

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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

**HOBBS OCD**  
**FEB 21 2014**  
**RECEIVED**  
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	Oxy USA Inc.	Contact	Austin Tramell
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 499-4919
Facility Name	Cotton Draw 36	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		Lease No.	30-025-08213

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	21	25S	32E	1980'	North	660'	West	Lea

Latitude N 32.11771° Longitude W 103.68654°

**NATURE OF RELEASE**

Type of Release	Produced Water	Volume of Release	100 bbls	Volume Recovered	80 bbls
Source of Release	Casing leak	Date and Hour of Occurrence	03/22/2013	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?	Geoffrey Leking		
By Whom?	CJ Summers	Date and Hour	03/22/2013 @1:00 pm		
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.\*

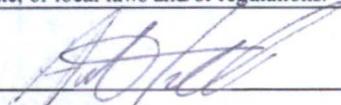
Describe Cause of Problem and Remedial Action Taken.\*

Uncontrolled release due to a hole in the casing. Plug was set, and well was PA'd.

Describe Area Affected and Cleanup Action Taken.\*

The affected area was approximately 80' x 30' on the northeast corner of the pad with part of the leak in the pasture. Remediation was completed in accordance with a remediation plan approved by Geoffrey Leking of NMOCD via email on 10/03/2013 and approved by Jennifer Van Curen of the BLM via email on 10/06/2013.

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:		<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	Austin Tramell	 Approved by District Supervisor <b>Environmental Specialist</b>	
Title:	HES Coordinator	Approval Date:	02/20/14
E-mail Address:	Austin_Tramell@oxy.com	Expiration Date:	
Date:	02/19/2014	Conditions of Approval:	-
Phone:	(575) 499-4919	Attached	<input type="checkbox"/>

\* Attach Additional Sheets If Necessary

IRP-9142

# Closure Report

HOBBS OCD  
FEB 21 2014  
RECEIVED

## Site Description

Site Name:	Cotton Draw 36
Company:	Oxy Permian Ltd.
Legal Description:	U/L E, Section 21, T25S, R32E
County:	Lea County, NM
GPS Coordinates:	N 32.11771° W 103.68654°

## Release Data

Date of Release:	03/22/2013	<i>approved</i>
Type of Release:	Produced water	<i>Geoffrey Leking</i>
Source of Release:	Casing leak	<i>Environmental Specialist</i>
Volume of Release:	100 bbls	<i>NMOCD-DIST 1</i>
Volume Recovered:	80 bbls	<i>02/21/14</i>

## Remediation Specifications

Remediation Parameters:	Excavate the area around SP2 to a depth of 3' or as practicable. The rest of the leak area will be scraped. Obtain confirmation bottom and sidewall samples. Backfill the site with clean soil.
Remediation Activities:	01/27/2014 to 02/06/2014

Plan Sent to OCD:	10/02/2013	Email from Cliff Brunson to Geoffrey Leking
OCD Approval of Plan:	10/03/2013	Email from Geoffrey Leking to Cliff Brunson
Plan Sent to BLM:	10/03/2013	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	10/06/2013	Email from J. Van Curen to Cliff Brunson

## Supporting Documentation

Initial C-141	BBC International was not given a copy
Final C-141	Signed 02/19/2014
Site Diagram	July 2013
Groundwater Plot	200'
TOPO Maps	July 2013
Lab Summary	07/13/2013 and 01/29/2014
Lab Analysis	07/13/2013 and 01/29/2014
Correspondence	Request and approval of remediation plan via email

