

**REVIEWED**

By Kristen Lynch at 12:47 pm, Oct 21, 2016

WORLD-WIDE ENVIRONMENTAL SPECIALISTS



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805  
E-MAIL: cbrunson@bbcinternational.com

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## **OXY – NHU 13-141 (7/27/16)**

### **REMEDIATION PLAN**

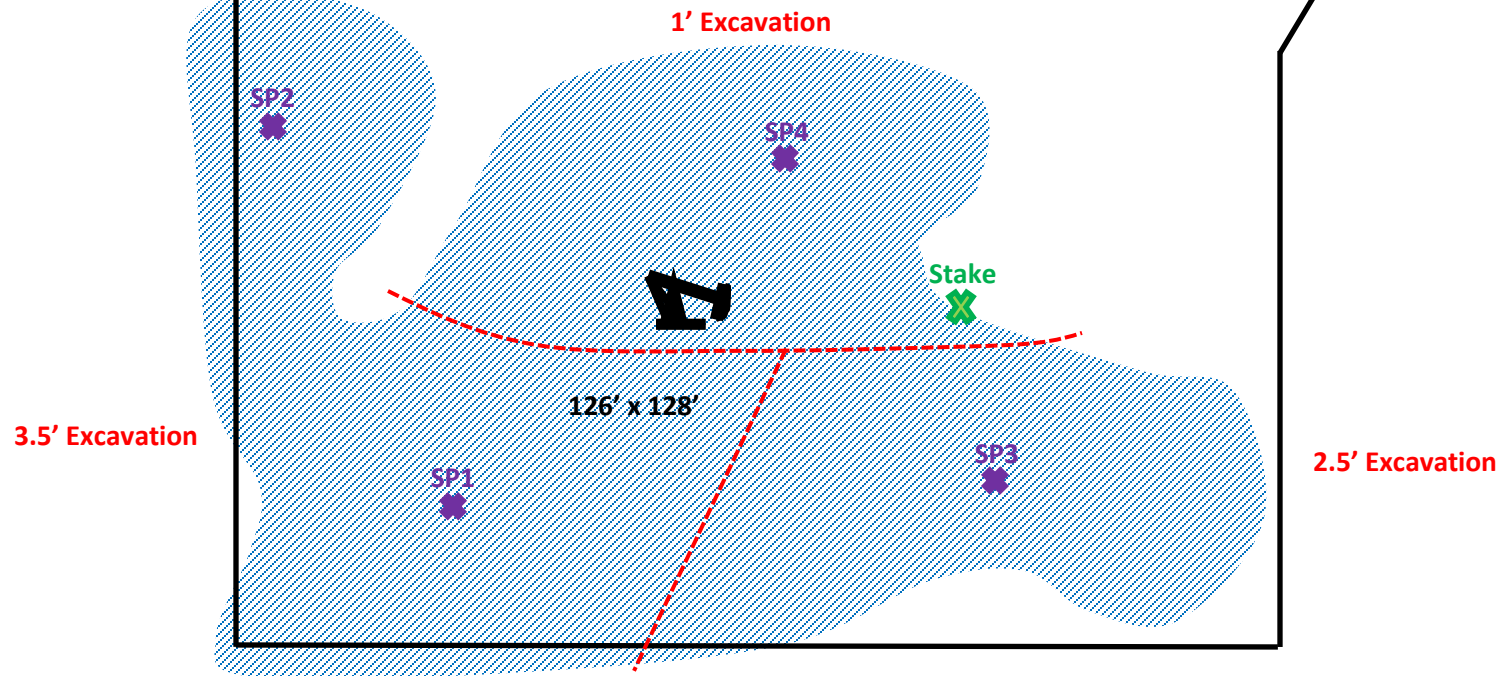
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OXY will excavate the spill area as depicted on the following site diagram. In the area near SP1 and SP2, the excavation will be 3.5 feet. In the area of SP3, the excavation will be 2.5 feet. In the area near SP4, the excavation will be 1 foot. The entire site will then be backfilled with clean soil.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.



