2RP-4345 nAB1722928340



Remediation and Closure Report:

West Red Lake #41 2 RP-4345 API # 30-015-28443 Talon Project No. 701307.101.01

Prepared For:

Lime Rock Resources II-A, L.P. 1111 Bagby Street Suite 4600 Houston, TX 77002

Prepared By:

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

January 3, 2018

Page | 1

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

Subject:

Remediation and Closure Report

West Red Lake #41 API # 30-015-28443

Dear Mr. Bratcher,

Lime Rock Resources II-A, L.P. had contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

Site Information

The Lime Rock West Red Lake Unit 41 is located approximately eleven (11) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter B, Section 7, Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.769298 North and -104.313950 West. A site map is presented in Appendix I.

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 weathered Gypsum. The local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Guadeloupian Artesia Group, Tansil and Yates formations which include silty soils under lain by gypsum and hard caliches. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates that the nearest ground water is 8' below ground surface. See Appendix II for the referenced groundwater data.

Therefore the ranking for this site is a 20 based on the following:

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

Based upon the site ranking of 20, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 100 mg/kg for TPH. The clean-up guideline for total chlorides is 600 mg/kg.

Incident Description

On August 5, 2017, a flow line ruptured resulting in the loss of approximately 323 barrels of produced water. The fluid from the release flowed into a ravine leading to the Pecos River. No fluid entered the river. A vac truck was called to the location and recovered 40 barrels of produced water. A site map is presented in Appendix I which illustrates the impacted area.

Remedial Actions Taken

- 8/5/17-Talon LPE constructed earthen berms to minimize impacts and prevent fluids from reaching the river. A hydroexcavator was used to excavate wet areas.
- 8/6/17-Talon constructed lined sumps in the upper and lower flow paths. The upper flow path of the draw was flushed with 520 barrels of fresh water. 218 barrels were recovered from the upper sump.
- 8/7/17- The lower flow path of the draw was flushed with 520 barrels of fresh water. 310 barrels of water was collected from the lower sump.
- 8/23/17- The upper flow path of the draw was flushed again with 1300 barrels of fresh water. 800 barrels were recovered from the upper sump.
- 8/24/17- The lower flow path of the draw was flushed with 1040 barrels of fresh water. 650 barrels of water was recovered from the lower sump.
- 11/28/17- Talon returned to the location with a backhoe and roustabout crew. Soil samples were collected and field titrated for total chlorides to guide the excavation process. The upper portion of the impacted area within the numerous flow lines present was excavated by hand to avoid damage to the lines. The remaining impacted areas and flow path leading to the draw were excavated with a backhoe to a depth of 1.5-feet below surface.
- The impacted areas within the draw were hand-excavated by roustabout crews.
- Confirmation samples were collected from locations within the draw and from the flow path between the release point and the draw. Sample locations are illustrated on the attached site plans (Appendix I) and the resulting data is summarized in the following table. The complete lab report is attached in Appendix III.
- All contaminated soil was transported to Lea Land, LLC an approved NMOC disposal facility. The excavated area was backfilled with clean caliche obtained from Lea Land LLC, and machine compacted to match the surrounding location.

Laboratory Results

See Appendix III for complete report of laboratory results.

Sample ID	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) EXT DRO
S-1	< 0.300	128	<10	<10	<10
S-2	< 0.300	144	<10	<10	<10
S-3	< 0.300	16	<10	<10	<10
S-4	< 0.300	112	<10	<10	<10
S-5	< 0.300	496	<10	10.8	<10
S-6	< 0.300	80	<10	<10	<10
S-7	< 0.300	144	<10	11.8	<10
S-8	< 0.300	272	<10	12.1	<10
S-9	< 0.300	80	<10	<10	<10
S-10	< 0.300	576	<10	10.7	<10
S-11	< 0.300	352	<10	<10	<10

Closure

Based upon the remedial actions described herein and the resulting analytical data from the confirmation samples, on behalf of Lime Rock Resources we respectfully request that no further action be required and that closure in respect to this incident be granted. A Final C-141 is attached in Appendix IV.

