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ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING

Toll Free: 866.742.0742 www.talonlpe.com August 15, 2011

Mr. Mike Barrett Lime Rock Resources 720 East College Blvd. P.O. Box 2147 Roswell, NM 88202

Subject:

## Site Assessment Report Marathon Water Transfer Line Release API # 30-015-36555 – 2RP-791

Dear Mr. Barrett,

Lime Rock Resources Operating Company, Inc. (Lime Rock) has contracted Talon/LPE (Talon) to conduct a contamination assessment in response to the recent release at the above referenced facility. This report details our field testing and methodology, laboratory reports, the results of our site assessment, conclusions and recommendations for remedial actions.

Should you have any questions or if we may be of further assistance, please do not hesitate to contact us.

Respectfully submitted,

TALON/LPE

Mike Stubblefield Project Manager

David J. Adkins District Manager

AUG 17 2011 NMOCD ARTESIA

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## **1.0** Introduction and Purpose

## 1.1 Site Location and Setting

The Marathon Water Transfer Line Release is located approximately fifteen (15) miles east of Artesia, New Mexico. The legal location for the site is Section 26, Township 17 South and Range 28 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.80082 North and -104.14941 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Simona-Bippus land complex soils with 0 to 5 percent slopes. The local surface and shallow geology consists of Quaternary Age sedimentary deposits which are comprised of alluvium and eolian sands which includes silty soils under lain by dense caliche layers. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S34-T17S-R28E. The ground water in Section 34 is reported to be at an average depth of 53' below ground surface (bgs).

## 1.2 Site Ranking

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

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

## **1.3** Incident Description

On May 24, 2011 a below grade 2-inch diameter steel water transfer line was found to be leaking. The line was shut-in, repaired and placed back into service. This transfer line moves produced water from the Marathon 25, Marathon A25 and Marathon 26 batteries and crosses under US Highway 82 through a conduit pipe to the Quantum SWD. Approximately 190 barrels of produced water were released. A vacuum truck was used as an initial response to recover 130 barrels of produced water. The initial release is located in Unit M, Section 26, Township 17 South and Range 28 East, just north of Highway 82 and measures approximately 10-feet wide by 30-feet in length. The discharged fluids then traveled eastward along the north side of US Highway 82 in the right of way encompassing an area approximately 6-10 feet wide by 239-feet long.

The released fluids also traveled though the conduit running southward under US Highway 82 and exited in a second flow path measuring approximately 80-feet wide and narrowing down to 4-feet wide by 544-feet long as shown on the attached Site Plan. This area and the conduit running under Highway 82 contain multiple fluid transfer lines operated by several oil companies in the area.

## 1.4 Purpose

The objective of this contamination assessment is to provide Lime Rock with a comprehensive delineation of the impacts resulting from this release, and to propose a cost-effective remediation plan. Background samples were also obtained in order to separate the current discharge from potential influences related to historical releases in the area.

A Site Plan illustrating the study area is attached hereto.

## 2.0 FIELD INVESTIGATIONS

On June 3 and June 6, 2011 Talon/LPE (Talon) mobilized personnel were on the site to begin the assessment and soil sampling for the construction of a work plan. Utilizing a backhoe, grab soil samples were collected from the impacted areas of the release. The soil samples labeled S-1 were collected from the initial release area. Soil sample locations S-2 and S-3 were collected in the right of way adjacent to the north side of US Highway 82. Soil samples from sampling point S-4 were collected from the impacted area near the conduit exit immediately south of US Highway 82. Soil samples S-5 to S-10 were collected from the flow path located south of US highway 82. Sampling locations are shown on the Site Plan.

On June 9, 2011 Talon returned to the Lime Rock Marathon release site to collect additional soil samples utilizing a split spoon auger rig to obtain vertical delineation for chlorides at sample location S-1. Due to the over head power lines in the area, Talon could not safely raise the drill rig's mast to continue the subsurface investigation and collect additional soil samples at greater depths for the delineation of chlorides from the initial release area.

Consequently, the drill rig moved to the impacted area on the south side of US Highway 82. A bore hole was then advanced into the second flow path running eastward from the conduit located south of US Highway 82. The boring (B-1) was located 180-feet east of the conduit between the test trench sampling locations S-7 and S-8. The sampling location is shown on the site plan.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were analyzed for total chlorides per laboratory test method SM4500Cl-B. One sample obtained at location S-4, was also tested for Total Petroleum Hydrocarbons (TPH) using EPA Method 8015M Volatile Organics (BTEX) per EPA Method 8021B. The complete laboratory report is attached as Appendix I.

