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Work Plan

**Cimarex Energy Co.: Bonnie 35 Federal Com #1
[30-015-42956|2RP-3519]**

March 24, 2016

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

Prepared For:

Cimarex Energy Company

Ms. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Soil Assessment and Remediation Work Plan**
Cimarex Energy Co.
Bonnie 35 Fe Com #1 (30-15-42956) *2RP-3519*

Dear Mr. Bratcher,

Cimarex Energy Company (Cimarex) has contracted Talon/LPE (Talon) to perform soil sampling and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Site Information

The Cimarex Bonnie 35 Fed Com #1 is located approximately thirty-three (33) miles south of Carlsbad, New Mexico. The legal location for this facility is Unit Letter P, Section 35, Township 25 South and Range 26 East in Eddy County, New Mexico. More specifically the latitude and longitude are 32.07943 North and -104.26348 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Reeves-gypsum land complex with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the New Mexico Office of the State Engineer database, the ground water in this area is approximately 31-feet below ground surface (BGS). Therefore the ranking for this site is a **20** based on the following:

Depth to ground water	<50'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 100 mg/kg for TPH and 1,000 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On January 25, 2016 a hammer union on a water transfer line vibrated loose resulting in the release of approximately 20bbls of produced water. A vacuum truck was dispatched to the site to recover the standing fluid. Approximately 5bbls of produced water were recovered. On March 16, 2016 Talon mobilized personnel to conduct a site assessment and soil sampling within the impacted area utilizing a hand auger. Refusal was encountered at depths between 1 and 2-feet BGS. The results of our soil sampling event are summarized in the table below.

Laboratory Results

See [Appendix IV](#) for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	ND	56000	ND	14.1
S-1 Refusal	1	--	288	--	--
S-2	0	ND	13800	ND	11.8
S-2	1	--	1550	--	--
S-2 Refusal	2	--	496	--	--
S-3	0	ND	9600	ND	ND
S-3	1	--	416	--	--
S-3 Refusal	1.5	--	1310	--	--

(--) Analyte Not Tested

(ND) Analyte Not Detected

Conclusions and Proposed Remedial Actions

- The impacted area in the vicinity of sample location S-1 will be excavated to a depth of 1-foot BGS.
- The impacted area in the vicinity of sample locations S-2 and S-3 will be excavated to a depth of 2-feet BGS.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavated area will be backfilled with caliche and contoured to match the surrounding location.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE


Sheldon L. Hitchcock
Project Manager

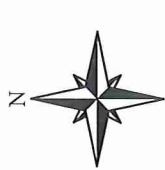

David J. Adkins
District Manager

Attachments

Appendix I Site Plan
Appendix II Groundwater Data
Appendix III Initial C-141
Appendix IV Laboratory Results

