Cimarex Energy Company Cottonwood Draw "22" Federal Com #5 Unit Letter A, Section 22, Township 25S, Range 26E Eddy County, New Mexico

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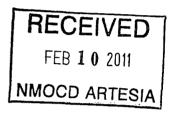
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Delineation Report/Work Plan

September 1, 2010





Prepared for:

Cimarex Energy Company 600 N Marienfeld 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
Terry Ainsworth	Cimarex Energy Co.	575-390-1388	tainsworth@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 Cottonwood Draw "22" Federal Com #5.

III. Surface and Ground Water

According the database provided by the New Mexico Office of State Engineer's online database, the average depth of water in this area is 80'.

IV. Soils

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

VI. Work Performed

On May 18, 2010, Roadrunner Environmental was onsite to delineate the area. Surface and subsurface soil samples were obtained at depths ranging from 0-2 ft below ground surface. The samples were transported under chain of custody to Cardinal Laboratories of Hobbs, New Mexico for Chloride (EPA Method 4500-B).

The analytical results are as follows:

Lab ID	Sample ID	Cl [.] (mg/kg)
Analysis Date:	-	05/19/10
H-19919-1	"A" N.W. Corner Surface	256
H-19919-2	"A" N.W. Corner 1 ft.	192
H-19919-3	"A" N.W. Corner 2 ft.	192
H-19919-4	"B" N.E. Corner Surface	96
H-19919-5	"B" N.E. Corner 1 ft.	208
H-19919-6	"C" S.W. Corner Surface	9,500
H-19919-7	"C" S.W. Corner 1 ft.	3,400
H-19919-8	"D" S.E. Corner Surface	288
H-19919-9	"D" S.E. Corner 1 ft.	64
H-19919-10	"E" Center Surface	4,320
H-19919-11	"E" Center 1 ft.	736
H-19919-12	Runoff east of center	6,880
H-19919-13	"F" N.E. Corner Surface	960
H-19919-14	"F" N.E. Corner 2 ft.	128
H-19919-15	"G" E. Pit Center1 Surface	10,800
H-19919-16	"G" E. Pit Center1 2 ft.	208
H-19919-17	"H" E. Pit Center2 Surface	19,200
H-19919-18	"H" E. Pit Center2 2 ft.	368
H-19919-19	"I" E. Pit Center #4 Surface	832

1305

H-19919-24 EPA Method 4500 Cl-B	"M" S Site Cottonwood 32 Well #8 "Steak"	64_
H-19919-23	"L" Pad S. Well Surface	28,400
H-19919-22	"K" Pad S.E. Well Surface	18,400
H-19919-21	"J" E. Pit S.E. Corner Surface	5,440
H-19919-20	"I" E. Pit Center 2 ft.	48

On August 17, 2010, Mr. Sergio Contreras and Mr. Bob Allen of SESI was onsite along with Mr. Terry Ainsworth of Cimarex and Mr. Mike Bratcher of New Mexico Oil Conservation Division (NMOCD). The meeting was to talk/about the delineation process that was going to be done by SESI to find vertical extent of chloride contamination. Two (2) samples were retrieved, one of large rocks found in the excavation and one of small white rocks that were on the surface. The samples were transported under chain of custody to Cardinal Laboratories of Hobbs, New Mexico for Chloride (EPA Method 4500-B) and Calcium, Magnesium, Potassium, Sodium (EPA Method 200.7) and Sulfate (EPA Method 375.4).

The results of the analysis are as follows:

Lab ID	Sample ID	CI (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Potassium (mg/kg)	Sodium (mg/kg)	Sulfate (mg/kg)
Analysis			08/23/10	08/23/10	08/23/10	08/23/10	08/23/10
Date:	-	08/26/10					
H020663-01	#1SMALL ROCKS	5600	471	34500	619	8940	150000
H020663-02	#2LARGE ROCKS	103	597	126	<5.00	95.7	1950
EPA Methods 4	500 CI-B; 200.7; 375.4	· · · · · · · · · · · · · · · · · · ·					

On August 24, 2010, SESI was onsite to delineate the area by installing a total of nine (9) test trenches, utilizing a backhoe. Paul Evans representative of the Bureau of Land Management (BLM) was notified to witness sampling. Mr. Evans declined stating he had prior arrangements.

Due to the solid rock layer the test trenches were installed at depths ranging from 1-2 feet. Samples were taken from the surface up to 2'. The samples were transported under chain of custody to Cardinal Laboratories of Hobbs, New Mexico for Chloride (EPA Method 4500-B).