## 3.0 ANALYTICAL RESULTS

Analytical reports received from Cardinal Laboratories are summarized below:

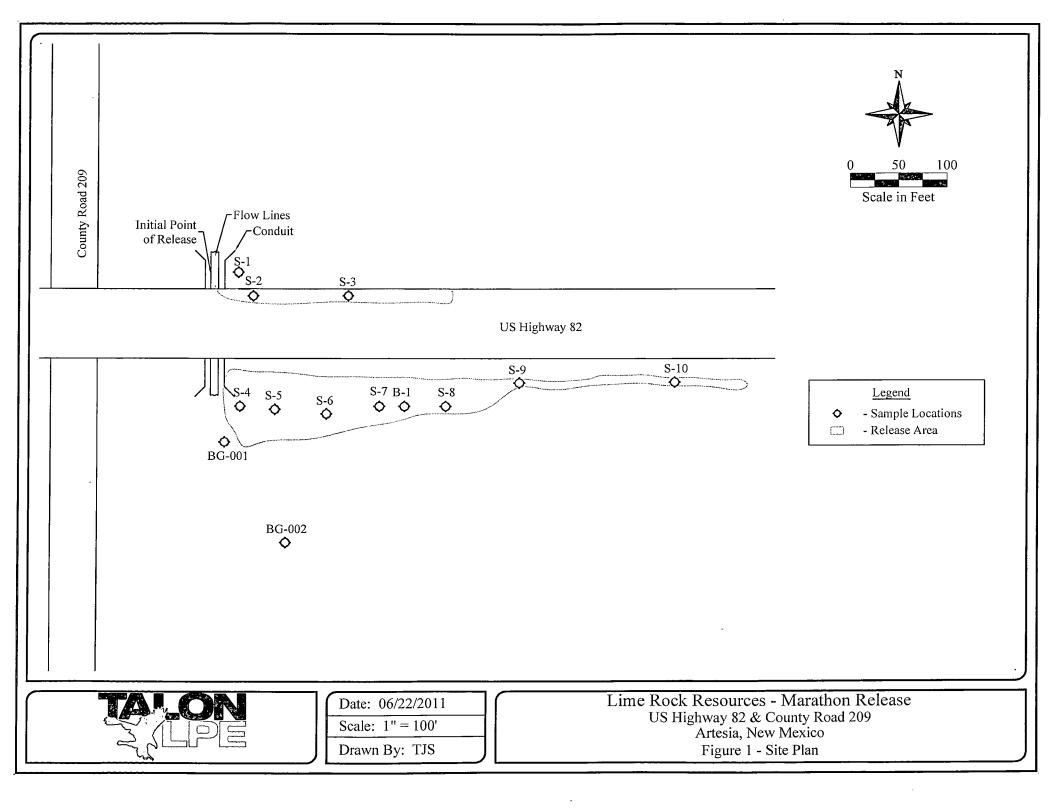
## 3.1 Laboratory reports June 20, 2011

	S-1		S-2	S-1			S-4	S-5		
Feet	Chlorides	Feet	Chlorides	Feet	Chlorides	Feet	Chlorides	Feet	Chlorides	
0'	13000	0'	6400	0'	10600	0'	15600	0'	38400	
2'	10000	2'	9800	2'	352	2'	8600	2'	4400	
4'	16800	4'	9400	<u>4</u> '	48	4'	2920	*		
6'	18000	6'	208	6'	192	6'	624			
.8'	16000	<u>8</u> '	48	8'	320	8'	640			
10'	14200					10'	432			
			· · · · · · · · · · · · · · · · · · ·							
	S-6		S-7	S-	S-8		S-9	S	-10	
Feet	Chlorides	Feet	Chlorides	Feet	Chlorides	Feet	Chlorides	Feet	Chlorides	
0'	21200	0'	38800	0'	20000	0'	176	0'	272	
2'	3280	2'	5680	2'	10200	2'	6560	2'	192	
*		*		*		4'	7360	4'	48	
						6'	112	6'	16	
						8'	112			
						10'	48			
	B-1		S	5-4						
Feet	Chlorides	Feet	Chlorides	BTEX(mg/kg)	TPH(mg/kg)	,				
0'	25600	0.5'	25600	<50	53400					
1'	10600									
5'	144									
10'	32									

\*Refusal encountered with backhoe.

