

Closure Report

RECEIVED

SEP 27 2013

NMOCD ARTESIA

2RP-1318

Site Description	
Site Name:	Cedar Canyon 28 Federal #4
Company:	Oxy Permian Ltd.
Legal Description:	U/L K, Section 28, T24S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.18629° W 103.99155°

Release Data	
Date of Release:	08/14/2012
Type of Release:	Produced Water
Source of Release:	Valve on suction line left open
Volume of Release:	80 bbls
Volume Recovered:	8 bbls

Remediation Specifications	
Remediation Parameters:	An initial response excavation to a depth of 1 foot was completed. Excavate an additional 1 foot in the areas covered by SP1, SP2, and SP3. Excavate an additional 2 feet in the area covered by SP4. Then, backfill the entire excavation with clean soil.
Remediation Activities:	08/23/2013 to 09/12/2013

Plan Sent to OCD:	01/21/2013	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	01/24/2013	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	03/11/2013	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	03/25/2013	Email from J. Van Curen to Cliff Brunson

Supporting Documentation	
Initial C-141	Signed 09/25/2012
Final C-141	Signed 09/24/2013
Site Diagram	August 2012
Groundwater Plot	75'
TOPO Maps	August 2012
Lab Summary	10/05/2012
Lab Analysis	10/05/2012
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.	09/26/2013

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

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 Permian Ltd.	Contact	CJ Summers
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	Cedar Canyon 28 Federal #4	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		Lease No.	NM 94651

LOCATION OF RELEASE

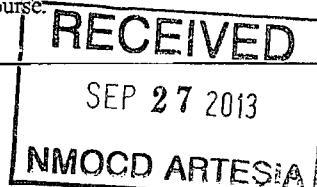
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	28	24S	29E	1980'	South	1950'	West	Eddy

Latitude N 32.18629° Longitude W 103.99155°

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	80 bbls	Volume Recovered	0 bbls
Source of Release	Valve on suction line left open	Date and Hour of Occurrence	08/14/2012	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?	Mike Bratcher- OCD; James Amos- BLM		
By Whom?	Chancey Summers	Date and Hour	08/14/2012 @ 12:58 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.*
The valve on a 1" steel suction line between the triplex pump and tank was left open which caused 80 bbls of water to spill onto the ground. 0 bbls of water were recovered. The valve was closed to prevent further leaking.

Describe Area Affected and Cleanup Action Taken.*
The area affected by the 80 bbls leak is approximately 40' x 100'. Remediation will be performed in accordance with an OCD and BLM approved remediation plan.

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: Chancey Summers	Approved by District Supervisor:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 9/25/12	Phone: (575) 397-8216		

* Attach Additional Sheets If Necessary

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1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
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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 Permian Ltd.	Contact	CJ Summers
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	Cedar Canyon 28 Federal #4	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	API# 30-015-29118

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	28	24S	29E	1980'	South	1950'	West	Eddy

Latitude N 32.18629° Longitude W 103.99155°

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	80 bbls	Volume Recovered	0 bbls
Source of Release	Valve on suction line left open	Date and Hour of Occurrence	08/14/2012	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?	Mike Bratcher- OCD; James Amos- BLM		
By Whom?	Chancey Summers	Date and Hour	08/14/2012 @ 12:58 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse			

RECEIVED

SEP 27 2013

NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The valve on a 1" steel suction line between the triplex pump and tank was left open which caused 80 bbls of water to spill onto the ground. 0 bbls of water were recovered. The valve was closed to prevent further leaking.

Describe Area Affected and Cleanup Action Taken.*

The area affected by the 80 bbls leak is approximately 40' x 100'. Remediation was completed in accordance with a remediation plan approved by Mike Bratcher of NMOCD via email on 01/24/2013 and approved by Jennifer Van Curen of the BLM via email on 03/25/2013.

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.

