District 1 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 1220 S. St. Francis Dr., Santa Fe, NM 87505

Date: 5/7/2012

\* Attach Additional Sheets If Necessary

## PS XK1534947750 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

			Rele	ease No	otific	ation	and Co	orrective A	ction	ì			
							OPERA'	ГOR		☐ Initi	al Report	$\boxtimes$	Final Repor
Name of Co	ompany : I	Devon Energ	у					oger Hernande					
		), Artesia, N	M 88211				Telephone No.: 575-748-5238						
Facility Na	me : Lynx I	Federal #6		-		]	Facility Type: Oil Well						
Surface Ow	vner			Min	neral O	)wner:					No.: LC 0:		1
				_			API #30-025-29272						
				L	OCA	TION	OF RE	LEASE					
Unit Letter D	Section 15	Township 17S	Range 32E	Feet from 990'	n the	North/ North	South Line	Feet from the 330'	East/V West	Vest Line	County L	EA	
			Latitu	de <u>32.7</u>	1693 1	N	Longitud	le <u>-103.80793</u>	W				
				<del></del>			_	_		_			
TCD 1	0.1 6	D J J.W.			NAT	UKE	OF REL		0.1	37.1 1	D 1	<u> </u>	6 00 DDW
Type of Release : Oil & Produced Water							& 35 bbls	Release : 10 bbl: PW	s Oil	Volume	Recovered:	2 BO (	& 29 BPW
Source of Release : Flow line leak						Date and F 10/13/11	Iour of Occurrent	ce:	Date and 1:30 pm	Hour of Dis	covery	y: 10/13/11	
Was Immedi	iate Notice (						If YES, To	Whom?		7100 pm			
☐ Yes ☐ No ☐ Not Required					equired		Geoffrey Leking						
By Whom? Roger Hernandez						BLM / Trish Badbear  Date and Hour: NMOCD 10/14/11 7:35 am; BLM 10/14/11 7:40 am							
Was a Watercourse Reached?							olume Impacting						
☐ Yes ⊠ No													
If a Waterco	urse was Im	pacted, Descr	ibe Fully.*										
			** *							<del></del>			
								e leaking. The w rels of oil were re					
		ed water and					anu 10 bai	iels of on were re	reaseu.	A vacuum	HUCK Was C	med te	o the location
Describe Are	ca Affected	and Cleanup	Action Tak	en.*				-					
								excavated to a de					
								) mil liner was in: area was contour					
		commended s								icon uno sui	rounding to		
11 1 .	'C d d d	· · · · · · · · · · · · · · · · · · ·	·	<del></del>	1	1.4.4.4		1 . 1.1 . 1		1.1 .		000	
								knowledge and und perform correct					
								arked as "Final R					
								on that pose a thi					
		iddition, NMC 1975 and/or reg		tance of a	C-141	report de	oes not reliev	e the operator of	responsi	ibility for c	compliance v	vith an	y other
rederal, state	s, or local la	ys and/or reg	ulations.					OIL CON	SERV	ΆΤΙΩΝ	DIVISIO	)NI	
		1//	_					OIL COIL	<u>DLIC (</u>	ATION	DIVISIO	717	
Signature:	/10gs	- the	<u> 11 —</u>					ENV SPECIAL	15T'				
Printed Nam	e Roger H	emandez				4	Approved by	District Supervis		Heroff F	Polsane		
T TIMEG INAM	ic. Roger H	Cinandez		_						varo (2)	<u> </u>	-	
Title: Prode	uction Form	nan					Approval Da	te: 5/16/12		Expiration	Date: -		· · · · · · · · · · · · · · · · · · ·
F-mail Add-	racci raccor l	nernandez@dv	л сот			,							
E-man Addi	cas. Tuger.i	ici italiucz@d	vii.COIII			Conditions of Approval:							
Date: 5/7/2012 Phone: 575-748-5238								~		IRP-			

1 , 



May 10, 2012

Subject:

HOBBS OCD

Mr. Geoffrey Leking NMOCD District I

MAY 1 0 2012

AMARILLO 92I North Bivins Amarillo, Texas 79107 Phone 806,467,0607 Fax 806,467,0622 1625 N. French Dr. Hobbs, NM 88240

RECEIVED

ARTESIA

408 West Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768 Fax 575.746.8905 Remediation and Closure Report

Devon Energy Corporation Lynx Federal No. 6 API # 30-025-29272

Dear Mr. Leking,

AUSTIN 9II West Anderson Lane Suite 202 Austin, Texas 78757 Phone 512.989.3428 Fax 512.989.3487

Devon Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced Lynx Federal No. 6 release. The results of our soil assessment, completed remediation activities and closure request are submitted herein.

HOBBS

3/8 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.426/ Fax 575.393.4658 **Incident Date** 

October 13, 2011

MIDLAND

290I State Hwy 349 Midland, Texas 79706 Phone 432.522.2I33 Fax 432.522.2I80

### **Background Information**

The Lynx Federal No. 6 is located approximately forty-four (44) miles southeast of Artesia, New Mexico. The legal location for the site is Section 15, Township 17 South and Range 32 East in Lea County, New Mexico. More specifically, the latitude and longitude for the release are 32.83912 North and -103.76183 West.

### SAN ANTONIO

II Commercial Place Schertz, Texas 78154 Phone 210.265.8025

Fax 2I0.568.2I9I

TULSA
525 South Main Street
Suite 535
Tulsa, Oklahoma 74I03

Phone 918.742.0871

Fax 918.382.0232

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. The local surface and shallow geology, Tertiary Age sedimentary deposits within the Ogallala Formation, 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:

ENVIRONMENTAL CONSULTING ENGINEERING

DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING Depth to ground water >100'

Wellhead Protection Area >1000' Distance to surface water body >1000'

Toll Free: 866.742.0742 www.talonlpe.com dynamid Speed Loring Ever Specialist 1 NMCCD-DIST 1 5/10/12

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### **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 area 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.