APPENDIX I

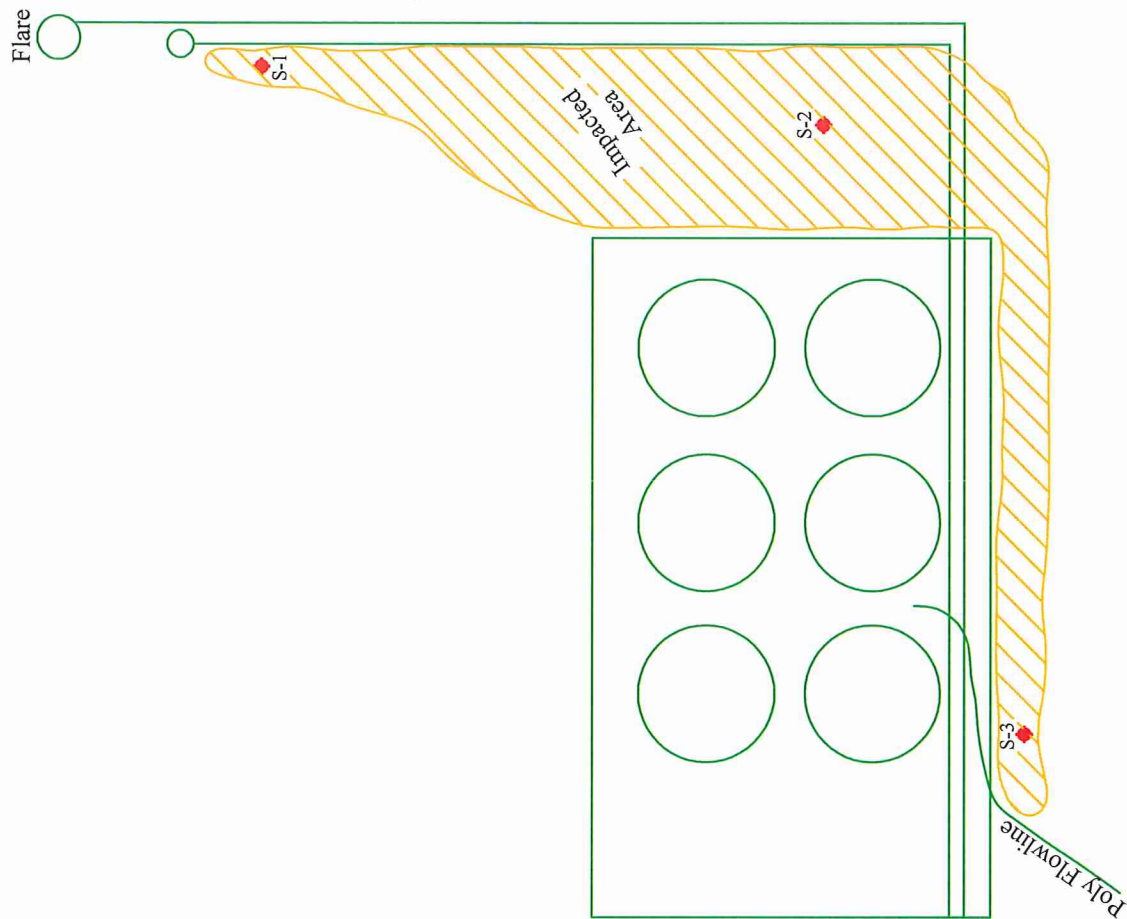
SITE PLAN



NTS
Scale in Feet

Legend

◆ - Sample Location



Date: 03/23/2016

Scale: NTS

Drawn By: TJS

Bonnie 35 Fed #1
Cimarex Energy
Eddy County, New Mexico
Figure 1 - Site Plan

APPENDIX II

GROUNDWATER DATA



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub- Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 01013	C	ED		4	25	25S	26E			571505	3551456*	2307	245		
C 02221	CUB	ED		4	3	2	25	25S	26E	571412	3551961*	2676	35		
C 02220	CUB	ED		3	1	2	26	25S	26E	569598	3552352*	2760	35		
C 02438		ED		4	2	3	12	26S	26E	571015	3546705*	3073	30		
C 03655 POD3	CUB	ED		1	4	4	22	25S	26E	568458	3553019	3756			
C 02218	CUB	ED		4	1	4	07	26S	27E	573039	3546725*	4144	35		
C 03654 POD1	CUB	ED		2	3	1	24	25S	26E	570654	3553773	4176			
C 02439		ED		2	4	2	15	26S	26E	568614	3545697*	4204	30		
C 01887	C	ED		4	4	2	15	26S	26E	568614	3545497*	4392	53	31	22

Average Depth to Water: 31 feet

Minimum Depth: 31 feet

Maximum Depth: 31 feet

Record Count: 9

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 570088

Northing (Y): 3549635

Radius: 5000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

APPENDIX III

INITIAL C-141

NM OIL CONSERVATION

ARTESIA DISTRICT

JAN 26 2016

Form C-141
Revised August 8, 2011

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

RECEIVED

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

Release Notification and Corrective Action

NAB1602733517

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Cimarex Energy	Contact: Gloria Garza
Address: 600 N Marienfeld Ste 600 Midland TX	Telephone No. 432-234-3204
Facility Name: Bonnie 35 Federal Com	Facility Type: Tank Battery

Surface Owner: Federal	Mineral Owner	API No.: 30-015-42956
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LOCATION OF RELEASE

Unit Letter P	Section 35	Township 25S	Range 26E	Feet from the 200	North/South Line FSL	Feet from the 970	East/West Line FEL	County Eddy
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Latitude: 32.0795801765834 _ Longitude: -104.258295270376 _

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 20 BBL/S	Volume Recovered: 5 BBL/S
Source of Release: Water transfer line	Date and Hour of Occurrence: 1/25/2015	Date and Hour of Discovery: 1/25/2016 2:00 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/Jeff Robertson	
By Whom? Gloria Garza	Date and Hour: 1/26/2015 9:00 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.*
A hammer union on the water transfer line came loose due to vibration from pressure.

Describe Area Affected and Cleanup Action Taken.*
Diversified Environmental Services will remediate the impacted soil.

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: <u>Gloria Garza</u>	OIL CONSERVATION DIVISION	
Printed Name: Gloria Garza	Signed By: <u>Mike Bratcher</u>	
Title: ESH Tech	Approved by Environmental Specialist:	
E-mail Address: ggarza@cimarex.com	Approval Date: <u>1/27/16</u>	Expiration Date: <u>NA</u>
Date: 1/26/16 Phone: 432-234-3204	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/> SUBMIT REMEDIATION PROPOSAL NO <input type="checkbox"/> LATER THAN: <u>2/27/16</u>	

* Attach Additional Sheets If Necessary

2RP-3519

APPENDIX IV

LABORATORY RESULTS



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

March 22, 2016

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BONNIE 35 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 03/17/16 10:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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.

