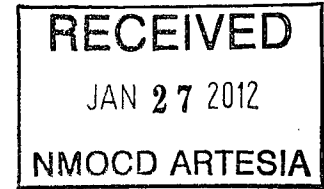




January 13, 2012

Mr. Mike Bratcher  
**NMOCD District 2**  
1301 West Grand Avenue  
Artesia, NM 88210



AMARILLO  
921 North Bivins  
Amarillo, Texas 79107  
Phone 806.467.0607  
Fax 806.467.0622

ARTESIA  
408 West Texas Ave.  
Artesia, New Mexico 88210  
Phone 575.746.8768  
Fax 575.746.8905

AUSTIN  
911 West Anderson Lane  
Suite 202  
Austin, Texas 78757  
Phone 512.989.3428  
Fax 512.989.3487

HOBBS  
318 East Taylor Street  
Hobbs, New Mexico 88240  
Phone 575.393.4261  
Fax 575.393.4658

MIDLAND  
2901 State Hwy 349  
Midland, Texas 79706  
Phone 432.522.2133  
Fax 432.522.2180

SAN ANTONIO  
11 Commercial Place  
Schertz, Texas 78154  
Phone 210.265.8025  
Fax 210.568.2191

TULSA  
525 South Main Street  
Suite 535  
Tulsa, Oklahoma 74103  
Phone 918.742.0871  
Fax 918.382.0232

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

Subject: **Remediation and Closure Report**  
Cimarex Energy Corporation  
Federal 1 Tank Battery Release  
API # 30-015-25490 – 2RP-747

Dear Mr. Bratcher,

Cimarex Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Federal 1 Tank Battery release. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

#### **Incident Date**

March 9, 2011

#### **Background Information**

The Federal TB No. 1 is located approximately thirty-three (33) miles east of Artesia, New Mexico. The legal location for the site is Section 5, Township 18 South and Range 31 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.77444 North and -103.88520 West.

This site lies on undulating plains and low hills consisting of wind worked sandy deposits. Drainage courses in this area are normally dry. The local surface and shallow geology, Quaternary Age sedimentary deposits comprised of alluvium and eolian sands which includes silty soils underlain by sand stone and hard caliches. The New Mexico State Engineer web site indicates the nearest ground water data to be in S4-T18S-R32E. The ground water in Section 4 is reported to be at an average depth of 65' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

The ranking for this site is 10 based on the as following:

Depth to ground water	50'-100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Toll Free: 866.742.0742  
www.talonlpe.com

## Incident Description

On March 9, 2011 the stock tank at the Federal TB tank battery was discovered to be leaking. The tank was taken out of service, repaired and placed back into service. Two hundred sixty (260) barrels of hydrocarbon fluids were released. A vacuum truck was brought to the location and one hundred thirty-five (135) barrels were recovered. The impacted area was located within the bermed area of the tank battery. The impacted area was measured to be forty-four feet (44') long by fifty-three feet (53') wide.

## Actions Taken

On April 21, 2011 Talon mobilized personnel to begin the assessment and soil sampling for the construction of a work plan. Grab soil samples were collected utilizing a backhoe. The soil samples from sample location S-1 were collected from the impacted area located within the bermed area of the tank battery. The soil samples S-2 were collected for back ground chloride analysis from the non-impacted area off the location.

On June 8, 2011 Talon mobilized personnel again to the site for soil sampling at greater depths utilizing a split spoon auger rig. Grab soil samples S-1 were collected from the depth of 10-feet bgs of the impacted area to a depth of 26-feet deep.

Following excavation activities, Talon returned to the site to perform confirmation sampling on the sidewalls and bottom of the excavation on October 19, 2011. Talon personnel return to the site again on November 11, 2011 to take the final confirmation samples after additional excavation work was completed.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chlorides were analyzed per SM4500CLB. The complete laboratory report is attached as Appendix II.

## Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

April 27, 2011

<u>Sample</u>	<u>Depth</u>	<u>Chlorides</u>	<u>BTEX</u>	<u>TPH (mg/kg)</u>
S-1	0'	48	3188	73500
	1'	3520	1423	37800
	2'	1100	5.484	310.2
	3'	432	<50	44.6
	4'	400	<50	57.5
	5'	1770	<50	155.9
	6'	3640	--	38.8

--Analyte not tested

<u>Sample</u>	<u>Depth</u>	<u>Chlorides</u>	<u>BTEX</u>	<u>TPH (mg/kg)</u>
S-1	8'	5760	--	--
	9'	3320	--	--
	10'	5800	--	--
S-2*	0'	16	--	--
	3'	16	--	--

\*Background samples

June 16, 2011

<u>Sample</u>	<u>Depth</u>	<u>Chlorides</u>	<u>BTEX</u>	<u>TPH</u>
S-1	10'	5440	--	--
	15'	2440	--	--
	22'	1120	--	--
	26'	208	--	--

October 26, 2011

<u>Sample</u>		<u>Chlorides</u>	<u>BTEX</u>	<u>TPH</u>
S-1	North side wall	240	0.105	399.7
S-2	East side wall	80	<0.150	12.4
S-3	South side wall	64	<0.150	112
S-4	West side wall	224	140.6	22,250

November 16, 2011

<u>Sample</u>		<u>Chlorides</u>	<u>BTEX</u>	<u>TPH</u>
S-5	West side wall	--	<0.150	41.1

--Analyte not tested

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 1,000 mg/kg.

## Summary and Conclusions

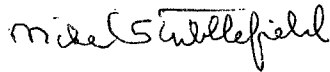
- Ground water in the project vicinity is greater than 50-feet below land surface per the New Mexico State Engineer Database.
- Based on the depth to groundwater and the installation of a 20 mil liner, it is unlikely that the impacts identified from this release will pose a threat to groundwater.
- The impacted soil from this release was excavated by others to a minimum depth of 2-feet below land surface per the approved work plan. The impacted soil was transported to a NMOCD solid waste facility. The excavation was left open until BLM granted approval for closure.
- The excavated area was backfilled to grade using new material transported from a local borrow pit and then the 20 mil liner was installed at ground surface inside the bermed area of the tank battery.

Therefore, on behalf of Cimarex Energy Corporation, we respectfully request that no further actions be required and that closure with respect to this release be granted.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE



Mike Stubblefield  
Project Manager



David J. Adkins  
District Manager

**APPENDIX I**  
**GROUNDWATER DATA**



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

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

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00566	DOM	LE	LE	4	4	1	04	18S	32E	614960	3627280*	133	65	68
CP 00672	STK	LE	LE	4	4	07	18S	32E	612475	3624947*	524	430	94	
CP 00677	PRO	LE	LE	1	1	26	18S	32E	617750	3621373*	700			

Average Depth to Water: **247 feet**

Minimum Depth: **65 feet**

Maximum Depth: **430 feet**

Record Count: 3

PLSS Search:

Township: 18S      Range: 32E

\*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 II**  
**LABORATORY RESULTS**



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

April 27, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: FEDERAL T B NO. 1

Enclosed are the results of analyses for samples received by the laboratory on 04/21/11 12:46.

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,

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 04/21/2011  
Reported: 04/27/2011  
Project Name: FEDERAL T B NO. 1  
Project Number: 701162.002.01  
Project Location: SEC.5.T18S.R31E

Sampling Date: 04/21/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 1 0' (H100822-01)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	291	40.0	04/27/2011	ND	2.29	115	2.00	5.71	
Toluene*	1280	40.0	04/27/2011	ND	2.29	115	2.00	5.60	
Ethylbenzene*	734	40.0	04/27/2011	ND	2.29	115	2.00	4.57	
Total Xylenes*	883	120	04/27/2011	ND	6.79	113	6.00	4.75	

Surrogate: 4-Bromofluorobenzene (PIL) 66.8 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/25/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ck						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	33900	100	04/26/2011	ND	214	107	200	0.572		
DRO >C10-C28	39600	100	04/26/2011	ND	206	103	200	4.93		

