

# Closure Report

1RP-4620

## Site Description

Site Name:	BF Harrison B 16 CTB
Company:	Chevron, Midstream
Legal Description:	U/L D, Section 09, T23S, R37E
County:	Lea County, NM
GPS Coordinates:	N 32.32333 W -103.17463

## Release Data

Date of Release:	2/10/2017
Type of Release:	Produced water
Source of Release:	Produced water spill to bermed area of well pad
Volume of Release:	8.7 bbls
Volume Recovered:	8.7 bbls

## Remediation Specifications

Remediation Parameters:	Site was previously remediated by another company. BBC International specialists obtained 3 confirmation samples as plotted on the Google Earth map included and the site was found to be clean at each sample point.
Remediation Activities:	Original remediation activities were performed by another company

Plan Sent to OCD:	unknown	Sent by the company who performed the actual remediation
OCD Approval of Plan:	2/24/2017	
Plan Sent to BLM:	n/a	Not required
BLM Approval of Plan:	n/a	Not required

## Supporting Documentation

Initial C-141	signed and included
C-141, page 6	signed and included
Site Diagram	Google Earth map with confirmation sample points
Pictures	Photos showing satisfactory soil condition
Lab Summary/Analysis	Confirmation lab summary/analysis report for 3/13/20
Depth to Groundwater	USGS Info

## 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.


4/20/2020

# Chevron, BF Harrison B 16 CTB

Leak Date: 2-10-17  
Lea County, NM  
API: 30-025-32443  
1RP-4620

Legend

 Leak Area

 Confirmation Sample Point



Google Earth

© 2020 Google

70 ft



Chevron, BF Harrison B16 CTB

U/L D, Sec 9, T23S, R37E

Leak Date: 2-10-17

Confirmation Sample Points

B1, N 32.32333, W -103.17463

B2, N 32.32331, W -103.17464

B3, N 32.32328, W -103.17465







Laboratory Analytical Results Summary  
Chevron BF Harrison CTB (2-10-17)

		Sample ID	SP1 @ 1'	SP2 @ 1'	SP3 @ 1'
Analyte	Method	Date	3/13/20	3/13/20	3/13/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	16.0	16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0



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

April 17, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BF HARRISON CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/17/20 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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".

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: BF HARRISON CTB  
Project Number: (2-10-17)  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
17-Apr-20 15:33

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 1 @ 1'	H000822-01	Soil	13-Mar-20 08:45	17-Mar-20 15:50
SP 2 @ 1'	H000822-02	Soil	13-Mar-20 09:05	17-Mar-20 15:50
SP 3 @ 1'	H000822-03	Soil	13-Mar-20 09:23	17-Mar-20 15:50

04/17/20 - Client revised the project owner. This is the revised report and will replace the one sent on 03/19/20.

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: BF HARRISON CTB  
Project Number: (2-10-17)  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
17-Apr-20 15:33

**SP 1 @ 1'**  
**H000822-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	0031704	GM	18-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0031802	MS	18-Mar-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0031802	MS	18-Mar-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0031802	MS	18-Mar-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0031802	MS	18-Mar-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0031802	MS	18-Mar-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129 0031802 MS 18-Mar-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0031801	MS	18-Mar-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0031801	MS	18-Mar-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0031801	MS	18-Mar-20	8015B	

Surrogate: 1-Chlorooctane 102 % 44.3-144 0031801 MS 18-Mar-20 8015B

Surrogate: 1-Chlorooctadecane 107 % 42.2-156 0031801 MS 18-Mar-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BF HARRISON CTB  
Project Number: (2-10-17)  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
17-Apr-20 15:33

**SP 2 @ 1'**  
**H000822-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	0031704	GM	18-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0031802	MS	18-Mar-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0031802	MS	18-Mar-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0031802	MS	18-Mar-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0031802	MS	18-Mar-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0031802	MS	18-Mar-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129 0031802 MS 18-Mar-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0031801	MS	18-Mar-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0031801	MS	18-Mar-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0031801	MS	18-Mar-20	8015B	

Surrogate: 1-Chlorooctane 101 % 44.3-144 0031801 MS 18-Mar-20 8015B

Surrogate: 1-Chlorooctadecane 106 % 42.2-156 0031801 MS 18-Mar-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BF HARRISON CTB  
Project Number: (2-10-17)  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
17-Apr-20 15:33

**SP 3 @ 1'**  
**H000822-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	0031704	GM	18-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0031802	MS	18-Mar-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0031802	MS	18-Mar-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0031802	MS	18-Mar-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0031802	MS	18-Mar-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0031802	MS	18-Mar-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129 0031802 MS 18-Mar-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0031801	MS	18-Mar-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0031801	MS	18-Mar-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0031801	MS	18-Mar-20	8015B	

Surrogate: 1-Chlorooctane 103 % 44.3-144 0031801 MS 18-Mar-20 8015B

Surrogate: 1-Chlorooctadecane 106 % 42.2-156 0031801 MS 18-Mar-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BF HARRISON CTB  
Project Number: (2-10-17)  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
17-Apr-20 15:33