## Request for Closure

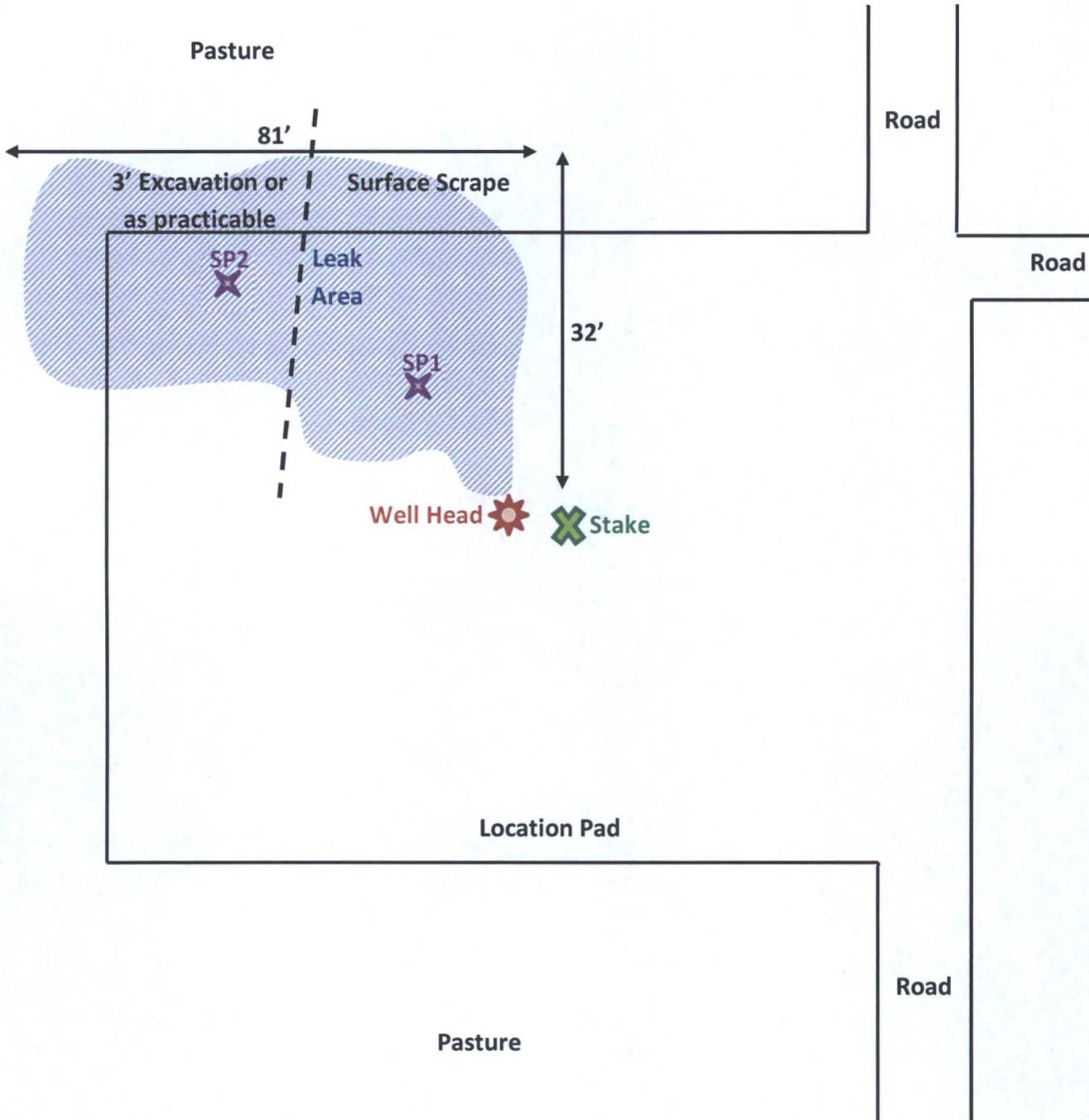
Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

02/19/2014



Oxy  
Cotton Draw 36



U/L E, Section 21, T25S, R32E  
1980' FNL and 660' FWL  
Lea County, NM  
N 32.11771° W 103.68654°  
API# 30-025-08213

<b>BBC International, Inc.</b>	
<b>Oxy</b> <b>Cotton Draw 36</b>	
Date: 07/16/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013



