



January 10, 2012

HOBBS OCD

JAN 17 2012

RECEIVED

Mr. Geoffrey Leking
NMOCD District I
1625 N. French Dr.
Hobbs, NM 88240

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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
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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: Soil Assessment and Remediation Work Plan
Devon Energy Corporation
Lynx Federal No. 6
API # 30-025-29272

Dear Mr. Leking,

Devon Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced Lynx Federal No. 6 release. Our soil sampling results, completed actions and proposed remediation activities consist of the following:

Incident Date

October 13, 2011

Background Information

The Lynx Federal No. 6 is located approximately forty-four (40) miles southeast of Artesia, New Mexico. The legal location for the site is Section 15, Township 17 South and Range 32 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.83912 North and -103.76183 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Kermit soils and Dune land complex soils with 0 to 12 percent slopes in the Ogallala formation. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of calcareous-sandy eolian deposits derived from sedimentary rock and hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer's web site indicates the nearest ground water data to be in S26-T16S-R32E. The ground water in Section 26 is reported to be a depth of 280-feet below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

The ranking for this site is 0 based on the as following:

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

Toll Free: 866.742.0742
www.talonlpe.com

IRP-4019

Incident Description

On October 13, 2011 a flow line located at the Lynx Federal No. 6 was found to be leaking. The well was taken out of service, the flow line was replaced and the well was returned to service. Approximately thirty-five (35) barrels of produced water and ten (10) barrels of oil were released. A vacuum truck was called to the location and twenty-nine (29) barrels of produced water and six (6) barrels of oil were recovered. The areas affected by this release was a pooling area along the flow line approximately 40-feet long by 80-feet wide. The surrounding area was also impacted by overspray approximately 150-feet long by 150-feet wide.

Actions Taken

On December 8, 2011 Talon/LPE mobilized personnel to begin assessment and soil sampling for the construction of a work plan. Grab soil samples were collected in the impacted area utilizing a backhoe. The soil samples collected from sample location S-1 were obtained from the impacted area located in the pooling area behind the tank battery.

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 Method SM4500Cl-B. The complete laboratory report is attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories on December 16, 2011 are summarized below:

<u>Sample</u>	<u>Depth</u>	<u>Chlorides</u>	<u>BTEX</u>	<u>TPH</u>
S-1	0'	144	67.34	34,870 mg/kg
	2'	48	130.5	19,090
	4'	112	215.82	35,050
	6'	<16	97.02	29,670
	8'	112	604.4	25,790
	10'	48	404.87	17,260
	12'	112	118.7	5,000

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 5,000 mg/kg. The chloride remediation standard is considered to be 1,000 mg/kg.

Remedial Actions Taken:

On December 16, 2011 Talon personnel remobilized to the subject facility to carry out remedial actions. The impacted area from the overspray was treated with a total of 500-gallons of fresh water and Micro Blaze which were mixed according to manufacture specifications and spray applied to the impacted area.

Summary and Conclusions

- Ground water in the project vicinity is greater than 100-feet below land surface per the New Mexico State Engineer Database.
- Based upon the results of the laboratory data obtained for this investigation, the vertical impacts of the hydrocarbon release have been documented to extend greater than 12-feet below ground surface in the impacted pooling area.

Proposed Remedial Actions

- Completed remedial actions consisting of 500-gallons of Micro Blaze solution were applied to the overspray area.
- A 60-day soil sample will be obtained from the area in which Micro Blaze was applied.
- The impacted soil from this hydrocarbon release in the pooling area will be excavated to a depth of 4-feet deep. The excavated soil will be transported to a NMOCD approved solid waste disposal facility.
- Confirmation soil samples will be collected from the sidewalls of the excavated area on the location. The soil samples will be submitted to laboratory for TPH analysis using Method 8015M, and BTEX analysis using Method 8021B.
- Upon NMOCD approval of the confirmation samples, a 20 Mil liner will be installed into the bottom of the excavated area.
- The excavated area will be backfilled to grade using new material transported from a local borrow pit, contoured to match existing terrain and seeded using an approved seed mixture for the area.
- A final closure report documenting all remedial actions and analytical results will be provided to the BLM and NMOCD Hobbs Office along with a final C-141 Form.