The results of the analysis are as follows:

Lab ID	Sample ID	Cl ⁻ (mg/kg)
Analysis Date:	-	08/26/10
H020713-01	TT. A SURFACE	1200
H020713-02	TT. A-1' BGL	192
H020713-03	TT. B-SURFACE	256
H020713-04	TT. C-SURFACE	304
H020713-05	TT. C-1' BGL	160
H020713-06	TT. D-SURFACE	656
H020713-07	TT. D-1' BGL	128
H020713-08	TT. E-SURFACE	1920
H020713-09	TT. E-1' BGL	512

H02071310	TT. E-2' BGL	224
H020713-11	TT. F-SURFACE	656
H020713-12	TT. F-1' BGL	64.0
H020713-13	TT.G-SURFACE	1650
H020713-14	TT. G-1' BGL	304
H020713-15	TT. G-2' BGL	128
H020713-16	TT. H-SURFACE	944
H020713-17	TT. H-1' BGL	304
H020713-18	TT. I-SURFACE	6300
H020713-19	TT. I-1'BGL	128
EPA Method 4500 CI-B		

VII. Action Plan

The most recent delineation of the site indicates that the levels of chloride contamination in the area of concern have changed significantly since the first delineation. This fact can be explained by the amount of rainwater the excavation had encountered within the past six (6) weeks. The rainwater was able to solubilize the chlorides and deposit this solution over the entire excavation in lower concentrations than were present before. However, the most dramatic decrease was most likely caused by the removal of the rainwater while the chlorides were in solution. The chloride concentrations in each test trench were below the target concentration of 250 ppm at 1 foot with the exception of three trenches where the target was attained at 2 feet.

Based on the most recent delineation, SESI proposes the following:

- The most highly contaminated material will be excavated and transported to Controlled Recovery Inc. (CRI), a New Mexico Oil Conservation Division (NMOCD) approved facility, for disposal and the entire excavation will then be backfilled with caliche obtained from the downsizing of the existing well location pad in the northwest corner. This material will be covered with an appropriate amount of topsoil and reseeded per Bureau of Land Management (BLM) guidelines.
- 2. The area on the well pad that was identified as having high chlorides in the first delineation will also be excavated at transported to CRI for disposal. The caliche from the downsizing of the pad will be used to replace the excavated material.

Based on the most recent delineation, Terry Gregston with BLM proposed the following:

- The location will be downsized to below the approved APD pad size stipulations to comply with interim reclamation requirements. The BLM would like to see the pad reduced to not only what was approved in the original APD conditions of approval, but downsized from those dimension to comply with interim reclamation requirements. The approved APDs authorized disturbance of 2.06 acres for both wells combined; the final pad size should be considerably less than this to achieve interim reclamation requirements.
- 2. Final sampling of the excavated areas and bottom sampling will be witnessed by a BLM authorized officer. If no one is available at the proposed sampling time, a mutually agreeable sampling time and date will be set to accommodate all parties. All backfill caliche from the pad will be tested to ensure that it is clean prior to

backfilling by pulling grab samples from the proposed fill material in grid pattern. The spill area can be backfilled with caliche, but must also have at least 1 foot of topsoil similar to the surrounding terrain. The same is true of any interim reclamation areas.

- 3. Once the pad is downsized and all contaminated areas are addressed and backfilled, erosion control measures will be installed on the reclaimed areas to prevent erosion and to help establish vegetation.
- 4. Terry Gregston, (575) 361-2635, will be contacted for a reclamation onsite 3 days prior to pulling the equipment off the location.
- 5. The reclaimed areas will be ripped and seeded with a combination of BLM seed mixes #3 and #4. The BLM is open to the addition of additional seeds that may encourage vegetation establishment, such as utilizing Oenothera (primrose), Verbena bracteata, Glandularia bipinnatifida (Dakota mock vervain), and Ratibida columnifera (upright prairie coneflower) as possible additions to reclamation seed mixes in gypsum soils. Ratibida seed has been successfully used in mining reclamations in soils with a higher than normal chloride content. Dakota mock vervain is already often found in the Hay Hollow area coming in on disturbed soil sites through native seeding (a number of Cimarex sites have this coming in on disturbed areas).
- 6. Three days prior to seeding the reclaimed areas, contact Terry Gregston, (575) 361-2635.
- 7. Cimarex will monitor the reclamation after completion to ensure no erosion develops and that vegetation is successfully established on a sustainable basis.
- 8. Upon completion of this proposal SESI will file the appropriate reports with the NMOCD and the BLM.