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,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/17/2016
Reported: 03/22/2016
Project Name: BONNIE 35 FED #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 0' (H600587-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2016	ND	2.17	109	2.00	8.02	
Toluene*	<0.050	0.050	03/21/2016	ND	2.09	104	2.00	8.09	
Ethylbenzene*	<0.050	0.050	03/21/2016	ND	1.87	93.6	2.00	9.35	
Total Xylenes*	<0.150	0.150	03/21/2016	ND	5.76	96.0	6.00	8.33	
Total BTEX	<0.300	0.300	03/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	56000	16.0	03/18/2016	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/18/2016	ND	177	88.7	200	0.503	
DRO >C10-C28	14.1	10.0	03/18/2016	ND	178	89.2	200	0.477	

Surrogate: 1-Chlorooctane 92.2 % 35-147

Surrogate: 1-Chlorooctadecane 88.5 % 28-171

Sample ID: S-1 1' REFUSAL (H600587-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/18/2016	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/17/2016
Reported: 03/22/2016
Project Name: BONNIE 35 FED #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H600587-03)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2016	ND	2.17	109	2.00	8.02	
Toluene*	<0.050	0.050	03/21/2016	ND	2.09	104	2.00	8.09	
Ethylbenzene*	<0.050	0.050	03/21/2016	ND	1.87	93.6	2.00	9.35	
Total Xylenes*	<0.150	0.150	03/21/2016	ND	5.76	96.0	6.00	8.33	
Total BTX	<0.300	0.300	03/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13800	16.0	03/18/2016	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/18/2016	ND	177	88.7	200	0.503	
DRO >C10-C28	11.8	10.0	03/18/2016	ND	178	89.2	200	0.477	

Surrogate: 1-Chlorooctane 105 % 35-147

Surrogate: 1-Chlorooctadecane 95.4 % 28-171


Sample ID: S-2 1' (H600587-04)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	03/18/2016	ND	432	108	400	0.00	

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SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/17/2016
Reported: 03/22/2016
Project Name: BONNIE 35 FED #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 2' REFUSAL (H600587-05)

Chloride, SM4500Cl-B			mg/kg Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/18/2016	ND	432	108	400	0.00	

Sample ID: S-3 0' (H600587-06)

BTEX 8021B			mg/kg Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2016	ND	2.17	109	2.00	8.02	
Toluene*	<0.050	0.050	03/21/2016	ND	2.09	104	2.00	8.09	
Ethylbenzene*	<0.050	0.050	03/21/2016	ND	1.87	93.6	2.00	9.35	
Total Xylenes*	<0.150	0.150	03/21/2016	ND	5.76	96.0	6.00	8.33	
Total BTEX	<0.300	0.300	03/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-B			mg/kg Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	03/18/2016	ND	432	108	400	0.00	

TPH 8015M			mg/kg Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/18/2016	ND	177	88.7	200	0.503	
DRO >C10-C28	<10.0	10.0	03/18/2016	ND	178	89.2	200	0.477	


Surrogate: 1-Chlorooctane 93.8 % 35-147

Surrogate: 1-Chlorooctadecane 91.9 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 03/17/2016
Reported: 03/22/2016
Project Name: BONNIE 35 FED #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 1' (H600587-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/18/2016	ND	432	108	400	0.00	


Sample ID: S-3 1.5' REFUSAL (H600587-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	03/18/2016	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager


Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

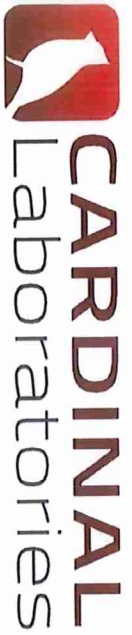
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LE

Project Manager:

Address: 408 W. Texas Ave.

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #:

Project Owner: Cimarrity

Project Name: Benic 35 Fed #1

Project Location:

Sampler Name: S. Hitchcock

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H600587

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :

DATE
TIME

TPH
BTEX
Chlorides

1 5-1 0' 1 12:16
2 5-1 1' 1 12:18
3 5-2 0' 1 12:21
4 5-2 1' 1 12:22
5 5-2 2' 1 12:24
6 5-3 0' 1 12:24
7 5-3 1' 1 12:30
8 5-3 1.5' 1 12:32

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 the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 11/11/10
Time: 10:15

Received By:

Sheldon Herrera

Date: 11/10/10
Time: 10:15

Received By:

stop at if less than 250

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

5:40

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY:
(Initials)

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#511