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

Respectfully submitted,

TALON/LPE

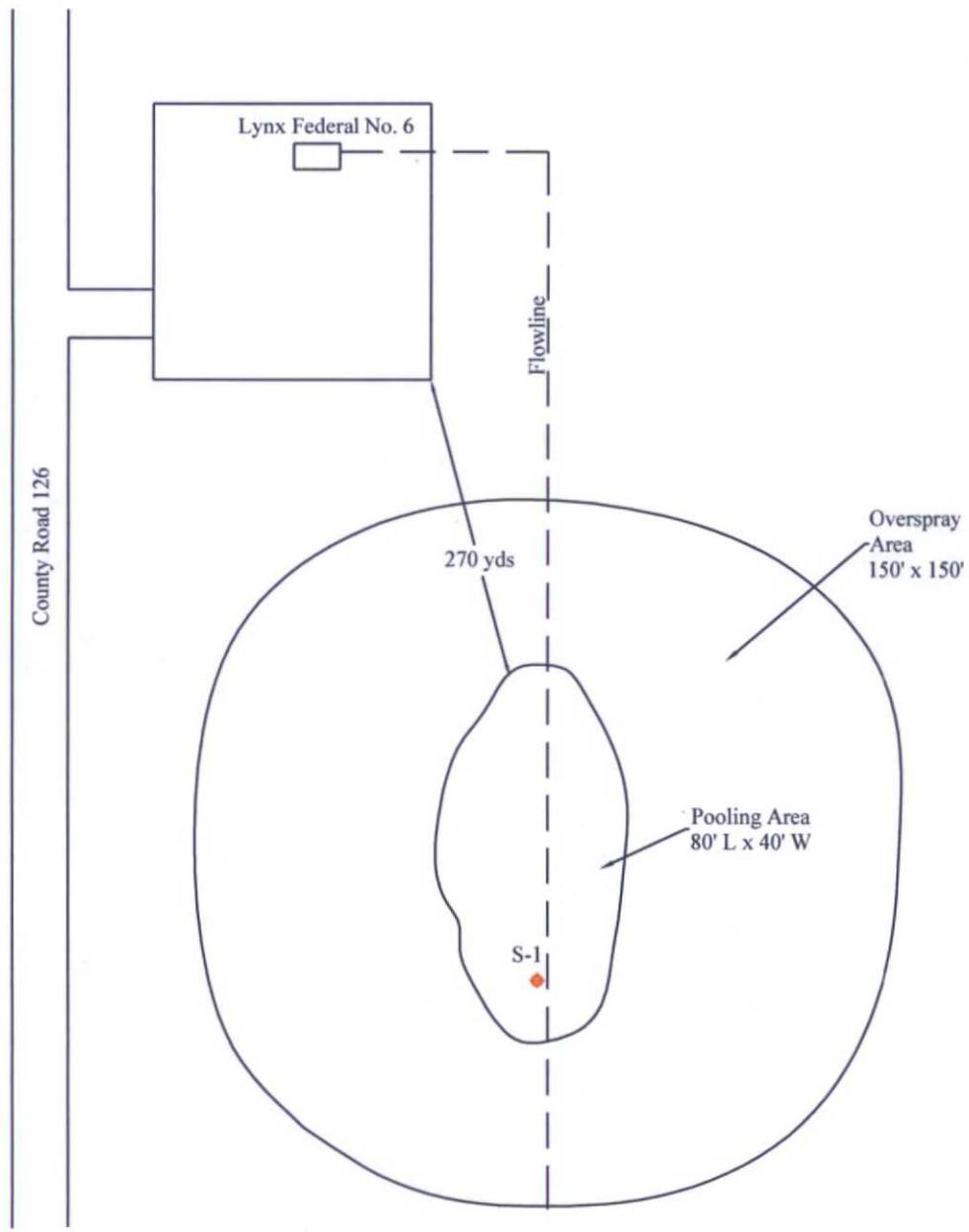
Handwritten signature of Mike Stubblefield in blue ink.

Mike Stubblefield
Project Manager

Handwritten signature of David J. Adkins in blue ink.