OIL CONSERVATION DIVISION

Signature:

Printed Name: Chancey Summers

Title: HES Specialist

E-mail Address: Chancey.Summers@oxy.com

Date: 9/24/13

Phone: (575) 397-8216

Approved by District Supervisor:

Approval Date:

Expiration Date:

Conditions of Approval:

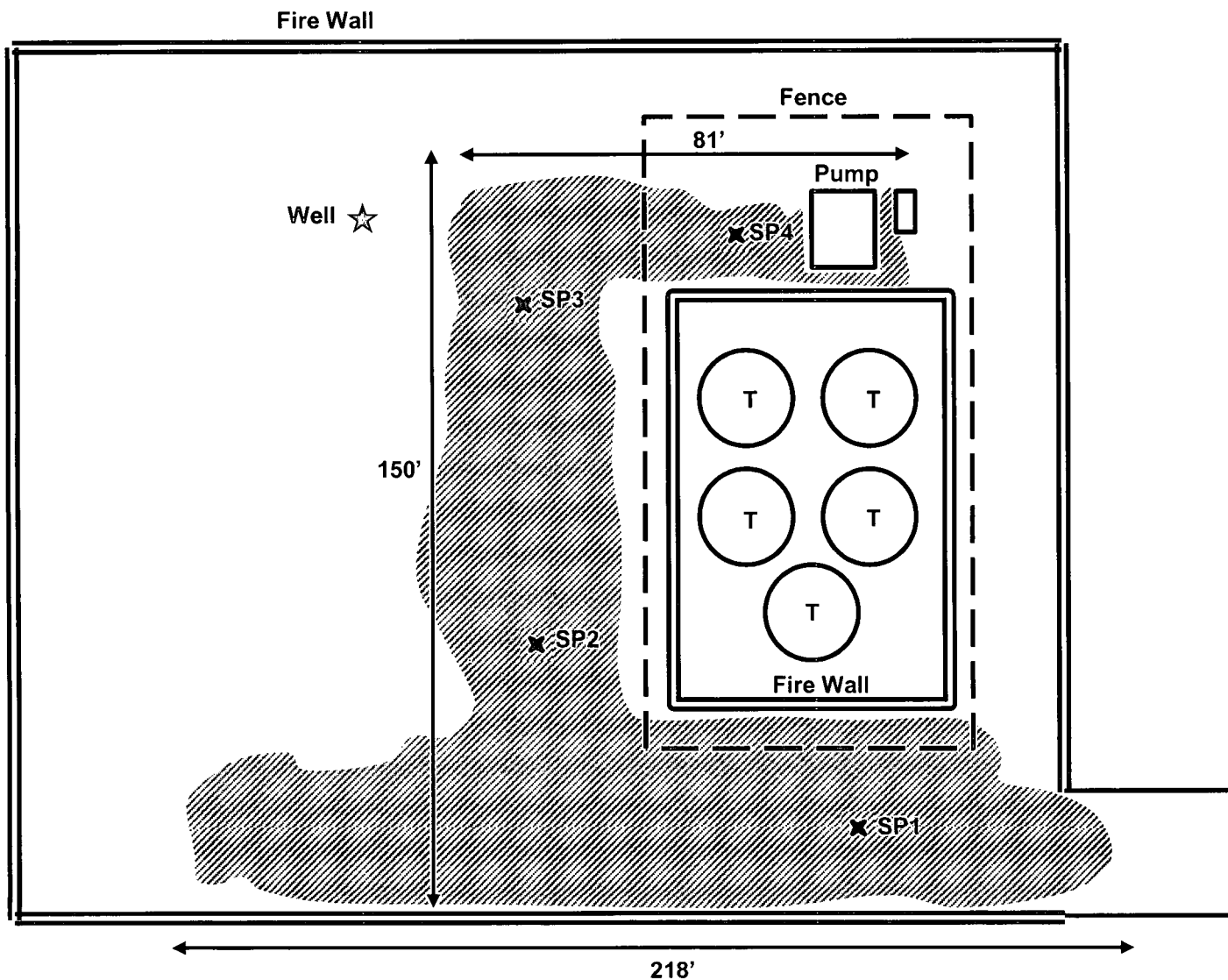
Attached ☐

* Attach Additional Sheets If Necessary



Oxy

Cedar Canyon 28 Federal #4



U/L K, Section 28, T24S, R29E
1980' FSL & 1980' FWL
Eddy County, NM
N 32.18629° W 103.99155°
Lease # NM94651

BBC International, Inc.