# 3.2 Laboratory Report June 29, 2011

Background soil samples (BG) for chlorides were taken on June 23, 2011. The results were BG-1 at land surface 2440 mg/kg, and BG-2 at land surface results were 41600 mg/kg. All sample locations are illustrated on the attached Site Plan.



## 4.0 SUMMARY AND CONCLUSIONS

- Ground water in the project vicinity is greater than 50-feet below land surface per the New Mexico State Engineer Database.
- The chloride remediation standard is considered to be 1,000 mg/kg.
- The vertical chloride impacts in the initial release area on the north side of US Highway 82 could not defined due to safety factors involving the drill rig mast and existing overhead power lines.
- Visual observations made during this investigation indicate the presence of historical hydrocarbon impacts in the initial release area (S-1). A number of flow lines operated by multiple companies are located in this area. All these flow lines utilize the utility conduit running north/south beneath Highway 82.
- The upgradient/back ground soil samples collected for this investigation revealed high chlorides levels in the area south of US Highway 82. There are multiple flow lines and old drilling pits belonging to other companies in this area.
- At soil sample location S-9, chlorides were detected at 176 mg/kg at land surface in the flow path from this release. At 2-feet deep in this sample location, chloride levels were found to be 6,000 mg/kg. This may indicate evidence of historical releases from the flow lines running east/west along the south side of Highway 82.
- A hard rock barrier was encountered at 2-feet below land surface south of US Highway 82. A backhoe was not able to excavate below the rock barrier during the initial sampling activities.
- The recent hydrocarbon impacts from this release were visually observed to 2-feet deep at test pit sample locations S-1 and S-4 only.

## 5.0 **PROPOSED REMEDIAL ACTIONS**

- The initial release area located north of US Highway 82 at sample location S-1 will be excavated to depth of 4-feet below ground surface. A 20 mil liner will be installed into the excavated area and the excavation will be backfilled back to grade using new material transported from a local borrow pit.
- The impacted area located south of Highway 82 near the conduit will also be excavated 4-feet below ground surface and a 20 mil liner will be installed into the excavated area. The excavated area will be backfilled back to grade using new material transported from a local borrow pit.
- Due to public highway and worker safety concerns, Lime Rock Resources respectfully request that no remediation activities be required on the impacted area located on the right of way along the north side US Highway 82.
- The impacted soil from the flow path located south of US Highway 82 will be excavated to a depth of 2-feet deep.
- No post excavation confirmation sampling is requested in this remediation plan because of the confirmed background presence of high levels of historic chlorides and multiple operators and flow lines in the area.
- A final report documenting all remedial actions will be provided to the NMOCD Artesia Office with Form C-141.

# SITE PLAN

**APPENDIX I** 

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# LAB REPORTS



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

Received:	06/14/2011	Sampling Date:	06/03/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	MARATHON RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SEC. 26-T17S-R28E		

## Sample ID: S-1 0' (H101239-01)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	06/16/2011	ND	448	112	400	3.51	

#### Sample ID: S-1 2' (H101239-02)

Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						`
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	06/16/2011	ND	448	112	400	3.51	

#### Sample ID: S-1 4' (H101239-03)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	06/16/2011	ND	448	112	400	3.51	
Sample ID: S-1 6' (H101	L239-04)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	06/16/2011	ND	448	112	400	3.51	

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/14/2011	Sampling Date:	06/03/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	MARATHON RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SEC. 26-T17S-R28E		

## Sample ID: S-1 8' (H101239-05)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM		····				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	06/16/2011	ND	448	112	400	3.51	

## Sample ID: S-1 10' (H101239-06)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	06/16/2011	ND	448	112	400	3.51	

### Sample ID: S-2 0' (H101239-07)

Chloride, SM4500Cl-B mg/kg		/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	06/16/2011	ND	448	112	400	3.51	

## Sample ID: S-2 2' (H101239-08)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	06/16/2011	ND	448	112	400	3.51	

### Sample ID: S-2 4' (H101239-09)

Chloride, SM4500CI-B mg/kg			Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	06/16/2011	ND	448	112	400	3.51	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/14/2011	Sampling Date:	06/03/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	MARATHON RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SEC. 26-T17S-R28E		

### Sample ID: S-2 6' (H101239-10)

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/16/2011	ND	448	112	400	3.51	

