

Basic Energy Services Bondurant Fed #10 Closure Report

**Section 1, T19S, R32E
Lea County, New Mexico**

December 9, 2014



Prepared for:

**Basic Energy Services
P.O. Box 1869
Eunice, NM 88231**

By:

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

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I. Company Contacts

Representative	Company	Telephone	E-mail
Kirk Demille	Basic Energy Service	702-595-1803	Kirk.demille@basicenergyservices.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Basic Energy Service to perform site assessment of a release area at the Bondurant Fed #10 located in Section 01 of Township 19 South, Range 32 East, Lea County, New Mexico.

According to the C-141 dated November 11, 2014 the cause of release was a Basic water hauler was filling his truck from the load line and inadvertently left the valve partially open.

III. Surface and Ground Water

The New Mexico Office of State Engineer record shows no record of water within a 5 mile radius of Section 01 Range 32 East and Township 19 South.

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 5,000 ppm Total Petroleum Hydrocarbons (TPH).

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

V. Work Performed

On November 12, 2014 SESI was onsite to perform a site assessment. SESI observed the spill area and site photos were taken.

On November 13, 2014 SESI was onsite to map the release area utilizing a Trimble Juno 3D.

On November 21, 2014 SESI was onsite to delineate and take samples. Samples BH 1 were taken at a depth of 16-18" and samples BH 2 at a depth of 14-16". All samples were properly packaged, preserved and transported to the Laboratory, Hobbs New Mexico and analyzed Chloride (Cl⁻) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Sample Date 11/21/2014	Sample ID	Chloride (Cl)
Depth	Method	
BH 1 at 16-18"	SM4500Cl-B	112
BH 2 at 14-16"	SM4500Cl-B	240

In January 2015, the spill area was excavated and confirmation samples were taken for the bottom of the excavation. All samples were properly packaged, preserved and transported to the Laboratory, Hobbs New Mexico and analyzed Chloride (Cl⁻) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Sample Date 1/05/2015	Sample ID	Chloride (Cl)
Depth	Method	
SP -1 at 1.5'	SM4500Cl-B	144
SP -2 at 1.5'	SM4500Cl-B	80
SP -3 at 1.5'	SM4500Cl-B	48
SP -4 at 1.5'	SM4500Cl-B	32

VI. Closure Plan

The entire spill area was excavated to a depth of 18" and the contaminated soil was transported to R360 for disposal. A total of 352 cubic yards was sent to disposal. The excavation was backfilled with clean soil and returned to original grade.

VII. Figures & Appendices

- Figure 1 – Vicinity Map
- Figure 2 – Site Plan
- Figure 3 – NMOCD Trend Map
- Appendix A – Analytical Results
- Appendix B – C-141
- Appendix C – Site Photos

