

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

DELINEATION WORKPLAN

OXY – BRAVO DOME LEG 7

(Leak Date: 10/10/16)

RP # 4RP-11

This delineation workplan and remediation proposal addresses the releases associated with RP # 4RP-11.

The following information includes:

- 1. Appropriate completed and signed C-141 pages.
- 2. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
- 3. GPS information for sample points and sample methodology.
- 4. Depth to groundwater information (i.e., pdf of OSE search results, USGS search results, and/or copy of Chevron groundwater trend map).
- 5. Watercourse/features map within 1000 feet.
- 6. BLM Cave Karst map.
- 7. FEMA National Flood map.
- 8. Laboratory analysis results summary table and original laboratory analysis reports.
- 9. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD rules, the following remediation is proposed:

OXY will excavate the spill area as depicted on the following site diagram. The entire site will be excavated to a depth of 4 feet with an impermeable liner placed in the bottom of the excavation and then backfilled.

OXY requests a variance from the requirements of 19.15.29 NMAC. This variance request consists of the utilization of an impermeable 20 mil plastic liner at 4 feet below ground surface. The variance is requested because of the need to limit the excavation depth to prevent the massive surface disturbance that will be required of an excavation deeper than 4 feet due to OSHA confined space sloping requirements and to respect the landowner in minimizing surface disturbance related to the excavation and transportation of the impacted soils to a disposal facility and the transportation of backfill materials.

In addition, the installation of an impermeable liner will be protective of not only groundwater which is greater than 100 feet, but also will be protective of nearby

DELINEATION WORKPLAN

OXY - BRAVO DOME LEG 7

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RP # 4RP-11

surface water features since 4 feet of clean soil will be compacted on top of the liner and with the liner preventing upward migration of any chlorides left in place.

The horizontal edges of the excavation will be determined during the excavation process utilizing a field screening method of potassium chromate/sliver nitrate titration. The excavation will be stopped when the horizontal edges are determined to be no higher than 600 ppm in chlorides via field screening. Then sidewall samples will be collected via a composite sample plan that will not be representative of more than 200 square feet and analyzed at a lab for chlorides to verify that chloride content is less than 600 ppm. If lab analysis does not confirm 600 ppm has been achieved, then further excavation will be performed until lab analysis confirms below 600 ppm has been achieved.

Once laboratory confirmation is received, the liner will be placed into the excavation and backfilling with clean soil will commence.

In addition, upgradient and background soil samples will be analyzed. All laboratory results will be included in the closure report along with a site map of the excavation with depiction and GPS location of the confirmation sidewall sample points. Photographs of the excavation process, liner placement, and backfilled site will be included in the closure report as well.

The estimated volume of soil to be excavated is 450 cubic yards. The remediation will be completed within 90 days from receipt of the approval from the NMOCD.

The entire site will be revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

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

Form C-141 Page 3

State of New Mexico Oil Conservation Division

| Incident ID | |
|----------------|--------|
| District RP | 4RP-11 |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| · | |
|---|---------------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release? | 182 (ft bgs) |
| Did this release impact groundwater or surface water? | ☐ Yes ■ No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | Yes No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | Yes No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ■ No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ■ No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ■ No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ■ No |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ■ No |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ■ No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ■ No |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ■ No |
| Did the release impact areas not on an exploration, development, production, or storage site? | ■ Yes □ No |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | tical extents of soil |
| Characterization Report Checklist: Each of the following items must be included in the report. | · · · · · · · · · · · · · · · · · · · |
| Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data | ls. |
| Data table of soil contaminant concentration data Depth to water determination | |
| Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release | |
| Boring or excavation logs Photographs including date and GIS information | |
| Topographic/Aerial maps | |
| ■ Laboratory data including chain of custody | |

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141 Page 4

State of New Mexico Oil Conservation Division

| Incident ID | |
|----------------|--------|
| District RP | 4RP-11 |
| Facility ID | |
| Application ID | |

| regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the 6 failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations. | fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In |
|---|---|
| Printed Name: Wade Dittrich | Title: Environmental Specialist |
| Signature: 4/6/le Kith | Date: _//-7~18 |
| email: wade_dittrich@oxy.com | Telephone: (575) 390-2828 |
| | |
| OCD Only Pandountauliss | |
| Received by: Candaly Caufiss | Date:08Nov18 |