Oxy

Cedar Canyon 28 Federal #4

Date: 08/17/12

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2012

Groundwater Plot

Oxy Cedar Canyon 28 Federal #4

County
Eddy

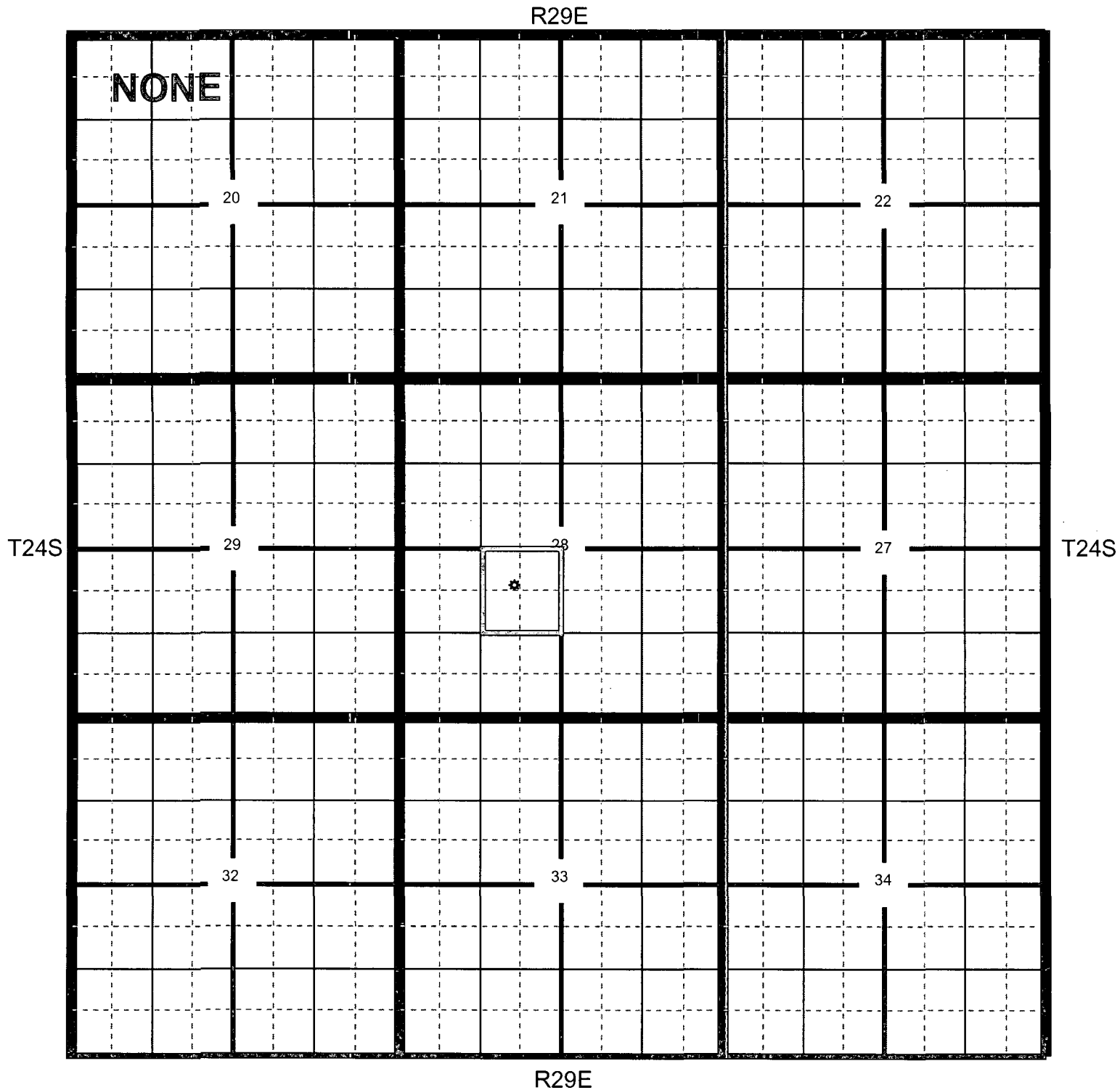
Unit Letter
K

Section
28

Township
24S

Range
29E

