



Layla 27 SWD #1

Sec 27, T23S, R28E,

API # 30-015-22638

Corrective Action Plan

Release Date: March 27, 2016

May 18, 2016

Prepared by:

Zack Thomas

Environmental Representative

Mewbourne Oil Company

701 S. Cecil

Hobbs, NM 88240

Mike Bratcher
Environmental Specialist, District 2
Oil Conservation Division, EMNRD
E-Mail: Mike.Bratcher@state.nm.us

RE: Layla 27 SWD #1 Remediation Work Plan

Mike,

The site is located southeast of Loving NM, in Eddy County. The leak site resulted from a produced water leak caused by a flange failure on the inlet side of an injection pump. A C-141 was submitted to the NMOCD on March 30, 2016.

Site Assessment

On March 30, 2016, four surface and BGS (below ground surface) sample points of the leak area were obtained. Each sample was tested for chloride levels. With exception to Sample point 4, which cleaned up at 2 feet bgs, the first round of sampling did not fully delineate the site for SP1, SP2, and SP3. On April 5, 2016 a second round of samples were obtained. Those samples are also attached. After a number of field sampling (field samples also attached), we achieved full delineation for SP1 at 12' bgs, SP2 and SP3 at 15' bgs.

Mewbourne has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 129 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated. Ground water study attached.

Conclusion

After careful review Mewbourne would like to propose the following:

Excavate entire pad area and stockpile clean material, excluding inside tank or separation berms on ours' or Chevrons side (green highlighted areas), to 2'bgs

and install 20 mil poly liner to entire area including leak area. In the areas of SP1, SP2, SP3, and SP4 (blue highlighted area) excavate the top 1' bgs and haul to disposal. After top foot is hauled off we propose to excavate another foot, install liner (red highlighted area), and then blend contaminated leak area material with clean caliche then backfill. The poly liner along with berms around the pad will prevent any further migration of chlorides both above and below liner. Installing liner to entire pad will prevent any further pollution at this site.

Please feel free to contact me with any questions concerning this remediation closure request.

Sincerely,

A handwritten signature in cursive script, appearing to read "Z. Thomas".

Zack Thomas
Environmental Representative
Mewbourne Oil Company
701 S. Cecil
Hobbs, NM 88240
Office: (575) 393-5905
Mobile: (575) 602-2188
Fax: (575) 393-7259
Email: zthomas@mewbourne.com



Layla 27 SWD #1

04/15/2016

Blade Services was on site to sample over the spill area. Field samples will be obtained to determine Chloride content.

Sample Points	Field Chlorides
SP #1 1'	1,850
SP #1 2'	2000
SP #1 3'	2300
SP #1 9'	650
SP #1 10'	500
SP #1 12'	250

Sample Points	Field Chlorides
SP #2 4'	1,700
SP #2 5'	1,000
SP #2 6'	1,100
SP #2 8'	800
SP #2 10'	600
SP #2 12'	500
SP #2 15'	250

Sample Points	Field Chlorides
SP #3 4'	2,050
SP #3 5'	900
SP #3 6'	500
SP #3 9'	800
SP #3 10'	625
SP #3 12'	550
SP #3 15'	100

After each sample point it is determined that the vertical extent had been determined between 12'-15' below grade surface.



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

April 04, 2016

ZACK THOMAS

MEWBOURNE OIL COMPANY

P. O. BOX 5270

HOBBS, NM 88240

RE: LAYLA 27 SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 03/30/16 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

MEWBOURNE OIL COMPANY
ZACK THOMAS
P. O. BOX 5270
HOBBS NM, 88240
Fax To: (575) 937-6252

Received:	03/30/2016	Sampling Date:	03/30/2016
Reported:	04/04/2016	Sampling Type:	Soil
Project Name:	LAYLA 27 SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H600673-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8480	16.0	03/31/2016	ND	432	108	400	3.77	

Sample ID: SP 1 @ 1' (H600673-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	03/31/2016	ND	432	108	400	3.77	

Sample ID: SP 2 @ SURFACE (H600673-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	03/31/2016	ND	432	108	400	3.77	

Sample ID: SP 2 @ 1' (H600673-04)

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	03/31/2016	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 MEWBOURNE OIL COMPANY
 ZACK THOMAS
 P. O. BOX 5270
 HOBBS NM, 88240
 Fax To: (575) 937-6252

 Received: 03/30/2016
 Reported: 04/04/2016
 Project Name: LAYLA 27 SWD #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/30/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H600673-05)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4300	16.0	03/31/2016	ND	432	108	400	3.77	

Sample ID: SP 3 @ 1' (H600673-06)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	03/31/2016	ND	432	108	400	3.77	

Sample ID: SP4 @ SURFACE (H600673-07)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	03/31/2016	ND	432	108	400	3.77	

Sample ID: SP 4 @ 1' (H600673-08)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	03/31/2016	ND	432	108	400	3.77	

Sample ID: SP 4 @ 2' (H600673-09)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/31/2016	ND	432	108	400	3.77	

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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

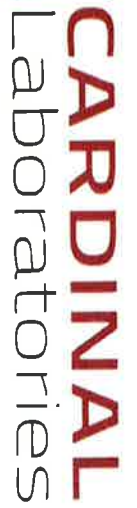
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Celey D. Keene, Lab Director/Quality Manager



Page 5 of 5

a: Membrane

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 11, 2016

ZACK THOMAS

MEWBOURNE OIL COMPANY

P. O. BOX 5270

HOBBS, NM 88240

RE: LAYLA 27 SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 04/06/16 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