## Sample ID: S-2 8' (H101239-11)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: HM					
- Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/16/2011	ND	448	112	400	3.51	

#### Sample ID: S-3 0' (H101239-12)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	06/16/2011	ND	448	112	400	3.51	

## Sample ID: S-3 2' (H101239-13)

Chloride, SM4500Cl-B mg/kg			Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/16/2011	ND	448	112	400	3.51	

## Sample ID: S-3 4' (H101239-14)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/16/2011	ND	448	112	400	3.51	
· · · · · · · · · · · · · · · · · · ·				<u>.</u>					

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	06/14/2011	Sampling Date:	06/03/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	MARATHON RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SEC. 26-T17S-R28E		

### Sample ID: S-3 6' (H101239-15)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM			· · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/16/2011	ND	448	112	400	3.51	

## Sample ID: S-3 8' (H101239-16)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/17/2011	ND	448	112	400	3.51	

### Sample ID: S-4 0' (H101239-17)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	06/17/2011	ND	<b>`</b> 448	112	400	3.51	

### Sample ID: S-4 2' (H101239-18)

Chloride, SM4500Cl-B	OCI-B mg/kg			Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8600	16.0	06/17/2011	ND	448	112	400	3.51	

#### Sample ID: S-4 4' (H101239-19)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	06/17/2011	ND	448	112	400	3.51	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	06/14/2011	Sampling Date:	06/03/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	MARATHON RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SEC. 26-T17S-R28E		

## Sample ID: S-4 6' (H101239-20)

Chloride, SM4500Cl-B mg/kg			Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	06/17/2011	ND	448	112	400	3.51	

### Sample ID: S-4 8' (H101239-21)

Chloride, SM4500Cl-B	mg,	kg	Analyzed By: HM						<u>.</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	06/17/2011	ND	432	108	400	3.77	

### Sample ID: S-4 10' (H101239-22)

Chloride, SM4500Cl-B mg/kg		/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/17/2011	ND	432	108	400	3.77	

Sample ID: S-5 0' (H101	239-23)								
Chloride, SM4500Cl-B	Analyze	d By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	38400	16.0	06/17/2011	ND	432	108	400	3.77	

## Sample ID: S-5 2' (H101239-24)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	06/17/2011	ND	432	108	400	3.77	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/14/2011	Sampling Date:	06/06/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	MARATHON RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SEC. 26-T17S-R28E		

## Sample ID: S-6 0' (H101239-25)

Chloride, SM4500Cl-B	kg .	Analyzed By: HM			1				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	06/17/2011	ND	432	108	400	3.77	

## Sample ID: S-6 2' (H101239-26)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD ·	Qualifier
Chloride	3280	16.0	06/17/2011	ND	432	108	400	3.77	

#### Sample ID: S-7 0' (H101239-27)

Chloride, SM4500Cl-B mg/kg			Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	38800	16.0	06/17/2011	ND	432	108	400	3.77	

#### Sample ID: S-7 2' (H101239-28)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	06/17/2011	ND	432	108	400	3.77	

#### Sample ID: S-8 0' (H101239-29)

Chloride, SM4500Cl-B mg/kg		/kg	Analyzed By: HM		1				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	06/17/2011	ND	432	108	400	3.77	

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\*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/14/2011	Sampling Date:	06/06/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	MARATHON RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SEC. 26-T17S-R28E		

#### Sample ID: S-8 2' (H101239-30)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10200	16.0	06/17/2011	ND	432	108	400	3.77	

### Sample ID: S-9 0' (H101239-31)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/17/2011	ND	432	108	400	3.77	

#### Sample ID: S-9 2' (H101239-32)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	06/17/2011	ND	432	108	400	3.77	

## Sample ID: S-9 4' (H101239-33)

Chloride; SM4500Cl-B		mg/kg An		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS -	% Recovery	True Value QC	RPD	Qualifier
Chloride	7360	16.0	06/17/2011	ND	432	108	400	3.77	

### Sample ID: S-9 6' (H101239-34)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/17/2011	ND	432	108	400	3.77	

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/14/2011	Sampling Date:	06/06/2011	
Reported:	06/20/2011	Sampling Type:	Soil	
Project Name:	MARATHON RELEASE	Sampling Condition:	** (See Notes)	
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson	
Project Location:	SEC. 26-T17S-R28E			

#### Sample ID: S-9 8' (H101239-35)

Chloride, SM4500Cl-B		mg	/kg	Analyzed By: HM						
Analyte		Result	Reporting Limit	Analýzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	:	112	16.0	06/17/2011	ND	432	108	400	3.77	