Oxy  
NHU 13-141 (7/27/16)



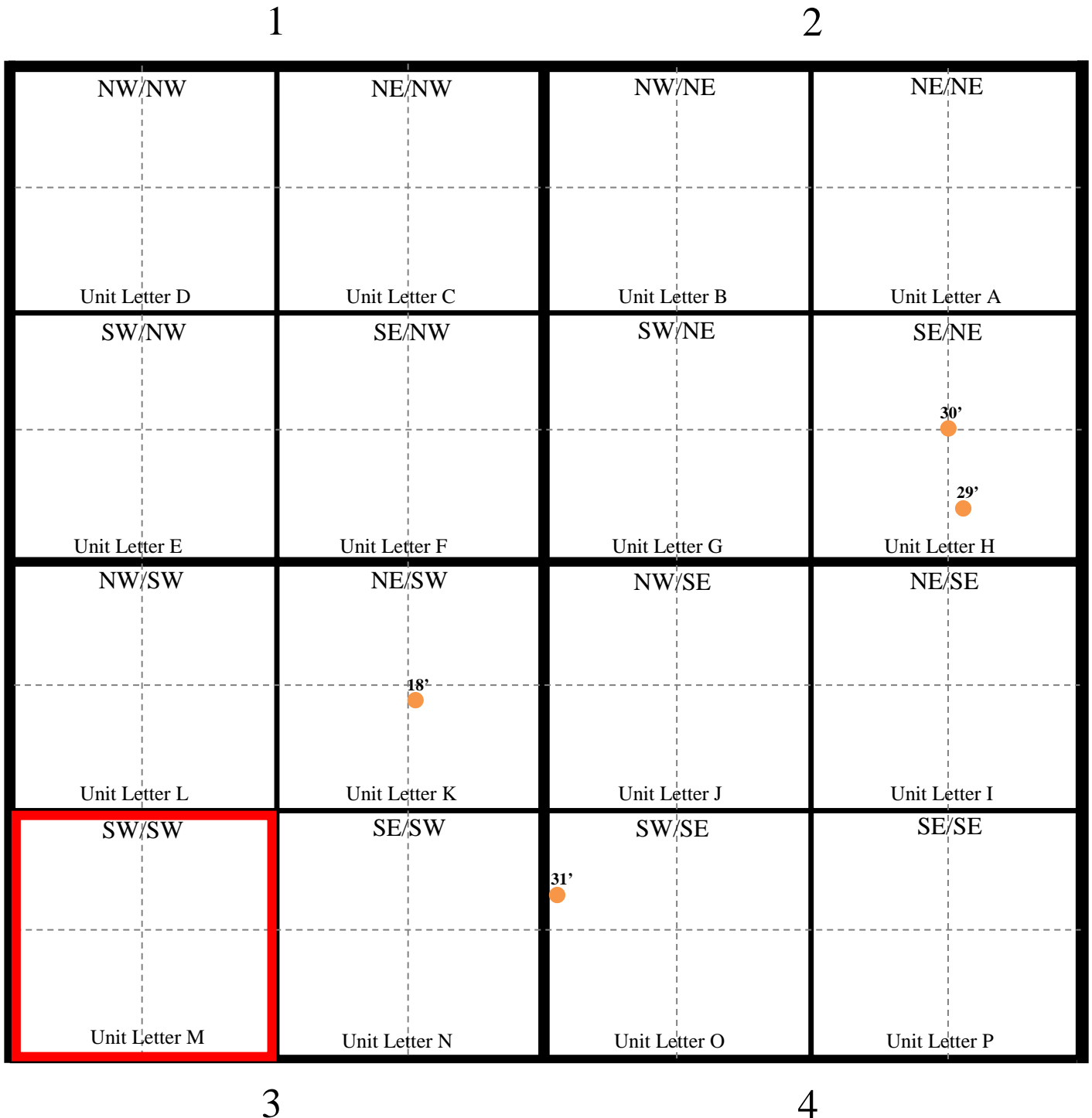
U/L M, Section 13, T18S, R37E  
Lea County, NM  
N 32.74204° W 103.21117°  
API# 30-025-05437

BBC International, Inc.	
Oxy NHU 13-141	
Date: 08/09/2016	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy,Wasson'16

## Oxy NHU 13-141

<b>County</b>	<b>Unit Letter</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>
Lea	M	13	18S	37E

Trend Map <50'



**Laboratory Analytical Results Summary**  
**NHU 13-141**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	8/17/16	8/17/16	8/17/16	8/17/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		2560	416	864	96

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	8/17/16	8/17/16	8/17/16	8/17/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		1300	352	880	112

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	8/18/16	8/18/16	8/18/16	8/18/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		688	1470	224	96

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	8/18/16	8/18/16	8/18/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		688	208	128



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

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August 25, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NHU 13-141

Enclosed are the results of analyses for samples received by the laboratory on 08/19/16 10:45.