David J. Adkins
District Manager

SITE MAP



Legend

◆ - Sample Location

N

0 20 40

Scale in Feet



Date: 01/10/2012
 Scale: 1" = 40'
 Drawn By: TJS

Lynx Federal No. 6
 Devon Energy Corp.
 Maljamar, New Mexico
 Figure 1 - Site Plan

APPENDIX I
GROUNDWATER DATA
INITIAL C-141



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 Code	Subbasin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 08855			LE	4	1	1	10	17S	32E	616061	3635742*	1420	158		
RA 09505			LE	2	2	1	10	17S	32E	616462	3635944	1713	147		
RA 09505 S			LE	2	2	1	10	17S	32E	616463	3635945*	1713	144		
RA 11734 POD1			LE	2	2	1	10	17S	32E	616556	3635929	1733	165		
RA 11684 POD1			LE	1	1	4	11	17S	32E	618216	3635124	2465	275		
RA 11684 POD5			LE	3	1	4	11	17S	32E	618353	3635047	2573	275		
RA 11684 POD3			LE	3	3	1	11	17S	32E	618262	3635371	2597	275		
RA 11684 POD2			LE	1	1	4	11	17S	32E	618313	3635248	2598	275		
RA 11684 POD4			LE	1	3	2	11	17S	32E	618334	3635521	2725	275		
RA 10175			LE		2	1	28	17S	32E	614814	3631005*	3494	158		
L 02752	L		LE		1	3	26	16S	32E	617521	3639880*	5784	324	280	44

Average Depth to Water: **280 feet**

Minimum Depth: **280 feet**

Maximum Depth: **280 feet**

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 615881

Northing (Y): 3634333

Radius: 6000

*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.

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

HOBBS OCD

JAN 17 2012

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Form C-141
Revised March 17, 1999

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 Devon Energy	Contact Roger Hernandez	
Address P. O. Box 250 Artesia, NM 88211	Telephone No. 575-748-5238	
Facility Name Lynx Federal 6	Facility Type Oil Well	
Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section 15	Township 17S	Range 32E	Feet from the 990	North/South Line North	Feet from the 330	East/West Line West	County Lea County, NM
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NATURE OF RELEASE

Type of Release Oil and Produced Water	Volume of Release 10 BO & 35 BPW	Volume Recovered 6 BO & 29 BPW
Source of Release Leak in Flow line	Date and Hour of Occurrence 10-13-11 1:30 PM	Date and Hour of Discovery 10-13-11 1:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM - Hobbs Office (Trish BadBear) OCD - Hobbs Office (Jeff Lekin)	
By Whom? Roger Hernandez	Date and Hour 10-14-11 7:35 AM Jeff Lekin OCD 7:40 AM BLM -Trish	
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.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

DCP contractor discovered flow line leak - investigation determined leak due to fatigue of flow line. Called vacuum truck and picked up fluid on ground.

Describe Area Affected and Cleanup Action Taken.*

Fluid was pooled in an area approximately 40'x80', the whole leak encompassed an area about 150x150 yds. We will take samples and remediate according to OCD guidelines.

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>Adrienne Verkler</i>	<u>OIL CONSERVATION DIVISION</u>	
	Approved by District Supervisor:	
Printed Name: Adrienne Verkler	Approval Date:	Expiration Date:
Title: Field Tech II	Conditions of Approval:	
Date: October 14, 2011 Phone: (575) 748-0174	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

APPENDIX II
LABORATORY RESULTS



December 16, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LYNX FEDERAL NO. 6 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/09/11 12:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/09/2011	Sampling Date:	12/08/2011
Reported:	12/16/2011	Sampling Type:	Soil
Project Name:	LYNX FEDERAL NO. 6 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700794.019.01	Sample Received By:	Jodi Henson
Project Location:	SEC.15-T17S-R32E		

Sample ID: S-1 0' (H102644-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	12/13/2011	ND	1.95	97.6	2.00	1.06		
Toluene*	5.14	0.500	12/13/2011	ND	1.86	92.9	2.00	1.01		
Ethylbenzene*	18.9	0.500	12/13/2011	ND	2.11	106	2.00	1.40		
Total Xylenes*	43.3	1.50	12/13/2011	ND	6.04	101	6.00	1.38		

Surrogate: 4-Bromofluorobenzene (PIL) 145 % 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	144	16.0	12/13/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2670	100	12/13/2011	ND	190	95.0	200	0.365		
DRO >C10-C28	32200	100	12/13/2011	ND	184	92.2	200	5.17		

Surrogate: 1-Chlorooctane 113 % 55.5-154

Surrogate: 1-Chlorooctadecane 71.1 % 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:	12/09/2011	Sampling Date:	12/08/2011
Reported:	12/16/2011	Sampling Type:	Soil
Project Name:	LYNX FEDERAL NO. 6 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700794.019.01	Sample Received By:	Jodi Henson
Project Location:	SEC.15-T17S-R32E		

Sample ID: S-1 2' (H102644-02)