# Groundwater Plot

## Oxy Cotton Draw 36

County  
Lea

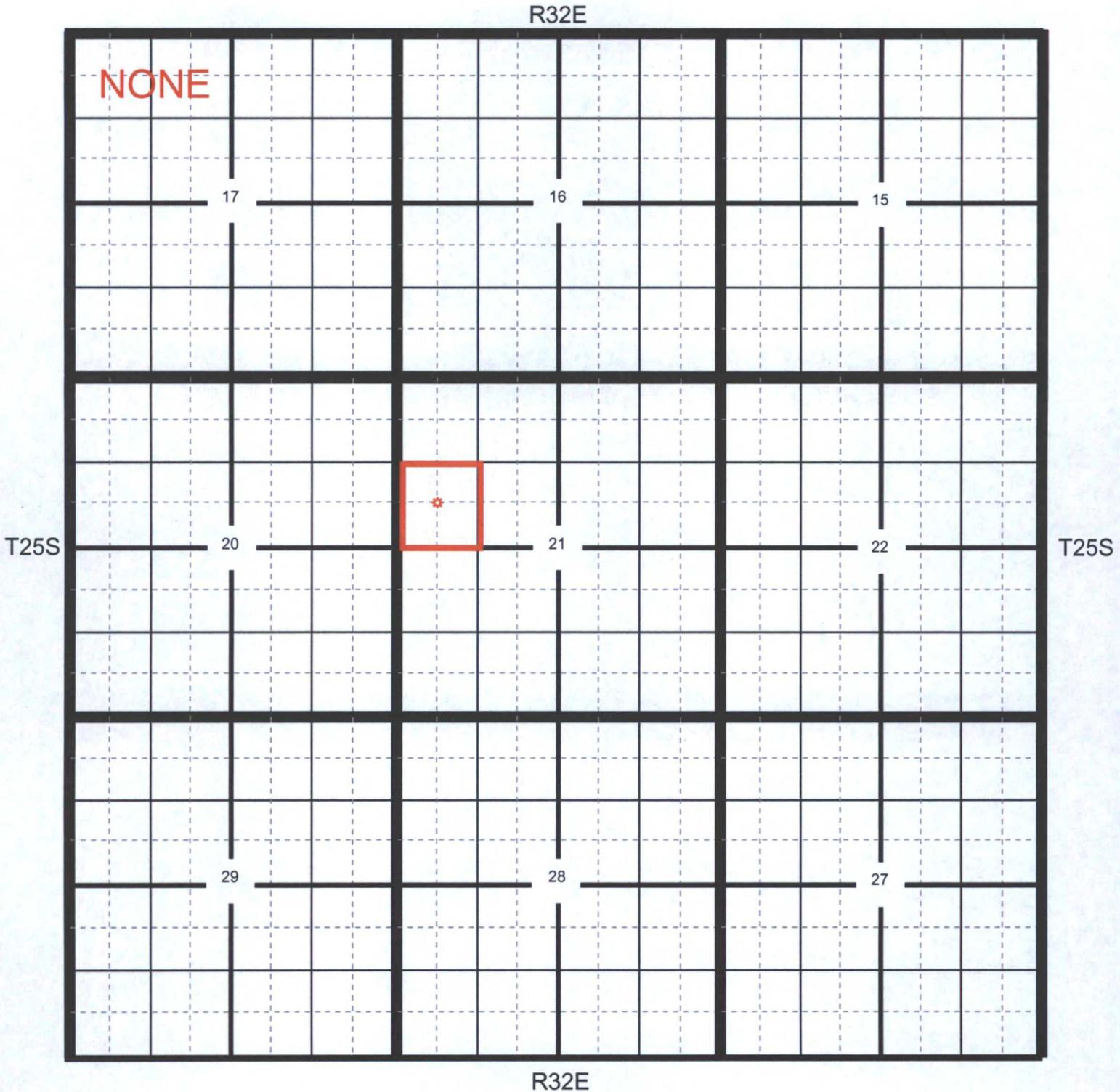
Unit Letter  
E

Section  
21

Township  
25S

Range  
32E

Trend Map 200'



🌟 Location

● OCD

● USGS

● SEO

● All Databases

# Oxy Cotton Draw 36

County: Lea      Unit Letter: E      Section: 21      Township: 25S      Range: 32E

Trend Map 200'

1

2

NW/NW <b>NONE</b>	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW 	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