Trend Map 75'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases

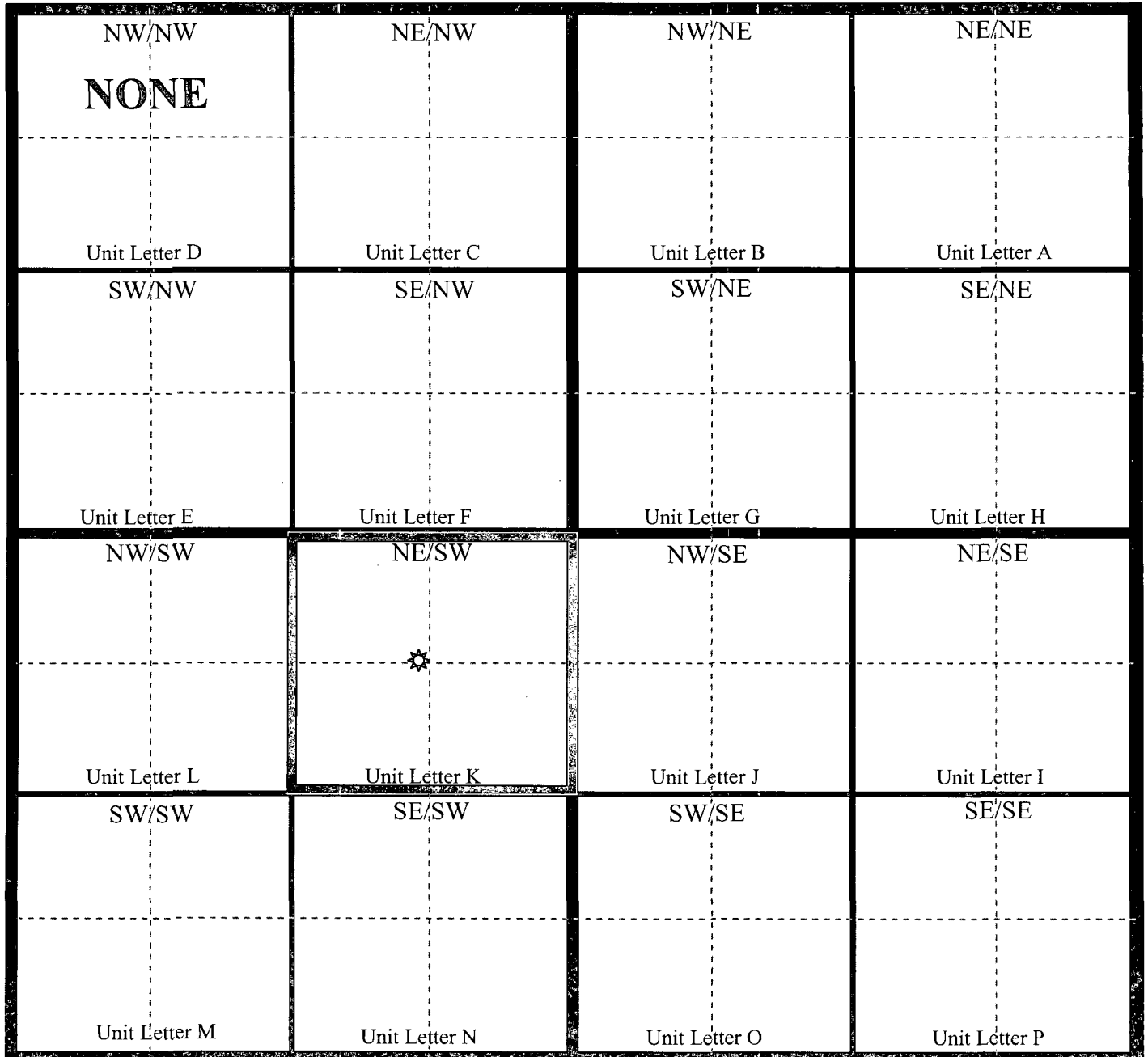
Oxy Cedar Canyon 28 Federal #4

County Eddy Unit Letter K Section 28 Township 24S Range 29E

Trend Map 75'

1

2

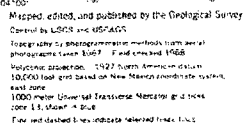


3

4

PIERCE CANYON QUADRANGLE