Figure 1
Vicinity Map

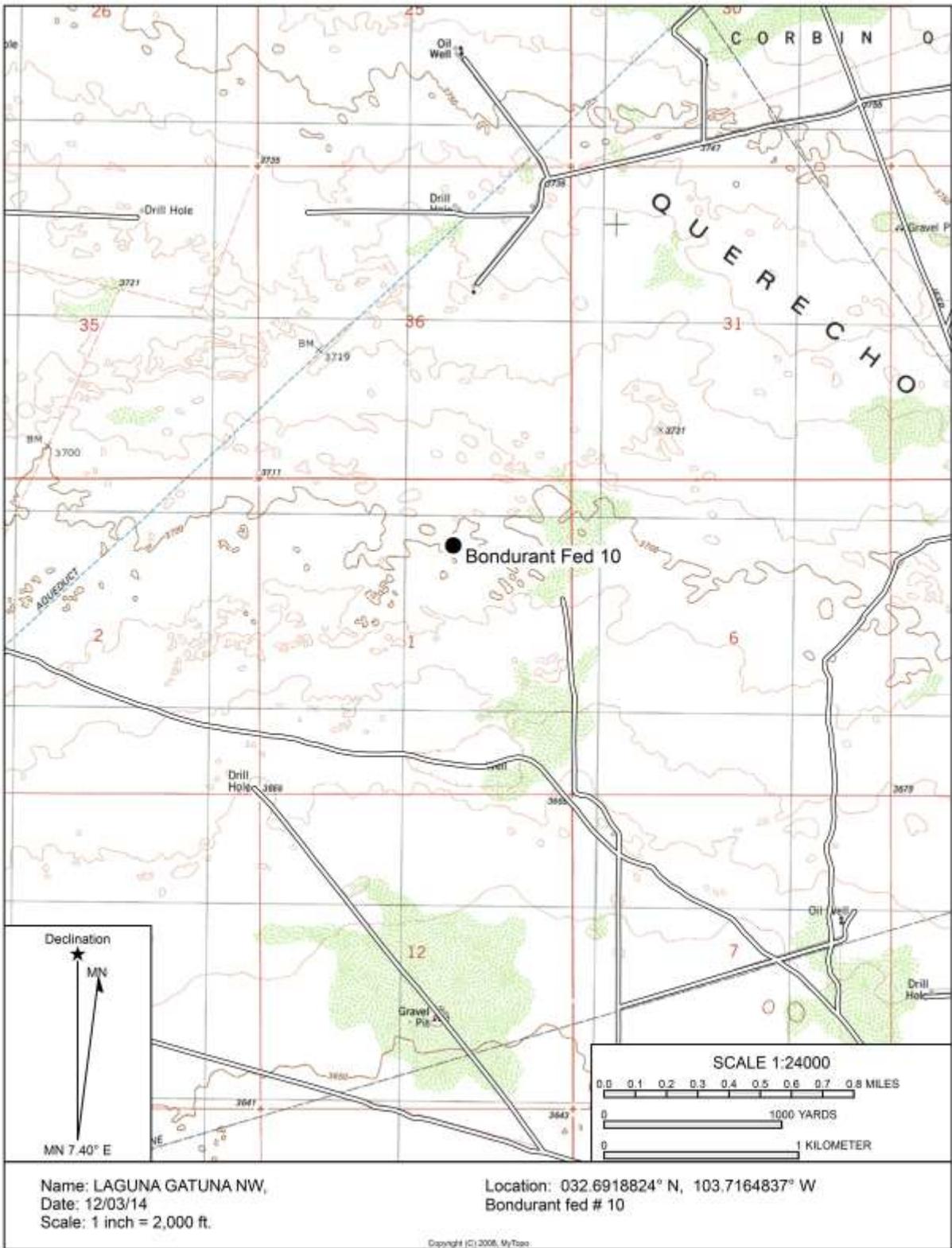