VIII. Figures and Appendices

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

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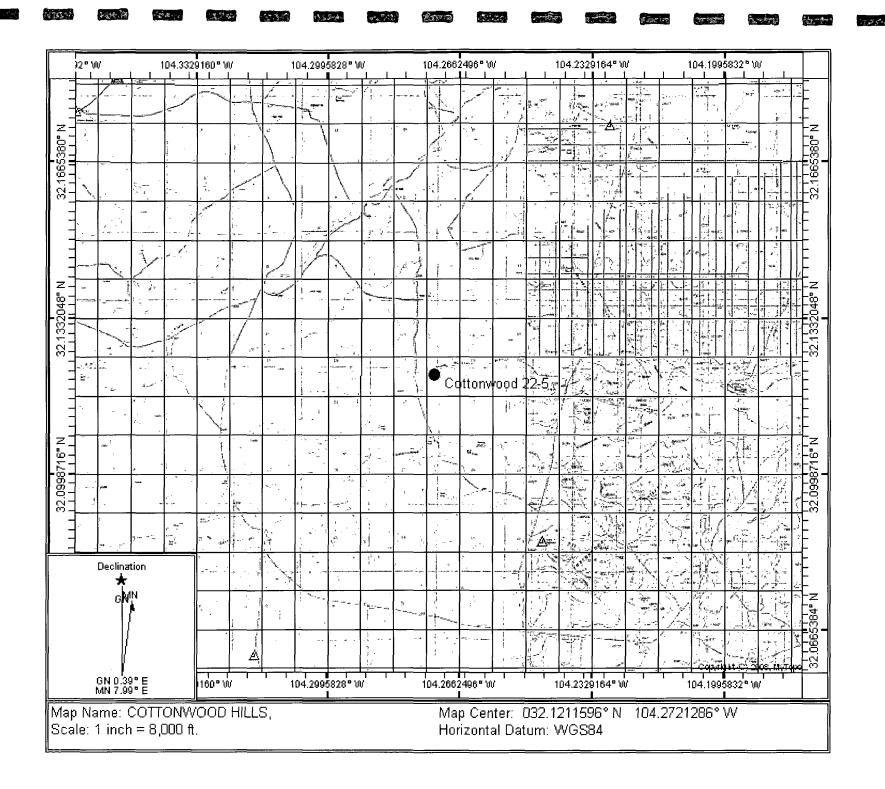
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Figure 1 Vicinity Map



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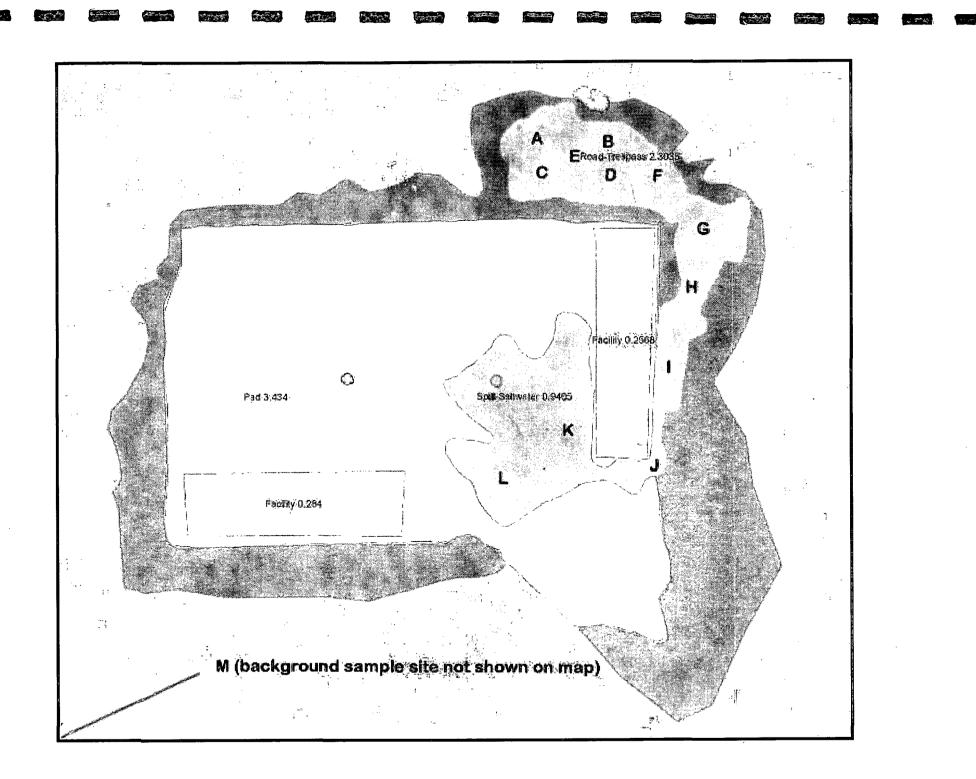
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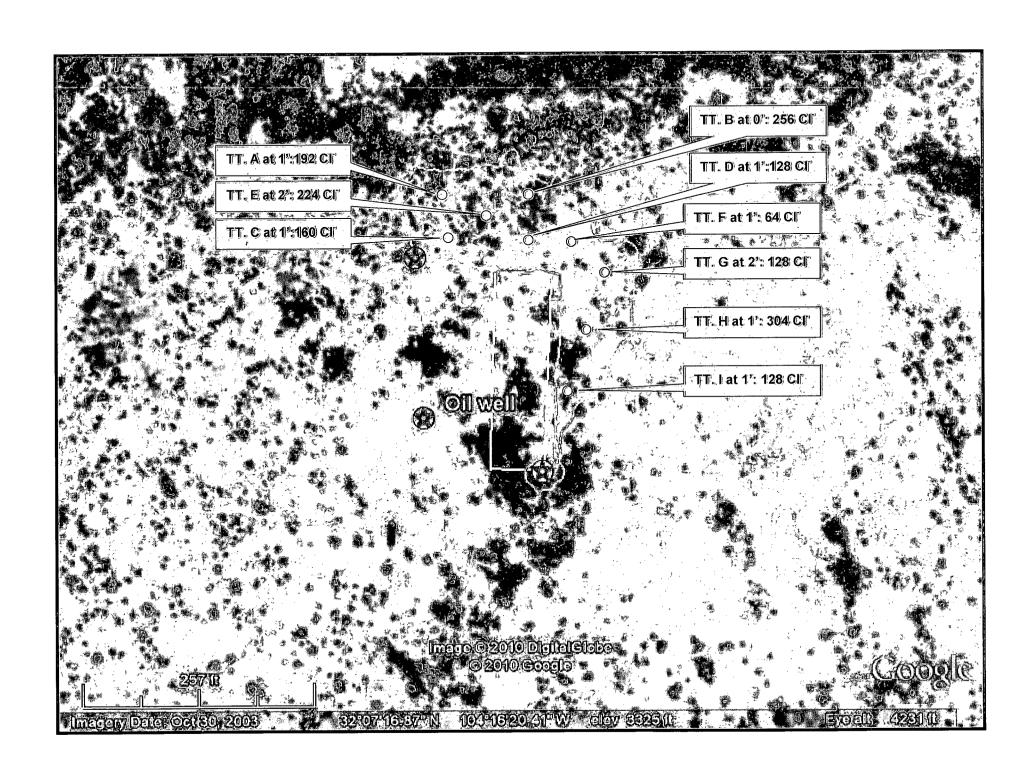
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Figure 2 Site Plan





