



[Dakota Neel]
[HSE Coordinator]

April 14, 2019

Bradford Billings
Oil Conservation Division
1220 S. St Francis Dr. #3
Santa Fe, NM 87505

**Re: Closure Request
Copperhead Fee A #003H
API #: 30-015-42327
RP#: 2RP-4747
Unit Letter E, Section 31, Township 26S, Range 29E
Eddy County, NM**

Mr. Billings,

COG Operating, LLC (COG) is pleased to submit the following closure report for the Copperhead Fee A #003H. This release occurred on May 14, 2018. Following the release an assessment of impacted soils was conducted. A remediation work plan was submitted to and subsequently approved by the New Mexico Oil Conservation Division (NMOCD).

BACKGROUND

On May 14, 2018, a produced water release occurred on the Copperhead Fee A #003H flowline. The transition going to the facility ruptured resulting in the release of approximately one hundred and twenty-two (122) barrels of produced water with ten (10) barrels of produced water recovered.

Remediation activities were conducted in accordance with the NMOCD approved workplan.

April 14, 2019

REMEDIAL ACTIONS

- The impacted areas of SP1, SP2, and SP3 were excavated to a depth of one (1) foot below ground surface (bgs).
- The impacted areas of SP4, and SP5 were excavated to a depth of two (2) feet bgs.
- The impacted areas of SP6, SP7, and SP8 were excavated to a depth of four (4) feet bgs with a 20 mil liner installed at the bottom of the excavation.
- The impacted area of SP9 was excavated to a depth of two and a half (2.5) feet bgs.
- The excavation was backfilled with clean “like” material, and contoured to match the surrounding terrain. The site will be mechanically seeded using the landowner’s preferred seed mixture.

Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,



Dakota Neel
HSE Coordinator
dneel2@concho.com

Enclosed:

Appendix I: Final C-141
Appendix II: Initial C-141 (Copy)
Appendix III: Approved Work plan

APPENDIX I

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|----------------------------|
| Name of Company: COG Production, LLC (OGRID #217955) | Contact: Robert McNeill |
| Address: 600 West Illinois Avenue, Midland, TX 79701 | Telephone No. 432-683-7443 |
| Facility Name: Copperhead Fee A #003H | Facility Type: Flowline |
| Surface Owner: Private | Mineral Owner: Private |
| API No. 30-015-42327 | |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| E | 31 | 26S | 29E | 415 | South | 990 | West | Eddy |

Latitude 32.0012321 Longitude -104.0292206 NAD83

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release Produced Water | Volume of Release 122 bbl. | Volume Recovered 10 bbl. |
| Source of Release: Flowline Leak | Date and Hour of Occurrence May 14, 2018 10:40am | Date and Hour of Discovery May 14, 2018 10:40am |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Mike Bratcher - NMOCD Crystal Weaver - NMOCD | |
| By Whom? Sheldon Hitchcock | Date and Hour May 14, 2018 2:08pm | |
| 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 release was caused by the flowline blowing out at the transition. The transition was repaired.

Describe Area Affected and Cleanup Action Taken.*

The release was in the pasture. A vacuum truck was dispatched to remove all freestanding fluids. Remediation activities have been completed in accordance to the NMOCD approved work 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> | |
| | | Approved by Environmental Specialist:  | |
| Printed Name: Dakota Neel | Approval Date: 12/2/2022 | | Expiration Date: N/A |
| Title: HSE Coordinator | Conditions of Approval: none | | Attached <input type="checkbox"/> |
| E-mail Address: dneel2@concho.com | | | |
| Date: April 14, 2019 | Phone: 575-746-2010 | | |

* Attach Additional Sheets If Necessary

APPENDIX II

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy Minerals and Natural Resources
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1220 South St. Francis Dr.
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Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

| | |
|--|----------------------------|
| Name of Company: COG Production, LLC (OGRID #217955) | Contact: Robert McNeill |
| Address: 600 West Illinois Avenue, Midland, TX 79701 | Telephone No. 432-683-7443 |
| Facility Name: Copperhead Fee A #003H | Facility Type: Flowline |
| Surface Owner: Private | Mineral Owner: Private |
| API No. 30-015-42327 | |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
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| Type of Release Produced Water | Volume of Release 122 bbl. | Volume Recovered 10 bbl. |
| Source of Release: Flowline Leak | Date and Hour of Occurrence May 14, 2018 10:40am | Date and Hour of Discovery May 14, 2018 10:40am |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Mike Bratcher - NMOCD Crystal Weaver - NMOCD | |
| By Whom? Sheldon Hitchcock | Date and Hour May 14, 2018 2:08pm | |
| 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.*

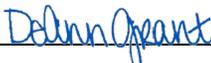
Describe Cause of Problem and Remedial Action Taken.*

The release was caused by the flowline blowing out at the transition. The transition is being repaired or replaced.

Describe Area Affected and Cleanup Action Taken.*

The release was in the pasture. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant 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 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: DeAnn Grant | | Approved by Environmental Specialist: | |
| Title: HSE Administrative Assistant | Approval Date: | Expiration Date: | |
| E-mail Address: agrant@concho.com | Conditions of Approval: | | Attached <input type="checkbox"/> |
| Date: May 15, 2018 | Phone: 432-253-4513 | | |

* Attach Additional Sheets If Necessary

APPENDIX III



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

COG – COPPERHEAD FEE A #003H (Leak Date: 5/14/18)

RP # 2RP-4747

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4747.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

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

COG will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP3 (blue shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP4 and SP5 (purple shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP6 – SP8 (green shade on diagram) will be excavated to a depth of 4 feet with an impermeable liner placed in the bottom of the excavation. The leak area near SP9 (pink shade on diagram) will be excavated to a depth of 2.5 feet.