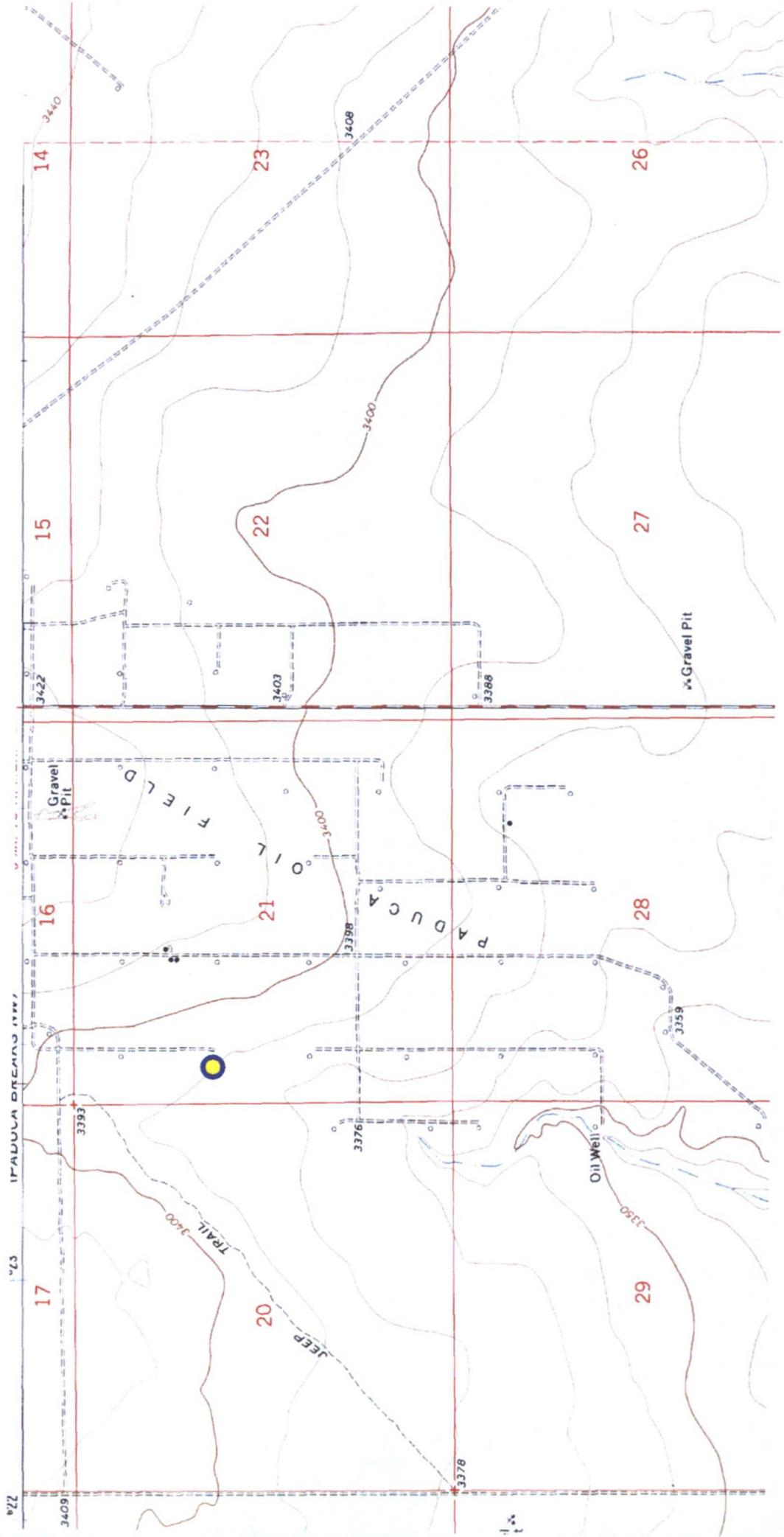
3

4



Oxy

# Cotton Draw 36



Laboratory Analytical Results Summary  
Cotton Draw #36

	Sample	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'
Analyte	Date	7/12/13	7/12/13	7/12/13
	Method	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B	640	<16	<16

	Sample	SP2 @ Surface	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'
Analyte	Date	7/12/13	7/12/13	7/12/13	7/12/13
	Method	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B	22200	4240	6130	<16

Laboratory Analytical Results Summary  
Cotton Draw 36

Analyte	Method	Sample Date	SP1 @ North wall 1/29/14 mg/Kg	SP2 @ West Wall 1/29/14 mg/Kg	SP3 @ South Wall 1/29/14 mg/Kg	SP4 @ East Wall 1/31/14 mg/Kg	SP5 @ 3' Floor (Blm) 1/29/14 mg/Kg
Chloride	SM4500Cl-B		16	112	96	80	160

July 22, 2013

Cliff Brunson  
BBC International, Inc.  
P.O. Box 805  
Hobbs, NM 88241

RE: COTTON DRAW #36

Enclosed are the results of analyses for samples received by the laboratory on 07/15/13 10:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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,



Caley 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: 07/15/2013  
 Reported: 07/22/2013  
 Project Name: COTTON DRAW #36  
 Project Number: NONE GIVEN  
 Project Location: C-1

 Sampling Date: 07/12/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H301648-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	07/18/2013	ND	416	104	400	3.92		

**Sample ID: SP 1 @ 1 FT (H301648-02)**

Chloride, SM4500CI-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	07/18/2013	ND	416	104	400	3.92		

**Sample ID: SP 1 @ 2 FT (H301648-03)**

Chloride, SM4500CI-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	07/18/2013	ND	416	104	400	3.92		