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

Respectfully submitted,

TALON/LPE

Jacob Laird

Environmental Scientist

Kimberly M. Wilson

Project Manager

Attachments:

Appendix I Site Map

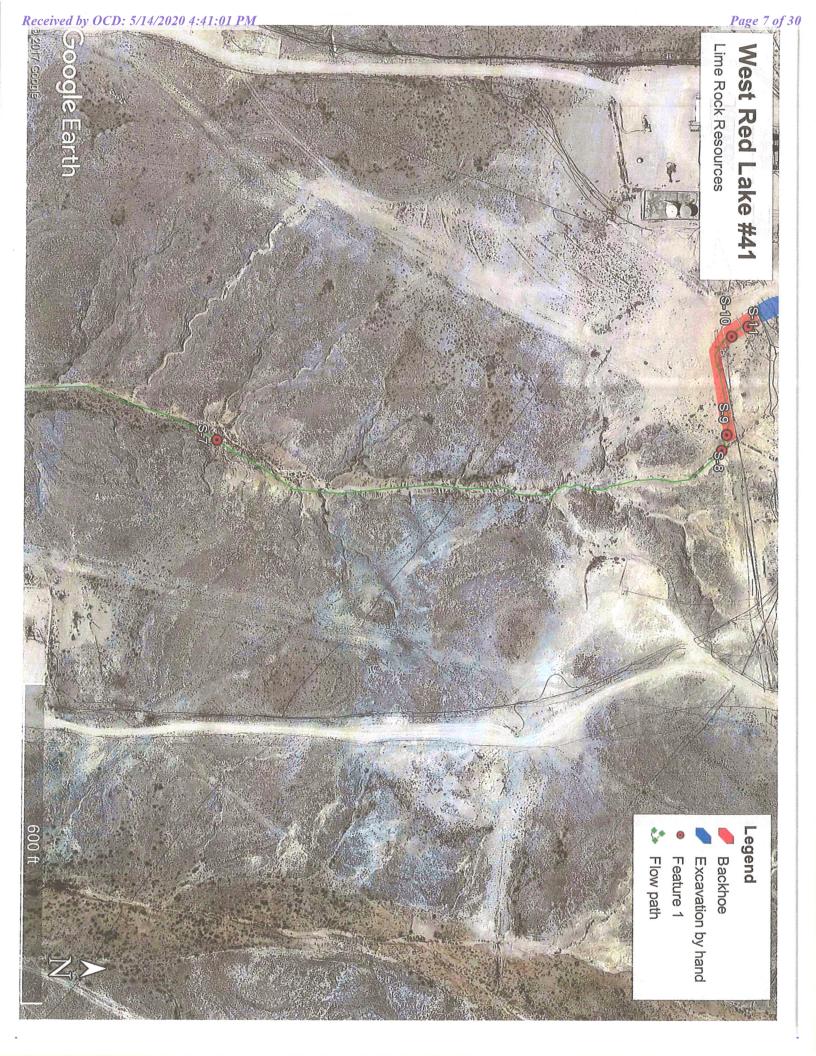
Appendix II Groundwater Data Appendix III Laboratory Results