### **Remedial Actions**

On April 2, 2012 Talon personnel mobilized to the site to begin excavation of the impacted area. The impacted soil within the area of the release was removed to an average depth of 8-feet deep and transported to a NMOCD approved solid waste disposal facility, CRI pursuant to the work plan. The excavated area was left open until approval from NMOCD was obtained to install the 20 mil liner.

On April 11, 2012 Talon personnel mobilized to the site to begin closure soil sampling activities on the sidewalls of the excavation per NMOCD requirements. Grab soil samples were collected and submitted for laboratory analysis. At that time Talon also excavated a test trench to a depth of 18-feet deep and obtained vertical delineation samples to be tested for TPH as requested by NMOCD.

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.

### **Analytical Results**

Analytical results received from Cardinal Laboratories are summarized below:

April 12, 2012

Samp	<u>le</u> <u>Depth</u>	<b>BTEX</b>	<u>TPH</u>								
S-1	15'	43.821	1817 mg/kg								
	18'	24.053	2044								
April	April 20, 2012										
Samp	<u>le</u>	<b>BTEX</b>	<u>TPH</u>								
S-2,	South sidewall	< 0.150	<10								
	West sidewall	< 0.150	<10								
	North sidewall	< 0.150	<10								
	East sidewall	< 0.150	<10								

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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.

### **Summary and Conclusions**

- Ground water in the project vicinity is 280-feet below land surface per the New Mexico State Engineer Database.
- The impacted soil from this release was excavated to a depth of 8-feet deep. The excavated soil was transported to a NMOCD approved solid waste disposal facility.
- On April 30, 2012 the BLM granted approval for backfilling to 4-feet below ground surface and then installing the 20 mil liner into the bottom of the excavated area. The excavated area was subsequently backfilled to grade using new material transported from a local borrow pit.
- Based on the depth to groundwater and the remedial actions implemented, it is unlikely that the impacts identified from this release will pose a threat to groundwater.

### Closure

Therefore, on behalf of Devon 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

Mer

District Manager

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# APPENDIX I 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 (quarters are 1=NW 2=NE 3=SW 4=SE) closed) (quarters are smallest to largest) (NA

t) (NAD83 UTM in meters)

(In feet)

									5 /	,		,	,	,	
POD Number	Code S	POD ubbasin	County	Q 64			Sec	Tws	Rng	x	Υ	Distance		Depth W	****
RA 08855			LE	4	1	1	10	178	32E	616061	3635742*	1420	158		
RA 09505			LE	2	2	1	10	178	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	17\$	32E	618216	3635124	2465	275		
RA 11684 POD5			LE	3	1	4	11	178	32E	618353	3635047	2573	275		
RA 11684 POD3			LE	3	3	1	11	178	32E	618262	3635371	2597	275		
RA 11684 POD2			LE	1	1	4	11	178	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
											Avera	ge Depth to	Water:	280 fee	et
												Minimum	Depth:	280 fee	et
												Maximum	Depth:	280 fee	et

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 615881

Northing (Y): 3634333

Radius: 6000

<sup>\*</sup>UTM location was derived from PLSS - see Help

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# APPENDIX II LABORATORY RESULTS

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April 20, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LYNX FEDERAL NO. 6

Enclosed are the results of analyses for samples received by the laboratory on 04/12/12 12:34.

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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

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

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

Received:

04/12/2012

Reported:

04/20/2012

Project Name: Project Number: LYNX FEDERAL NO. 6 700794.019.01

Project Location:

SEC.15-T17S-R32E

Sampling Date:

04/12/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: S-2 SOUTH WALL (H200848-01)

BTEX 8021B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2012	ND	2.08	104	2.00	1.18	
Toluene*	<0.050	0.050	04/19/2012	ND	2.19	109	2.00	0.904	
Ethylbenzene*	<0.050	0.050	04/19/2012	ND	2.24	112	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/19/2012	ND	6.96	116	6.00	2.14	
Surrogate: 4-Bromofluorobenzene (PIL	105 %	6 64.4-13	4						
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	04/16/2012	ND	195	97.6	200	2.32	
DRO >C10-C28	<10.0	10.0	04/16/2012	ND	212	106	200	5.88	
Surrogate: 1-Chlorooctane	97.1 %	% 55.5-15	4						
Surrogate: I-Chlorooctadecane	97.0 9	6 57.6-15	8						

Cardinal Laboratories \*=Accredited Analyte

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TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

04/12/2012

Sampling Date:

04/12/2012

Reported:

04/20/2012

Sampling Type:

Soil

Project Name:

LYNX FEDERAL NO. 6

Sampling Condition:

Cool & Intact

Project Number:

700794.019.01

Sample Received By:

Jodi Henson

Project Location:

SEC.15-T17S-R32E

Sample ID: S-3 WEST WALL (H200848-02)

BTEX 8021B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2012	ND	2.08	104	2.00	1.18	
Toluene*	<0.050	0.050	04/19/2012	ND	2.19	109	2.00	0.904	
Ethylbenzene*	<0.050	0.050	04/19/2012	ND	2.24	112	2.00	1.61	
Total Xylenes*	<0,150	0.150	04/19/2012	ND	6.96	116	6.00	2.14	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 64.4-13	4						
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	04/16/2012	ND	195	97.6	200	2.32	
DRO >C10-C28	<10.0	10.0	04/16/2012	ND	212	106	200	5.88	
Surrogate: 1-Chlorooctane	78.8	% 55.5-15	4			·			
Surrogate: 1-Chlorooctadecane	77.2	% 57.6-15	.8						

Cardinal Laboratories \*=Accredited Analyte

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

Received: Reported: 04/12/2012

04/20/2012

LYNX FEDERAL NO. 6

Project Number: Project Location:

Project Name:

700794.019.01 SEC.15-T17S-R32E Sampling Date:

04/12/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: S-4 NORTH WALL (H200848-03)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2012	ND	2.08	104	2.00	1.18	
Toluene*	<0.050	0.050	04/19/2012	ND	2.19	109	2.00	0.904	
Ethylbenzene*	<0.050	0.050	04/19/2012	ND	2.24	112	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/19/2012	ND	6.96	116	6.00	2.14	
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 64.4-13	4						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/16/2012	ND	195	97.6	200	2.32	
DRO >C10-C28	<10.0	10.0	04/16/2012	ND	212	106	200	5.88	
Surrogate: 1-Chlorooctane	94.5	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	94.4	% 57.6-15	8						

Cardinal Laboratories \*=Accredited Analyte

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

Received:

04/12/2012

Sampling Date:

04/12/2012

Reported:

04/20/2012

Sampling Type:

Soil

Project Name:

LYNX FEDERAL NO. 6

Sampling Condition:

Cool & Intact

Project Number:

700794.019.01

Sample Received By:

Jodi Henson

Project Location:

SEC.15-T17S-R32E

### Sample ID: S-5 EAST WALL (H200848-04)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2012	ND	2.08	104	2.00	1.18	
Toluene*	<0.050	0.050	04/19/2012	. ND	2.19	109	2.00	0.904	
Ethylbenzene*	<0.050	0.050	04/19/2012	ND	2.24	112	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/19/2012	ND	6.96	116	6.00	2.14	
Surrogate: 4-Bromofluorobenzene (PIL	106 5	% 64.4-13	4						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	· 10.0	04/16/2012	ND	181	90.3	200	0.947	
DRO >C10-C28	<10.0	10.0	04/16/2012	ND	190	95.0	200	4.09	
Surrogate: 1-Chlorooctune	74.4	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	74.4	% 57.6-15	8						

### Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keine

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 SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kune



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon / LPE		BILLITO		ANALYSIS REQUEST	
Project Manager: Dike STubble field		P.O. #:			
Address: 408 West Trass Auc.		Company: Talen / LPE			
City: Atte: NA	State: 1/17 Zip: 88210	Attn:			
7254 1		Address:			
10	Project Owner Deson Energy Cosp City:	City:			
Project Name: LYNX F-CORIGINO. 6	// /	State: Zip:			
Project Location: Sec., 15-TJ25-R32E		Phone #:			
Sampler Name: Mar (St. 200)		Fax #:			
FOR LAB USE ONLY	D. MATRIX	PRESERV SAMPLING			
Lab I.D. Sample I.D.	DGE	/BASE: COOL	'PH 8015 EX 8021		
H200848	# CO GRO WAS SOIL OIL SLUE	OTHI DATE	TIME		
	8	4/12/20129:31A	314 //		
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April 12, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LYNX FEDERAL NO. 6

Enclosed are the results of analyses for samples received by the laboratory on 04/09/12 16:40.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

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

Received:

04/09/2012

Sampling Date:

04/06/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

LYNX FEDERAL NO. 6

Sampling Condition:

Cool & Intact

Project Number:

700794.019.01

Sample Received By:

Jodi Henson

Project Location:

SEC.15-T17S-R32E

Sample ID: S-1 15' BGS (H200805-01)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.401	0.050	04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	9.02	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	13.5	0.050	04/12/2012	ND	2.27	114	2.00	5.63	
Total Xylenes*	20.9	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	113	% 64.4-13	4						
TPH 8015M	mg,	/kg	Analyze	d By: MS		.,			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	317	10.0	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	1500	10.0	04/12/2012	ND	234	117	200	15.1	
Surrogate: I-Chlorooctane	144	% 55.5-15	:4						
Surrogate: 1-Chlorooctadecane	157	% 57.6-15	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remety for any claim arising, whether based in contract or tort, shall be limited to the amount palid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed weved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, melding, without limitation, business interruptions, loss of use, or loss of profits mourned by client, its solidance, affiliates or successors ensuing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be profounded except in full with written approval of Cardinal Laboratomiss.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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

Received:

04/09/2012

Reported:

04/12/2012

Project Name: Project Number: LYNX FEDERAL NO. 6

Project Location:

700794.019.01 SEC.15-T17S-R32E Sampling Date:

04/06/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: S-1 18' BGS (H200805-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.283	0.050	04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	5.00	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	7.27	0.050	04/12/2012	ND	2.27	114	2.00	5.63	
Total Xylenes*	11.5	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	163 %	6 64.4-13	4						
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	344	10.0	04/12/2012	. ND	207	103	200	4.03	
DRO >C10-C28	1700	10.0	04/12/2012	ND	234	117	200	15.1	
Surrogate: 1-Chlorooctane	137 %	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	144 %	6 57.6-15	8						

Cardinal Laboratories

\*=Accredited Analyte

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 client for analyses. All claims, including those for nepligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business litterruptions, loss of use, or loss of profits incurred by Client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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### **Notes and Definitions**

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  $6^{\circ}\text{C}$  Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed will be deemed will be a small cardinal be liable for incidental or consequential clamages, methods 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 the services hereunder by Cardinal, regardless of whether such client is the solid upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. The report shall not be reproduced except in full with written approval of Cardinal Laboratories.