Surrogate: 1-Chlorooctane 465 % 70-130

Surrogate: 1-Chlorooctadecane 116 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 04/21/2011  
 Reported: 04/27/2011  
 Project Name: FEDERAL T B NO. 1  
 Project Number: 701162.002.01  
 Project Location: SEC.5.T18S.R31E

 Sampling Date: 04/21/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S - 1 1' (H100822-02)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>179</b>	40.0	04/27/2011	ND	2.29	115	2.00	5.71	
<b>Toluene*</b>	<b>592</b>	40.0	04/27/2011	ND	2.29	115	2.00	5.60	
<b>Ethylbenzene*</b>	<b>297</b>	40.0	04/27/2011	ND	2.29	115	2.00	4.57	
<b>Total Xylenes*</b>	<b>355</b>	120	04/27/2011	ND	6.79	113	6.00	4.75	

Surrogate: 4-Bromofluorobenzene (PIL) 78.2 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3520</b>	16.0	04/25/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ck						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>15300</b>	100	04/26/2011	ND	214	107	200	0.572		
<b>DRO &gt;C10-C28</b>	<b>22500</b>	100	04/26/2011	ND	206	103	200	4.93		

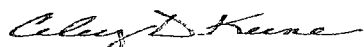
Surrogate: 1-Chlorooctane 273 % 70-130

Surrogate: 1-Chlorooctadecane 116 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/21/2011  
Reported: 04/27/2011  
Project Name: FEDERAL T B NO. 1  
Project Number: 701162.002.01  
Project Location: SEC.5.T18S.R31E

Sampling Date: 04/21/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 1 2' (H100822-03)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.135	0.050	04/26/2011	ND	2.29	115	2.00	5.71	
Toluene*	1.38	0.050	04/26/2011	ND	2.29	115	2.00	5.60	
Ethylbenzene*	1.49	0.050	04/26/2011	ND	2.29	115	2.00	4.57	
Total Xylenes*	2.48	0.150	04/26/2011	ND	6.79	113	6.00	4.75	

Surrogate: 4-Bromofluorobenzene (PIL) 73.7 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	04/25/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	38.2	10.0	04/26/2011	ND	214	107	200	0.572	
DRO >C10-C28	272	10.0	04/26/2011	ND	206	103	200	4.93	

Surrogate: 1-Chlorooctane 114 % 70-130

Surrogate: 1-Chlorooctadecane 121 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/21/2011  
Reported: 04/27/2011  
Project Name: FEDERAL T B NO. 1  
Project Number: 701162.002.01  
Project Location: SEC.5.T18S.R31E

Sampling Date: 04/21/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 1 3' (H100822-04)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	5.71	
Toluene*	0.073	0.050	04/26/2011	ND	2.29	115	2.00	5.60	
Ethylbenzene*	0.078	0.050	04/26/2011	ND	2.29	115	2.00	4.57	
Total Xylenes*	0.151	0.150	04/26/2011	ND	6.79	113	6.00	4.75	

Surrogate: 4-Bromofluorobenzene (PIL) 96.2 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/25/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2011	ND	214	107	200	0.572	
DRO >C10-C28	44.6	10.0	04/26/2011	ND	206	103	200	4.93	

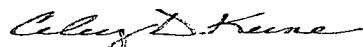
Surrogate: 1-Chlorooctane 117 % 70-130

Surrogate: 1-Chlorooctadecane 129 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/21/2011  
Reported: 04/27/2011  
Project Name: FEDERAL T B NO. 1  
Project Number: 701162.002.01  
Project Location: SEC.5.T18S.R31E

Sampling Date: 04/21/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 1 4' (H100822-05)**

BTX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	5.71	
Toluene*	<b>0.123</b>	0.050	04/26/2011	ND	2.29	115	2.00	5.60	
Ethylbenzene*	<b>0.225</b>	0.050	04/26/2011	ND	2.29	115	2.00	4.57	
Total Xylenes*	<b>0.373</b>	0.150	04/26/2011	ND	6.79	113	6.00	4.75	