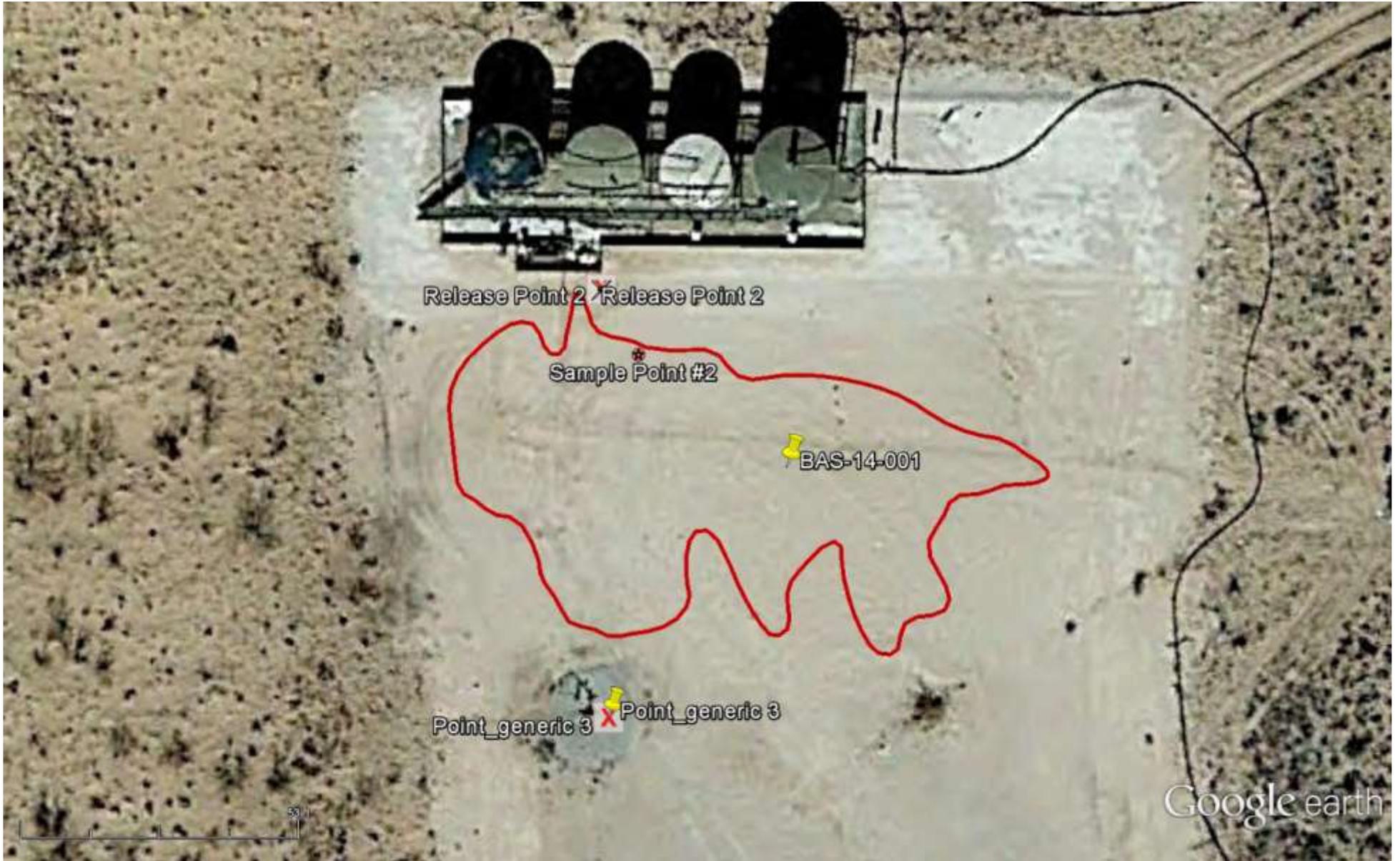
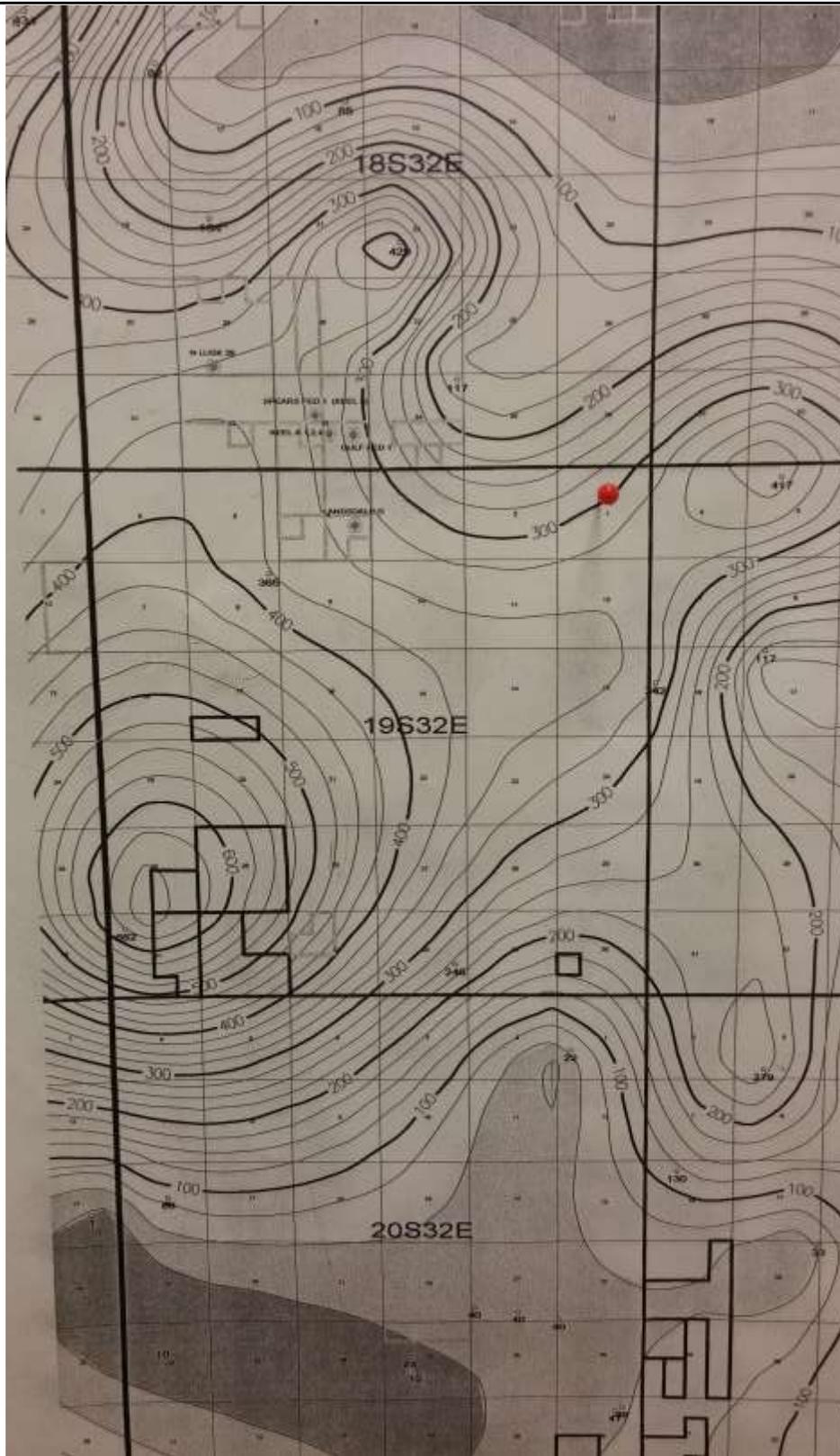