**Sample ID: SP 2 @ SURFACE (H301648-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	22200	16.0	07/18/2013	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: 07/15/2013  
 Reported: 07/22/2013  
 Project Name: COTTON DRAW #36  
 Project Number: NONE GIVEN  
 Project Location: C-1

 Sampling Date: 07/12/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1 FT (H301648-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	07/18/2013	ND	448	112	400	3.64		

**Sample ID: SP 2 @ 3 FT (H301648-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6130	16.0	07/18/2013	ND	448	112	400	3.64		

**Sample ID: SP 2 @ 5 FT (H301648-07)**

Chloride, SM4500CI-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	07/18/2013	ND	448	112	400	3.64		

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\*=Accredited Analyte

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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



February 07, 2014

Cliff Brunson  
BBC International, Inc.  
P.O. Box 805  
Hobbs, NM 88241

RE: COTTON DRAW #36

Enclosed are the results of analyses for samples received by the laboratory on 02/03/14 16:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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,



Caley 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: 02/03/2014  
 Reported: 02/07/2014  
 Project Name: COTTON DRAW #36  
 Project Number: NONE GIVEN  
 Project Location: C-1

 Sampling Date: 01/29/2014  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ N. WALL (H400325-01)**

Chloride, SM4500CI-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	02/07/2014	ND	416	104	400	3.92		

**Sample ID: SP 2 @ W. WALL (H400325-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/07/2014	ND	416	104	400	3.92		

**Sample ID: SP 3 @ S. WALL (H400325-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/07/2014	ND	416	104	400	3.92		

**Sample ID: SP 4 @ E. WALL (H400325-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/07/2014	ND	416	104	400	3.92		

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\* = 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: 02/03/2014  
 Reported: 02/07/2014  
 Project Name: COTTON DRAW #36  
 Project Number: NONE GIVEN  
 Project Location: C-1

 Sampling Date: 01/29/2014  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 3' FLOOR (H400325-05)**

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/07/2014	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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- 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**

**ANALYSIS REQUEST**

Company Name: <b>BBC International, Inc.</b>		P.O. #:	
Project Manager: <b>Cliff Brunson</b>		Company:	
Address: <b>P.O. Box 805</b>		Attn:	
City: <b>Hobbs</b>		State: <b>NM</b> Zip: <b>88241</b>	
Phone #: <b>575-397-6388</b>		Fax #: <b>575-397-0397</b>	
Project #:		Project Owner: <b>QXY</b>	
Project Name: <b>Cotton Draw 3 &amp; 6</b>		City:	
Project Location: <b>Old Road</b>		State:	
Sampler Name: <b>Water Drivels</b>		Phone #:	
FOR LAB USE ONLY		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV	SAMPLING	DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:				
H400325	1 SP1 @ N. Wall	G-1	1			X						1-24	1050	X
	2 SP2 @ W. Wall	G-1	1			X						1-24	1111	X
	3 SP3 @ S. Wall	G-1	1			X						1-24	1121	X
	4 SP4 @ E. Wall	G-1	1			X						1-24	1154	X
	5 SP5 @ 3' Elev.	G-1	1			X						1-24	1200	X

Relinquished By: <i>[Signature]</i>	Date: <b>1-31-14</b>	Received By: <i>[Signature]</i>	Date: <b>1-31-14</b>
Time: <b>4:03</b>		Time:	

Delivered By: (Circle One) Sampler - UPS - Bus - Other: <b>4.6</b>	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY (Initials) <i>[Signature]</i>
---	--	---

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

#54

## Kathy Purvis

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**From:** Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>  
**Sent:** Thursday, October 03, 2013 3:48 PM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY-Cotton Draw 36-Remediation Plan

Cliff

Per our telephone conversation of today, a discrepancy between our notes was displayed regarding the Cotton Draw 36. The remediation plan is approved as provided in the email below. Please provide all of the attachments from the email below in the closure report. Thank you.

Geoffrey Leking  
Environmental Specialist  
NMOCD-Hobbs  
1625 N. French Drive  
Hobbs, NM 88240  
Office: (575) 393-6161 Ext. 113  
Cell: (575) 399-2990  
email: [geoffreyr.leting@state.nm.us](mailto:geoffreyr.leting@state.nm.us)

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Wednesday, October 02, 2013 12:17 PM  
**To:** Leking, Geoffrey R, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-Cotton Draw 36-Remediation Plan

Geoff,

This message is to confirm our discussion on September 25, 2013 concerning the remediation plan for the Oxy Cotton Draw 36 site. I have attached the site diagram and lab data summary table that we used in our discussion. As mutually agreed, Oxy will excavate to a depth of 3 feet or as practicable in the area around SP2 as depicted on the attached drawing. The rest of the leak area will be scraped as shown on the diagram. The site will then be backfilled with clean soil.