Surrogate: 4-Bromofluorobenzene (PIL) 94.1 % 70-130

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>400</b>	16.0	04/25/2011	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: ck				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>13.4</b>	10.0	04/26/2011	ND	216	108	200	1.18	
DRO >C10-C28	<b>44.1</b>	10.0	04/26/2011	ND	211	105	200	4.06	

Surrogate: 1-Chlorooctane 99.2 % 70-130

Surrogate: 1-Chlorooctadecane 106 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 04/21/2011  
 Reported: 04/27/2011  
 Project Name: FEDERAL T B NO. 1  
 Project Number: 701162.002.01  
 Project Location: SEC.5.T18S.R31E

 Sampling Date: 04/21/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S - 1 5' (H100822-06)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	5.71	
Toluene*	<b>0.317</b>	0.050	04/26/2011	ND	2.29	115	2.00	5.60	
Ethylbenzene*	<b>0.707</b>	0.050	04/26/2011	ND	2.29	115	2.00	4.57	
Total Xylenes*	<b>1.13</b>	0.150	04/26/2011	ND	6.79	113	6.00	4.75	

Surrogate: 4-Bromofluorobenzene (PIL) 94.0 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>1770</b>	16.0	04/25/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>13.9</b>	10.0	04/26/2011	ND	216	108	200	1.18	
DRO >C10-C28	<b>142</b>	10.0	04/26/2011	ND	211	105	200	4.06	

Surrogate: 1-Chlorooctane 98.6 % 70-130


Surrogate: 1-Chlorooctadecane 102 % 70-130

7

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/21/2011  
Reported: 04/27/2011  
Project Name: FEDERAL T B NO. 1  
Project Number: 701162.002.01  
Project Location: SEC.5.T18S.R31E

Sampling Date: 04/21/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 1 6' (H100822-07)**

BTX 8021B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	5.71	
Toluene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	5.60	
Ethylbenzene*	<0.050	0.050	04/26/2011	ND	2.29	115	2.00	4.57	
Total Xylenes*	<0.150	0.150	04/26/2011	ND	6.79	113	6.00	4.75	

Surrogate: 4-Bromofluorobenzene (PIL) 95.6 % 70-130

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	04/25/2011	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2011	ND	216	108	200	1.18	
DRO >C10-C28	38.8	10.0	04/26/2011	ND	211	105	200	4.06	

Surrogate: 1-Chlorooctane 102 % 70-130

Surrogate: 1-Chlorooctadecane 105 % 70-130

**Sample ID: S - 1 7' (H100822-08)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	04/25/2011	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/21/2011  
Reported: 04/27/2011  
Project Name: FEDERAL T B NO. 1  
Project Number: 701162.002.01  
Project Location: SEC.5.T18S.R31E

Sampling Date: 04/21/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 1 8' (H100822-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	04/25/2011	ND	416	104	400	3.77	

**Sample ID: S - 1 10' (H100822-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5800	16.0	04/25/2011	ND	416	104	400	3.77	

**Sample ID: S - 2 0' OFF LOCATION BG CL (H100822-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/25/2011	ND	416	104	400	3.77	

**Sample ID: S-2 3' OFF LOCATION BK CL (H100822-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/25/2011	ND	416	104	400	3.77	

**Sample ID: S - 1 9' (H100822-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	04/25/2011	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

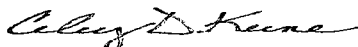
S-LOW	Low surrogate recovery confirmed as a matrix effect by a second analysis.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received 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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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

1-2

Company Name: <b>Talon/LPE</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: <b>Mike Stubblefield</b>		P.O. #:			
Address: <b>408 W. Texas Ave.</b>		Company: <b>Talon/LPE</b>			
City: <b>Altecia</b> State: <b>NM</b> Zip: <b>88210</b>		Address:			
Phone #: <b>575-441-7254</b> Fax #: <b>575-746-8905</b>		City:			
Project #: <b>201162.002.01</b> Project Owner: <b>Cimarex Energy</b>		State: <b>Zps</b>			
Project Name: <b>Federal TB No. 1</b>		Phone #:			
Project Location: <b>sec. 5-T185-R31E</b>		Fax #:			
Sampler Name:					