Figure 2
Site Plan



Bondurant Fed #10

Figure 3 NMOCD Trend Map



NMOCD Trend Map

Appendix A

Analytical Results



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

November 26, 2014

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

RE: BONDURANT FED #10

Enclosed are the results of analyses for samples received by the laboratory on 11/24/14 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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 (V1, 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,

A handwritten signature in black ink that reads "Hope S. Moreno". The signature is written in a cursive style.

Hope S. Moreno For Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/24/2014	Sampling Date:	11/21/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	BONDURANT FED #10	Sampling Condition:	** (See Notes)
Project Number:	BAS-14-001	Sample Received By:	Jodi Henson
Project Location:	SMITH RANCH ROAD		

Sample ID: BH-1 16 - 18" (H403612-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/25/2014	ND	416	104	400	3.92		

Sample ID: BH-2 14 - 16" (H403612-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/25/2014	ND	416	104	400	3.92		

Cardinal Laboratories

*=Accredited Analyte

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Hope S. Moreno

Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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Hope S. Moreno

Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2226 Fax (505) 393-2478

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: Safety & Environmental Solutions, Inc.
 Project Manager: Bob Allen
 Address: 703 East Clinton
 City: Hobbs State: NM Zip: 88240
 Phone #: 575-397-0510 Fax #: 575-393-4388
 Project #: BAS-14-001 Project Owner:
 Project Name: Bordenberg Ref #1D
 Project Location: Smith Run 4 Rd
 Sampler Name: D Boyer
 P.O. #: BILLYTO
 Company: Same
 Address:
 City:
 State: Zip:
 Phone #: Fax #:
 PRESERV SAMPLING

Lab I.D.	Sample I.D.	MATRIX						DATE	TIME	ANALYSIS REQUEST
		(G)RAB OR (C)OMP	CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL			
HUC05612	BH-1 16-18"							2014	1530	Chloride
2	BH-2 14-16"					X	X	11/21	1530	

Relinquished By: [Signature]
 Delivered By: (Circle One) [Signature]
 Sampler - UPS - Bus - Other: #54

1 Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2478.