If you would please reply back via e-mail with your concurrence to this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

\*\*\*\*\*

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**Kathy Purvis**

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**From:** Van Curen, Jennifer <jvancure@blm.gov>  
**Sent:** Sunday, October 06, 2013 8:06 PM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: OXY-Cotton Draw 36-Remediation Plan

Cliff,

You are good. Please get me some bottom and sidewall samples. Thanks

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220  
OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

On Thu, Oct 3, 2013 at 9:39 AM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Jennifer,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Geoffrey Leking of the NMOCD. OY will excavate to a depth of 3 feet or as practicable in the area around SP2 as depicted on the attached drawing. The rest of the leak area will be scraped as shown on the diagram. The site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

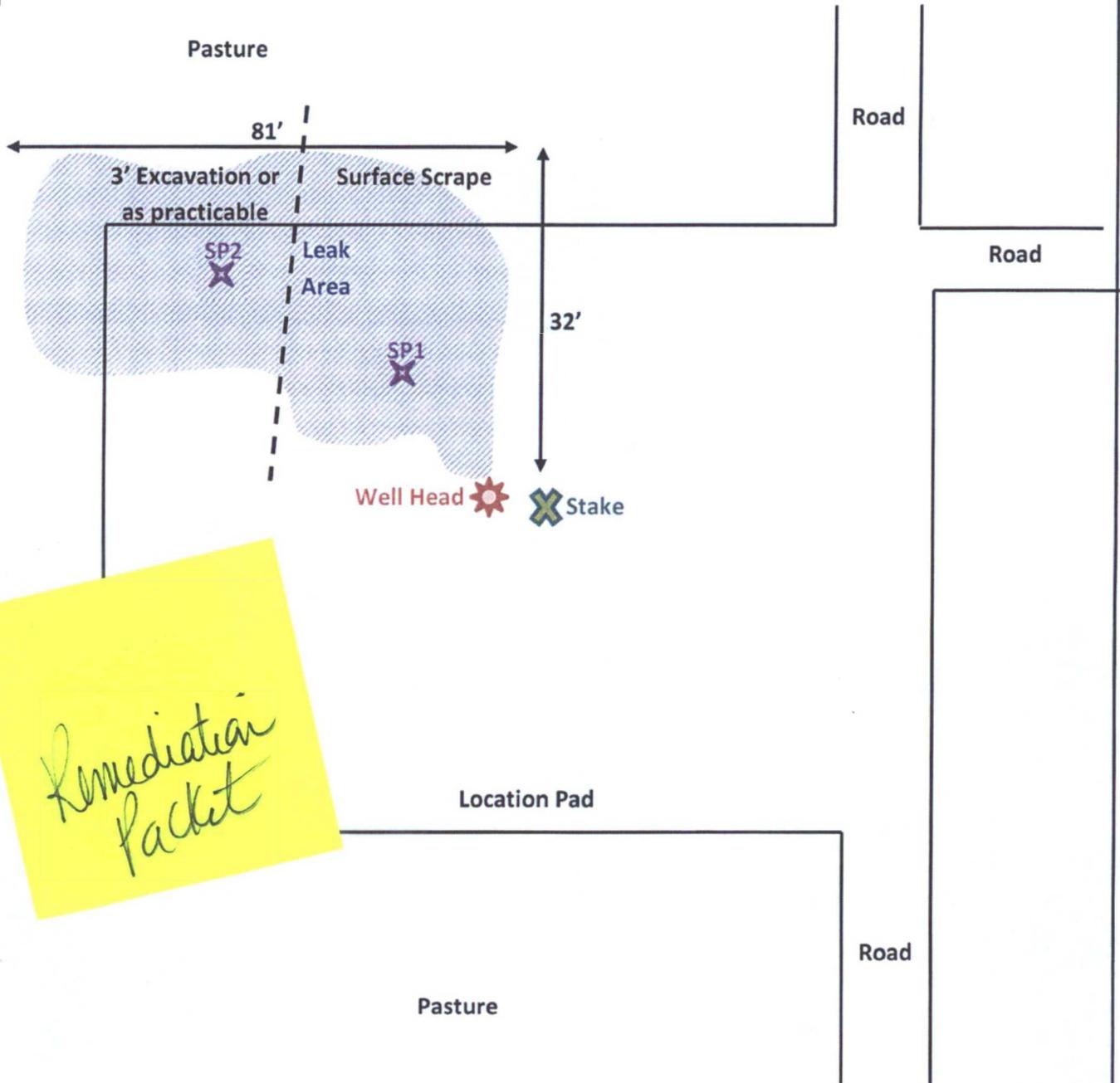
\*\*\*\*\*

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Oxy  
Cotton Draw 36



U/L E, Section 21, T25S, R32E  
1980' FNL and 660' FWL  
Lea County, NM  
N 32.11771° W 103.68654°  
API# 30-025-08213

BBC International, Inc.	
Oxy Cotton Draw 36	
Date: 07/16/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013



# Groundwater Plot

## Oxy Cotton Draw 36

County  
Lea

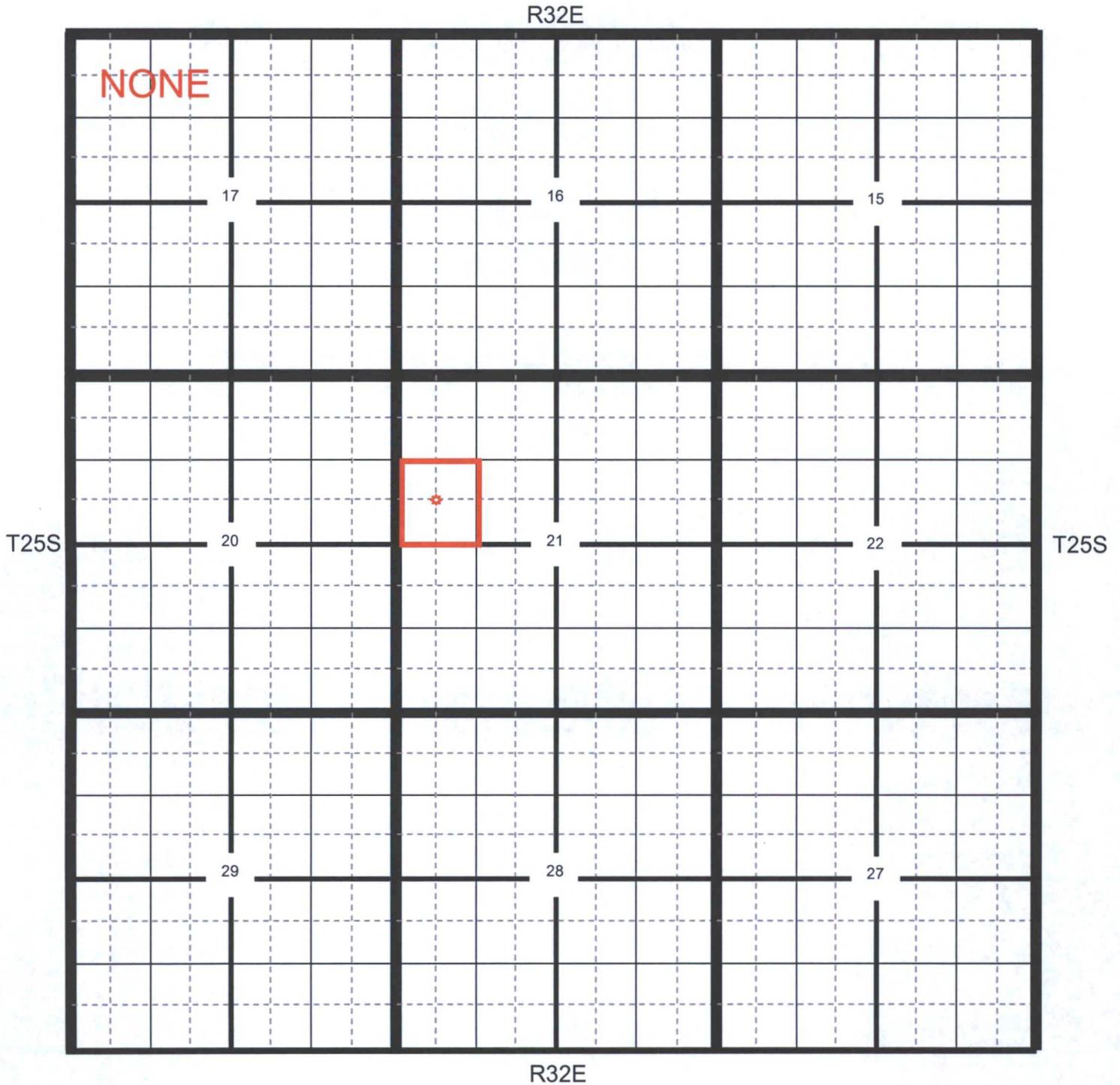
Unit Letter  
E

Section  
21

Township  
25S

Range  
32E

Trend Map 200'