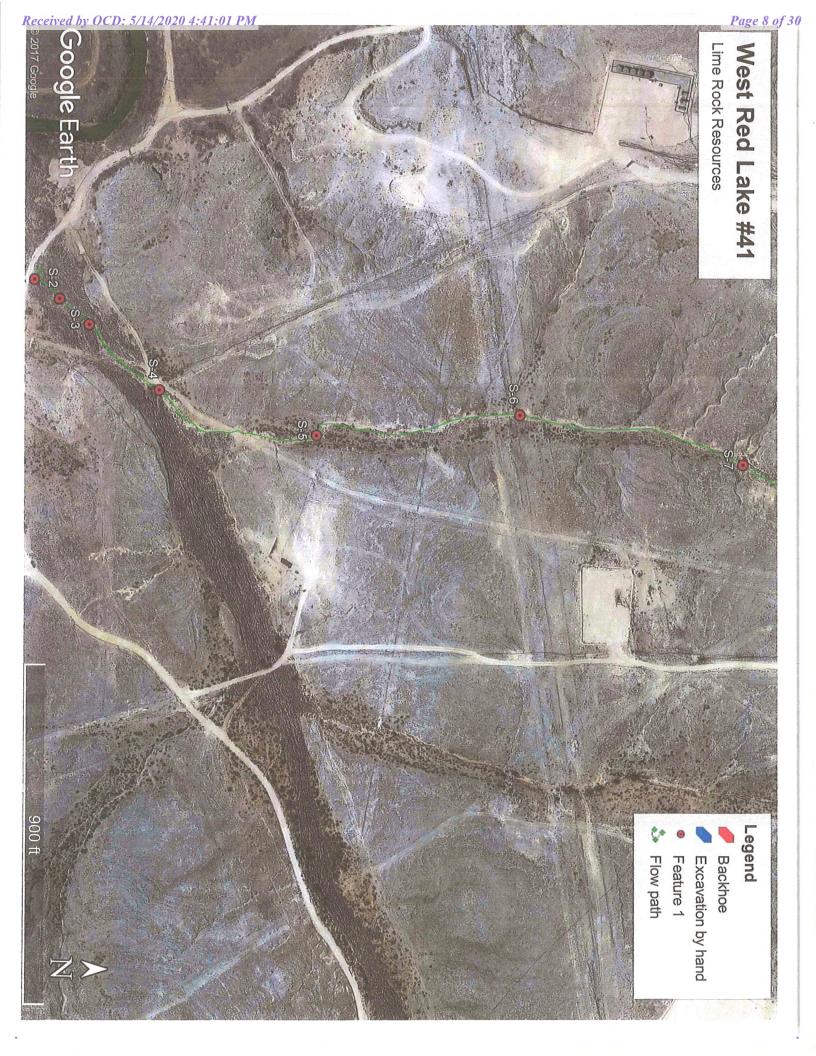
Appendix IV Final C-141

APPENDIX I

SITE MAP









APPENDIX II GROUNDWATER DATA

Page 1 of 1



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

		Sub-	Q	Q	Q								W	ater
POD Number	Code	basin County	64	16	4 5	Sec	Tws	Rng	Х	Υ	DistanceDep	thWellDep		
RA 05989		ED	3	2	4	01	18S	26E	562774	3626466*	1524	72	8	64
RA 03714		CH	4	4	2	80	18S	27E	566212	3625253*	2128	381		
RA 03661		ED	3	2	3	32	178	27E	565186	3628038*	2410	330	140	190
RA 03664		CH	3	2	3	32	178	27E	565186	3628038*	2410	400	100	300
RA 02432		ED	2	3	1	12	18S	26E	561764	3625443*	2440	100		

Average Depth to Water:

82 feet

Minimum Depth:

8 feet

Maximum Depth:

140 feet

Record Count:5

UTMNAD83 Radius Search (in meters):

Easting (X): 564169.94

Northing (Y): 3625852.53

Radius: 2500

*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.

1/2/18 7:36 AM

WATER COLUMN/ AVERAGE DEPTH TO

APPENDIX III LABORATORY RESULTS



December 09, 2017

DAVID ADKINS TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE #41

Enclosed are the results of analyses for samples received by the laboratory on 12/04/17 16:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited accredited accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited accredit

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



Analytical Results For:

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

Received:

12/04/2017

Reported:

12/09/2017

Project Name:

WEST RED LAKE #41

Project Number: Project Location: 701307.101.01

LIMEROCK - EDDY CO NM

Sampling Date:

12/01/2017

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S- 1 (H703332-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0,050	12/06/2017	ND	1.78	88.8	2.00	2.14	
Toluene*	<0.050	0.050	12/06/2017	ND	1.77	88.5	2.00	1.12	
Ethylbenzene*	< 0.050	0.050	12/06/2017	ND	1.70	85.1	2.00	0.625	
Total Xylenes*	<0.150	0.150	12/06/2017	ND	5.34	89.0	6.00	0.698	
Total BTEX	<0.300	0.300	12/06/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.0 9	% 72-148							(****
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/06/2017	ND	432	108	400	3.64	
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	12/06/2017	ND	240	120	200	1.28	
DRO >C10-C28	<10.0	10.0	12/06/2017	ND	231	116	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	12/06/2017	ND					
Surrogate: 1-Chlorooctane	72.9 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	71.0 9	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 15



Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: MS

Received: Reported:

BTEX 8021B

12/04/2017

12/09/2017

WEST RED LAKE #41

Project Name: Project Number:

701307.101.01

mg/kg

Project Location:

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

12/01/2017

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S- 2 (H703332-02)

DIAN COLLD	9/	, va	Antaryac	a by 110					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2017	ND	1.78	88.8	2.00	2.14	
Toluene*	<0.050	0.050	12/06/2017	ND	1.77	88.5	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/06/2017	ND	1.70	85.1	2.00	0.625	
Total Xylenes*	<0.150	0.150	12/06/2017	ND	5.34	89.0	6.00	0.698	
Total BTEX	<0.300	0.300	12/06/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.8	% 72-148							
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/06/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/06/2017	ND	240	120	200	1.28	
DRO >C10-C28	<10.0	10.0	12/06/2017	ND	231	116	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	12/06/2017	ND					
Surrogate: 1-Chlorooctane	82.4	% 28.3-164	!						
Surrogate: 1-Chlorooctadecane	79.6	% 34.7-157	,						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 15