### CARDINAL

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(G) RAB OR (C) OME  WAS TERM WAS TERM CONDUMDWATER  WAS TERM CONDUMDWATER  CONDUMDWATER  CONDUMDWATER  CONDUMDWATER  CONDUMDWATER  SOLIC  CONDUMDWATER  CONDUMDWATER  CONDUMDWATER  CONDUMDWATER  CONDUM  COND	(G) RAB OR (C) OME  WAS TERM  WAS TERM  COUNDWAY  COUNDW	(G) RAB OR (C) OME  WAS TERM WAS TERM COUNDWAY TERM CONDING WE WAS TERM CONDING WAS TERM CO	Owner: Crewn Frequency: The Signature State:  State: Signature State: Sign	7 0 - 51	ОТНЕК: ОТНЕК: ОТНЕК: ОТНЕК: ОТНЕК: ОТНЕК: ОТНЕК: ОТНЕК:	ACIDIBASE: OTHER: SLUDGE ON: ON: ON: CROUNDWATER # CONTAINERS	5.1
TOTHER  CONTAINERS  CONTAINERS  CONTAINERS  CONTAINERS  CONTAINERS  CONTAINERS  CONTAINERS  CONTERS  C	TOTHER  SCONTAINERS  CROUNDWATER  WASSIEWATER  CROUNDWATER  WASSIEWATER  CROUNDWATER  WASSIEWATER  SCONTAINER  SCO	TOTHER  CONTAINER  CROUNDWATER  CROUNDWATER  WASSTEWATER  CROUNDWATER  CROUNDWATER  CROUNDWATER  CROUNDWATER  CROUNDWATER  CROUNDWATER  CROUNDWATER  A CROUNDWATER  CROUNDWATER  CROUNDWATER  CROUNDWATER  A CROUNDWATER  CROUNDWA	ANALYSIS  P.O. #:  Company: T <sub>N</sub> (e <sub>n</sub> ) <u>LPE</u> Attn:  Address:  Owner: Deed, F <sub>e</sub> (n), City: State: Zip: Phone #: Fax #:	7/ d e	DATE TIME 800   1/2   1/	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	5.1
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MATRIX  WASTEWATER  WASTEWATER  WASTEWATER  WASTEWATER  WASTEWATER  OTHER  SOLUTION  OTHER  O	MATRIX  (C)OMP.  (C)OMP. (C)OMP.  (C)OMP.  (C)OMP.  (C)OMP. (C)OMP.  (C)OMP. (C)OMP. (C)OMP.  (C)OMP. (C)OMP. (C)OMP. (C)OMP. (C)	MATRIX COMP.  A CONTAINER  B CONTAINER  CROUNDWATER  CRON	No Zip: 8920 Attn:  Owner: Dough Fleng Cap. State: Zip: Phone #:	27/ d e	SSERV SAMPLING OTHER OTH	# CONTAINERS  WASTEWATER  WASTEWATER  SOIL	5.1
MATRIX FRESERY SAMPLING  WASTERNATER  WASTER	HATRIX FRESERY SAMPLING  GORDUNOWATER  WASTERNATER  GORDUNOWATER  GORDUNOWATER  WASTERNATER  GORDUNOWATER	HESSERY SAMPLING  WASTERY  WAS	Wm Zip: 88200 Attn:  Owner: Oxeon Fung Cap.  State: Zip:	27/ G c	SAMPLING  SAMPLING  SAMPLING  ODTE  U[4](2001 S27)  V[4](2002 6: 470	# CONTAINERS   # CONT	3.1.2
Fax #:  MATRIX  MATRIX	Fax #:  MATRIX PRESERV SAMPLING  GOOD TAILER  GOOD TAILER  GOOD TAILER  GOOD TO THEE	Fax #:  MATRIX PRESERV SAMPLING  GOOD TERM WASTER  WASTER  GOOD TERM GOOD TE	No Zip: 8920 Attn:  Owner: Dough Fleng Cap. City: State: Zip:	V51 ( c)	SAMPLING   SAMPLING   SAMPLING   OTHER   OTH	# CONTAINERS  WESTEWATER  WESTEWATER  SOL  SOL  SOL  SOL  SOL  SOL  SOL  SO	Sample I.D. 5.1 15 255
Phono #:  Fax Fax  WASTERNATER  WASTERNATER  WASTERNATER  GOROUNDWATER  GO	Fax #: Fa	Fax #:  Fax #:	Wm Zip: 822/0 Attn:  Owner: Decen Fung Cap. City: State: Zip:	97/ G es	##: SAMPLING TOHER SAMPLING TOHER WILL 10:320   1/4	# CONTRIERS  # CONTRIER  # CONTRIER  # CONTRIERS  # CONTRIERS  # CONTRIERS  # CONTRIERS	Sample I.D.  5.1 15.455
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FAX #:  Phone #:  FAX #:  GONDANA TERM  WASTERSTON  GONDANA TERM  GONDANA  G	Phono #:  Fax #:  Fax #:  Phono #:	Phono #:  Fax #:  Fax #:  Phono #:  GGOUNDWP:  WASTEWATER  WASTEWA	N/m Zip: 822/0 Attn:  Owner: Deep, Ferg. City:	97/ G 51	SAMPLING  SAMPLING  OTHER  OTHER  OTHER  1/1/ PMZ 10:337	(G)RAB OR (C)OMP.  # CONTAINERS  # CONTAINERS  ASSULT  SOLUTION  ASSULT  ASSUL	Sample I.D.  5.1 15. 45.5.  5.1 18. 45.5.
State: ZID: Phone #: Fax #: Fax #:  Phone #: Fax #:  CODINDW:  CONTROLL  VOCIDIOR  VOC	State: ZID: Phone #: Fax #: Fa	State: ZID:  Phono #:  Fax #:  ON ASTERNAMELING  A COUNTING  A COU	Wm Zip: 82Z/C Attn: Address: Owner: Decor Lan, Can, City:	27. d s	ZID:  ZID:  ZID:  OTHER:  OTHER:  OTHER:  OTHER:  V[L] TD/C. 10: 37.7]  V[L] TD/C. 10: 47.7]	# CONTAINERS  # CONTAINERS  # CONTAINERS  ASSISTMANTER  ASOIL  SOIL  ASSISTMANTER  ASOIL  ASOIL  ASSISTMANTER  ASOIL  ASO	Sample I.D.  Sample I.D.  5.1 15. 45.5  5.1 15. 45.5
State: ZID:  Phone #:  Fax #:  Phone #:  Fax #:  Phone #:  Fax #:  State: ZID:  Phone #:  Fax #:  State: ZID:  Phone #:  Fax #:  Solid   Phone   Pho	State: ZID: Phone #: Fax	State: ZID:  Phone #: Fax #: F	N C Zip: 892/O Attn: Address:	97/ G 51	ZID:  ZID:  OTHER:  OTHER:  OTHER:  V[1,7072.10:37.7]	(G)RAB OR (C)OMP.  # CONTAINERS  GROUNDWATER  ASOIL  SOIL  ASOIL  SIUDGE  ASUICE  ASUI	Sample 1.E. 18-1-18-5  Sample 1.E. 18-5-5  S-1-18-5-5  S-1-18-5-5
State: ZID:  Phono #: Fax #:  Phono #: Fax #:  Phono #: Fax #:  Phono #: Fax #:  COOT ALLER  SCIUDE  SCIUDE  AND AND THER  SCIUDE  SCIUDE  BOOLS C  AND AND THER  SCIUDE  BOOLS C  AND AND THER  SCIUDE  BOOLS C  AND AND THER  SCIUDE  SCIUDE  BOOLS C  AND AND THER  SCIUDE  BOOLS C  AND AND THER  SCIUDE  SCIUDE  BOOLS C  AND AND THER  SCIUDE  S	State: ZID:  Phono #:  Fax #:  Phono #:  Fax #:  Phono #:  Fax #:  Fax #:  GON INNER   PRESERV SAMPLING  GON CONTAINER  GON CO	State: ZID:  Fax #:  F	NM Zip: 882/C Attn: Address:	27/ G ==	ZID:  ZID:  DATE TIME  4/4/2/2015 874	# CONTAINERS  #	Sample 1.E. 18-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5
