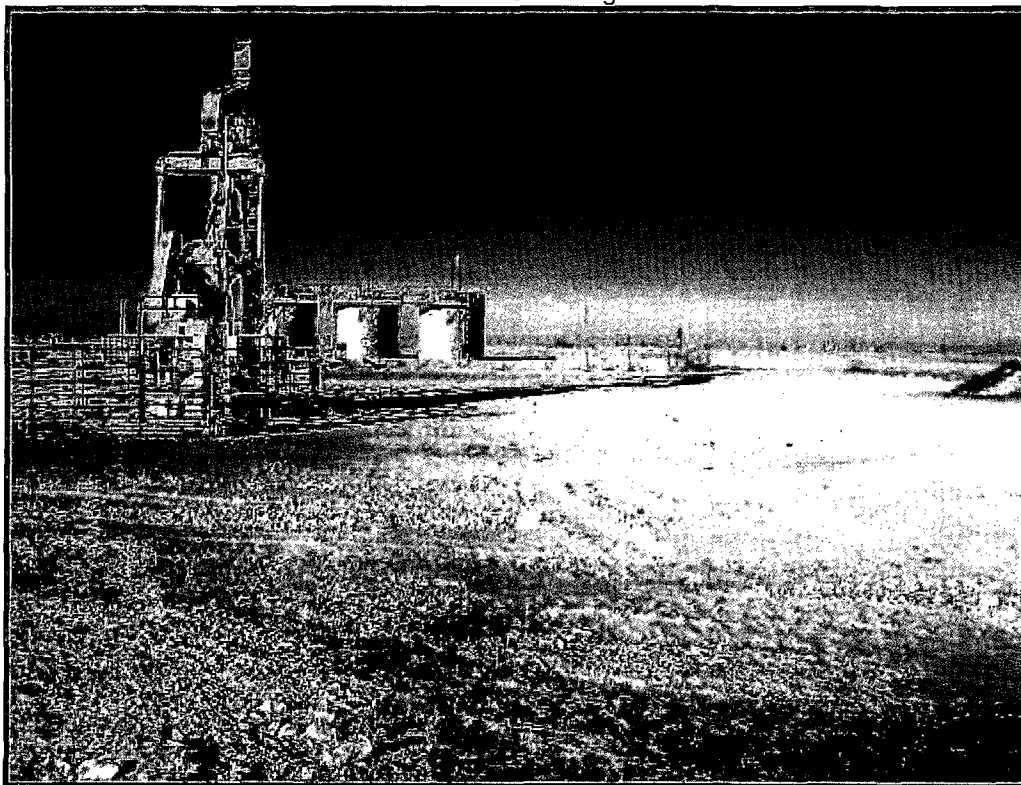
Backfilled area facing north



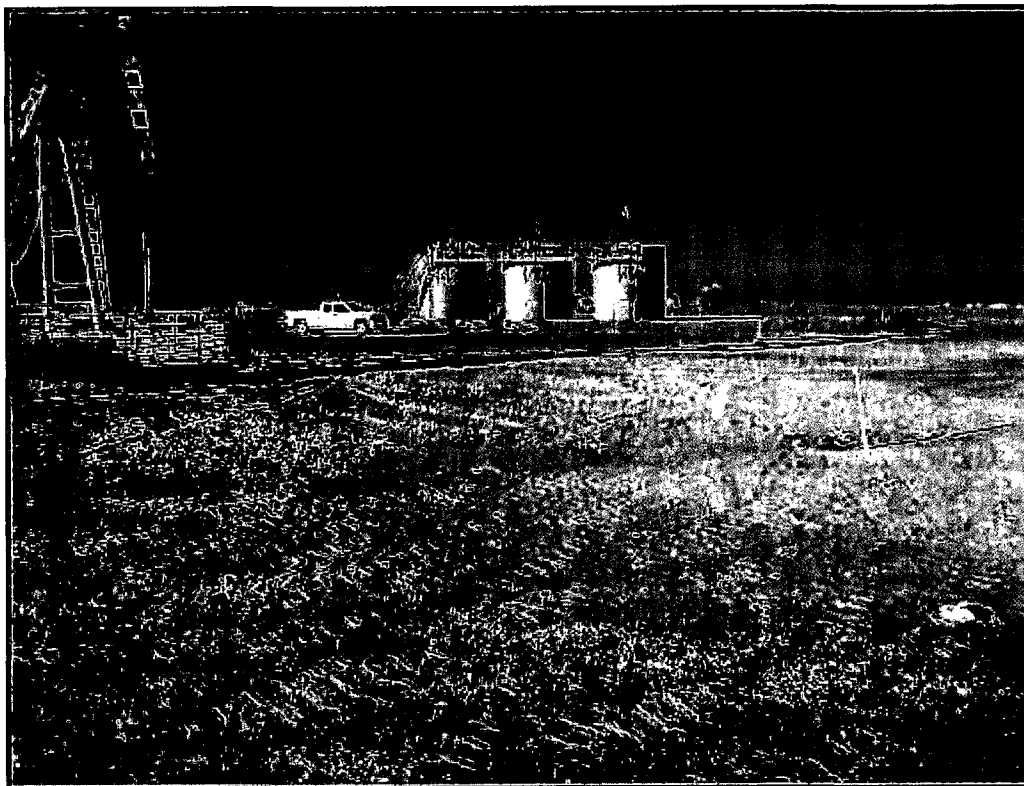
Backfilled area facing northeast



Backfilled area facing east



Backfilled area facing west



Backfilled area facing west



Backfilled area facing west

Appendix C

C-141

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

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 Name: Missouri Unit "13" Fee #5	Facility Type:

Surface Owner: Private	Mineral Owner:	Lease No.
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LOCATION OF RELEASE AP# 30-025-38606-00-00

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	13	15S	37E					Lea

Latitude: 33° 01' 24.28" Longitude: 103° 09' 07.33"

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 132 bbls	Volume Recovered: 42 bbls
Source of Release: Valve pushed open	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: 10/9/10, 3 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoff Leking OCD	
By Whom? Sergio Contreras, SESI	Date and Hour: 10/11/10 9 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Load/unload valve on the tank was pushed open by cattle. Vac truck onsite to recover standing fluid and transported fluid back into the storage tank.

Describe Area Affected and Cleanup Action Taken.*

SESI was contacted for assessment. Area will be delineated and an appropriate work plan will be submitted to NMOC. **EXCAVATION PERFORMED**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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: <i>Marty Davis</i>	OIL CONSERVATION DIVISION	
Printed Name: Marty Davis	Approved by <i>Emr. Engineer:</i> District Supervisor: <i>Geoffrey Leking</i>	
Title: Field Foreman	Approval Date: <u>02/03/11</u>	Expiration Date: <u>-</u>
E-mail Address: mdavis@cimarex.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/11/10 Phone: (575) 605-5509		IRP-02-11-2680

* Attach Additional Sheets If Necessary