Analytical Results For:

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

Received:

12/04/2017

Reported:

12/09/2017

Project Name:

WEST RED LAKE #41 701307.101.01

Project Number: Project Location:

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

12/01/2017

Sample ID: S-3 (H703332-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2017	ND	1.78	88.8	2.00	2.14	
Toluene*	<0.050	0.050	12/06/2017	ND	1.77	88.5	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/06/2017	ND	1.70	85.1	2.00	0.625	
Total Xylenes*	<0.150	0.150	12/06/2017	ND	5.34	89.0	6.00	0.698	
Total BTEX	<0.300	0.300	12/06/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.5	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/06/2017	ND	432	108	400	3.64	
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	12/06/2017	ND	240	120	200	1.28	
DRO >C10-C28	<10.0	10.0	12/06/2017	ND	231	116	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	12/06/2017	ND					
Surrogate: 1-Chlorooctane	76.0 5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	76.0 9	% 34.7-15	7						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: Reported:

BTEX 8021B

12/04/2017

12/09/2017

WEST RED LAKE #41

Project Name: Project Number:

701307.101.01

ma/ka

Project Location:

LIMEROCK - EDDY CO NM

Sampling Date:

12/01/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S- 4 (H703332-04)

DILA 6021B	nig/	r.A	Allalyzo	u by, 143					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2017	ND	1.78	88.8	2.00	2.14	
Toluene*	<0.050	0.050	12/06/2017	ND	1.77	88.5	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/06/2017	ND	1.70	85.1	2.00	0.625	
Total Xylenes*	<0.150	0.150	12/06/2017	ND	5.34	89.0	6.00	0.698	
Total BTEX	<0.300	0.300	12/06/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.3	% 72-148							
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/06/2017	ND	432	108	400	3.64	
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	12/06/2017	ND	240	120	200	1.28	
DRO >C10-C28	<10.0	10.0	12/06/2017	ND	231	116	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	12/06/2017	ND					
Surrogate: 1-Chlorooctane	65.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	63.4	% 34.7-15	7						

Analyzed By: MS

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 15



Analytical Results For:

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

Received: Reported: 12/04/2017

Project Name:

12/09/2017 WEST RED LAKE #41

Project Number:

701307.101.01

Project Location:

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type: Sampling Condition:

Sample Received By:

12/01/2017 Soil

Cool & Intact

Jodi Henson

Sample ID: S- 5 (H703332-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS			promotop dour fou doughouse play (di live durch stall live) y sigle et god en de vision en et en de		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2017	ND	1.78	8.88	2.00	2.14	
Toluene*	<0.050	0.050	12/06/2017	ND	1.77	88.5	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/06/2017	ND	1.70	85.1	2.00	0.625	
Total Xylenes*	<0.150	0.150	12/06/2017	ND	5.34	89.0	6.00	0.698	
Total BTEX	<0.300	0.300	12/06/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIC	96.8	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/06/2017	ND	432	108	400	3.64	
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	12/06/2017	ND	240	120	200	1.28	
DRO >C10-C28	10.8	10.0	12/06/2017	ND	231	116	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	12/06/2017	ND					
Surrogate: 1-Chlorooctane	60.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	60.6	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 15



Analytical Results For:

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

Reported: 12/09/2017

Project Name: WEST RED LAKE #41
Project Number: 701307.101.01

Project Number: Project Location:

Received:

BTEX 8021B

LIMEROCK - EDDY CO NM

mg/kg

12/04/2017

Sampling Date:

12/01/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-6 (H703332-06)

DILAGOZID	ing/	ng	Anaryzo	u by. 145					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2017	ND	1.78	8.88	2.00	2.14	
Toluene*	<0.050	0.050	12/06/2017	ND	1.77	88.5	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/06/2017	ND	1.70	85.1	2.00	0.625	
Total Xylenes*	<0.150	0.150	12/06/2017	ND	5.34	89.0	6.00	0.698	
Total BTEX	<0.300	0.300	12/06/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.0	% 72-148							
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/06/2017	ND	432	108	400	3.64	
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	12/06/2017	ND	240	120	200	1.28	
DRO >C10-C28	<10.0	10.0	12/06/2017	ND	231	116	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	12/06/2017	ND					
Surrogate: 1-Chlorooctane	64.7	% 28.3-16-	1						
Surrogate: 1-Chlorooctadecane	66.4	% 34.7-157	7						

Analyzed By: MS

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received: Reported:

BTEX 8021B

12/04/2017

12/09/2017

WEST RED LAKE #41

Project Number:

Project Name:

701307.101.01

mg/kg

Project Location:

LIMEROCK - EDDY CO NM

Sampling Date:

ing Dutc.