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10winer: Deven from from the State:  State:  Phono #:  Fax #:	10winer: Decent Factor, 1979.  State: ZID:  State: ZID:  Phone #:  Fax #:  AATRIX  PRESERV SAMPLING  # (1/ PAZ IO 1237)  ACIDIER TIME  80015 C R  # (1/ PAZ IO 1237)  ACIDIER TIME  80015 C R  # (1/ PAZ IO 1237)  ACIDIER TIME  80015 C R  # (1/ PAZ IO 1237)  # (1/ PAZ IO 1237)	1 Owner: Decent Factor (217).  State: ZID:  State: ZID:  Phone #:  Fax #:  #:  F	ANALTSIS AND TO #:    Company: Tules   LPE	97/ G 51	ZID:  ZID: OTHEK: OTHEK: THE DATE TIME 4/4/2/2002 8377	MASTEWATER	200744.019.01 4y0x - Fed. No. 6 11. see, 15. Trys. R? 12. Sample 1. E. Sample 1.
State:  State:  Phono #:  Fax	State: ZID:  State: ZID:  Phone #:  Fax #:  Fa	State: Zip: State:	ANALTSIS P.O. #: Company: τ <sub>N</sub> (s <sub>D</sub> ) LPE Wm Zip: 8827C Attn:	<b>27.</b> G	ZID: ZID: ODITE TIME ODATE TIME #/(/m/c.10:377)	GOWNERS  # CONTAINERS  WASTEWATER  WASTEWATER  SOLL  S	Sample 1.E
HOWINGT DOWN TRAIN (AP)  State: ZID:  PRESERV SAMPLING  WASTEWATER  WASTEWATER  WASTEWATER  OTHER: ZID:  PRESERV SAMPLING  ON COONING  ON	HOWINGT. DOWN FROM FOR CONTRINE AND CONTRICES.  State: ZID: FAX #: FAX #	1 Owner: Develor Leap, Carp.  State: Zip:  State: Zip:  Phone #:  Fax	P.O. #:    Company	V7/ G 51	ZID: ZID: OTHER: SAMPLING  ##   OTHER: 10:3371  #   I   TD/L: 10:3371	Wantering (С)ОМР.  # СОИТА!ИЕЯСЯ  # СОИТА!ИЕЯСЯ  # СОИТА!ИЕЯСЯ  # СОИТА!ИЕЯСЯ  # СОИТА!ИЕЯСЯ  # СОИТА!ИЕЯСЯ  # Т	202941.0784 202341.019.01 4y0x Fed. No. 6 12 Sec. 15-T108.18 Sample I.E.  5.1 15-154  5.1 18-15-5
Address:    Owner: Decent Fergy Crip   State: Zip: Zip: Zip:   Phone #: Fax #:	Houner: Decem Fergy (197)  State: ZID:  Phone #:  Fax #:  Phone #:  Fax #:  Phone #:  Fax #:	Address:  1 Owner: Deep Ferg. 670.  City:  State:  Sta	P.O. #: Company: Tules   LPE	97/ G su	ZID: ZID: ODATE TIME 80155 4/4/7072 6: 1/10	# CONTAINERS  #	575-141.7354 700.344.019.01 4 102. Fed. 140.6 11. Sec. 15-71.75.18 10. Sample 1.E 5.1. 15 45.5 5.1. 18 57.5
Address:  Owner: Deem, Techy (197)  State: Zip: Phone #: Fax #: #: Fa	TOWNER: Deven Termy (1/10)  State: ZID: Phone #: Fax #: Phone #:	TOWNER: Deep Technology  Address:  State: ZID: Phone #: Fax #: Fa	P.O. #: Company: Tules 1.2 E	97/ G 51	ZID: ZID: OTHEK: OTHEK: OTHEK: OTHEK: OTHEK: OTHEK: OTHEK: V[I, mic. 10:3371]	WASTEWATER ASOLE SOLL SOLL STATES ASSET SOLL SOLL STATES ASOLL SOLL STATES ASSET SOLL STATES ASSET SOLL STATES ASSET SOLL STATES ASSET SOLL SOLL SOLL STATES ASSET SOLL SOLL SOLL SOLL SOLL SOLL SOLL SOL	575.441.7354 200.744.019.01.01.6 Lynx Fed. No. 6 now Sulleful Sample I.E 15.
100mner: Devon Team, 120m 672.0  Addross:  Addross:  Addross:  PRESERV SAMPLING  PROBLE SERVING	TOWNOT: Develop Fields   State: Zip:   Phone #: Fax	Wm Zip: 822/C Attn: Address: IOwner: Deven Fermy Left	P.O.#	27/ G ==	Zip: Zip: ODATE TIME 80155 4/4/7072.0:374	MOM ZIP: 6920 COMPP. CONTAINERS STANDING CONTAINERS MASTER MASTERMATER MASTERMATER MASTER MAS	875-141.7354 202-341.7354 202-341.7354 647.8 - 64.6 11 sec. 15-71.75-18 5-1 - 15-355 5-1 - 18-51-5
10 Owner: Devo. Teng Lin.  State:  Sta	TOWITET DOWN TAME AND TAME AND CITY:  Address:  Address:  Phone #:  Fax #:  Address:  City:  State:  S	19/70 Zip: 802/0 Attn:  State: Zip: Phone #: Fax #:	P.O. #:	97/0 5	ZID: ZID: OTHER: OTHER: TOE / COOL SAMPLING OTHER:	100 дагирее д	# Action 5284   2002014. 019. 01   4y0x - Fed. No. 6   4 y0x - Fed. No. 6   6 y0x - Fed. No.
10 Min Zip: 83 Z/C Attr:    Address:   Addre	10wner: Devol. Leap Land Address:  10wner: Devol. Leap Land Land Land Land Land Land Land Land	TOWINGT: DOZUM, F.C.M., Col. D. Attn:  COMPANY: TALES.  Addross:  COMPANY: TALES.  Addross:  COMPANY: TALES.  Addross:  COMPANY: TALES.  PHONO #: Fax	P.O. #:	27/ G - 51	#: ZID: ZID: ZID: #: AMPLING TPH   1/4   1	MONING TO THE TO	# Action 675 - 100 - 11
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19 COMPORT STD: 82200  Addross:  COMPORTY: 74/2, 12/2  Addross:  Addross:  Addross:  Addross:  Phone #:  Fax #:  #:	10wner: Develor Technology: Tales   Zip:   Phone #:   Fax #:   Phone #:   Fax #:   Phone #:   Fax #:   Phone #:   Fax #:   Phone #:	Owner: Devel, Techy (197)  Out 210: 832/0  Address:  Address:  Address:  Address:  Address:  Address:  Address:  Address:  Phone #:  Fax #:  Fax #:  Fax #:  Fax #:  Address:  Only:  State:  City:  Ci	ANALTSIS ANALTSIS	97/ G 51	any:	Owner: Does OR (C)OMP.  # CONTAINERS  GROUNDWATER  WASSTEWATER  OSL  SOLL  SOL	408 Well Toke ( Auc. Atteria State; y 575-441-7354 Fax#: 7007943-019-01 Project Lynx Fed. Wo. 6 release in the Sample I.D. Sample I.D. 5-1 15-5-5-5 5-1 18-5-5-5
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TOWNER: Deep, Ferny, 670.  OMNER: Deep, Ferny, 670.  OMNER: Deep, Ferny, 670.  State: Zip: Phone #: Fax #:	COMPANY: Table 9 Legs of the state of the st	10 Win Zip: 80 ZiO  Attn:  Company: 74 Lo. 1 LRF  Attn:  Addross:  Company: 74 Lo. 1 LRF  Addross:  Addross		97/ G 51	SS:  Zip:  Z	Ownner: Doese 200 COMPP.  W CONTAINERS  W CONTAINERS  WASTEWATER  WASTEWATER  OOL  SOUL  SAUDGE  SAUDGE	90°: n' ke Syussie field 408 Wei Tekel Buc A therin State; 575:441-7354 Fax#: 700714.019.01 Project L 40x Fed. We. 6 release in cec. 15-775-1832 E  Sample I.D. S-1 15-55 5-1 18-55-5