BTEX 8021B	mg/kg		Analyzed By: MS					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	12/13/2011	ND	1.95	97.6	2.00	1.06		
Toluene*	12.5	0.500	12/13/2011	ND	1.86	92.9	2.00	1.01		
Ethylbenzene*	43.5	0.500	12/13/2011	ND	2.11	106	2.00	1.40		
Total Xylenes*	74.5	1.50	12/13/2011	ND	6.04	101	6.00	1.38		

Surrogate: 4-Bromofluorobenzene (PIL) 149 % 64.4-134

Chloride, SM4500CI-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	12/13/2011	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: ZZZ							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2990	100	12/13/2011	ND	190	95.0	200	0.365		
DRO >C10-C28	16100	100	12/13/2011	ND	184	92.2	200	5.17		

Surrogate: 1-Chlorooctane 113 % 55.5-154

Surrogate: 1-Chlorooctadecane 80.4 % 57.6-158

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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:	12/09/2011	Sampling Date:	12/08/2011
Reported:	12/16/2011	Sampling Type:	Soil
Project Name:	LYNX FEDERAL NO. 6 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700794.019.01	Sample Received By:	Jodi Henson
Project Location:	SEC.15-T17S-R32E		

Sample ID: S-1 4' (H102644-03)

BTEX 8021B	mg/kg	Analyzed By: MS					S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	2.72	0.500	12/13/2011	ND	1.95	97.6	2.00	1.06		
Toluene*	30.3	0.500	12/13/2011	ND	1.86	92.9	2.00	1.01		
Ethylbenzene*	68.8	0.500	12/13/2011	ND	2.11	106	2.00	1.40		
Total Xylenes*	114	1.50	12/13/2011	ND	6.04	101	6.00	1.38		

Surrogate: 4-Bromofluorobenzene (PIL) 167 % 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	112	16.0	12/13/2011	ND	464	116	400	3.51		

TPH 8015M	mg/kg	Analyzed By: ZZZ								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	5050	100	12/13/2011	ND	190	95.0	200	0.365		
DRO >C10-C28	30000	100	12/13/2011	ND	184	92.2	200	5.17		

Surrogate: 1-Chlorooctane 119 % 55.5-154

Surrogate: 1-Chlorooctadecane 75.0 % 57.6-158

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Received:	12/09/2011	Sampling Date:	12/08/2011
Reported:	12/16/2011	Sampling Type:	Soil
Project Name:	LYNX FEDERAL NO. 6 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700794.019.01	Sample Received By:	Jodi Henson
Project Location:	SEC.15-T17S-R32E		

Sample ID: S-1 6' (H102644-04)

BTEX 8021B	mg/kg	Analyzed By: MS					S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	1.12	0.500	12/13/2011	ND	1.95	97.6	2.00	1.06		
Toluene*	13.8	0.500	12/13/2011	ND	1.86	92.9	2.00	1.01		
Ethylbenzene*	30.9	0.500	12/13/2011	ND	2.11	106	2.00	1.40		
Total Xylenes*	51.2	1.50	12/13/2011	ND	6.04	101	6.00	1.38		

Surrogate: 4-Bromofluorobenzene (PIL) 143 % 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	<16.0	16.0	12/13/2011	ND	464	116	400	3.51		

TPH 8015M	mg/kg	Analyzed By: ZZZ								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	4370	100	12/13/2011	ND	190	95.0	200	0.365		
DRO >C10-C28	25300	100	12/13/2011	ND	184	92.2	200	5.17		

Surrogate: 1-Chlorooctane 125 % 55.5-154

Surrogate: 1-Chlorooctadecane 85.2 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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 ARTESIA NM, 88210
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Received:	12/09/2011	Sampling Date:	12/08/2011
Reported:	12/16/2011	Sampling Type:	Soil
Project Name:	LYNX FEDERAL NO. 6 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700794.019.01	Sample Received By:	Jodi Henson
Project Location:	SEC.15-T17S-R32E		

Sample ID: S-1 8' (H102644-05)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	11.4	5.00	12/15/2011	ND	1.97	98.4	2.00	6.36		
Toluene*	120	5.00	12/15/2011	ND	1.94	96.9	2.00	3.54		
Ethylbenzene*	191	5.00	12/15/2011	ND	2.10	105	2.00	6.17		
Total Xylenes*	282	15.0	12/15/2011	ND	6.03	100	6.00	6.58		

Surrogate: 4-Bromofluorobenzene (PIL) 141 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-HI		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/13/2011	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS				S-HI		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	5890	100	12/15/2011	ND	206	103	200	1.05		
DRO >C10-C28	19900	100	12/15/2011	ND	168	84.1	200	1.48		