Confirmation Samples



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

January 05, 2015

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

RE: RONDURANT FED #10

Enclosed are the results of analyses for samples received by the laboratory on 12/29/14 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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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,

A handwritten signature in cursive script that reads "Celey D. Keene".

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:	12/29/2014	Sampling Date:	12/22/2014
Reported:	01/05/2015	Sampling Type:	Soil
Project Name:	RONDURANT FED #10	Sampling Condition:	Cool & Intact
Project Number:	BAS-14-001	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP-1 1.5' BGS (H403936-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/31/2014	ND	400	100	400	3.92		

Sample ID: SP-2 1.5' BGS (H403936-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/31/2014	ND	400	100	400	3.92		

Sample ID: SP-3 1.5' BGS (H403936-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/31/2014	ND	400	100	400	3.92		

Sample ID: SP-4 1.5' BGS (H403936-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/31/2014	ND	400	100	400	3.92		

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* - Accredited Analyte

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Cately D. Keene, Lab Director/Quality Manager

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

Cardinal Laboratories

* = Accredited Analyte

CLAIM NOTE: Sample and Storage: Cardinal Quality and Service includes services for any data testing, whether based in contract or not, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other claim whatsoever shall be limited to the amount paid to 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 interruption, loss of use, or loss of profits, caused by itself, its subsidiaries, affiliates or successors directly and/or indirectly in the performance of the services furnished by Cardinal, regardless of whether such claim is based upon any of the above stated causes 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. Keene, Lab Director/Quality Manager

Appendix B

C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Cimax Energy	Contact Christine Alderman
Address 600 N Marienfeld Ste 600 Midland TX	Telephone No. 432-853-7059
Facility Name Bondurant 10 SWD	Facility Type SWD

Surface Owner	Mineral Owner	API No. 30-025-32431
---------------	---------------	----------------------

LOCATION OF RELEASE

Unit Letter B	Section 01	Township 19S	Range 32E	Feet from the 990	North/South Line N	Feet from the 1980	East/West Line E	County Lea
------------------	---------------	-----------------	--------------	----------------------	-----------------------	-----------------------	---------------------	---------------

Latitude 32.6938 Longitude -103.71766

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 40 bbls	Volume Recovered 15 bbls
Source of Release load line	Date and Hour of Occurrence 11/11/2014	Date and Hour of Discovery 11/11/2014
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Doc Oberding	
By Whom? Gloria Garza	Date and Hour 11/12/2014	
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.*
A Basic Water hauler was filling his truck from the load line and inadvertently left the valve partially open.

Describe Area Affected and Cleanup Action Taken.*
Basic has contacted SESI in Hobbs to remediate the impacted soils.

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>Christine Alderman</i>	OIL CONSERVATION DIVISION	
Printed Name: Christine Alderman	Approved by Environmental Specialist:	
Title: ESH Supervisor	Approval Date:	Expiration Date:
E-mail Address: calderman@cimax.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	Phone: 432-853-7059	

* Attach Additional Sheets If Necessary

Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Cimarex Energy	Contact: Christine Alderman
Address: 600 N Marienfeld Ste 600 Midland TX	Telephone No.: 432.853.7059
Facility Name: Bondurant 10 SWD	Facility Type: SWD
Surface Owner	Mineral Owner
API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	1	19S	32E	900	N	1980	E	Lea

Latitude 32.6938 Longitude -103.71766

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 40BBLS	Volume Recovered: 15 BBLs
Source of Release: Load Line	Date and Hour of Occurrence 11/11/2014	Date and Hour of Discovery 11/11/2014
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Doc Oberding	
By Whom? Gloria Garza	Date and Hour: 11/12/2014	
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.*
A basic water hauler was filling his truck from the load line and inadvertently left the valve partially open.