Lab I.D.	Sample I.D.	(GRAB OR COMPO.) # CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME	TPH 8015	OTEX 8021	Total chlorides
			GROUNDWATER	WASTE WATER	SOIL	OIL	SILUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER						
H106822-1	S-1 0'	G											4/21/2011	10:02 A	✓	✓	✓
2	S-1 1'	G											4/21/2011	10:02 A	✓	✓	✓
3	S-1 2'	G											4/21/2011	10:12 A	✓	✓	✓
4	S-1 3'	G											4/21/2011	10:14 A	✓	✓	✓
5	S-1 4'	G											4/21/2011	10:17 A	✓	✓	✓
6	S-1 5'	G											4/21/2011	10:18 A	✓	✓	✓
7	S-1 6'	G											4/21/2011	10:30 A	✓	✓	✓
8	S-1 7'	G											4/21/2011	10:52 A			✓
9	S-1 8'	G											4/21/2011	10:52 A			✓
10	S-1 10'	G											4/21/2011	10:58 A			✓

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Relinquished By: <b>Mike Stubblefield</b>	Date: <b>4/21/2011</b> Time: <b>12:45 PM</b>	Received By: <b>Jodi Benson</b>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Lab's Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Lab's Fax #:
			REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition: Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: <b>JH</b>	

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



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>Talon/LPE</b>		BILL TO: <b>Talon/LPE</b>		ANALYSIS REQUEST	
Project Manager: <b>Mica Sticklefield</b>		P.O. #:			
Address: <b>408 W. Texas Ave</b>		Company: <b>Talon/LPE</b>			
City: <b>Alcilia</b> State: <b>ND</b> Zip: <b>58210</b>		Attn:			
Phone #: <b>575-441-7254</b> Fax #: <b>575-246-8905</b>		Address:			
Project #: <b>201162.002.01</b> Project Owner: <b>Cimarron Energy</b>		City:			
Project Name: <b>Federal TB No. 1</b>		State: Zip:			
Project Location: <b>sec. 5 - T18S-R31E</b>		Phone #:			
Sampler Name: <b>Mica Sticklefield</b>		Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		Total chlorides	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER		DATE
H100822-11	S-20' off Location	G			✓				✓		4/21/2011	11:05A	✓
12	Background chlorides												
	S-2' off Location	G			✓				✓		4/21/2011	11:14A	✓
	Background chlorides												
13	S-1 9"	G			✓						4/21/11	10:47	✓

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Relinquished By:	Date: <b>4/21/2011</b> Time: <b>12:45pm</b>	Received By: <b>Jodi Hanson</b>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Lab Phone #:
<b>Mica Sticklefield</b>			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Lab Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)		Sample Condition:	CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool Intact	(initials)	
<b>5.50</b>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>JA</b>	

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#26



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

June 16, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: FEDERAL LEASE TB NO. 1

Enclosed are the results of analyses for samples received by the laboratory on 06/14/11 14:00.

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,

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

Hope Moreno

Inorganic Technical Director

**Analytical Results For:**

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

Received: 06/14/2011  
Reported: 06/16/2011  
Project Name: FEDERAL LEASE TB NO. 1  
Project Number: NONE GIVEN  
Project Location: 5-T18S-R31E

Sampling Date: 06/08/2011  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: S-1 10' (H101236-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	06/15/2011	ND	464	116	400	0.00	

**Sample ID: S-1 15' (H101236-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	06/15/2011	ND	464	116	400	0.00	

**Sample ID: S-1 22' (H101236-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	06/15/2011	ND	464	116	400	0.00	

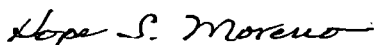
**Sample ID: S-1 26' (H101236-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/15/2011	ND	464	116	400	0.00	