🌟 Location

● OCD

● USGS

● SEO

● All Databases



Section Quarters

Oxy Cotton Draw 36

<b>County</b> Lea	<b>Unit Letter</b> E	<b>Section</b> 21	<b>Township</b> 25S	<b>Range</b> 32E
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Trend Map 200'

1

2

NW/NW <b>NONE</b>	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW 	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

Laboratory Analytical Results Summary  
Cotton Draw #36

	Sample	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'
Analyte	Date	7/12/13	7/12/13	7/12/13
Chloride	Method	mg/Kg	mg/Kg	mg/Kg
	SM4500Cl-B	640	<16	<16

	Sample	SP2 @ Surface	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'
Analyte	Date	7/12/13	7/12/13	7/12/13	7/12/13
Chloride	Method	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	SM4500Cl-B	22200	4240	6130	<16

July 22, 2013

Cliff Brunson  
BBC International, Inc.  
P.O. Box 805  
Hobbs, NM 88241

RE: COTTON DRAW #36

Enclosed are the results of analyses for samples received by the laboratory on 07/15/13 10:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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,



Caley 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: 07/15/2013  
 Reported: 07/22/2013  
 Project Name: COTTON DRAW #36  
 Project Number: NONE GIVEN  
 Project Location: C-1

 Sampling Date: 07/12/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H301648-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	07/18/2013	ND	416	104	400	3.92		

**Sample ID: SP 1 @ 1 FT (H301648-02)**

Chloride, SM4500CI-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	07/18/2013	ND	416	104	400	3.92		

**Sample ID: SP 1 @ 2 FT (H301648-03)**

Chloride, SM4500CI-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	07/18/2013	ND	416	104	400	3.92		

**Sample ID: SP 2 @ SURFACE (H301648-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	22200	16.0	07/18/2013	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: 07/15/2013  
 Reported: 07/22/2013  
 Project Name: COTTON DRAW #36  
 Project Number: NONE GIVEN  
 Project Location: C-1

 Sampling Date: 07/12/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1 FT (H301648-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	07/18/2013	ND	448	112	400	3.64		

**Sample ID: SP 2 @ 3 FT (H301648-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6130	16.0	07/18/2013	ND	448	112	400	3.64		

**Sample ID: SP 2 @ 5 FT (H301648-07)**

Chloride, SM4500CI-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	07/18/2013	ND	448	112	400	3.64		

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\*=Accredited Analyte

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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



**ARDINAL LABORATORIES**

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.		P.O. #:		BILL TO	
Project Manager: Cliff Brunson		Company:			
Address: P.O. Box 805		Attn:			
City: Hobbs		Address:			
Phone #: 575-397-6388		City:			
Fax #: 575-397-0397		State:			
Project #: 0811		Phone #:			
Project Name: Cottonwood 36		Fax #:			
Project Location: C-2		PRESERV		SAMPLING	
Sampler Name: Gary Ray		MATRIX			
FOR LAB USE ONLY		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER:			
		ACID/BASE:			
		ICE / COOL			
		OTHER:			
		DATE		TIME	
Lab I.D. H301048		(G)RAB OR (C)OMP.			
		# CONTAINERS			
1 SP2 @ surface		X		9-12-13 10:45	
2 SP2 @ 2ft		X		9-12-13 10:56	
3 SP2 @ 2ft		X		9-12-13 11:15	
4 SP2 @ surface		X		9-12-13 11:33	
5 SP2 @ 3ft		X		9-12-13 11:43	
6 SP2 @ 5ft		X		9-12-13 1:15	
7 SP2 @ 5ft		X		9-12-13 1:45	

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Relinquished By: [Signature] Date: 9/15/13 Received By: [Signature] Date: 9/15/13

Delivered By: (Circle One) Sampler - UPS - Bus - Other: -0.62

Sample Condition: Cool Intact Yes No Checked By: [Signature]

Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 #54