MEWBOURNE OIL COMPANY
ZACK THOMAS
P. O. BOX 5270
HOBBS NM, 88240
Fax To: (575) 937-6252

Received: 04/06/2016
Reported: 04/11/2016
Project Name: LAYLA 27 SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 04/05/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 1 2' BGS (H600726-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	04/07/2016	ND	432	108	400	3.77	

Sample ID: SP 1 3' BGS (H600726-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	04/07/2016	ND	432	108	400	3.77	

Sample ID: SP 2 2' BGS (H600726-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	04/07/2016	ND	432	108	400	3.77	

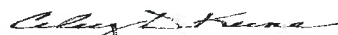
Sample ID: SP 2 3' BGS (H600726-04)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	04/07/2016	ND	432	108	400	3.77	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 MEWBOURNE OIL COMPANY
 ZACK THOMAS
 P. O. BOX 5270
 HOBBS NM, 88240
 Fax To: (575) 937-6252

 Received: 04/06/2016
 Reported: 04/11/2016
 Project Name: LAYLA 27 SWD #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 04/05/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 2 4' BGS (H600726-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	04/07/2016	ND	432	108	400	3.77	

Sample ID: SP 3 2' BGS (H600726-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	04/07/2016	ND	432	108	400	3.77	

Sample ID: SP 3 3' BGS (H600726-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	04/07/2016	ND	432	108	400	3.77	

Sample ID: SP 3 4' BGS (H600726-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	04/07/2016	ND	432	108	400	3.77		

Sample ID: BACKGROUND SURFACE (H600726-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/07/2016	ND	416	104	400	0.00		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

April 28, 2016

ZACK THOMAS

MEWBOURNE OIL COMPANY

P. O. BOX 5270

HOBBS, NM 88240

RE: LAYLA 27 SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 04/21/16 10:30.

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Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

MEWBOURNE OIL COMPANY
ZACK THOMAS
P. O. BOX 5270
HOBBS NM, 88240
Fax To: (575) 937-6252

Received: 04/21/2016
Reported: 04/28/2016
Project Name: LAYLA 27 SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 04/21/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP #1 - 12' BGS (H600869-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/26/2016	ND	416	104	400	3.92	

Sample ID: SP #2 - 15' BGS (H600869-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/26/2016	ND	416	104	400	3.92	

Sample ID: SP #3 - 15' BGS (H600869-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/26/2016	ND	416	104	400	3.92	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

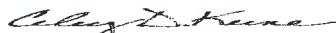
Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

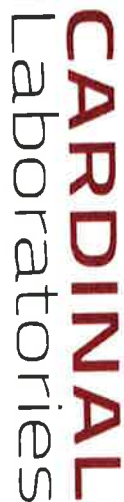
Cardinal Laboratories

*=Accredited Analyte

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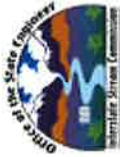
Celey D. Keene, Lab Director/Quality Manager



Page 4 of 4

a: Meuchowine

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2126



New Mexico Office of the State Engineer

Wells with Well Log Information

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

(in feet)

POD Number	POD			Source	q q q			Sec	Tws	Rng	X	Y	Start Date	Log File		Depth		License Number	
	Code	Subbasin	County		64	16	4							Finish Date	Well	Water	Driller		
C 00340	C	ED	Shallow	1	1	27	23S	28E	586483		3572022*	08/11/1952	08/13/1952	08/25/1952	117	18	HOWARD HEMLER	122	
C 00641	C	ED	Shallow	2	2	1	27	23S	28E	586986		3572126*	03/20/1955	03/22/1955	04/07/1955	115	40	JOLLY, J.R.	171
C 03432 POD1	C	ED	Shallow	1	2	2	27	23S	28E	587527		3572162	10/17/2009	10/25/2009	10/26/2009	115	75	MARK HAMMOND	1400
C 03732 POD1	C	ED	Shallow	1	3	3	27	23S	28E	586321		3570929	04/12/2014	04/13/2014	08/13/2014	171	10	MALEY, JASON	1690

Record Count: 4

PLSS Search:

Section(s): 27

Township: 23S

Range: 28E

*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.

4/18/16 1:36 PM

Page 1 of 1

WELLS WITH WELL LOG INFORMATION

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

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 30 2016

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

NAB1609149408

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Mewbourne Oil Company	Contact: Zack Thomas
Address: PO Box 5270 Hobbs NM 88241	Telephone No. 575-393-5905
Facility Name: Layla 27 SWD #1	Facility Type: SWD

Surface Owner: Private	Mineral Owner: Fee	API No. 30-015-22638
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LOCATION OF RELEASE

Unit Letter H	Section 27	Township 23S	Range 28E	Feet from the 1980'	North/South Line North	Feet from the 990'	East/West Line East	County Eddy
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Latitude 32.278038 Longitude -104.0698242

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Estimated 80 bbls.	Volume Recovered: PW (80 bbls)
Source of Release: Injection pump inlet	Date and Hour of Occurrence 3-27-16	Date and Hour of Discovery 3-27-16 10:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Flange failure on inlet of injection pump.

Describe Area Affected and Cleanup Action Taken.*

Affected area- Well pad surface East of tanks. Vacuum trucks were used to recover 80 bbls of produced water. Final remediation will be conducted in accordance with the NMOC's Guidelines for Remediation of Spills, Leaks and Releases.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC's 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 NMOC 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, NMOC's 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.

OIL CONSERVATION DIVISION

Signature: <i>Z. Thomas</i>	Approved by Environmental Specialist: <i>[Signature]</i>	
Printed Name: Zack Thomas	Approval Date: 3/31/16	Expiration Date: N/A
Title: Environmental Rep.	Conditions of Approval:	
E-mail Address: zthomas@mewbourne.com	Attached <input type="checkbox"/>	
Date: 3-30-16	Phone: 575-602-2188	

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 4/1/2016

2RP 3626