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Appendix A Analytical Results

August 25, 2010

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

RE: CIM-10-007

Enclosed are the results of analyses for samples received by the laboratory on 08/18/10 9:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod SW-846 8260Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod TX 1005Total 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.Kune

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:	08/18/2010	Sampling Date:	08/17/2010
Reported:	08/25/2010	Sampling Type:	Soil
Project Name:	CIM-10-007	Sampling Condition:	** (See Notes)
Project Number:	COTTONWOOD 22-5	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: #1 SMALL ROCKS (H020663-01)

Calcium, 200.7	mg/	kg	Analyze	d By: JM					GAL
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Calcium	471	5.00	08/23/2010	ND	4.51	113	4.00	10.5	
Magnesium, 200.7	mg/	kg	Analyze	d By: JM					GAL
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Magnesium	34500	5.00	08/23/2010	ND	3.99	99.8	4.00	3.45	
Potassium, 200.7	mg/	kg	Analyze	d By: JM					GAL
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Potassium	619	5.00	08/23/2010	ND	10.4	104	10.0	12.4	
Sodium, 200.7	mg/	kg	Analyze	d By: JM					GAL
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sodium	8940	5.00	08/23/2010	ND	16.7	103	16.2	2.37	
Sulfate 375.4	mg/	'kg	Analyze	d By: JM			· · · · · · · · · · · · · · · · · · ·		GAL
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	150000	10.0	08/23/2010	ND					

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Celey D.Keine

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:	08/18/2010	Sampling Date:	08/17/2010
Reported:	08/25/2010	Sampling Type:	Soil
Project Name:	CIM-10-007	Sampling Condition:	** (See Notes)
Project Number:	COTTONWOOD 22-5	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: #2 LARGE ROCKS (H020663-02)