NEW MEXICO--EDDY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



CONTOUR INTERVAL: 10 FEET
DATUM IS MEAN SEA LEVEL

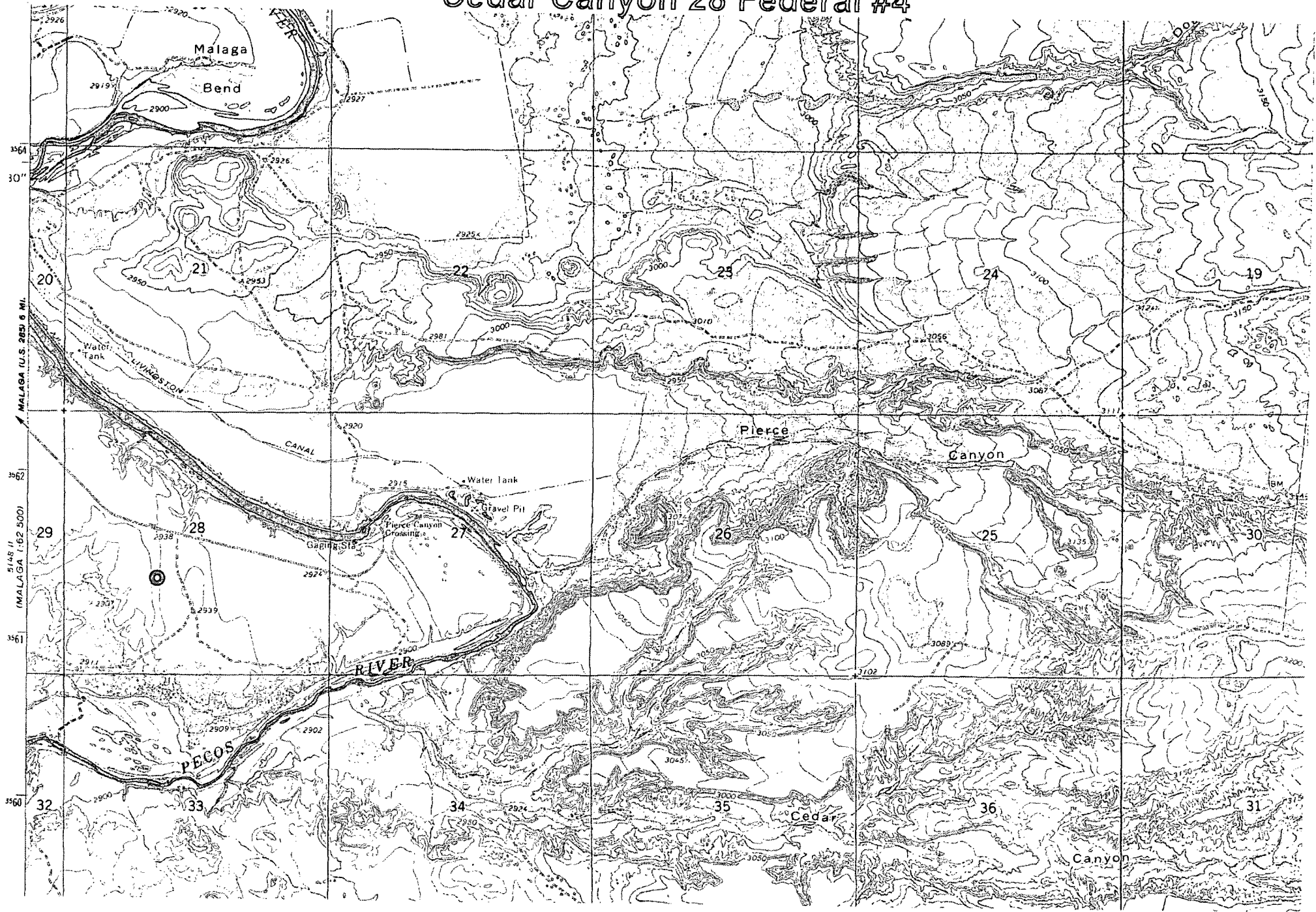
THESE MAPS COMPLY WITH NATIONAL MAP ACTING STANDARD
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