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Hope Moreno, Inorganic Technical Director

**Notes and Definitions**

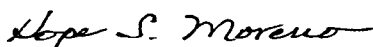
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\* = Accredited Analyte

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Hope Moreno, Inorganic Technical Director



## Page 4 of 4

Company Name: <b>Talon/LPE</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																																																																																																					
Project Manager: <b>Mike Stubblefield</b>				P.O. #:																																																																																																																									
Address: <b>408 W. Toms Ave.</b>				Company: <b>Talon/LPE</b>																																																																																																																									
City: <b>Artesia</b> State: <b>NM</b> Zip: <b>88210</b>				Attn:																																																																																																																									
Phone #: <b>505-441-2254</b> Fax #: <b>505-746-8905</b>				Address:																																																																																																																									
Project #: Project Owner: <b>Pimarex</b>				City:																																																																																																																									
Project Name: <b>Federal Lease TB No. 1</b>				State: Zip:																																																																																																																									
Project Location: <b>S-T185 R31E</b>				Phone #:																																																																																																																									
Sampler Name: <b>Mike Stubblefield</b>				Fax #:																																																																																																																									
<table border="1"> <thead> <tr> <th colspan="2">FOR LAB USE ONLY</th> <th rowspan="2">GRAB OR (COMP. # CONTAINERS)</th> <th colspan="5">MATRIX</th> <th colspan="2">PRESERV.</th> <th colspan="2">SAMPLING</th> <th rowspan="2">total Character</th> </tr> <tr> <th>Lab I.D.</th> <th>Sample I.D.</th> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER:</th> <th>ACID/BASE:</th> <th>ICE/COOL</th> <th>OTHER:</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td><b>H1D1236</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>S-1 10'</td> <td>6/8/11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6/8/11</td> <td>9:43A</td> <td></td> </tr> <tr> <td>2</td> <td>S-1 15'</td> <td>6/8/11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6/8/11</td> <td>9:57A</td> <td></td> </tr> <tr> <td>3</td> <td>S-1 20'</td> <td>6/8/11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6/8/11</td> <td></td> <td>No Sample</td> </tr> <tr> <td>4</td> <td>S-1 22'</td> <td>6/8/11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6/8/11</td> <td>10:28A</td> <td></td> </tr> <tr> <td>5</td> <td>S-1 26'</td> <td>6/8/11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6/8/11</td> <td>10:55A</td> <td></td> </tr> </tbody> </table>																FOR LAB USE ONLY		GRAB OR (COMP. # CONTAINERS)	MATRIX					PRESERV.		SAMPLING		total Character	Lab I.D.	Sample I.D.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME	<b>H1D1236</b>														1	S-1 10'	6/8/11									6/8/11	9:43A		2	S-1 15'	6/8/11									6/8/11	9:57A		3	S-1 20'	6/8/11									6/8/11		No Sample	4	S-1 22'	6/8/11									6/8/11	10:28A		5	S-1 26'	6/8/11									6/8/11	10:55A	
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Relinquished By: <b>Mike Stubblefield</b>				Date: <b>6/14/11</b> Time: <b>2:10</b>				Received By: <b>John Plad</b>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																																																																																																																	
Relinquished By:				Date: <b>6/14/11</b> Time: <b>4:00</b>				Received By: <b>Jodi Henson</b>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:																																																																																																																	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				CHECKED BY: <b>GA</b>				REMARKS: <b>6/15/11 No sample for #3 as per Mike. ch</b>																																																																																																																	

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

#26

October 26, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: FEDERAL TB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/21/11 12:45.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum 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,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 10/21/2011  
Reported: 10/26/2011  
Project Name: FEDERAL TB RELEASE  
Project Number: 701162.002.01  
Project Location: SEC.4-T18S - R31E

Sampling Date: 10/19/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-1 NORTHSIDE WALL (H102294-01)**