Sampling Type: Soil Sampling Condition: Coo

Sample Received By:

Cool & Intact

12/01/2017

Jodi Henson

Sample ID: S-7 (H703332-07)

DILX GOZID	mg	rg	Allaryac	u by, 145					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2017	ND	1.78	88.8	2.00	2.14	
Toluene*	<0.050	0.050	12/06/2017	ND	1.77	88.5	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/06/2017	ND	1.70	85.1	2.00	0.625	
Total Xylenes*	<0.150	0.150	12/06/2017	ND	5.34	89.0	6.00	0.698	
Total BTEX	<0.300	0.300	12/06/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.1	% 72-148							
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/06/2017	ND	432	108	400	3.64	
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	12/07/2017	ND	199	99.4	200	20.6	
DRO >C10-C28	11.8	10.0	12/07/2017	ND	205	102	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	12/07/2017	ND					
Surrogate: 1-Chlorooctane	101	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	99.0	% 34.7-15							

Analyzed By: MS

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 8 of 15



Analytical Results For:

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

Received:

12/04/2017

Reported:

BTEX 8021B

12/09/2017 WEST RED LAKE #41

Project Name: Project Number:

701307.101.01

mg/kg

Project Location:

/0130/.101.0

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

12/01/2017

Jodi Henson

Sample ID: S-8 (H703332-08)

Analyte Benzene* Toluene* Ethylbenzene* Total Xylenes* Total BTEX	Result <0.050 <0.050 <0.050 <0.150 <0.300	Reporting Limit 0.050 0.050 0.050 0.150 0.300	Analyzed 12/07/2017 12/07/2017 12/07/2017 12/07/2017	Method Blank ND ND ND ND	BS 1.77 1.75 1.70 5.27	% Recovery 88.5 87.5 84.8	True Value QC 2.00 2.00 2.00	RPD 1.18 0.0440 1.52	Qualifie
Toluene* Ethylbenzene* Total Xylenes*	<0.050 <0.050 <0.150	0.050 0.050 0.150	12/07/2017 12/07/2017 12/07/2017	ND ND	1.75 1.70	87.5 84.8	2.00 2.00	0.0440	
Ethylbenzene* Total Xylenes*	<0.050 <0.150	0.050 0.150	12/07/2017 12/07/2017	ND	1.70	84.8	2.00		
Total Xylenes*	<0.150	0.150	12/07/2017					1,52	
				ND	5.27	07.0			
Total BTEX	<0.300	0.300	12/07/2017		O.1	87.8	6.00	1.86	
			12/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.0	% 72-148							
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	272	16.0	12/06/2017	ND	432	108	400	3.64	
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	12/07/2017	ND	199	99.4	200	20.6	
DRO >C10-C28	12.1	10.0	12/07/2017	ND	205	102	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	12/07/2017	ND					
Surrogate: 1-Chlorooctane	100 %	% 28.3-164	1				and the second s		
Surrogate: 1-Chlorooctadecane	93.1	% 34.7-157	7						

Analyzed By: MS

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*=Accredited Analyte

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Page 9 of 15



Analytical Results For:

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

Received:

BTEX 8021B

12/04/2017

Reported:

12/09/2017

Project Name:

WEST RED LAKE #41

mg/kg

Project Number: Project Location: 701307.101.01

LIMEROCK - EDDY CO NM

Sampling Date:

12/01/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-9 (H703332-09)

DILA GOZZE	nig.	/ ky	Analyze	a by: M5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/07/2017	ND	1.77	88.5	2.00	1.18	
Toluene*	<0.050	0.050	12/07/2017	ND	1.75	87.5	2.00	0.0440	
Ethylbenzene*	<0.050	0.050	12/07/2017	ND	1.70	84.8	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/07/2017	ND	5.27	87.8	6.00	1.86	
Total BTEX	<0.300	0.300	12/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.7	% 72-148							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/06/2017	ND	432	108	400	3.64	
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	12/07/2017	ND	199	99.4	200	20.6	
DRO >C10-C28	<10.0	10.0	12/07/2017	ND	205	102	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	12/07/2017	ND					
Surrogate: 1-Chlorooctane	119 9	% 28.3-164	1	***************************************					
Surrogate: 1-Chlorooctadecane	1169	% 34.7-157	7						

Analyzed By: MS

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

12/04/2017

Reported:

12/09/2017

Project Name:

WEST RED LAKE #41

Project Number: Project Location: 701307.101.01

LIMEROCK - EDDY CO NM

Sampling Date:

12/01/2017

Soil

Sampling Type: Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: S- 10 (H703332-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/07/2017	ND	1.77	88.5	2.00	1.18	
Toluene*	<0.050	0.050	12/07/2017	ND	1.75	87.5	2.00	0.0440	
Ethylbenzene*	<0,050	0.050	12/07/2017	ND	1.70	84.8	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/07/2017	ND	5.27	87.8	6.00	1.86	
Total BTEX	<0.300	0.300	12/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.3 9	6 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	12/06/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	кg	Analyze	d By: MS				nichtstutterikenstatung-cherpotessa	-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/07/2017	ND	199	99.4	200	20.6	
DRO >C10-C28	10.7	10.0	12/07/2017	ND	205	102	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	12/07/2017	ND					
Surrogate: 1-Chlorooctane	102 %	6 28.3-164	1						
Surrogate: 1-Chlorooctadecane	92.49	6 34.7-157	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 11 of 15



Analytical Results For:

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

Received:

12/04/2017

Reported:

12/09/2017

Project Name: Project Number:

WEST RED LAKE #41 701307.101.01

Project Location:

LIMEROCK - EDDY CO NM

Sampling Date:

Sampling Type:

12/01/2017 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S- 11 (H703332-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/07/2017	ND	1.77	88.5	2.00	1,18	
Toluene*	<0.050	0.050	12/07/2017	ND	1.75	87.5	2.00	0.0440	
Ethylbenzene*	<0.050	0.050	12/07/2017	ND	1.70	84.8	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/07/2017	ND	5.27	87.8	6.00	1.86	
Total BTEX	<0.300	0.300	12/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.0	% 72-148						Annual Annua	
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	352	16.0	12/06/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	12/07/2017	ND	199	99.4	200	20.6	
DRO >C10-C28	<10.0	10.0	12/07/2017	ND	205	102	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	12/07/2017	ND					
Surrogate: 1-Chlorooctane	86.7	% 28.3-16-	4		-				
Surrogate: 1-Chlorooctadecane	80.8	% 34.7-15	7						

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Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

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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Caboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Marine, WOOD/ DI		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*	ANAI YSIS REQUEST
1		P.O. #;		
Address: 408 W. Texas Ave.		Company: Talon/LPE		
city: Artesia state: NIV	Zip: 88210			
-746-8768		Address:		
Project #: 76/307, 101, 01 Project Dumer: 4/me	Rock	City:		
d Ka		State: Zip:		
Project Location: Eddy County		**	5	,
6		Fac#:	de	
אסה האם הצב סאול.	MATRIX	PRESERV. SAMPLING		
lab LO.	WATER WATER		hlor ot E	
1703332	#CONT GROUN WASTE SOIL OIL SLUDG	OTHER ACID/B, ICE /.CC OTHER DAIL	Time (
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7.5		=	010	
3 5:3			1020	
4.5 4			630	
5.5			1040	
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		- /	1100	
8.5		//	1100	
5.9		//	1120	
	₹ €		1130 1 1 1	
andyers. Al dekin hebeling these for emissions were sense persons and young states based a content for shall be infined to more persons and the expensive sense of except by the state of except by the state of the expensive persons and the expensive persons are the expensive persons and the expensive persons are the expensive persons and the expensive per	ing wijout iminigat, butter based in centucia ja se deemed walved toices made ja wiling and t se deemed walved toices made ja wiling and t	e fort, shall be limited to the standart py testived by Cardinal within 30 days after on: so of oxe, or loss of profits frevened by eliept	ins خالعاد اور باله عارفالم ولا باله عهوالصفاء و الم مناصراتا منام،	
Relinquished By: Date: 12-4/-/1	Received By:	Figure State State State of the Market State Sta	Phono Result: 11 Yes 11 No	9 Addil Phone #: 0 Addil Fax #:
Relinquished By: Time:	Received By:	Work C.		
Delivered By: (Circle One)	Sample Conditio	a chackeden:		,
Sampler - UPS - Ens - Office: 7 1	-1.00 The Table	で記り		