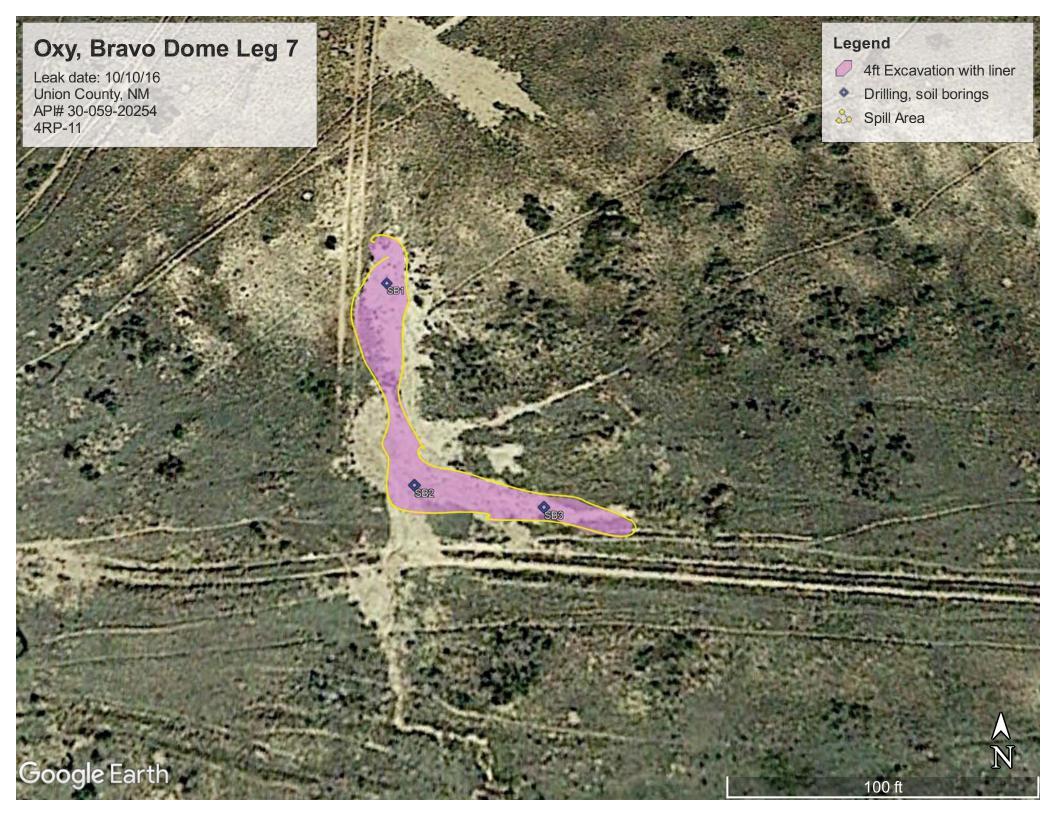
Form C-141 Page 5

State of New Mexico Oil Conservation Division

| Incident ID | |
|----------------|--------|
| District RP | 4RP-11 |
| Facility ID | |
| Application ID | |

Remediation Plan

| Remediation Plan Checklist: Each of the following items must be | included in the plan. |
|---|---|
| Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.1 Proposed schedule for remediation (note if remediation plan times) | 2(C)(4) NMAC |
| Deferral Requests Only: Each of the following items must be con- | firmed as part of any request for deferral of remediation. |
| Contamination must be in areas immediately under or around prodeconstruction. | eduction equipment where remediation could cause a major facility |
| Extents of contamination must be fully delineated. | |
| Contamination does not cause an imminent risk to human health, | the environment, or groundwater. |
| I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file complete which may endanger public health or the environment. The acceptant liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local lateral Name: Wade Dittrich Signature: | ertain release notifications and perform corrective actions for releases ace of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of was and/or regulations. Title: Environmental Specialist Date: |
| email: wade_dittrich@oxy.com | Telephone: (575) 390-2828 |
| | i |
| OCD Only | |
| Received by: Randolph Bayliss | Date:08Nov18 |
| Approved | pproval |
| Signature: and of the signature I | Date: 08Nov18 |



Oxy, Bravo Dome Leg 7

Soil Borings, drilling SB1, N 35.76721 W-103.20268 SB2, N 35.76699 W-103.20264 SB3, N 35.76697 W-103.20248