Calcium, 200.7	mg	/kg	Analyze	d By: JM			<u></u>		GAL
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Calcium	597	5.00	08/23/2010	ND	4.51	113	4.00	10.5	
Magnesium, 200.7	mg	/kg	Analyze	d By: JM				· · · · · · · · · · · · · · · · · · ·	GAL
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Magnesium	126	5.00	08/23/2010	ND	3.99	99.8	4.00	3.45	
Potassium, 200.7	mg	/kg	Analyze	d By: JM					GAL
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Potassium	<5.00	5.00	08/23/2010	ND	10.4	104	10.0	12.4	
Sodium, 200.7	mg	/kg	Analyze	d By: JM					GAL
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sodium	95.7	5.00	08/23/2010	ND	16.7	103	16.2	2.37	
Sulfate 375.4	mg	/kg	Analyze	d By: JM					GAL
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	1950	10.0	08/23/2010	ND					

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Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories. Analyte NOT DETECTED at or above the reporting limit Relative Percent Difference Samples not received at proper temperature of 6°C or below. Insufficient time to reach temperature. Chloride by SM4500CI-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

Cardinal Laboratories

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Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

08/18/2010	Sampling Date:	08/17/2010
08/27/2010	Sampling Type:	Soil
CIM-10-007	Sampling Condition:	** (See Notes)
COTTONWOOD 22-5	Sample Received By:	Jodi Henson
CARLSBAD, NEW MEXICO		
	08/27/2010 CIM-10-007 COTTONWOOD 22-5	08/27/2010Sampling Type:CIM-10-007Sampling Condition:COTTONWOOD 22-5Sample Received By:

Sample ID: #1 SMALL ROCKS (H020663-01)

2.00

12 P	Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: JM					GAL
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
4 P 4	Chloride	5600	10.0	08/26/2010	ND	66.0	93.0	71.0		

Sample ID: #2 LARGE ROCKS (H020663-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: JM					GAL	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	103	10.0	08/26/2010	ND	66.0	93.0	71.0			

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Celev D. Kune

Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.
Analyte NOT DETECTED at or above the reporting limit
Relative Percent Difference
Samples not received at proper temperature of 6°C or below.
Insufficient time to reach temperature.
Chloride by SM4500CI-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

Cardinal Laboratories

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*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dalm 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 whistoever shall be deemed waves 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 inodential or consequential camages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subscularies, 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 blow 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.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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August 27, 2010

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

RE: CIM-10-007

Enclosed are the results of analyses for samples received by the laboratory on 08/24/10 15:35.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod SW-846 8260Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod TX 1005Total 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.Kune

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:	08/24/2010	Sampling Date:	08/24/2010
Reported:	08/27/2010	Sampling Type:	Soil
Project Name:	CIM-10-007	Sampling Condition:	Cool & Intact
Project Number:	COTTONWOOD 22 #5	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: TT. A - SURFACE (H020713-01)

4.4

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
 Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: TT. A - 1' BGL (H020713-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: TT. B - SURFACE (H020713-03)

	Chloride, SM4\$00Cl-B	mg	/kg	Analyze	d By: HM					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
· 2.4	Chloride	256	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: TT. C - SURFACE (H020713-04)

1.4	Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Em8 (Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Chloride	304	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: TT. C - 1' BGL (H020713-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1	Chloride	160	16.0	08/26/2010	ND	432	108	400	0.00	

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*=Accredited Analyte

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Celey D. Keine

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:	08/24/2010	Sampling Date:	08/24/2010
Reported:	08/27/2010	Sampling Type:	Soil
Project Name:	CIM-10-007	Sampling Condition:	Cool & Intact
Project Number:	COTTONWOOD 22 #5	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: TT. D - SURFACE (H020713-06)

東京語

1.2 2	Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Chloride	656	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: TT D. ~ 1' BGL (H020713-07)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: TT. E - SURFACE (H020713-08)

	Chloride, SM4500Cl-B	mg/	mg/kg Analyzed By: HM							
3	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Chloride	1920	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: TT. E - 1' BGL (H020713-09)

31. e	Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
10	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Chloride	512	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: TT. E ~ 2' BGL (H020713-10)

ł	Chloride, SM4500CI-B	CI-B mg/kg		Analyze						
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Chloride	224	16.0	08/26/2010	ND	432	108	400	0.00	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

CARDINAL

Analytical Results For:

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

Received:	08/24/2010	Sampling Date:	08/24/2010
Reported:	08/27/2010	Sampling Type:	Soil
Project Name:	CIM-10-007	Sampling Condition:	Cool & Intact
Project Number:	COTTONWOOD 22 #5	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: TT. F - SURFACE (H020713-11)

887 756	Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Survey and	Chloride	656	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: TT. F - 1' BGL (H020713-12)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM				<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: TT. G - SURFACE (H020713-13)

() 4	Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM							
	Analyte	Result	Reporting Limit	Anałyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
	Chloride	1650	16.0	08/26/2010	ND	432	108	400	0.00		

Sample ID: TT. G - 1' BGL (H020713-14)

A	Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: HM					
100	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Chloride	304	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: TT. G - 2' BGL (H020713-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/26/2010	ND	432	108	400	0.00	