Surrogate: 1-Chlorooctane 274 % 55.5-154

Surrogate: 1-Chlorooctadecane 517 % 57.6-158

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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:	12/09/2011	Sampling Date:	12/08/2011
Reported:	12/16/2011	Sampling Type:	Soil
Project Name:	LYNX FEDERAL NO. 6 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700794.019.01	Sample Received By:	Jodi Henson
Project Location:	SEC.15-T17S-R32E		

Sample ID: S-1 10' (H102644-06)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	5.77	1.00	12/15/2011	ND	1.97	98.4	2.00	6.36		
Toluene*	87.1	1.00	12/15/2011	ND	1.94	96.9	2.00	3.54		
Ethylbenzene*	128	1.00	12/15/2011	ND	2.10	105	2.00	6.17		
Total Xylenes*	184	3.00	12/15/2011	ND	6.03	100	6.00	6.58		

Surrogate: 4-Bromofluorobenzene (PIL) 154 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/13/2011	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS				S-HI		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	4460	100	12/15/2011	ND	206	103	200	1.05		
DRO >C10-C28	12800	100	12/15/2011	ND	168	84.1	200	1.48		

Surrogate: 1-Chlorooctane 182 % 55.5-154

Surrogate: 1-Chlorooctadecane 476 % 57.6-158

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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: 12/09/2011
 Reported: 12/16/2011
 Project Name: LYNX FEDERAL NO. 6 RELEASE
 Project Number: 700794.019.01
 Project Location: SEC.15-T17S-R32E

 Sampling Date: 12/08/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 12' (H102644-07)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	12/15/2011	ND	1.97	98.4	2.00	6.36		
Toluene*	15.6	0.500	12/15/2011	ND	1.94	96.9	2.00	3.54		
Ethylbenzene*	38.2	0.500	12/15/2011	ND	2.10	105	2.00	6.17		
Total Xylenes*	64.9	1.50	12/15/2011	ND	6.03	100	6.00	6.58		

Surrogate: 4-Bromofluorobenzene (PIL) 248 % 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	112	16.0	12/13/2011	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					S-HI	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1210	50.0	12/15/2011	ND	206	103	200	1.05		
DRO >C10-C28	3790	50.0	12/15/2011	ND	168	84.1	200	1.48		

Surrogate: 1-Chlorooctane 147 % 55.5-154

Surrogate: 1-Chlorooctadecane 295 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-HI	High surrogate recovery was 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.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Talon/LPE</u>		BILL TO				ANALYSIS REQUEST																	
Project Manager: <u>Mike Stubblefield</u>		P.O. #:																					
Address: <u>408 W. Texas Ave.</u>		Company: <u>Talon/LPE</u>																					
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:																					
Phone #: <u>505-441-2254</u> Fax #:		Address:																					
Project #: <u>700794.019.01</u> Project Owner: <u>Devon Energy Corp.</u>		City:																					
Project Name: <u>Lynx Federal No. 6 release.</u>		State: Zip:																					
Project Location: <u>Sec. 15-T175-R32E</u>		Phone #:																					
Sampler Name: <u>Mike Stubblefield</u>		Fax #:																					
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	TPH 8015 M	BTX 8021 B	Total chlorides						
<u>H102644</u>																							
<u>1</u>	<u>S-1 0'</u>	<u>5</u>											<u>12/8/11</u>	<u>4:14 A</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>2</u>	<u>S-1 2'</u>	<u>5</u>											<u>12/8/11</u>	<u>4:13 A</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>3</u>	<u>S-1 4'</u>	<u>5</u>											<u>12/8/11</u>	<u>4:20 A</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>4</u>	<u>S-1 6'</u>	<u>5</u>											<u>12/8/11</u>	<u>4:28 A</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>5</u>	<u>S-1 8'</u>	<u>5</u>											<u>12/8/11</u>	<u>4:36 A</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>6</u>	<u>S-1 10'</u>	<u>5</u>											<u>12/8/11</u>	<u>4:41 A</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>7</u>	<u>S-1 12'</u>	<u>5</u>											<u>12/8/11</u>	<u>4:47 A</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						

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Relinquished By: <u>Mike Stubblefield</u>	Date: <u>12/9/2011</u>	Received By: <u>Jodi Hanson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Time: <u>12:27 P</u>	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
Relinquished By:	Time:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - <u>Other</u>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <u>JH</u>	

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

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