Describe Area Affected and Cleanup Action Taken.*
The approved workplan has been successfully completed.

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>Christine Alderman</i>	OIL CONSERVATION DIVISION Hydrologist	
Printed Name: Christine Alderman	Approved by: <i>Environmental Speciali</i>	
Title: ESH Supervisor	Approval Date: 02/10/2015	Expiration Date: //
E-mail Address: calderman@cimarex.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2-9-15 Phone: 432.853.7059	//	1RP-3425

* Attach Additional Sheets If Necessary

Appendix C

Site Photographs



North Part of Release



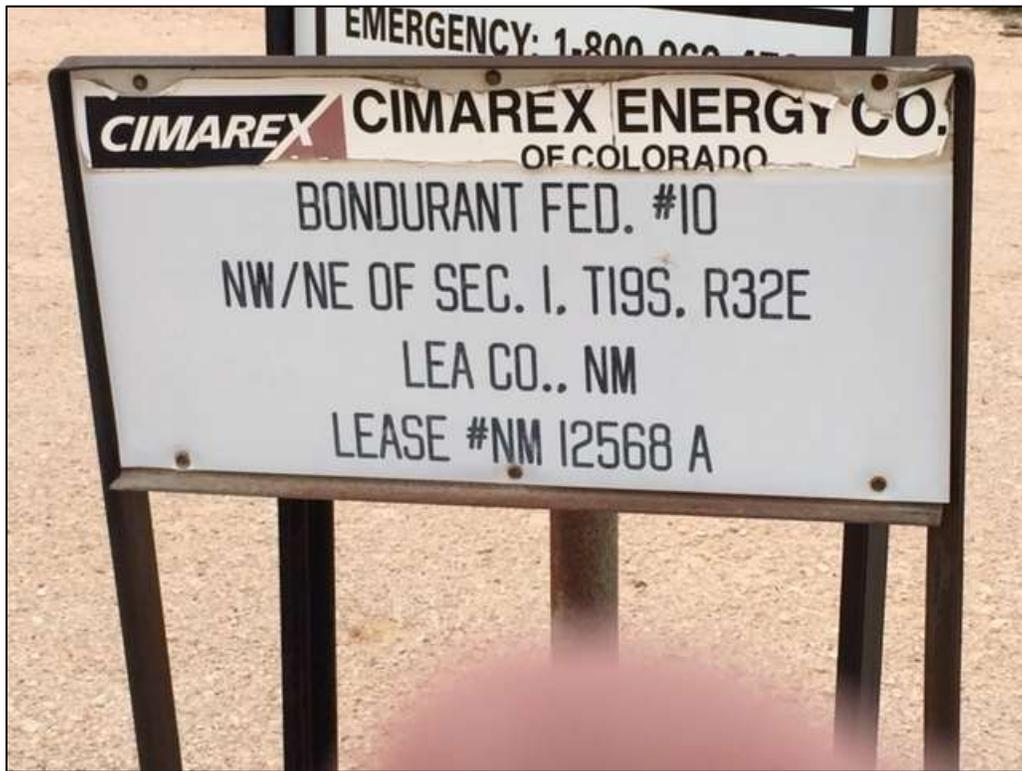
South Part of Release



North Part of Release



South Part of Release



Sign



Supplied by Basic Energy



Supplied by Basic Energy

Final Photos



Lease Sign (Photo # 1)



Looking at tanks facing West (Photo # 2)



Northeast side of pad looking West (Photo # 3)



Middle of location looking West (Photo # 4)



Southeast side looking West (Photo # 5)



Southwest side looking North (Photo # 6)



Middle of pad on the South side looking North (Photo # 7)



Southwest corner Facing East(Photo # 8)



Middle of pad on the West side looking East (Photo # 9)



East side of tanks looking North (Photo # 10)



North of location looking South(Photo # 11)



North of location looking South (Photo # 12)



Northwest looking Southeast (Photo # 13)



Southwest corner looking East (Photo # 14)



Southwest corner looking Northeast (Photo # 15)