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### FINAL C-141

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### Leking, Geoffrey R, EMNRD

From:

Michael Stubblefield [mstubblefield@talonlpe.com]

Sent: To: Friday, April 20, 2012 3:53 PM Leking, Geoffrey R, EMNRD

Cc:

tbadbear@blm.gov; Hernandez, Roger; Lewis, Merle

Subject:

FW: LYNX FEDERAL NO 6

Attachments:

H200848 TALON.pdf; LYNX FED NO 6 RELEASE; DSC03286.JPG

Dear Mr. Leaking,

Talon/LPE is sending you the analytical results for the soil samples collected at the Lynx Federal No.6 release. Please also find attached the analytical results for the additional delineation for TPH as required by the NMOCD approval for the Lynx Federal No.6 release work plan. Based upon the analytical results dated 4/20/2012, Devon Energy Corporation is requesting approval to backfill the excavation from eight-feet below ground surface (bgs) to four-feet (bgs) using new soil transported to location, place a 20 Mil. liner into the bottom of the backfill area, backfill the excavation to surface using like material transported to the location. If further information is required please contact me.

### Mike Stubblefield

Project Manager Talon/LPE 408 West Texas Avenue Artesia, New Mexico 88210 (575) 746.8768 phone (575) 746.8905 fax (575) 441.7254 cell www.talonlpe.com HOBBS OCD

HOBBS OCD

APR 2 0 2012

RECEIVED

RECEIVED



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist Staples Foundation for Learning Hall of Fame Recipient: 2010 ICIC and Business Week-Top 100: 2010, 2009, 2008, 2007, 2006

Inc. 500/5000: 2011, 2010, 2009, 2008, 2007

From: Celey Keene [mailto:celey.keene@cardinallabsnm.com]

Sent: Friday, April 20, 2012 12:37 PM

To: Michael Stubblefield; David Adkins; Kimberly M. Wilson

**Subject:** LYNX FEDERAL NO 6

THANK YOU,

Celey Keene Lab Director Cardinal Laboratories

101 East Marland Hobbs, NM 88240 T: (575) 393-2326 F: (575) 393-2476

e-mail: celey.keene@cardinallabsnm.com

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The information contained in this message is confidential and is only intended for the use of the individual/firm named above. If the reader of this message is not the intended recipient or the employee/agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by e-mail or telephone in order to return the message.