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National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: New Mexico

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Groundwater levels for New Mexico

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Well #1 Leg 7

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 354656103124501

Minimum number of levels = 1

Table of data

Save file of selected sites to local disk for future upload

USGS 354656103124501 18N.35E.22.111

Union County, New Mexico Latitude 35°46'56", Longitude 103°12'45" NAD27 Land-surface elevation 4,615 feet above NGVD29 The depth of the well is 205 feet below land surface.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Tab-separated data
Graph of data
Reselect period

? Water Water ?

level, feet level, feet Water-Referenced Water-Date Time Waterlevel above vertical Method of below Measuring Source of level specific vertical datum datedatum level Status approval status land agency ассигасу surface accuracy 1981-02-11 D 182.60 2 U U

Explanation

| Section | Code | Description |
|--------------------------------|------|--|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | | The reported water-level measurement represents a static level |
| Method of measurement | U | Unknown method. |
| Measuring agency | | Not determined |
| Source of measurement | U | Source is unknown. |
| Water-level approval status | Α | Approved for publication Processing and review completed. |
| | | |

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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels

URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2018-10-23 17:25:43 EDT

0.51 0.44 nadww01

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National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater

Geographic Area: New Mexico

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Groundwater levels for New Mexico

Click to hide state-specific text

Well #2 Leg 7

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 354618103112601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 354618103112601 18N.35E.23.323

Union County, New Mexico Latitude 35°46'18", Longitude 103°11'26" NAD27 Land-surface elevation 4,561 feet above NGVD29

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data Tab-separated data Graph of data Reselect period

| Date Tin | Water- level date- time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water- level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measurement | ? Water- level approval status | |
|--------------------------|--|---|---|---------------------------------|----------------------------------|-------------|-------------------------------|--------------------------|-------------------------------|--|---|
| 1981-02-11 1986-02-20 | | D 200 | | | | 2 | l. | Į j | | U U | A |

Explanation

| Section | Code | Description | |
|--------------------------------|------|--|--|
| Water-level date-time accuracy | D | Date is accurate to the Day | |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot | |
| Status | | The reported water-level measurement represents a static level | |
| Method of measurement | U | Unknown method. | |
| Measuring agency | | Not determined | |
| Source of measurement | U | Source is unknown. | |
| Water-level approval status | A | Approved for publication Processing and review completed. | |
| | | | |

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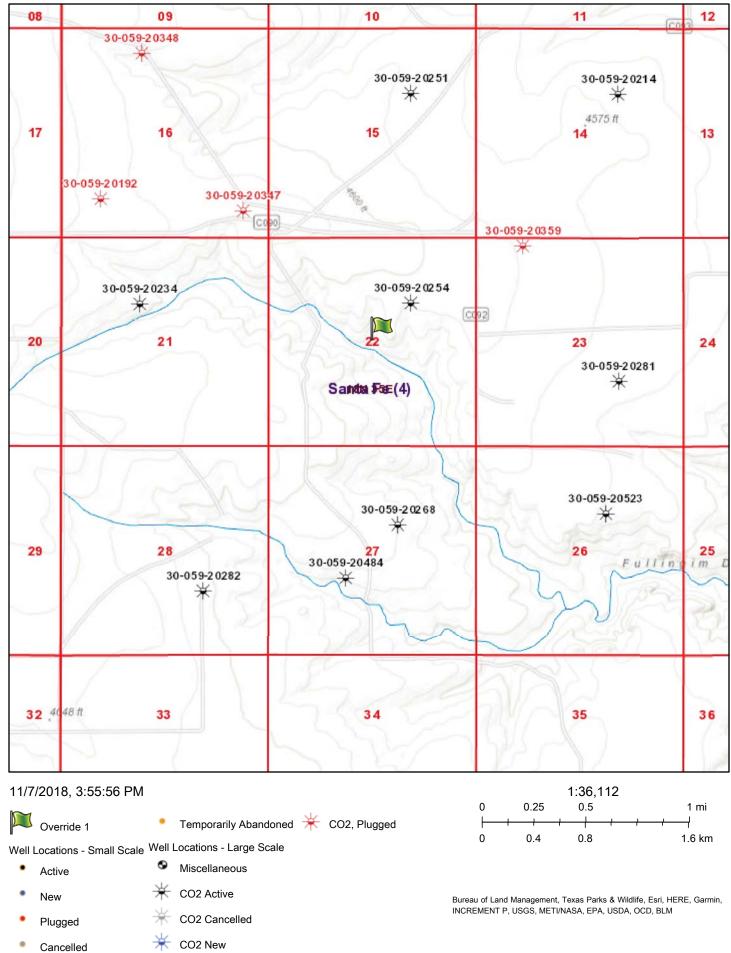
U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2018-10-23 17:29:42 EDT