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	10/24/2011	ND	2.14	107	2.00	3.62	
Toluene*	<0.050	0.050	10/24/2011	ND	2.19	109	2.00	7.66	
Ethylbenzene*	<b>0.105</b>	0.050	10/24/2011	ND	2.21	111	2.00	9.58	
Total Xylenes*	<0.150	0.150	10/24/2011	ND	6.64	111	6.00	10.2	

Surrogate: 4-Bromofluorobenzene (PII) 104 % 64.4-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>240</b>	16.0	10/26/2011	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>11.7</b>	10.0	10/24/2011	ND	171	85.6	200	1.17	
DRO >C10-C28	<b>388</b>	10.0	10/24/2011	ND	151	75.7	200	6.18	

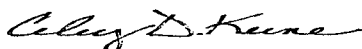
Surrogate: 1-Chlorooctane 91.3 % 55.5-154

Surrogate: 1-Chlorooctadecane 93.7 % 57.6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/21/2011	Sampling Date:	10/19/2011
Reported:	10/26/2011	Sampling Type:	Soil
Project Name:	FEDERAL TB RELEASE	Sampling Condition:	Cool & Intact
Project Number:	701162.002.01	Sample Received By:	Jodi Henson
Project Location:	SEC.4-T18S - R31E		

**Sample ID: S-2 EASTSIDE WALL (H102294-02)**

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	10/24/2011	ND	2.14	107	2.00	3.62	
Toluene*	<0.050	0.050	10/24/2011	ND	2.19	109	2.00	7.66	
Ethylbenzene*	<0.050	0.050	10/24/2011	ND	2.21	111	2.00	9.58	
Total Xylenes*	<0.150	0.150	10/24/2011	ND	6.64	111	6.00	10.2	

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

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	10/26/2011	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/24/2011	ND	171	85.6	200	1.17	
DRO >C10-C28	12.4	10.0	10/24/2011	ND	151	75.7	200	6.18	

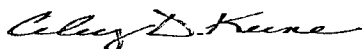
Surrogate: 1-Chlorooctane 96.0 % 55.5-154

Surrogate: 1-Chlorooctadecane 100 % 57.6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 10/21/2011  
 Reported: 10/26/2011  
 Project Name: FEDERAL TB RELEASE  
 Project Number: 701162.002.01  
 Project Location: SEC.4-T18S - R31E

 Sampling Date: 10/19/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-3 SOUTHSIDE WALL (H102294-03)**

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	10/24/2011	ND	2.14	107	2.00	3.62	
Toluene*	<0.050	0.050	10/24/2011	ND	2.19	109	2.00	7.66	
Ethylbenzene*	<0.050	0.050	10/24/2011	ND	2.21	111	2.00	9.58	
Total Xylenes*	<0.150	0.150	10/24/2011	ND	6.64	111	6.00	10.2	

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/26/2011	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/24/2011	ND	171	85.6	200	1.17	
DRO >C10-C28	112	10.0	10/24/2011	ND	151	75.7	200	6.18	

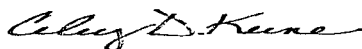
Surrogate: 1-Chlorooctane 101 % 55.5-154

Surrogate: 1-Chlorooctadecane 97.8 % 57.6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 10/21/2011  
Reported: 10/26/2011  
Project Name: FEDERAL TB RELEASE  
Project Number: 701162.002.01  
Project Location: SEC.4-T18S - R31E

Sampling Date: 10/19/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-4 WESTSIDE WALL (H102294-04)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	10/25/2011	ND	2.14	107	2.00	3.62		
Toluene*	31.7	1.00	10/25/2011	ND	2.19	109	2.00	7.66		
Ethylbenzene*	47.2	1.00	10/25/2011	ND	2.21	111	2.00	9.58		
Total Xylenes*	60.7	3.00	10/25/2011	ND	6.64	111	6.00	10.2		

Surrogate: 4-Bromofluorobenzene (PIL) 117 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/26/2011	ND	384	96.0	400	4.08	
TPH 8015M		mg/kg		Analyzed By: AB					

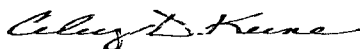
Surrogate: 1-Chlorooctane 119 % 55.5-154

Surrogate: 1-Chlorooctadecane 92.2 % 57.6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

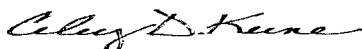
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager

# Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

---

November 16, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: FEDERAL T B NO. 1

Enclosed are the results of analyses for samples received by the laboratory on 11/11/11 14:30.