### Sample ID: S-9 10' (H101239-36)

Chloride, SM4500CI-B	loride, SM4500Cl-B mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/17/2011	ND	432	108	400	3.77	

#### Sample ID: S-10 0' (H101239-37)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Anaiyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/17/2011	ND	432	108	400	3.77	

### Sample ID: S-10 2' (H101239-38)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/17/2011	ND	432	108	400	3.77	

## Sample ID: S-10 4' (H101239-39)

Chloride, SM4500Cl-B	'kg	Analyze	d By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/17/2011	ND	432	108	400	3.77	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/14/2011		Sampling Date:	06/06/2011
Reported:	06/20/2011		Sampling Type:	Soil
Project Name:	MARATHON RELEASE	•	Sampling Condition:	`** (See Notes)
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	SEC. 26-T17S-R28E			

## Sample ID: S-10 6' (H101239-40)

Chloride, SM4500Cl-B			mg	/kg	Analyze	d By: HM					
	Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride			16.0	16.0	06/17/2011	ND	432	108	400	3.77	
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Celey D. 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 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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Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager



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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim orising whether Vased in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause wholesever shall be deened waived unless made in writing and received by Cardinal vittin 30 days alter completion of the applicable

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

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim origing whethan based in cardinal or link. Stuff be linkited to the announ paid by the client for the analyzes. All claims including those for negligence and any other cause whatseever shall be deened whived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In me event shall Cardinal be liable for incidental or consequential durages, including when the invitient of whether unless of use, or less of profits incurred by client, its subsidiaries, writing and expressions with the applicable between the consequential durages, including writing interceptore, loss of use, or less of profits incurred by client, its subsidiaries, writing end expressions and or profits incurred by client. Its subsidiaries, articlate or subset of the profits meanser of services berraude to the Cardinal reparties of whether subs to days after services.

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Page 13 of 15



Page 14 of 15

#### 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: 400 W. Texas Ave. Company: City: Beresia State: NM Zip: 08210 Attn: Phone #: 575-441- 8254 Fax #: 575-746-8905 Address: Project Owner: Linde Plan C K.S. Project #: City: Marathan release Project Name: State: Zip: Project Location: Ces. 36-11195 3284 Α. Phone #: ~ medShellph -----Sampler Name: Fax #: .... FOR LAB USE ONLY MATRIX PRESERV. SAMPLING ..... (G)RAB OR (C)OMP. 5 GROUNDWATER CONTAINERS WASTEWATER Lab I.D. Sample I.D. ICE / COOL OTHER : ACID/BASE: 3 SLUDGE OTHER:  $\gamma$ 1-SOIL HIDI239 Ы TIME DATE 81 4 4:300 2 6 ネブ 101 C. 4 1 4 23  $\mathcal{O}^{i}$ 1 611 7-6 .2' 2 1. . 11 6 0 2 6  $\mathcal{O}'$ 21 6  $\mathcal{O}$ 21 2 3

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 882 (575) 393-2326 FAX (575) 393-247											-												
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Page 15 of 15



June 20, 2011		1
MIKE STUBBLEFIELD		
TALON LPE		
408 W. TEXAS AVE.		
ARTESIA, NM 88210	r	
	1	

**RE: MARATHON** 

Enclosed are the results of analyses for samples received by the laboratory on 06/14/11 16:00.

Cardinal Laboratories is accredited through Texas NELAP for:

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

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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Celez D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 5



June 20, 2011

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

**RE: MARATHON RELEASE** 

Enclosed are the results of analyses for samples received by the laboratory on 06/14/11 16:00.

Cardinal Laboratories is accredited through Texas NELAP for:

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

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/14/2011	Sampling Date:	06/09/2011	
Reported:	06/20/2011	Sampling Type:	Soil	
Project Name:	MARATHON	Sampling Condition:	Cool & Intact	1
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson	1
Project Location:	26-T17S-R28E			

### Sample ID: B-1 0' (H101234-01)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25600	16.0	06/16/2011	ND	448	112	400	0.00	

### Sample ID: B-1 1' (H101234-02)

Chloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	06/16/2011	ND	448	112	400	0.00	

### Sample ID: B-1 5' (H101234-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/16/2011	ND	448	112	400	0.00	

## Sample ID: B-1 10' (H101234-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/16/2011	ND	448	112	400	0.00	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/14/2011	Sampling Date:	06/09/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	MARATHON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	26-T17S-R28E		