PIERCE CANYON, N. MEX.

AM 5249: 11 NOV—SEPTEN 1968

Oxy

Cedar Canyon 28 Federal #4



Laboratory Analytical Results Summary
OXY, Cedar Canyon 28 Federal #4 CTB

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 6'	SP1 @ 8'
Analyte	Method	Date	10/5/12	10/5/12	10/5/12	10/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		2320	592	480	32

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 6'	SP2 @ 8'
Analyte	Method	Date	10/5/12	10/5/12	10/5/12	10/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	N/A	N/A	N/A
Toluene	BTEX 8021B		<0.050	N/A	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	N/A	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	N/A	N/A	N/A
Chloride	SM4500CI-B		2520	608	448	16
GRO	TPH 8015M		<10.0	N/A	N/A	N/A
DRO	TPH 8015M		<10.0	N/A	N/A	N/A

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 6'	SP3 @ 8'	SP3 @ 10'
Analyte	Method	Date	10/5/12	10/5/12	10/5/12	10/5/12	10/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		4640	640	704	416	<16.0

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 6'	SP4 @ 8'	SP4 @ 10'
Analyte	Method	Date	10/5/12	10/5/12	10/5/12	10/5/12	10/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	N/A	N/A	N/A	N/A
Toluene	BTEX 8021B		<0.050	N/A	N/A	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	N/A	N/A	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	N/A	N/A	N/A	N/A
Chloride	SM4500CI-B		3600	2280	720	1010	32
GRO	TPH 8015M		<10.0	N/A	N/A	N/A	N/A
DRO	TPH 8015M		<10.0	N/A	N/A	N/A	N/A

October 17, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 28 FED#4 CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/11/12 16:50.

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.

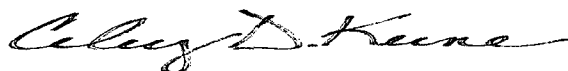
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 10/11/2012
 Reported: 10/17/2012
 Project Name: CEDAR CANYON 28 FED#4 CTB
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H202482-01)

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	10/16/2012	ND	400	100	400	7.69	

Sample ID: SP 1 @ 3' (H202482-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	10/16/2012	ND	400	100	400	7.69	

Sample ID: SP 1 @ 6' (H202482-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	10/16/2012	ND	400	100	400	7.69	

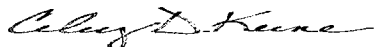
Sample ID: SP 1 @ 8' (H202482-04)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2012	ND	400	100	400	7.69	

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: (505) 397-0397

 Received: 10/11/2012
 Reported: 10/17/2012
 Project Name: CEDAR CANYON 28 FED#4 CTB
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H202482-05)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/16/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	10/16/2012	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47	

Surrogate: 1-Chlorooctane 69.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 67.7 % 63.6-154