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Celey D.Keine

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

08/24/2010	Sampling Date:	08/24/2010
08/27/2010	Sampling Type:	Soil
CIM-10-007	Sampling Condition:	Cool & Intact
COTTONWOOD 22 #5	Sample Received By:	Celey D. Keene
CARLSBAD, NEW MEXICO		
	08/27/2010 CIM-10-007 COTTONWOOD 22 #5	08/27/2010Sampling Type:CIM-10-007Sampling Condition:COTTONWOOD 22 #5Sample Received By:

Sample ID: TT. H - SURFACE (H020713-16)

Stor and

ст. Хар	Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2 au	Chloride	944	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: TT. H - 1' BGL (H020713-17)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: TT. I - SURFACE (H020713-18)

1	Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					·····
•	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Chloride	6300	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: TT. I - 1' BGL (H020713-19)

2	Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
and a second	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Chloride	128	16.0	08/26/2010	ND	432	108	400	0.00	

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Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

Analyte NOT DETECTED at or above the reporting limit

Relative Percent Difference

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

Insufficient time to reach temperature.

Chloride by SM4500CI-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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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager

		CHAIN-OF-CUSTODY	AND ANALYSIS REQUEST
	East Marland, Hobbs, NM 8824 5) 393-2326 Fax (505) 393-2476	0	Page 1 of 2
Company Name: SEST		ANALYSIS	REQUEST
Project Manager: Bob Allen	[]]][]], []Q PO #:		
Address: 703 E. CLINTON, #103	Company: SAME		
City: HOBBS State: NM Zip: 88240	Altn:		
Phone #: (505) 397-0510	Address:		
Fax #: (505) 393-4388	City:		
Project #: Cim - 10-00 - Project Owner: C: Marrier	State: Zlp:		
Project Name: Cottenwood 22#5	Phone #:		
Project Location: Edge (onite	Fax #:		
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2111 Beechwood, Abilene, TX 79603 101 (915) 073-7001 Fax (915) 073-7020 (505		-	Page 2 of 2
Company Name: SEST	•	ANALYSI	IS REQUEST
Project Manager:	<i>[]]]]]],]]Q</i> PO <i>#</i> :		
Address: 703 E. CLINTON, #103	Company: SAME		
City: HOBBS State: NM Zip: 88240	Aitn:		
Phona #: (505) 397-0510	Address:		
Fax #: (505) 393-4388	city:		
Project #: CIM-10-007 Project Owner: Cimerex	State: Zlp:		
Project Name: Cottonwood22#5	Phone #:		

Project Name: Co	Howwood 22	1#5	Phone #:	·							
Project Location:	Eddy Com	ς.	Fax #:		1.						
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13	TT.G-SyrFace		X	1123	×						
10	TT.G-1'bal	GINK	X	1134	X						
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17	TT. H-1'bal	GIX	X	1219 ×	$\langle $						
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Appendix B Site Photographs

Configuration .