0.55 0.46 nadww01

USA.gov

Surface Waters within 1/2 mile of site



Laboratory Analytical Results Summary Bravo Dome Leg #7

| | | Sample | SB1 @ SURFACE | SB1 @ 5' | SB1 @ 10' | SB1 @ 15' | SB1 @ 17' | SB1 @ 22' |
|----------|------------|--------|------------------|----------|-----------|-----------|-----------|-----------|
| Analyte | Method | Date | 6/6/17 | 6/6/17 | 6/6/17 | 6/6/17 | 6/6/17 | 6/6/17 |
| | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Chloride | SM4500CI-B | | 16400 | 1500 | 1180 | 496 | 80 | 96 |

| | | Sample | SB2 @ SURFACE | SB2 @ 5' | SB2 @ 10' | SB2 @ 15' | SB2 @ 17' | SB2 @ 22' |
|----------|------------|--------|------------------|----------|-----------|-----------|-----------|-----------|
| Analyte | Method | Date | 6/6/17 | 6/6/17 | 6/6/17 | 6/6/17 | 6/6/17 | 6/6/17 |
| | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Chloride | SM4500CI-B | | 15400 | 4400 | 1340 | 640 | 64 | 48 |

| | | Sample | SB3 @ SURFACE | SB3 @ 5' | SB3 @ 10' | SB3 @ 15' | SB3 @ 17' | SB3 @ 22' |
|----------|------------|--------|------------------|----------|-----------|-----------|-----------|-----------|
| Analyte | Method | Date | 6/6/17 | 6/6/17 | 6/6/17 | 6/6/17 | 6/6/17 | 6/6/17 |
| | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Chloride | SM4500CI-B | | 144 | 576 | 688 | 320 | <16.0 | <16.0 |



June 13, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BRAVO DOME LEG #7

Enclosed are the results of analyses for samples received by the laboratory on 06/07/17 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

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



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 06/07/2017 Sampling Date: 06/06/2017

Reported: 06/13/2017 Sampling Type: Soil Project Name: BRAVO DOME LEG #7 Sampling Condition: Coo

Project Name: BRAVO DOME LEG #7 Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY

Sample ID: SB1 @ SURFACE (H701506-01)

| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
|-------------------------|------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16400 | 16.0 | 06/09/2017 | ND | 432 | 108 | 400 | 3.77 | |
| Sample ID: SB1 @ 5' (H7 | 01506-02) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1500 | 16.0 | 06/09/2017 | ND | 432 | 108 | 400 | 3.77 | |
| Sample ID: SB1 @ 10' (H | 701506-03) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1180 | 16.0 | 06/09/2017 | ND | 432 | 108 | 400 | 3.77 | |
| Sample ID: SB1 @ 15' (H | 701506-04) | | | | | | | | |
| Chloride, SM4500CI-B | Analyze | d By: AC | | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 496 | 16.0 | 06/09/2017 | ND | 432 | 108 | 400 | 3.77 | |

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 06/07/2017 Sampling Date: 06/06/2017

Reported: 06/13/2017 Sampling Type: Soil

Project Name: BRAVO DOME LEG #7 Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY

Sample ID: SB1 @ 17' (H701506-05)

| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
|--------------------------|---------------|-----------------|-----------------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Chloride | 80.0 | 16.0 | 06/09/2017 | ND | 432 | 108 | 400 | 3.77 | |
| Sample ID: SB1 @ 22' (H | 701506-06) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed Method Blank | | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 06/09/2017 | ND | 432 | 108 | 400 | 3.77 | |
| Sample ID: SB2 @ SURFA | .CE (H701506- | -07) | | | | | | | |
| Chloride, SM4500Cl-B | - | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Chloride | 15400 | 16.0 | 06/09/2017 | ND | 432 | 108 | 400 | 3.77 | |
| Sample ID: SB2 @ 5' (H70 | 01506-08) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4400 | 16.0 | 06/09/2017 | ND | 432 | 108 | 400 | 3.77 | |
| Sample ID: SB2 @ 10' (H | 701506-09) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | mg/kg | | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Chloride | 1340 | 16.0 | 06/09/2017 | ND | 432 | 108 | 400 | 3.77 | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

 Received:
 06/07/2017
 Sampling Date:
 06/06/2017

 Reported:
 06/13/2017
 Sampling Type:
 Soil

Project Name: BRAVO DOME LEG #7 Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY

Sample ID: SB2 @ 15' (H701506-10)

| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
|--|--|-----------------|------------|--------------|---------------|------------|---------------|------------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 640 | 16.0 | 06/09/2017 | ND | 432 | 108 | 400 | 3.77 | |
| Sample ID: SB2 @ 17' (H7 | '01506-11) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result Reporting Limit Analyzed Method Blank 64.0 16.0 06/09/2017 ND | | BS | % Recovery | True Value QC | RPD | Qualifier | | |
| Chloride | | | 06/09/2017 | ND | 432 | 108 | 400 | 3.77 | |
| Sample ID: SB2 @ 22' (H7 Chloride, SM4500Cl-B | - | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 06/09/2017 | ND | 432 | 108 | 400 | 3.77 | |
| Sample ID: SB3 @ SURFA | CE (H701506- | ·13) | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 06/09/2017 | ND | 432 | 108 | 400 | 3.77 | |
| Sample ID: SB3 @ 5' (H70 | 1506-14) | | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 576 | 16.0 | 06/09/2017 | ND | 432 | 108 | 400 | 3.77 | |
| | 5.0 | 2010 | 00,00,201 | | .02 | 100 | .00 | <i>5 .</i> | |

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 06/07/2017 Sampling Date: 06/06/2017

Reported: 06/13/2017 Sampling Type: Soil

Project Name: BRAVO DOME LEG #7 Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY

Sample ID: SB3 @ 10' (H701506-15)

| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AC | | | | | |
|----------------------------|------------|-----------------|------------|--------------|-----|-------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 688 | 16.0 | 06/09/2017 | ND | 448 | 112 | 400 | 3.64 | |
| Sample ID: SB3 @ 15' (H | 701506-16) | | | | | | | | |
| Chloride, SM4500Cl-B mg/kg | | Analyze | d By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride 320 16.0 | | 16.0 | 06/09/2017 | ND | 448 | 112 | 400 | 3.64 | |
| Sample ID: SB3 @ 17' (H | 701506-17) | | | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 06/09/2017 | ND | 448 | 112 | 400 | 3.64 | |
| Sample ID: SB3 @ 22' (H | 701506-18) | | | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | | | | M (1 1 1 1 1 | DC | % Recovery | True Value OC | RPD | Qualifier |
| • | Result | Reporting Limit | Analyzed | Method Blank | BS | 70 Necovery | True value QC | KPD | Qualifier |

Cardinal Laboratories *=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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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Celegy D. Freene

