

# Closure Report

## Site Description

Site Name:	Bravo Dome Leg 5 4RP-12
Company:	Oxy USA Inc.
Legal Description:	U/L G, Section 3, T18S, R34E
County:	Union County, NM
GPS Coordinates:	N 35.82557 W-103.30850

## Release Data

Date of Release:	2/15/17
Type of Release:	Produced water
Source of Release:	Internal corrosion leak of 8" steel pipeline
Volume of Release:	7 bbls
Volume Recovered:	0 bbls

## Remediation Specifications

Remediation Parameters:	Excavated the entire leak to a depth of 4 feet and placed an impermeable liner in the excavation. Confirmation sidewall samples were obtained to confirm a chloride concentration of less than 600 ppm. The site was then backfilled with clean soil.	
Remediation Activities:	5/9/19 to 5/17/19	
Plan Sent to OCD:	11/7/18	Email from Cliff Brunson to Randolph Bayliss
OCD Approval of Plan:	11/8/18	Email from Randolph Bayliss to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

## Supporting Documentation

Initial C-141	Provided in the delineation workplan
C-141, page 6	Signed and included
Site Diagram	November 2018
Pictures	Remediation pictures prior to and after backfill

## Request for Closure

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

Cliff Brunson, President, BBC International, Inc.





06/18/2019



## Oxy, Bravo Dome Leg 5

Leak date: 2/15/17  
Union County, NM  
AP# 30-059-20241  
4RP-12

### Legend

-  4 ft Excavation with a liner
-  Confirmation sample points
-  Drilling, soil borings
-  Spill area





Oxy, Bravo Dome Leg 5

Sample points, hand auger

SP1, N 35.82552 W-103.30847

SP2, N 35.82488 W-103.30859

Sample points, drilling

SB1, N 35.82549 W-103.30847

SB2, N 35.82517 W-103.30852

SB3, N 35.82488 W-103.30857

Confirmation sample points

C1, N 35.82559 W-103.30846

C2, N 35.82536 W-103.30849

C3, N 35.82520 W-103.30853

C4, N 35.82504 W-103.30855

C5, N 35.82491 W-103.30856

C6, N 35.82486 W-103.30859

C7, N 35.82490 W-103.30850

C8, N 35.82502 W-103.30851

C9, N 35.82514 W-103.30851

C10, N 35.82531 W-103.30849

C11, N 35.82546 W-103.30843

Laboratory Analytical Results Summary  
Bravo Dome Leg 5

		Sample ID	C1
Analyte	Method	Date	5/10/19
			mg/kg
Chloride	SM4500Cl-B		16

		Sample ID	C2
Analyte	Method	Date	5/10/19
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	C3
Analyte	Method	Date	5/10/19
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	C4
Analyte	Method	Date	5/10/19
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	C5
Analyte	Method	Date	5/10/19
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	C6
Analyte	Method	Date	5/10/19
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	C7
Analyte	Method	Date	5/10/19
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	C8
Analyte	Method	Date	5/10/19
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	C9
Analyte	Method	Date	5/10/19
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	C10
Analyte	Method	Date	5/10/19
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	C11
Analyte	Method	Date	5/10/19
			mg/kg
Chloride	SM4500Cl-B		<16.0











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

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May 16, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BRAVO DOME LEG #5

Enclosed are the results of analyses for samples received by the laboratory on 05/15/19 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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





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**Analytical Results For:**

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

Received:	05/15/2019	Sampling Date:	05/10/2019
Reported:	05/16/2019	Sampling Type:	Soil
Project Name:	BRAVO DOME LEG #5	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- UNION CO NM		

**Sample ID: C 1 (H901776-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/16/2019	ND	400	100	400	0.00	

**Sample ID: C 2 (H901776-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/16/2019	ND	400	100	400	0.00	

**Sample ID: C 3 (H901776-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/16/2019	ND	400	100	400	0.00	

**Sample ID: C 4 (H901776-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/16/2019	ND	400	100	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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 Fax To: (575) 397-0397

Received:	05/15/2019	Sampling Date:	05/10/2019
Reported:	05/16/2019	Sampling Type:	Soil
Project Name:	BRAVO DOME LEG #5	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- UNION CO NM		

**Sample ID: C 5 (H901776-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/16/2019	ND	400	100	400	0.00		

**Sample ID: C 6 (H901776-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/16/2019	ND	400	100	400	0.00	

**Sample ID: C 7 (H901776-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/16/2019	ND	400	100	400	0.00		

**Sample ID: C 8 (H901776-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/16/2019	ND	400	100	400	0.00	

**Sample ID: C 9 (H901776-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/16/2019	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/15/2019	Sampling Date:	05/10/2019
Reported:	05/16/2019	Sampling Type:	Soil
Project Name:	BRAVO DOME LEG #5	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- UNION CO NM		

**Sample ID: C 10 (H901776-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/16/2019	ND	400	100	400	0.00		

**Sample ID: C 11 (H901776-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/16/2019	ND	400	100	400	0.00		

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### 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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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

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Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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



# ORDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



Form C-141

Page 6

State of New Mexico  
Oil Conservation Division

Incident ID	NRAB1704850616
District RP	4RP-12
Facility ID	
Application ID	


## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator  
Signature:  Date: 6-18-19  
email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: Jocelyn Harimon Date: 04/06/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 04/06/2023  
Printed Name: Jocelyn Harimon Title: Environmental Specialist

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 194147

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 194147
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	4/6/2023