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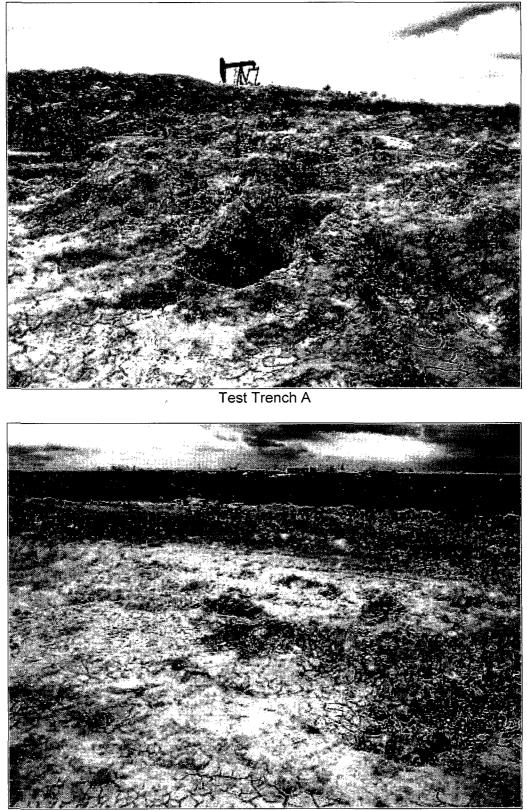
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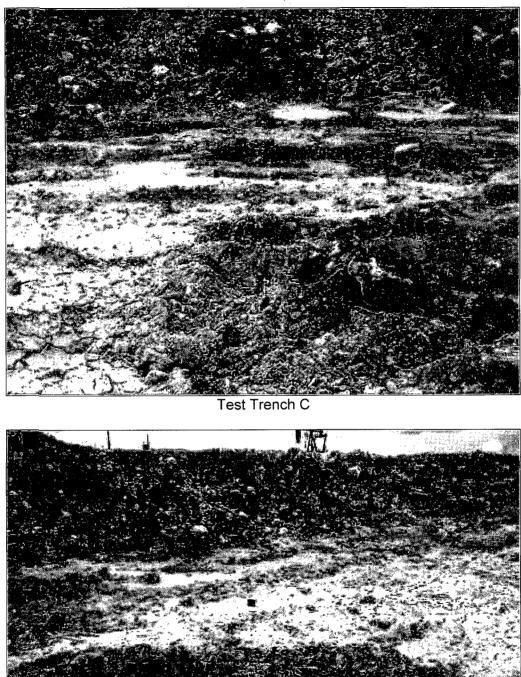
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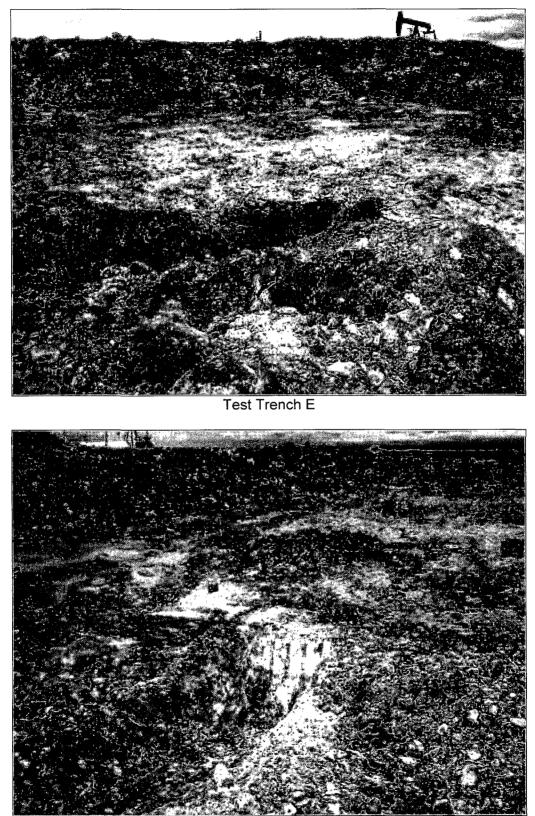
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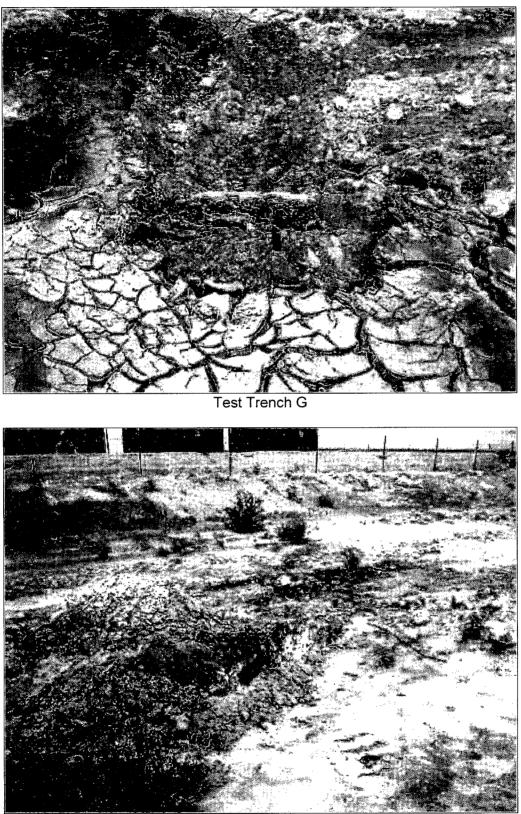
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Table 5.8. Frank D., same Fr, NW 87000 Santa Fre, NM 87050 sale 01 0000 Release Notification and Corrective Action OPERATOR Sinital Report Finital Repor	<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District 11</u> 	neral Conse Sou	f New Mex s and Natura ervation Div th St. Franc	ED Revised October 10, 2003 Solution 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form						
OPERATOR □ Initial Report □ Final Report Name of Compary: Cimarcs Energy Contact: Tery Ainsworth □ Contact: Tery Ainsworth Address: 600 N Marienfield Suite 600, Midland TX 79701 □ Telephone No. (573) 390-1388 Facility Name: Cottonwood Draw 22 Federal Com # 5 □ Pacifixity Type: Battery Surface Owner Mineral Owner Lease No. Lease No. □ Contact: North North North □ Contact: North North 22 25 Section Township Range Feet from the North North North □ Contact: North North Line □ Lease No. □ Contact: North North □ Date and Hour □ County Line □ Date and Hour Of Decovered □ Date and Hour of Discovery □ Unknown Source of Release Unknown □ Date and Hour □ Date and Hour of Discovery Was Immediate Notice Given? □ Yes ⊠ No □ Not Required □ Pressource □ Date and Hour: Was a Watercourse Reached? □ Yes ⊠ No □ Pres ⊠ No □ Press ∪ No □ Pressource If a Watercourse was Impacted, Describe Paily.* □ □ Date and Hour: □ Was a Watercourse Reached? □ Yes ⊠ No □ Press \start Nothor? □ Pressource <				and the second	05					
Name of Company: Cinarex Energy Contact: Terry Ainsworth Address: 600 Marinefield Subie 600. Mildand TX 79701 Telephone No. (575) 390-1388 Facility Name: Cottonwood Draw 22 Federal Com # 5 Facility Type: Battery Surface Owner Incral Owner Loca TION OF RELEASE County Unit Letter Section Township 22 255 26E Variance Structure Control County East/West Line East/West County 22 255 26E Natrue OF RELEASE Type of Release: Unknown Natrue of Release Unknown Volume of Release Unknown Volume Recovered Unknown Source of Release: Unknown Date and Hour of Occurrence Date and Hour of Discovery Unknown Was Immediate Notice Given? Yes S No If YES, To Whom? Mike Bratcher, NMOCD Was a Watercourse was Impacted, Describe Fully.* Date and Hour: Yes No If YES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* Yes No If YES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* SSSI was contracted for asse	Kele	ase notine								