#### Sample ID: S-4 0.5' (H101234-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7920	16.0	06/16/2011	ND	448	112	400	0.00	

## Sample ID: S-4 0.5' (H101234-06)

BTEX 8021B	mg/	kg	Anaiyze	d By: CMS	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/16/2011	ND	1.92	96.1	2.00	2.32	
Toluene*	0.752	0.200	06/16/2011	ND	2.04	102	2.00	1.57	
Ethylbenzene*	0.521	0.200	06/16/2011	ND	2.03	102	2.00	2.24	
Total Xylenes*	4.64	0.600	06/16/2011	ND	5.99	99.9	6.00	1.72	
Surrogate: 4-Bromofluorobenzene (PIL	zene (PIL 113 %		)						
ТРН 8015М	mg/	'kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/18/2011	ND	199	99.3	200	3.48	
DRO >C10-C28	53400	100	06/18/2011	ND	189	94.7	200	3.43	
Surrogate: 1-Chlorooctane	94.8	% 70-130	)						
Surrogate: 1-Chlorooctadecane	177	% 70-130	)						

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### \*=Accredited Analyte

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Celeg D. Kune

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

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

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

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#26



June 29, 2011

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

RE: MARATHON RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 06/27/11 11:30.

Cardinal Laboratories is accredited through Texas NELAP for:

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

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/27/2011	Sampling Date:	06/23/2011
Reported:	06/29/2011	Sampling Type:	Soil
Project Name:	MARATHON RELEASE	Sampling Condition:	** (See Notes)
Project Number:	701307.024.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 26-T17S-R28E		

## Sample ID: BG - 1 (H101322-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	06/28/2011	ND	448	112	400	3.64	

### Sample ID: BG - 2 (H101322-02)

Chloride, SM450	OCI-B	mg/	'kg	Analyze	d By: HM					
· Ana	lyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		41600	16.0	06/28/2011	ND	448	112	400	3.64	

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
′ <b>*</b> *	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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Celeg Di Keene

Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (505) 393-2326 EAX (505) 393-2476

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# **APPENDIX II**

# **INITIAL C-141 FORM**

## State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

# **Release Notification and Corrective Action**

		OPERATOR	🛛 Initial Report	🔲 Final Report
Name of Company Lime Rock Reson	irces	Contact Michael Barrett		
Address PO Box 2147 Roswe	IL, NM 88202-2147	Telephone No. 575-623-8424	1	
Facility Name Marathon Water Tran	sfer Line	Facility Type Produced Wa	ater Line	
Surface Owner C.O.G.?	Mineral Own	ler State	Lease No.	

				LOCA				
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	C

Jnit Letter   Sect	ion Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
W 1/4 26	17 S	28 E	330'	FSL	1815'	FWL	Eddy

Latitude\_\_\_\_\_Longitude\_

## NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 190 bbls	Volume Re	covered 130 bbls					
Source of Release Hole in water line	Date and Hour of Occurrence		our of Discovery					
	5/24/11	5/24/11						
Was Immediate Notice Given?	If YES, To Whom?							
🛛 Yes 🗌 No 🔲 Not Required	5/25/11 OCD Emergency Extension	n						
	5/26/11 Mike Bratcher	······						
By Whom? Michael Barrett	Date and Hour 5/25/11							
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.							
🗌 Yes 🖾 No	N/A							
If a Watercourse was Impacted, Describe Fully.*	J							
N/A								
Describe Cause of Problem and Remedial Action Taken.*								
Hole in 2" steel water line. Isolated line, clamped hole. P/U standing fluid								
Describe Area Affected and Cleanup Action Taken.*								
Hot & dry. Leak is @ road crossing @ CR 209 & US 82. Area is 500 + /- long & averages 3' wide. Preparing work & remediation plan. Will sample								
5/31/11.								
I have be entitied that the information given shows in the and complete to the	a hast of my longy ladge and under	and the set services						
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.			apriate with any outer					
	OIL CONSERV	ATION I	IVISION					
Signature:								
	Approved by District Supervisor:							
Printed Name: Michael Barrett								
Title: Production Supervisor	Approval Date:	Expiration D	ate:					
	•							
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval:		Attached 🕅					
		(						
Date: 5/27/11 Phone: 575-623-8424								

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\* Attach Additional Sheets If Necessary