Bratcher, Mike, EMNRD

From: Michael Stubblefield <mcstubblefield@talonlpe.com>

Sent: Monday, May 06, 2013 5:59 PM

To: Bratcher, Mike, EMNRD

Cc: Michael Barrett; Jerry Smith

Subject: FW: REVISED LOGAN STATE NO 2 **Attachments:** H300968R TALON.pdf: LOGAN STATE NO 2:

tachments: H300968R TALON.pdf; LOGAN STATE NO 2; Lime Rock Res., LLC Logan 2 State battery site diagram for soil sampling locations.pdf; Lime Rock Resources, LLC Logan State No.2

018.JPG; Lime Rock Resources, LLC Logan State No.2 010.JPG

Dear Mr. Bratcher,

Talon/LPE is sending the analytical test results dated 5/1/13 for soil samples collected at the Lime Rock Resources, LLC Logan 2 State battery. Further excavation has been completed on sample location S-8. Please find analytical test results dated 5/6/13 attached. Photos are attached. Based upon the analytical test results Lime Rock Resources, LLC is requesting approval to backfill the excavated area. I will contact you in the morning the review data.

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



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

Sent: Wednesday, May 01, 2013 4:05 PM

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

Subject: REVISED LOGAN STATE NO 2

Attached is the revised report for the above mentioned project with the added chlorides. This report will replace the one sent 04/29/13.

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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May 01, 2013

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LOGAN STATE NO. 2

Enclosed are the results of analyses for samples received by the laboratory on 04/24/13 13:10.

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



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

Received:

04/24/2013

Sampling Date:

04/24/2013

Reported:

05/01/2013

Sampling Type:

Soil

Project Name:

LOGAN STATE NO. 2

Sampling Condition:

Cool & Intact

Project Number:

701307.045.01

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T18S - R31E

Sample ID: S - 4 (H300968-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/26/2013	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2013	ND	221	110	200	0.0421	
DRO >C10-C28	34.6	10.0	04/26/2013	ND	215	107	200	0.553	
Surrogate: 1-Chlorooctane	102	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

Sample ID: S - 5 (H300968-02)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	04/26/2013	ND	432	108	400	3.77	
TPH 8015M	LSM 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	04/26/2013	ND	221	110	200	0.0421	
DRO >C10-C28	<10.0	10.0	04/26/2013	ND	215	107	200	0.553	
Surrogate: 1-Chlorooctane	111	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keena



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

Received: Reported:

04/24/2013

05/01/2013

LOGAN STATE NO. 2

Project Number: Project Location:

Project Name:

701307.045.01

SEC. 2 - T18S - R31E

Sampling Date: Sampling Type: 04/24/2013

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S - 6 (H300968-03)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP			·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/26/2013	ND	432	108	400	3.77	
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	04/26/2013	ND	221	110	200	0.0421	
DRO >C10-C28	<10.0	10.0	04/26/2013	ND	215	107	200	0.553	
Surrogate: 1-Chlorooctane	97.3	% 65.2-14	10						-
Surrogate: 1-Chlorooctadecane	88.4	% 63.6-15	14						

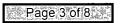
Sample ID: S - 7 (H300968-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	05/01/2013	ND	416	104	400	0.00	
TPH 8015M	8015M mg/kg			d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2013	ND	221	110	200	0.0421	
DRO >C10-C28	<10.0	10.0	04/26/2013	ND	215	107	200	0.553	
Surrogate: 1-Chlorooctane	112	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	116	% 63.6-15	14						

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Celeg & Keene





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

Received: Reported: 04/24/2013

05/01/2013

LOGAN STATE NO. 2

Project Name: Project Number:

701307.045.01

114%

114%

63.6-154

63.6-154

Project Location:

SEC. 2 - T18S - R31E

Sampling Date:

Sampling Type:

04/24/2013 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S - 8 (H300968-05)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5240	16.0	05/01/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2013	ND	221	110	200	0.0421	
DRO >C10-C28	<10.0	10.0	04/26/2013	ND	215	107	200	0.553	
Surrogate: 1-Chlorooctane	112	% 65.2-14	0						

Sample ID: S - 9 (H300968-06)

Surrogate: 1-Chlorooctadecane

Surrogate: I-Chlorooctadecane

Chloride 144 16.0 05/01/2013 ND 416 104	ue Value QC RPD	Qualifier
	400 0.00	
TRU 9015M mg/kg Analyzed Byr MS		
TPH 8015M mg/kg Analyzed By: MS		
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery Tru	ue Value QC RPD	Qualifier
GRO C6-C10 <10.0 10.0 04/26/2013 ND 171 85.5	200 11.1	
DRO >C10-C28 56.6 10.0 04/26/2013 ND 164 82.0	200 13.4	

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Celey L. Keene



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

Fax To:

(575) 745-8905

Received:

04/24/2013

Sampling Date:

04/24/2013

Reported:

05/01/2013

Sampling Type:

Soil

Project Name:

LOGAN STATE NO. 2

Sampling Condition:

Cool & Intact

Project Number:

701307.045.01

115 %

109 %

63.6-154

63.6-154

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T18S - R31E

Sample ID: S - 10 (H300968-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/01/2013	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2013	ND	171	85.5	200	11.1	
DRO >C10-C28	<10.0	10.0	04/26/2013	ND	164	82.0	200	13.4	

Sample ID: S - 11 (H300968-08)

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctadecane

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: DW			,			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/01/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/27/2013	ND	171	85.5	200	11.1	
DRO >C10-C28	13.8	10.0	04/27/2013	ND	164	82.0	200	13.4	

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Celey & Keine



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

(575) 745-8905 Fax To:

Received:

04/24/2013

Sampling Date: Sampling Type: 04/24/2013

Reported:

05/01/2013

Soil

Project Name:

LOGAN STATE NO. 2

Sampling Condition:

Cool & Intact

Project Number: Project Location: 701307.045.01 SEC. 2 - T18S - R31E Sample Received By:

Jodi Henson

Sample ID: S - 12 BACKGROUND (H300968-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW			· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/01/2013	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/27/2013	ND	171	85.5	200	11.1	
DRO >C10-C28	<10.0	10.0	04/27/2013	ND	164	82.0	200	13.4	
Surrogate: 1-Chlorooctane	97.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

Celeg & Keene



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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Clay & Kuna



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

·	(575) 393-2326 FAX (575) 393-247	0										
Company Name	Talon ILPE		Marie - Marriella - Fallentino	B1	LL TO	<u> </u>	AN	IALYS	IS RE	QUEST		
Project Manage	" Mike (Stubblefield		an are a second and	P.O. #:		1 1 1						
Address: 40	8 HA Tenes Auc.	***************************************		Company:	TalunliPE							
City: Ad	esia State: NM	Zip:	38710	Attn:								
Phone #: ς1 ζ	-441-3284 Fax#:		Address:	**************************************	1 1							
Project #: 201	307 - 645 .01 Project Owne	e Rock Res LIC	City:									
Project Name:	Logan State No. Z		State:	Zip:								
Project Location	1: sec. Z. TIBS- R31E		erigan ok offisionennyanggang a st stassam	Phone #:								
Sampler Name:	rise 5 titlefiel			Fax #:						1	1 1	1
FOR LAB USE ONLY	1		MATRIX	PRESERV.	SAMPLING	o'dec						}
Lab I.D. H300968	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	8015M Totaleflor		and the second s				
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8	5.11	<u>د</u> د			4/24/13 10:298							
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PLEASE NOTE: Liabshy and Dambiges. Davidbal's liabshy and cheefs exclusive renerty for any claim, affaing whether based in contract or bot, shall be finded to the amount paid by the cheef for the analyses. All claims including those for negligence and any other cause whatened extend unless make in writing and reselves by Claims in the white 30 was after completion of the applicable service, in one event shall Cardinal be fiable for inclination or rensequencial transages, including wrous Rejection, but descriptions, loss of use of use of profits instructed by claims. In other services are strong or the profit of the profit of the profit of the profit page. In the contraction is profit in the profit page of the profit page.

Relinguished By:		Regeived By: //		Phone Result:	☐ Yes	□ No	(Add'l Phone #:	
	4 24 2013	Modi No	. 1 45	Fax Result:	☐ Yes	□ No	Add'l Fax#:	
mael Stallfield	Time:	GRELL ML	MOON	REMARKS:				
Relinguished By: \	Date:	Received By:	National Control of the Control of t					
· ` `								
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Delivered By: (Circle One)		Sample Condition	1					
Sampler - UPS - Bus Other		Se Cool Intact Ves Ves No No No	(Iditials)					
		V I NO I NO	1 24 1					

Bratcher, Mike, EMNRD

From:

Celey Keene <celey.keene@cardinallabsnm.com>

Sent:

Monday, May 06, 2013 4:52 PM

To:

David Adkins; Kimberly M. Wilson; Michael Stubblefield; Sheldon Hitchcock

Subject: Attachments: LOGAN STATE NO 2 H301056 TALON.pdf

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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May 06, 2013

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LOGAN STATE NO. 2

Enclosed are the results of analyses for samples received by the laboratory on 05/03/13 11:20.

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/ga/lab accredited 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.