Address: 600 N Marienfeld Suite 600, Midland TX 7901 Telephone No. (573) 390-1388 Facility Name: Cottonwood Draw 22 Federal Com # 5 Facility Type: Battery Surface Owner Mineral Owner Line Lease No. Unit Letter Section Township 22 25S 26B Value Peet from the North/South Lease No. Line Line Eddy Surface Owner NatURE OF RELEASE County Type of Release: Unknown Volume of Release Unknown Volume of Discovery Was Immediate Notice Given? Date and Hour of Discovery Unknown Was Immediate Notice Given? Yes Date and Hour of Discovery Was Immediate Notice Given? Yes No HYES, To Whom? Time Adaptava-L Was a Witerowne Reacher? Yes No HYES, Volume Impacting the Waterocurse. If a Waterowne was Impacted, Describe Puly.* Peer Mo HYES, Volume Impacting the Waterocurse. Describe Cause of Problem and Remedial Action Taken.* The cause is unknown, SESI was contacted for assessment. The affected area-was deliacated and results are pending. Describe Cause of Problem and Remedial Action Taken.* Condibines and permit of itability should their persuant to NMOCD rul	Name of Company: Cimarex Energy		01				eport Final Report			
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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: Signature: OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Title: Approval Date: Expiration Date: E-mail Address: tainsworth@cimarex.com Conditions of Approval: Attached Date: Phone: (575) 390-1388 Phone: (575) 390-1388	Describe Area Affected and Cleanup Action Taken	1.*								
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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: Signature: OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Approved by District Supervisor: Title: Approval Date: Expiration Date: E-mail Address: tainsworth@cimarex.com Conditions of Approval: Attached [] Date: Phone: (575) 390-1388 Conditions of Approval: Attached []		×								
Signature: Juny 11100 \$\frac{35}{10}\$ Printed Name: Terry Ainsworth Title: Approval Date: E-mail Address: tainsworth@cimarex.com Date: Phone: (575) 390-1388	regulations all operators are required to report and/ public health or the environment. The acceptance of should their operations have failed to adequately in or the environment. In addition, NMOCD acceptant	or file certain rel of a C-141 report vestigate and ren	ease n by the nediate	otifications and NMOCD mar contamination	l perform correcti ked as "Final Rep that pose a threa	ive actions for rel port" does not rel at to ground water	eases which may endanger leve the operator of liability ; surface water, human health			
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Printed Name: Terry Aiñsworth Approval Date: Title: Approval Date: E-mail Address: tainsworth@cimarex.com Conditions of Approval: Date: Phone: (575) 390-1388	Signature: Secury Allinos	\$30/10								
E-mail Address: tainsworth@cimarex.com Date: Phone: (575) 390-1388 Conditions of Approval: Attached	Printed Name: Terry Ainsworth	·		Approved by D	istrict Supervisor					
Date: Phone: (575) 390-1388	Title:			Approval Date:		Expiration 1	Date:			
Date: Phone: (575) 390-1388	E-mail Address: tainsworth@cimarex.com		Conditions of Approval:							
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		13) 390-1388				·	L			