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,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 11/11/2011  
 Reported: 11/16/2011  
 Project Name: FEDERAL T B NO. 1  
 Project Number: 701162.002.01  
 Project Location: SEC.5.T18S.R31E

 Sampling Date: 11/11/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-5 WESTSIDE WALL (H102456-01)**
**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	11/14/2011	ND	1.93	96.4	2.00	2.90	
Toluene*	<0.050	0.050	11/14/2011	ND	1.86	92.9	2.00	4.31	
Ethylbenzene*	<0.050	0.050	11/14/2011	ND	2.11	105	2.00	4.96	
Total Xylenes*	<0.150	0.150	11/14/2011	ND	6.10	102	6.00	5.24	

Surrogate: 4-Bromofluorobenzene (PII) 101 % 70.7-118

**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	11/16/2011	ND	208	104	200	5.33	
<b>DRO &gt;C10-C28</b>	<b>41.1</b>	10.0	11/16/2011	ND	223	111	200	4.11	

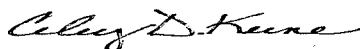
Surrogate: 1-Chlorooctane 86.6 % 55.5-154

Surrogate: 1-Chlorooctadecane 103 % 57.6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

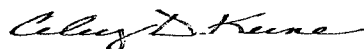
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\* = Accredited Analyte

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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

[illegible]

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Relinquished By:	Date: 11/11/2011 Time: 2:30 p.m.	Received By: <i>Joeli Newton</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>mae Sturtevant</i>			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: Time:	Received By:	REMARKS:	
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - <u>Other</u>		5.5p Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	<i>[Signature]</i>	

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

**FINIAL FORM 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 (162683)	Contact : James Tinney
Address : 600 N Marienfeld Ste 600, Midland TX 79701	Telephone No. : 575-706-0095
Facility Name : Federal No. 1	Facility Type: Tank Battery

Surface Owner : BLM	Mineral Owner BLM	Lease No. : NM 106964 API #30-015-25460 2RP-747
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LOCATION OF RELEASE

Unit Letter I	Section 5	Township 18S	Range 31E	Feet from the 2080	North/South Line FSL	Feet from the 560	East/West Line FEL	County Eddy
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Latitude 30.77444 N Longitude -103.88520 W

NATURE OF RELEASE

Type of Release : Crude Oil	Volume of Release : 260 bbls	Volume Recovered: 135 bbls
Source of Release : Corrosion at tank connection	Date and Hour of Occurrence: 3/9/11	Date and Hour of Discovery: 3/9/11
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? 3/9/11 left mgs on voicemail	
By Whom?	Date and Hour : Jim Amos on 4/11/11	
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.\*

Corrosion on back of tank at 3'x4' connection. A vacuum truck was brought to the location to recover all standing fluids. The area affected was contained within the bermed battery. Talon /LPE was contracted to perform site assessments and take vertical delineation of soil analysis.

Describe Area Affected and Cleanup Action Taken.\*

The impacted area inside the berm was excavated to a depth of 2-feet. The impacted soil was transported to a NMOC approved solid waste facility. The excavation was left open until confirmation samples were approved by the BLM and approval was granted to backfill the excavation to grade using new material transported from a local borrow pit. A 20 mil. liner was subsequently installed inside the berm and around the tanks.

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.

OIL CONSERVATION DIVISION

Signature: *James Tinney* 1/25/12

Printed Name: James Tinney

Approved by District Supervisor:

Title: Assistant Production Foreman

Approval Date:

Expiration Date:

E-mail Address: jtinney@cimarex.com

Conditions of Approval:

Attached ☐

Date: 12/29/11 Phone: 575-706-0095

\* Attach Additional Sheets If Necessary