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | BBC International, Inc. | | | | | BIL | L TO | | | | | ANALY | SIS RI | EQUES | Т | | |
|------------------------------|---|-------------------------|--------------|-------------------------------------|---------------------|----------------------|--------------------|--------------------|---------|-------|------|----------|--------|-------|---|---------|-----|
| | Project Manager: Cliff Brunson | | | | | P.O. #: | | | | | | | | | | | |
| Address: P.O. | Box 805 | | | | Company: | | | | | | | - 2 | | | | | |
| city: Hobbs | | e: NM Zip | : 882 | 241 | Attn: | | | | | | | | | | | 1 1 | |
| Phone #: 575-3 | 397-6388 Fax # | : 575-39 | 7-039 | 97 | Addres | s: | | | | | | | | 1 1 | | 1 1 | |
| Project #: | | ct Owner: | 0 | KY | City: | | | | | | | | | | | | |
| Project Name: | BRAW DOME | LEG 1 | 47 | 1 | State: | | Zip: | | | | | | | | | 1 1 | - 1 |
| Project Location | 1: | | | | Phone | #: | | | | | | | | | | | - 1 |
| Sampler Name: | ROCKH HETC | MADEZ | | | Fax #: | | | | 1 | | | | | | | | - 1 |
| FOR LAB USE ONLY | | 0. | | MATRIX | PRE | SERV. | SAMPLI | NG | 10 | | | | | 1 1 | | | |
| | | (C)OMP | S | 5 ~ | | | | | 100 | | | | | | | | |
| Lab I.D. | Sample I.D. | OR (C | CONTAINERS | ATE | ίú | اام | | | 10 | | | | | | | | |
| Lab I.D. | Sample i.b. | | A L | GE SEW | BAS | 00 2 | | | 2 | | | | | | | | |
| H701506 | | (G)RAB | # CONTAINERS | WASTEWATER SOIL OIL SLUDGE | OTHER: ACID/BASE | ICE / COOL OTHER: | DATE | TIME | 17 | | | | | | | | |
| 1 | SBIRSURA | | 1 | 1/0/0 | | ~ | 1-10-17 | 1145 | 1/ | | | | | | | | |
| 2 | 05 | 6 | 1 | V | | V | 10-10-17 | 1157 | 1 | | | | | | | | |
| 3 | e 10- | 0 | 1 | V | | 1 | 6.1017 | 1708 | V | | | | | | | \perp | |
| 4 | @ 15 | 0 | 1 | V | | " | 6.6.17 | 1719 | V | | | | _ | | | | |
| 5 | e 17- | 0 | 1 | V | | V | 6-6-17 | 127 | / | _ | _ | | _ | + | _ | + | |
| 6 | 022 | 0 | 11 | U | | V | 6-6-17 | 1245 | 10 | | _ | \vdash | _ | + | _ | + | |
| 7 | SBZ@SURG | ace a | 141 | 0 | \Box | 1 | 6.6-13 | 100 | 1 | _ | _ | \vdash | _ | + | _ | + | |
| 8 | e 5 | C | 1!1 | 1/ | + | 1 | 6.6.11 | 108 | 1 | - | - | + | _ | + | | + | |
| 9 | @ 10 | 6 | | 1 | + | 1 | 1.10.17 | Bu | 1 | | - | + | | | | | |
| PLEASE NOTE: Liability a | nd Damages. Cardinal's liability and client's exclusion | sive remedy for any cla | im arising | whether based in contra | t or tort, shall | be limited | to the amount par | d by the client to | | | | | | | | | |
| service. In no event shall (| ing those for negligence and any other cause what Cardinal be liable for incidental or consequental da | mages, including with | ut limitatio | on, business interruptions | loss of use, o | or loss of p | rofits incurred by | dient, its subsidi | saries, | se | | | | | | | |
| Relinquished B | ing out of or related to the performance of service y: Date | hereunder by Cardin | eceive | ed By: | is based upo | n arry of tr | e above stated re | Phone Re | esuit: | ☐ Yes | □ No | Add'l P | | | | | |
| Right | Hennandez Time | | | | | | | Fax Resu REMARK | | □ Yes | □ No | Add'l F | ax #: | | | | |
| Relinquished B | y: Date | 7-17 R | eceive | ed By: | M | 1 | 60 | | | | | | | | | | |
| Delivered By | : (Circle One) | . 10 | sui | Sample Condi | tion | | (ED BY: | | | | | | | | | | |
| Sampler - UPS | - Bus - Other: | 4. | 9° | Cool Intact | es - | 70. | #75 | | | | | | | | | | |