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April 12, 2012

HOBBS OCD

HOBBS OCD

HÔBBS OCD

MIKE STUBBLEFIELD

APR 20 2012

TALON LPE

408 W. TEXAS AVE. ARTESIA, NM 88210 RECEIVED

RECEIVED

RECEIVED

RE: LYNX FEDERAL NO. 6

Enclosed are the results of analyses for samples received by the laboratory on 04/09/12 16:40.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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.

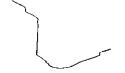
Sincerely,

Celey D. Keene

Lab Director/Quality Manager

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			<b>S</b>
			,





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

Received:

04/09/2012

Reported:

04/12/2012

Project Name: Project Number: LYNX FEDERAL NO. 6 700794.019.01

Project Location:

SEC.15-T17S-R32E

Sampling Date:

04/06/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 15' BGS (H200805-01)

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BTEX 8021B	mg/l	(g	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.401	0.050	04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	9.02	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	13.5	0.050	04/12/2012	ND	2.27	114	2.00	5.63	
Total Xylenes*	20.9	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	113 %	64.4-13	4						
TPH 8015M	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	. 317	10.0	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28 .	1500	10.0	04/12/2012	ND	234	117	200	15.1	
Surrogate: 1-Chlorooctane	144 %	55.5-15	4		·	<del></del>			
Surrogate: 1-Chlorooctadecane	157 %	57.6-15	8					-	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Usbility and Damages. Cardinal's liability and

Celey D. Keine

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

Received: Reported: 04/09/2012

04/12/2012

Project Name: Project Number: LYNX FEDERAL NO. 6 700794.019.01

Project Location:

SEC.15-T17S-R32E

Sampling Date:

04/06/2012 Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-1 18' BGS (H200805-02)

BTEX 8021B	mg/l	(g	Analyze	d By: AP			•		5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	0.283	0.050	04/12/2012	ND	2.13	107	2.00	4.72	
Toluene*	5.00	0.050	04/12/2012	ND	2.26	113	2.00	5.27	
Ethylbenzene*	7.27	0.050	04/12/2012	ND	2.27	114	2.00	5.63	
Total Xylenes*	11.5	0.150	04/12/2012	ND	7.11	118	6.00	5.72	
Surrogate: 4-Bromofluorobenzene (PIL	163 %	64.4-13	4						
TPH 8015M	mg/l	<b>vg</b>	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	344	10.0	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	1700	10.0	04/12/2012	ND	234	117	200	15.1	
Surrogate: 1-Chlorooctane	137 %	55.5-15	4						
Surrogate: 1-Chlorooctadecane	144 %	57.6-15	8				r		•

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\*=Accredited Analyte

PLEASE NOTE: Uability and Demages. including, without limitation, business interruptions, loss of use, or loss of profits incurred by client,

Celey D. Keen

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### **Notes and Definitions**

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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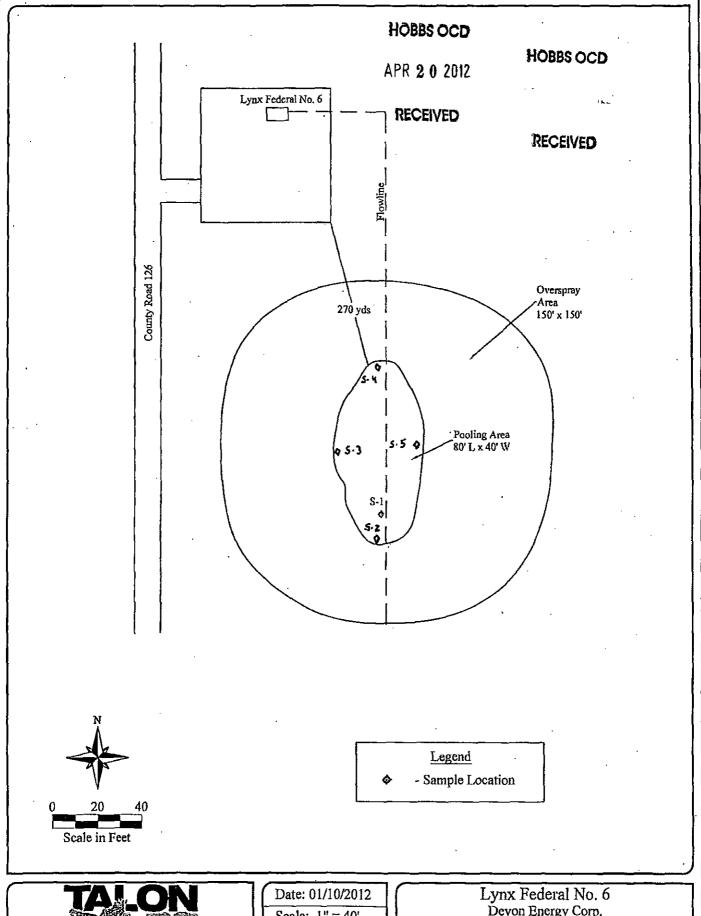
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### CARDINAL

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Sampler-UPS - Bus - (other)

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Scale: 1" = 40'

Drawn By: TJS

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

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April 20, 2012

HOBBS OCD

HOBBS OCD

MIKE STUBBLEFIELD

TALON LPE

APR 2 0 2012

408 W. TEXAS AVE.

ARTESIA, NM 88210

RECEIVED

RECEIVED

RE: LYNX FEDERAL NO. 6

Enclosed are the results of analyses for samples received by the laboratory on 04/12/12 12:34.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

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TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 04/12/2012

04/20/2012

Project Name:

LYNX FEDERAL NO. 6

Project Number: Project Location: 700794.019.01

SEC.15-T17S-R32E

Sampling Date:

04/12/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: S-2 SOUTH WALL (H200848-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2012	ND	2.08	104	2.00	1.18	
Toluene*	<0.050	0.050	04/19/2012	ND	2.19	109	2.00	0.904	
Ethylbenzene*	<0.050	0.050	04/19/2012	ND	2.24	112	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/19/2012	ND	6.96	116	6.00	2.14	
Surrogate: 4-Bromofluorobenzene (PIL	105 %	% 64.4-13	4						
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/16/2012	ND	195	97.6	200	2.32	
DRO >C10-C28	<10.0	10.0	04/16/2012	ND	212	106	200	5.88	
Surrogate: 1-Chlorooctane	97.1	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	97.0	% 57.6-15	8						

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\*=Accredited Analyte

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Celecy D. Kuna

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

Reported:

04/12/2012 04/20/2012

Project Name: Project Number: LYNX FEDERAL NO. 6

Project Location:

Received:

700794.019.01 SEC.15-T17S-R32E

77.2%

57.6-158

Sampling Date:

04/12/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-3 WEST WALL (H200848-02)

BTEX 8021B	mg,	'kg	Analyze	d By: AP			•		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2012	ND	2.08	104	2.00	1.18	
Toluene*	<0.050	0.050	04/19/2012	ND	2.19	109	2.00	0.904	
Ethylbenzene*	<0.050	0.050	04/19/2012	ND	2.24	112	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/19/2012	ND	6.96	116	6.00	2.14	
Surrogate: 4-Bromofluorobenzene (PIL	101	% 64.4-13	4						•
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	04/16/2012	ND	195	97.6	200	2.32	

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Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Fax To:

(575) 745-8905

Received: Reported: 04/12/2012

04/20/2012

LYNX FEDERAL NO. 6

Project Name: Project Number: Project Location:

700794.019.01

SEC.15-T17S-R32E

Sampling Date:

04/12/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: S-4 NORTH WALL (H200848-03)

BTEX 8021B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2012	ND	2.08	104	2.00	1.18	
Toluene*	<0.050	0.050	04/19/2012	ND	2.19	109	2.00	0.904	
Ethylbenzene*	<0.050	0.050	04/19/2012	ND	2.24	112	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/19/2012	ND	6.96	116	6.00	2.14	
Surrogate: 4-Bromofluorobenzenc (PIL	103 5	% 64.4-13	4						
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
GRO C6-C10	<10.0	10.0	04/16/2012	ND	195	97.6	200	2.32	
DRO >C10-C28	<10.0	10.0	04/16/2012	ND	212	106	200	5.88	•
Surrogate: 1-Chlorooctane	94.5	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	94.4	% 57.6-15	8				•		

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TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

04/12/2012

Sampling Date:

04/12/2012

Reported:

04/20/2012

Sampling Type:

Project Name:

LYNX FEDERAL NO. 6

Sampling Condition:

Cool & Intact

Project Number:

700794.019.01

Sample Received By:

Jodi Henson

Project Location:

SEC.15-T17S-R32E

### Sample ID: S-5 EAST WALL (H200848-04)

BTEX 8021B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2012	ND	2.08	104	2.00	1.18	
Toluene*	<0.050	0.050	04/19/2012	ND	2.19	109	2.00	0.904	
Ethylbenzene*	<0.050	0.050	04/19/2012	ND	2.24	112	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/19/2012	ND	6.96	116	6.00	2.14	
Surrogate: 4-Bromofluorobenzene (PIL	106 %	6 64.4-134	1						· · · · · · · · · · · · ·
TPH 8015M	mg/l	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	04/16/2012	ND	181	90.3	200	0.947	
DRO >C10-C28	<10.0	10.0	04/16/2012	ND	190	95.0	200	4.09	
Surrogate: 1-Chlorooctane	74.4 %	6 55.5-154	1			•	,	**************************************	
Surrogate: 1-Chlorooctadecane	74.4 %	6 57.6-158	3						

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\*=Accredited Analyte

any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be deemed walved unless made in writing and received by Cardinal standards, as a subsidiaries, affailed as a subsidiaries, affailed by the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in fish with written approvel of Cardinal Laboratories.

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### **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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### CARDINAL Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1	ANALYSIS REQUEST									8 120 U S108		218								Non	O Yes O No Add'l Phone #:	891					Seed .
0	817718	7.0.#:	Sig: 88210 Attn		Dewn Engay Co.o	11-4	#	Fax#:	MATRIX PRESERV. SAMPLING	яэта	лати мрw эе эе эе эе эе эе эе эе эе	(6) RANGE (1) CONTRETE (1) CONT	P212/21/2		Š				v dem assay whicher based in contract or bot, shall be finited to the encent paid by the clean for the	med waived un hout Emitte on	Received By:	Well Dender REMARKS.	Rifceived By:		Sample Condition CHECKED BY: Cool Intact (Initials)	No II No II O	fax written changes to 505-393-2476
101 East Mariand, Hobbs, NM 8824 (575) 393-2326 FAX (575) 393-2476	Project Manager	Andress 400 11.7 7 11.0	City: Affects State: NP	452C-165-XX :# 0	100794.019.01	ame Lynx Fchera	Ë		FOR LAB USE ONLY		Lab I.D. Sample I.D.	H200848	1 5.2 South Wall	S)	٦.	4 S. G. Eart wall			PLEASE NOTE: Usbrity and Damayes. Cardinal's Mataly and client's erchative remedy for am	-bublyses. At chims withding those for organize and any other cause whateever shall be dee any others. In no event, and Carlother by thirds for inclaimful or consistential includes, manages, manages, makening with aftilists of tectorises to retain off it in related in the sentiments of sentimes because the	Refinquished By:	The State of		Time:	Delivered By: (Circle One) Sampler - UPS - Bus - Ather:		I Cardinal cannot accept verbal changes. Please fax written changes to 505-793-2476

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