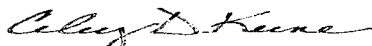
Sample ID: SP 2 @ 3' (H202482-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/16/2012	ND	400	100	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: (505) 397-0397

Received: 10/11/2012
Reported: 10/17/2012
Project Name: CEDAR CANYON 28 FED#4 CTB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 6' (H202482-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/16/2012	ND	400	100	400	3.92	

Sample ID: SP 2 @ 8' (H202482-08)

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	10/16/2012	ND	400	100	400	3.92	

Sample ID: SP 3 @ 1' (H202482-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	10/16/2012	ND	400	100	400	3.92		

Sample ID: SP 3 @ 3' (H202482-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	10/16/2012	ND	400	100	400	3.92		

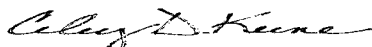
Sample ID: SP 3 @ 6' (H202482-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	10/16/2012	ND	400	100	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: (505) 397-0397

Received:	10/11/2012	Sampling Date:	10/05/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 8' (H202482-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	10/16/2012	ND	400	100	400	3.92	

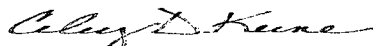
Sample ID: SP 3 @ 10' (H202482-13)

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	10/16/2012	ND	400	100	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: (505) 397-0397

Received: 10/11/2012
Reported: 10/17/2012
Project Name: CEDAR CANYON 28 FED#4 CTB
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H202482-14)

BTEX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/16/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 89.4-126

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	10/16/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47	

Surrogate: 1-Chlorooctane 84.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.4 % 63.6-154

Sample ID: SP 4 @ 3' (H202482-15)

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	10/16/2012	ND	400	100	400	3.92	

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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: (505) 397-0397

Received:	10/11/2012	Sampling Date:	10/05/2012
Reported:	10/17/2012	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 6' (H202482-16)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	10/16/2012	ND	400	100	400	3.92	

Sample ID: SP 4 @ 8' (H202482-17)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	10/16/2012	ND	400	100	400	3.92	

Sample ID: SP 4 @ 10' (H202482-18)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2012	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

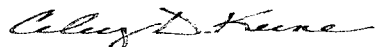
Notes and Definitions

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



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>CHLORIDE</div> <div>TPH</div> <div>BIEX</div> </div>																		
Address: P.O. Box 805				Company:																						
City: Hobbs State: NM Zip: 88241				Attn:																						
Phone #: 575-397-6388 Fax #: 575-397-0397				Address: SAME																						
Project #: Project Owner: OKU				City:																						
Project Name: Cedar Canyon 28 FEB #4CTB				State: Zip:																						
Project Location:				Phone #:																						
Sampler Name: ROGER FERNANDEZ				Fax #:																						
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	GIRABOR (COMP. # CONTAINERS)	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME													
1	SP1@1'	G			✓				✓			10.5	958	✓												
2	3'	G			✓				✓			10.5	1075	✓												
3	6'	G			✓				✓			10.5	1102	✓												
4	8'	G			✓				✓			10.5	1124	✓												
5	SP2@1'	G			✓				✓			10.5	1215	✓	✓	✓										
6	3'	G			✓				✓			10.5	1242	✓												
7	6'	G			✓				✓			10.5	118	✓												
8	8'	G			✓				✓			10.5	132	✓												
9	SP3@1'	G			✓				✓			10.5	149	✓												
10	3'	G			✓				✓			10.5	208	✓												

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Relinquished By:	Date:	Received By:	Phone Result:	Phone Result:	Add'l Phone #:
<i>Roger Fernandez</i>	10.11.12	<i>Joel Munoz</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished By:	Time:	Received By:	Fax Result:	Fax Result:	Add'l Fax #:
	4:50		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished By:	Date:	Received By:	REMARKS:		
Delivered By: (Circle One)	Sample Condition	CHECKED BY:			
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	(Initials)			
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<i>GM</i>			