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 0031704 - 1:4 DI Water</b>									
<b>Blank (0031704-BLK1)</b>					Prepared & Analyzed: 17-Mar-20				
Chloride	ND	16.0	mg/kg						
<b>LCS (0031704-BS1)</b>					Prepared & Analyzed: 17-Mar-20				
Chloride	432	16.0	mg/kg	400		108 80-120			
<b>LCS Dup (0031704-BSD1)</b>					Prepared & Analyzed: 17-Mar-20				
Chloride	432	16.0	mg/kg	400		108 80-120	0.00	20	

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

Project: BF HARRISON CTB  
Project Number: (2-10-17)  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
17-Apr-20 15:33

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0031802 - Volatiles****Blank (0031802-BLK1)**

Prepared &amp; Analyzed: 18-Mar-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0500		mg/kg	0.0500		100	73.3-129			

**LCS (0031802-BS1)**

Prepared &amp; Analyzed: 18-Mar-20

Benzene	1.92	0.050	mg/kg	2.00		96.1	72.2-131			
Toluene	1.94	0.050	mg/kg	2.00		96.8	71.7-126			
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.1	68.9-126			
Total Xylenes	5.74	0.150	mg/kg	6.00		95.6	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	73.3-129			

**LCS Dup (0031802-BSD1)**

Prepared &amp; Analyzed: 18-Mar-20

Benzene	1.99	0.050	mg/kg	2.00		99.5	72.2-131	3.46	14.6	
Toluene	2.01	0.050	mg/kg	2.00		100	71.7-126	3.76	17.4	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	68.9-126	3.81	18.9	
Total Xylenes	5.96	0.150	mg/kg	6.00		99.4	71.4-125	3.89	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	73.3-129			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: BF HARRISON CTB  
Project Number: (2-10-17)  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
17-Apr-20 15:33

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0031801 - General Prep - Organics****Blank (0031801-BLK1)**

Prepared &amp; Analyzed: 18-Mar-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	57.7		mg/kg	50.0		115	44.3-144			
Surrogate: 1-Chlorooctadecane	63.4		mg/kg	50.0		127	42.2-156			

**LCS (0031801-BS1)**

Prepared &amp; Analyzed: 18-Mar-20

GRO C6-C10	223	10.0	mg/kg	200		112	78.8-127			
DRO >C10-C28	230	10.0	mg/kg	200		115	80-132			
Total TPH C6-C28	454	10.0	mg/kg	400		113	81.3-128			
Surrogate: 1-Chlorooctane	63.4		mg/kg	50.0		127	44.3-144			
Surrogate: 1-Chlorooctadecane	64.9		mg/kg	50.0		130	42.2-156			

**LCS Dup (0031801-BSD1)**

Prepared &amp; Analyzed: 18-Mar-20

GRO C6-C10	218	10.0	mg/kg	200		109	78.8-127	2.33	15.1	
DRO >C10-C28	233	10.0	mg/kg	200		116	80-132	1.04	17.1	
Total TPH C6-C28	451	10.0	mg/kg	400		113	81.3-128	0.602	15	
Surrogate: 1-Chlorooctane	60.8		mg/kg	50.0		122	44.3-144			
Surrogate: 1-Chlorooctadecane	64.9		mg/kg	50.0		130	42.2-156			

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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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Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

---

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.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																	
Project Manager: Cliff Brunson				P.O. #:																					
Address: P.O. Box 805				Company: CHEVRON																					
City: Hobbs State: NM Zip: 88241				Attn:																					
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																					
Project #: Project Owner: Oxy				City:																					
Project Name: BF Harrison CTB (2-10-17) <i>Chevron</i>				State: Zip:																					
Project Location: County, NM				Phone #:																					
Sampler Name: Simon Rendon				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	CL	BTEX	TPH	EXT							
<i>H000822</i>																									
1	SP1 @ 1'	G	↓			↓				↓			3-13-20	8:45 AM	✓	✓	✓								
2	SP2 @ 1'	G	↓			↓				↓			3-13-20	9:05 AM	✓	✓	✓								
3	SP3 @ 1'	G	↓			↓				↓			3-13-20	9:23 AM	✓	✓	✓								

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 analyses. 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: <i>3-13-20</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>5:00 pm</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: <i>3-17-20</i>	Received By:	REMARKS:	
	Time: <i>1550</i>		<i>4/17/20 - Name of project owner changed by Renee.</i>	
Delivered By: (Circle One)	Sample Condition:	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>JS</i>		

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



Incident ID	nOY1705556439
District RP	1RP-4620
Facility ID	
Application ID	

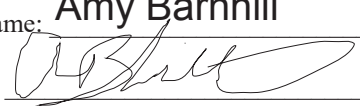
## Closure

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: Amy Barnhill Title: Waste & Water Specialist  
Signature:  Date: 4-13-2020  
email: abarnhill@chevron.com Telephone: (432) 687-7108

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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: Bradford Billings Date: 09/22/2021  
Printed Name: Bradford Billings Title: Envi.Spec.A

**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 5148

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 5148
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	9/22/2021