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\\_accred\\_certif.html](http://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,

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:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 08/19/2016  
Reported: 08/25/2016  
Project Name: NHU 13-141  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/17/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H601870-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	08/19/2016	ND	448	112	400	3.64	

**Sample ID: SP 1 @ 2' (H601870-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/19/2016	ND	448	112	400	3.64	

**Sample ID: SP 1 @ 3' (H601870-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	08/19/2016	ND	448	112	400	3.64	

**Sample ID: SP 1 @ 4' (H601870-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/19/2016	ND	448	112	400	3.64	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 08/19/2016  
Reported: 08/25/2016  
Project Name: NHU 13-141  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/17/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H601870-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	08/19/2016	ND	448	112	400	3.64		

**Sample ID: SP 2 @ 2' (H601870-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 2 @ 3' (H601870-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	08/23/2016	ND	416	104	400	0.00		

**Sample ID: SP 2 @ 4' (H601870-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 3 @ 1' (H601870-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	08/23/2016	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 08/19/2016  
Reported: 08/25/2016  
Project Name: NHU 13-141  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/18/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2' (H601870-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	08/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 3 @ 3' (H601870-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 3 @ 4' (H601870-12)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 4 @ 1' (H601870-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/23/2016	ND	416	104	400	0.00	

**Sample ID: SP 4 @ 2' (H601870-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/23/2016	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 08/19/2016  
Reported: 08/25/2016  
Project Name: NHU 13-141  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/18/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H601870-15)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	08/23/2016	ND	416	104	400	0.00	

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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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**CARDINAL LABORATORIES**  
101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: *NH-13-141*

Project Location:

Sample Name: *24*

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

*H601870*

*SP101*

*SP201*

*SP301*

*SP401*

*SP501*

*SP601*

*SP701*

*SP801*

*SP901*

*SP1001*

*SP1101*

*SP1201*

*SP1301*

*SP1401*

*SP1501*

*SP1601*

*SP1701*

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

*6-17 8:50*

*6-18 9:55*

*6-18 9:55*

*6-18 9:55*

*6-18 9:55*

**BILL TO**

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

**ANALYSIS REQUEST**

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Relinquished By:

Date: *6-19-16*

Time:

Received By:

Date: *6-19-16*

Time: *10:45*

Delivered By: *Circle One*

Sampler - UPS - Bus - Other:

Phone Result:

Fax Result:

REMARKS:

Sample Condition

Cool

Intact

Checked BY:

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

*#75*





# ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

ALC0187D

11 SP303  
12 SP304  
13 SP401  
14 SP402  
15

(G)RAB OR (C)OMP.  
# CONTAINERS  
GROUNDWATER  
WASTEWATER  
SOIL  
OIL  
SLUDGE  
OTHER :  
ACID/BASE:  
ICE / COOL  
OTHER :

MATRIX

PRESERV

SAMPLING

Fax #:

Phone #:

State: Zip:

City:

Address:

Attn:

Company:

P.O. #:

### BILL TO

### ANALYSIS REQUEST

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 8-19-16

Received By:

Relinquished By:

Date: 8/19/16

Received By:

Delivered By (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition  
Cool ☒ Intact ☒  
Yes ☒ No ☒

CHECKED BY:  
(initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:  
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

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

#75

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

Form C-141  
Revised August 8, 2011

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

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Renegade Well Services	Contact: Matt Cavanna
Address: PO Box 840, Denver City, TX 79323	Telephone No. (806) 893-7025
Facility Name: NHU 13-141	Facility Type: Well

Surface Owner: Chris Seed	Mineral Owner	API No. 30-025-05437
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#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	13	18S	37E					Lea County, NM

Latitude N 32.74204° Longitude W 103.21117°

#### NATURE OF RELEASE

Type of Release Produced water	Volume of Release 60 bbls	Volume Recovered 50 bbls
Source of Release The flange on the well head was not properly tightened	Date and Hour of Occurrence 07/27/2016	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Maxey Brown- NMOCD	
By Whom? Steve Bishop, Oxy	Date and Hour 07/27/2016	
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.\*

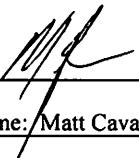
Describe Cause of Problem and Remedial Action Taken.\*

The flange on the well head was not properly tightened causing 60 bbls of produced water to spill. A vacuum truck recovered 50 bbls of water and the flange was tightened.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 126' x 128' both on and off location. Remediation will be completed in accordance with a remediation plan approved by NMOCD.

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.

Signature: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Matt Cavanna	Approved by Environmental Specialist:		
Title: Denver City Yard Manager	Approval Date:	Expiration Date:	
E-mail Address: mjccavanna@gmail.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8/10/16	Phone: (806) 896-7025		

\* Attach Additional Sheets If Necessary