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tompany Name: To	01 East Marland, Hol 176) 393-2326 FAX (1 Talon/LPE O Odkins V. Texas Ave.	n 88210	P.O. #; Company: Talon/LPE Attn:		ANALYSIS REQUEST
Phone#: 575-	575-746-8768 Fax	746-8905	Address:		
164	Rod La		fe: Zip;		
Project Location:	Eddy Cour	Pho	华	25	
Sampler Name:	8	Fax	## ·	1	
FOR LAB LISE ONLY		MATRIX	PRESERV SAMPLING	1/2/	
Lab LD. H70 5333	Sample I.D.	(G)RAB OR (C)OMP, CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE DTHER:		Chlor TPI-1 BTE	
	5://	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	12.1.17/	メンノ	
		,			
LEGE NOTE: LINKY and D	אחים איים כוושוושה (תוצונה) שים כוושגים האינה	A THE CONTROL OF THE PROPERTY	וואון פל וואון וואין אוואן אוואן אינוער פון פל וואון אינוער פון פל וואון אינוער פון פל וואון אינוער פון פל וואון		
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Reinquished By:	Date:	Specemed By:	Phone Regult Fax Result REMARKS:	ELL D. Yes D. No.	AddT Fax 先 AddT Fax 先
Delivered By: {	: (Circle One) 75	Sample Condition Cool Intact Fig. 10 1 No 1 No	CHECKED BY:		,
† Cardinal car	きゅうか のうつうちゃく いっぱっぱ ヘガト・マン		and don't		VEDERANDER AND AND ALCOHOLOGICAL AND

APPENDIX IV

FINAL C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notifica	tior	and Co	orrective A	ction	l			
						OPERA'			☐ Initia	al Report		Final Repor
		ime Rock Re				Contact: Mi		2.4				
and the same of th	the same of the sa	Street Suite Red Lake Un		uston, TX, 77002		Telephone I Facility Typ	No. 575-365-97	24				
		CCI Lake Of	110 17-1				70. 011		LDVV	20.015.00	110	
Surface Ow	ner: BLM			Mineral Ow	ner:	Federal			API No	. 30-015-28	3443	
						OF RE	,	,				
Unit Letter B	Section 7	Township 18S	Range 27E	Feet from the 330		South Line North	Feet from the 1800		West Line East	County Eddy		
		La	atitude_	32.7687035	_Lo	ongitude	104.3148575	N	AD83			
				NATU	RE	OF REL	EASE					
Type of Rele							Release: 323 bbl	and the second second second		Recovered: 4	-	
Source of Re	lease: Flow	line					Hour of Occurrence 10:00 a.m.	ce		Hour of Disc @ 11:00 a.m		
Was Immedi	ate Notice C	Given?				If YES, To	Whom?			(6) 11100 4111		
		\boxtimes	Yes	No Not Requ	ired	Mike Brate Shelly Tuc	cher/Crystal Wear	ver-NM	OCD			
By Whom? S	Sheldon Hito	chcock-Talon/	LPE		,	Date and I						
Was a Water		1-10				8/5/2017 (c	0) 6:17 pm olume Impacting	the Wet	argourga			
Was a Water	course Reac		Yes [No		Approx. 2		ine wat	cicourse.			
If a Watercou	irse was Imj	pacted, Descr	ibe Fully.*									
The fluid from	m the releas	e flowed into	a drainage	leading to the Peco uilt in the upper and	s Riv	er. No fluid (er portion of t	entered the river he drainage so th	. The flu	uid was con moff could	tained within be collected	n earth utiliz	en berms at
truck.	the non pe	idi. Dinod dan	ips were e	ant in the apper and	10110	portion or .	ne aramage iso m					
Describe Car	ise of Proble	em and Reme	dial Action	Taken *								
A flowline fa	iled resultin	ig in the releas	se of appro	eximately 323 bbls of	f pro	duced water.	A vacuum truck	was util	ized to reco	ver approxir	nately	40 bbls of
produced wa	ter. The line	was repaired	and put ba	ack into service.								
Describe Are	a Affected a	and Cleanup A	Action Tak	en.*								
Describe Area Affected and Cleanup Action Taken.* The fluid from the release entered an adjacent drainage which flows into the Pecos River. No fluid entered the river. The fluid was contained at the end the flow path with earthen berms. Lined sumps were constructed in the upper and lower of the drainage so that any fluid running down the flow path with earthen berms.									at the end of			
be captured.	The upper a	nd lower port	ions of the	draw were flushed	with f	fresh water of	n two separate oc	casions.	The water	used to flush	the d	raw was
collected from	n the sumps	utilizing a va	cuum truc	k. The impacted are	as we	re excavated	to a depth of 1.5.	-feet. Co	onformation	samples we	re col	ected from
the draw and	flow path. A	All contamin	ated soil	was transported to rom Lea Land LL	Lea Can	Land, LLC	an approved N	MOC o	lisposai fa e surround	ing location	excav	ated area
I hereby certi	fy that the in	nformation gi	ven above	is true and complete	e to th	ne best of my	knowledge and u	indersta	nd that purs	suant to NM	OCD r	ules and
regulations al	l operators	are required to	o report an	d/or file certain rele	ase no	otifications a	nd perform correct	ctive act	ions for rela	eases which	may e	ndanger
should their of	or the envir	onment. The ave failed to a	acceptanc dequately	e of a C-141 report investigate and rem	oy tne ediate	e contaminati	on that pose a thr	eat to g	round water	r, surface wa	ator o	man health
or the environ	nment. In a	ddition, NMO	CD accep	tance of a C-141 rep	ort de	oes not reliev	e the operator of	respons	ibility for c	ompliance w	ith an	y other
federal, state,	or local lav	vs and/or regu	lations.		-		OIL CON	SERV	ATION	DIVISIO	N	
	11/	1/6.					OIL COIV	DLICY	ATION	DIVIDIO	114	
Signature: /	un	1730	4				D :	. ,,				
Printed Name	: Mike Barı	rett				Approved by	Environmental S	pecialis	ι;			
Title: Produc	tion Superin	tendent				Approval Da	te:		Expiration	Date:		
E-mail Addre	ss: mbarrett	@limerockre	sources.co	m	_ (Conditions of	f Approval:			Attached		
Date: 12/19/1	7		Phone:	575-365-9724								