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

#26

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Cliff Brunson				P.O. #:																							
Address: P.O. Box 805				Company:																							
City: Hobbs State: NM Zip: 88241				Attn:																							
Phone #: 575-397-6388 Fax #: 575-397-0397				Address: SAME																							
Project #:				City:																							
Project Name: CEDAR Canyon 28 FEB # 4CIB				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: Roger Hernandez				Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME													
H202448	SP306'	G	1			✓				✓			10.5	232	✓												
11	8'	G	1			✓				✓			10.5	248	✓												
12	10'	G	1			✓				✓			10.5	311	✓												
13	SP401'	G	1			✓				✓			10.5	328	✓	✓	✓										
14	3'	G	1			✓				✓			10.5	335	✓												
15	6'	G	1			✓				✓			10.5	345	✓												
16	8'	G	1			✓				✓			10.5	353	✓												
17	10'	G	1			✓				✓			10.5	400	✓												
18																											

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Relinquished By: Roger Hernandez	Date: 10/1/12	Received By: Jodi Henderson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 4:50		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (initials)		
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

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

2-6

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Thursday, January 24, 2013 4:17 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: Oxy-Cedar Canyon 28 Federal #4-Remediation Plan

Reference: OXY USA * Cedar Canyon 28 Fed 4 * 30-015-29118 * K-28-24s-29e * Eddy County, New Mexico
NMOCD Tracking Number: 2RP-1318 * Date of release: 8/14/12

Cliff,

Your proposal for remediation of the above referenced release is approved. The well site is situated on Federal surface and may require like approval by BLM.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Monday, January 21, 2013 6:06 PM
To: Bratcher, Mike, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Oxy-Cedar Canyon 28 Federal #4-Remediation Plan

Mike,

This e-mail is to confirm our discussion on January 14, 2013 concerning the remediation plan for the release that occurred at the Oxy Cedar Canyon 28 Federal #4. I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. As agreed, Oxy will excavate 2 feet in the areas covered by SP1, SP2, and SP3 and will excavate 3 feet in depth in the area covered by SP4. As discussed, an initial response to the spill was done immediately after the spill occurred and 1 foot of the impacted soil has already been removed. The depth referred to earlier in this e-mail is the total depths that will be removed not additional to what has already been removed. The site will then be backfilled with clean soil. The depth to groundwater in this area is approximately 75 feet.

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

Oxy and I thank you for your assistance in handling this matter.

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

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Kathy Purvis

From: Ken Swinney <kswinney@bbcinternational.com>
Sent: Tuesday, April 02, 2013 11:03 AM
To: 'Kathy Purvis'
Subject: FW: remediation plans on the Cedar canyon 28-4 and Amax 24 -8`

From: Van Curen, Jennifer [<mailto:jvancure@blm.gov>]
Sent: Monday, March 25, 2013 12:11 PM
To: Chancey Summers; kswinney@bbcinternational.com; Jennifer Gilkey; Brunson
Subject: Re: remediation plans on the Cedar canyon 28-4 and Amax 24 -8`

With the Amex plan, these are the minimal depths. There will need to be bottom and side samples for closure. I would think that the depths might need to be a foot on each area except the 7-9 which my thoughts are a foot. But if you get good results from the followup samples, we can back fill. It will be monitored that there are higher results at a lower depth from a past event, but if the OCD is not concerned with the lower depths, it is not a problem with the surface unless it prevents vegetation growth. If you have any questions please let me know.

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 Mon, Mar 11, 2013 at 1:31 PM, Van Curen, Jennifer <jvancure@blm.gov> wrote:
This is the first that I have heard of the Amax 24-8 spill. I will need to review it. The Cedar Canyon I visited. This site also has some salt impacted soils on the north and south of the old pit area. I would also like to see this area addressed simultaneously. The berm along that edge will need to be removed due to be heavily salt impacted. Can you get back to me on this please? Thanks

JENNIFER E VAN CUREN
ENVIRONMENTAL PROTECTION SPECIALIST
DOI-BLM-CARLSBAD FIELD OFFICE
320 E GREENE ST. CARLSBAD, NM 88220
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