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

ARDINAL 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. | | BILL TO | | ANALYSIS REQUEST | | | | | |
|---|---|--|------------------------|--------------------------------|--|--|--|--|--|
| Project Manager: Cliff Brunson | | P.O. #: | | | | | | | |
| Address: P.O. Box 805 | | Company: | | | | | | | |
| | Zip: 88241 | Attn: | | | | | | | |
| Phone #: 575-397-6388 Fax #: 575 | Address: | | | | | | | | |
| Project #: Project Owne | r: ON | City: | | | | | | | |
| Project Name: BANKO Dome LETT | #7 | State: Zip: | | | | | | | |
| Project Location: | | Phone #: | | | | | | | |
| Sampler Name: NOW DERMAND | 17 | Fax #: | | | | | | | |
| FOR LAB USE ONLY | MATRIX | PRESERV. SAMPLING | W | | | | | | |
| Lab I.D. Sample I.D. #10 506 58 | ON SON SON SON SON SON SON SON SON SON S | OTHER: OTHER: | | | | | | | |
| | | | | | | | | | |
| PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for analyses. All claims including those for negligence and any other cause whatsoever shall be service. In no event shall Cardinal be liable for incidental or consequential damages, including affiliates or successors arising out of or related to the performance of services hereunder by | deemed waived unless made in writing as g without limitation, business interruptions | nd received by Cardinal within 30 days after completion of the classic of use, or loss of profits incurred by client, its subsidial | se applicable ries, | | | | | | |
| Relinquished By: Date: 7 - / 7 | Received By: | Phone Re Fax Resul | sult: Yes No | Add'l Phone #: Add'l Fax #: | | | | | |
| NOGERAL MONOST Time: | | REMARKS | | PAGE LEGATE. | | | | | |
| Relinquished By: Date: | Received By: | 0001 | | | | | | | |
| 6-7-17 | 11 | 1111111 | 4 | | | | | | |
| Delivered By: (Circle One) | Sample Condi | tion CHECKED BY: | | | | | | | |
| | Cool Intact | (Initials) | | | | | | | |
| Sampler - UPS - Bus - Other: | .90 Pyes Pye | | | | | | | | |

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

4RP-11

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Revised August 8, 2011

Form C-141

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

Santa Fe, NM 87505 Release Notification and Corrective Action **OPERATOR** Initial Report Final Report Name of Company OXY USA Inc. Contact Eric Maestas Address770 Rosebud Rd. Amistad NM 88410 Telephone No. 575-420-7825 Facility Name Bravo Dome Gathering System Facility Type Carbon Dioxide Gathering System Mineral Owner Banta API No. 30-059-20254 Surface Owner Banta LOCATION OF RELEASE Range Feet from the North/South Line East/West Line Unit Letter Section Township Feet from the County 22 1650 North 1650 East Union Latitude N 35.767236____ Longitude_____W -103.202734 NATURE OF RELEASE Type of Release Produced Water Volume of Release 6 bbls Volume Recovered None Source of Release: 6 in steel Pipeline Date and Hour of Occurrence Date and Hour of Discovery 10/10/2016 10:00 AM 10/10/2016 9:00AM Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required By Whom? Eric Maestas Date and Hour 10/10/2016 4:00 PM Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes 🛛 No If a Watercourse was Impacted, Describe Fully.*N/A Describe Cause of Problem and Remedial Action Taken.* Produced water was spilled on the ground after a 6" steel pipeline developed a leak. There was approximately 6 bbls of produced water that ran out of the pipe onto the ground. Area has been delineated in preparation for remediation. Describe Area Affected and Cleanup Action Taken.* Affected area has been delineated, Safety Environmental Solutions Inc. will be assisting with the remediation plan submittal. 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: Approved by Environmental Specialists Printed Name: Eric Maestas Approval Date: 10 Title: HES Coordinator Expiration Date E-mail Address: eric_maestas@oxy.com Conditions of Approval: Attached

* Attach Additional Sheets If Necessary

Talled to Eich. 10/13/16.000 Warling on rend. plan.

Phone: 575-420-7825

 From:
 Lowe, Leonard, EMNRD

 To:
 "Eric Maestas@oxy.com"

 Cc:
 Jones, William V, EMNRD

Subject: 4RP-11

Date: Monday, October 17, 2016 9:40:00 AM

Importance: High

Mr. Maestas,

OCD has categorized your 6 bbl release as 4RP-11. Any submitted information of this release to the OCD shall reference this 4RP-11 number.

OXY has an active environmental release that needs to be addressed and resolved.

OCD is waiting on a plan of remediation from OXY as of Friday, October 14, 2016.

Leonard Lowe

Engineering Bureau
Oil Conservation Division
Energy Minerals and Natural Resources Department
1220 South St. Frances
Santa Fe, New Mexico 87004
Office: 505-476-3492

Cell: 505-930-6717 Fax: 505-476-3462

E-mail: leonard.lowe@state.nm.us

Website: http://www.emnrd.state.nm.us/ocd/