^{*} Attach Additional Sheets If Necessary

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

			Rele	ease Notific	ation	and Co	rrective A	ction			
						OPERATOR					
THE RESERVE AND ADDRESS OF THE PARTY OF THE		me Rock Re				Contact Mik					
		St. Ste. 4600		n, TX 77002			lo. 575-365-972	24			
Facility Nar	ne West R	ed Lake Uni	t #41			Facility Typ	e Oil				
Surface Ow	ner BLM			Mineral O	wner F	ederal			API No	. 30-015-2	8443
				LOCA	TIOI	OF REI	LEASE				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		est Line	County	D.I.I
В	7	18S	27E	330]	North	1800	1	East		Eddy
	I		Lotitu	de 32.7687035	L	ongitudo 1	04.3148575	NAD8:	3		
			Lautu			0		IVADO.	,		
Type of Relea	ase Produce	d Water		NAT	URE	OF RELI	Release 323bbls		Volume R	ecovered 40	Obbls
Source of Re			**************				our of Occurrence	e	and the contract was proportionally the contract of the contra	Hour of Dis	Accordance to the second secon
Was Investigate Nation Circus?						8/5/2017 @			8/5/2017	@ 11:00 am	
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required ☐ If YES, To Whom? ☐ Mike Bratcher/Crystal Weaver-NMOCD											
			103	No LI Not Ke	quired	Shelly Tuc		OI THIN			
By Whom? S							our 8/5/2017 @ 6				
Was a Watero	course Reac		Yes [l No		Approx. 25	lume Impacting t 0bbls	ne Wate	rcourse.		
If a Watercou	rea was Im										
II a watercou	ise was iiij	pacicu, Descri	oc runy.								
				e leading to the Pe in the upper and I							earthen berms at the lizing a vacuum
	iled resultin	g in the releas	se of appro	n Taken.* eximately 323bbls ack into service.	of prod	luced water. A	Vacuum truck w	vas utiliz	ed to recov	er approxin	nately 40bbls of
Describe Area Affected and Cleanup Action Taken.*											
The fluid from the release entered an adjacent drainage which flows into the Pecos River. No fluid entered the river. The fluid was contained at the end of the flow path with earthen berms. Lined sumps were constructed in the upper and lower portions of the drainage so that any fluid running down the									ained at the end of		
drainage will	be captured	. In an effort t	a sumps v to mitigate	e impacts from the	release	the draw was	flushed with free	sh water	The water	r was recove	ered from the sumps
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.									may endanger rator of liability ster, human health		
	1 0	1 1-	_			OIL CONSERVATION DIVISION					
Signature:	Mi		Da								
Printed Name:	: Mike Barr	ett			1	Approved by	Environmental Sp	pecialist	:	***************************************	
Title: Producti	ion Superin	tendent			1	Approval Date	e:	I	Expiration 1	Date:	***************************************
E-mail Addres	ss: mbarrett	@limerockres	sources.co	m	(Conditions of	Approval:			Attached	
Date: 8/10/20				75-365-9724							
Attach Additi	onal Shee	ts If Necessa	ry								