Celeg & 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



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

Fax To: (575) 745-8905

Received:

05/03/2013

Sampling Date:

05/02/2013

Reported:

05/06/2013

Sampling Type:

Soil

Project Name:

LOGAN STATE NO. 2

Sampling Condition:

Cool & Intact

Project Number: Project Location:

701307.045.01 SEC. 2 - T18S - R27E Sample Received By:

Jodi Henson

Sample ID: S-12 (H301056-01)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: DW						· · · · · · · · · · · · · · · · · · ·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/06/2013	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon / LPE				BILL TO				ANALYSIS REQUEST											
Project Manager: mike Stubble field				P.O. #:						.]									
Address: 408 West Total Auc.				Company: Talan/LPE				ļ										·	
City: Artesia State: NM Zip: 98710				Attn:					- 1	1									
Phone #: 5ኅና-441-ን254 Fax #:				Address:				.					ŀ						
Project #: 201302.045.01 Project Owner: Lime Rock Rec.				City:							-								
Project Name: Logan State No. 2				State: Zip:												-			
Project Location: sec. 2 - T18(-R77)E				Phone #:				-	- 1]						
Sampler Name: Mile (Stullhold					Fax #:				- 1		•		1						
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PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for a enalyses. All claims including those for negligence and any other cause whatsoever shall be	leemed waived unless n	nade in writing and	d receive	d by Cardi	nal within 30 days aft	er completion of t	he applicable												
service. In no event shall Cardinal be liable for incidental or consequental damages, including affiliates or successors arising out of or related to the performance of services hereunder by C	ardinal, regardless of wr	ether such claim i				asons or otherwis	se.												
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Complete or of bus - Other.		Yes Yes		L	YVV	<u></u>													

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-1326

Bratcher, Mike, EMNRD

From:

Michael Barrett < mbarrett@limerockresources.com>

Sent:

Tuesday, May 07, 2013 4:47 AM

To:

Michael Stubblefield; Bratcher, Mike, EMNRD

Cc:

Jerry Smith

Subject:

RE: REVISED LOGAN STATE NO 2

Thanks

From: Michael Stubblefield [mailto:mcstubblefield@talonlpe.com]

Sent: Monday, May 06, 2013 5:59 PM

To: Bratcher, Mike, EMNRD **Cc:** Michael Barrett; Jerry Smith

Subject: FW: REVISED LOGAN STATE NO 2

Dear Mr. Bratcher,

Talon/LPE is sending the analytical test results dated 5/1/13 for soil samples collected at the Lime Rock Resources, LLC Logan 2 State battery. Further excavation has been completed on sample location S-8. Please find analytical test results dated 5/6/13 attached. Photos are attached. Based upon the analytical test results Lime Rock Resources, LLC is requesting approval to backfill the excavated area. I will contact you in the morning the review data.

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



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

Sent: Wednesday, May 01, 2013 4:05 PM

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

Subject: REVISED LOGAN STATE NO 2

Attached is the revised report for the above mentioned project with the added chlorides. This report will replace the one sent 04/29/13.

Thank you,

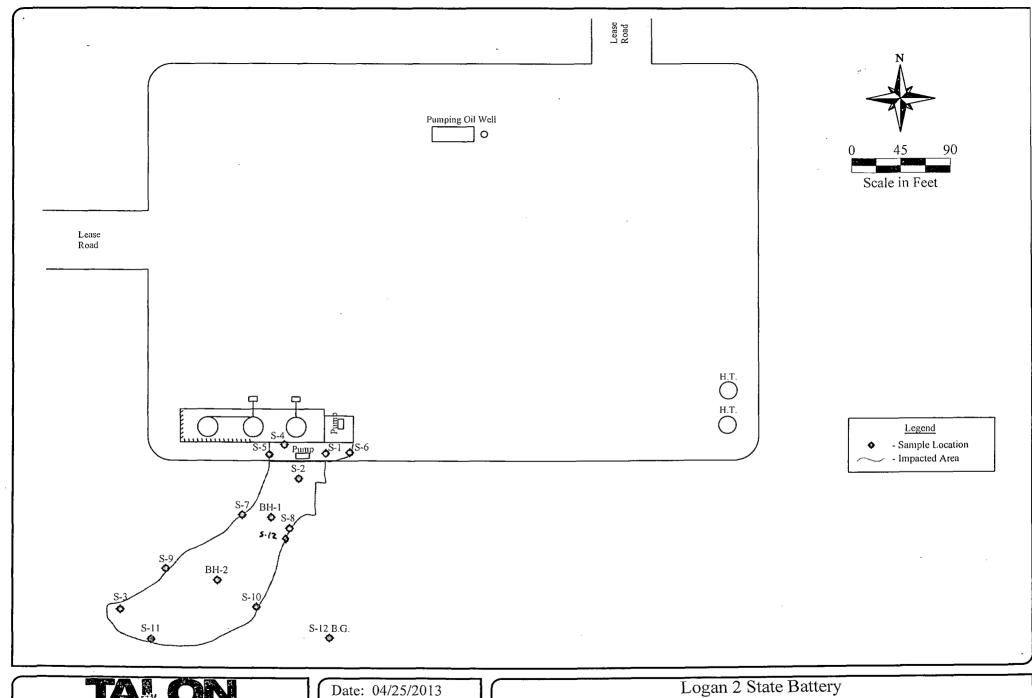
Celey Keene

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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Scale: 1'' = 90'

Drawn By: TJS

Logan 2 State Battery
Lime Rock Resources
Eddy County, New Mexico Figure 1 - Site Plan