SP8 is the leak point and it will be fully delineated utilizing a rig the week of August 20th. Upon receiving the laboratory results, COG will notify the OCD and BLM with the results. The current results indicate that a liner needs to be installed therefore this plan has been submitted prior to complete delineation.

The entire site will then be backfilled with clean soil and 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.

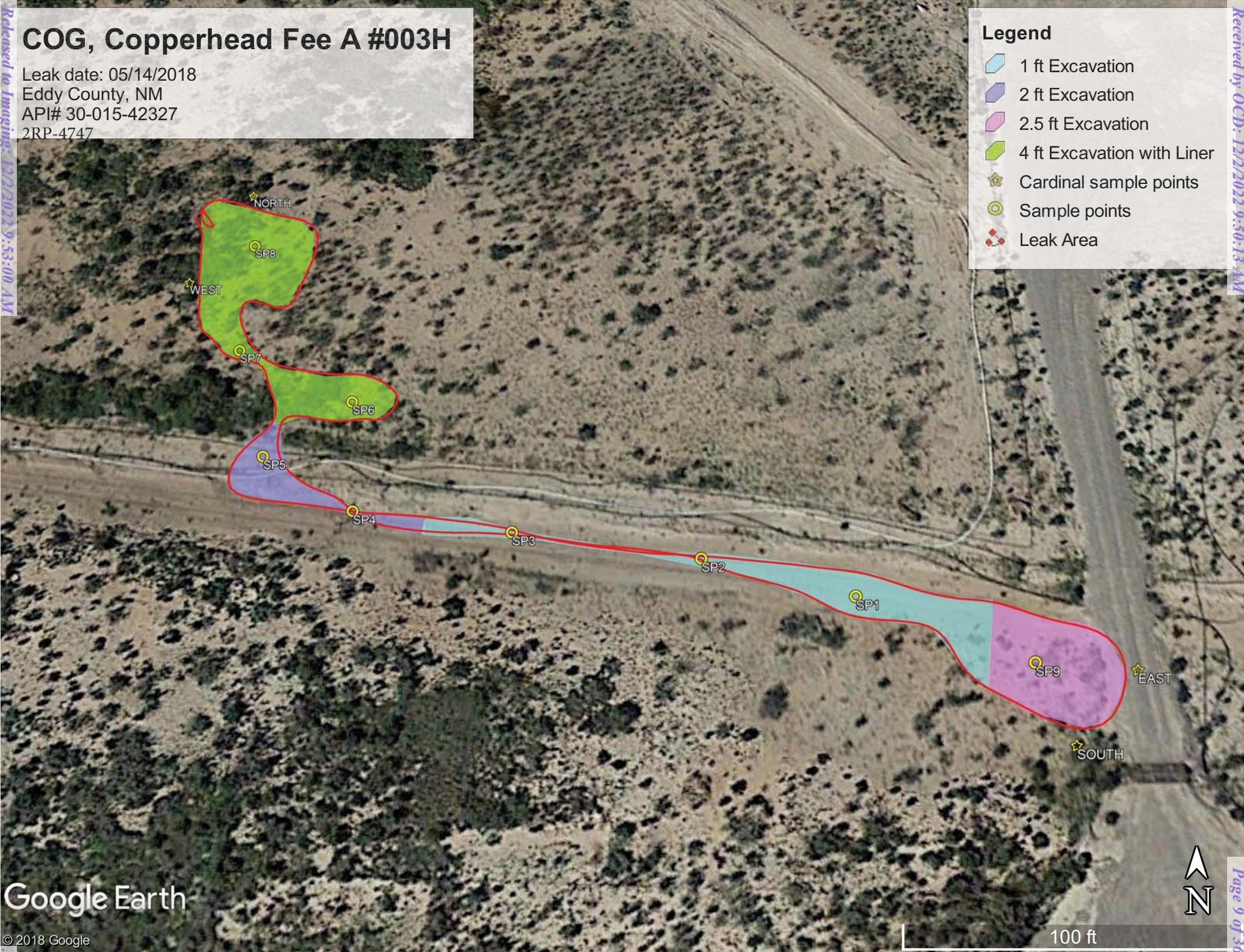
ENVIRONMENTAL CONSULTING AND REMEDIATION SERVICES
HOBBS, NEW MEXICO • WEBSITE: www.bbcinternational.com • HOUSTON, TEXAS

COG, Copperhead Fee A #003H

Leak date: 05/14/2018
Eddy County, NM
API# 30-015-42327
2RP-4747

Legend

- 1 ft Excavation
- 2 ft Excavation
- 2.5 ft Excavation
- 4 ft Excavation with Liner
- Cardinal sample points
- Sample points
- Leak Area



Google Earth

© 2018 Google

100 ft



Received by OCD: 12/2/2022 9:50:13 AM

Page 9 of 36

COG, Cooperhead Fee A #003H

Sample points

SP1, N 32.00056 W-104.02793

SP2, N 32.00060 W-104.02810

SP3, N 32.00062 W-104.02830

SP4, N 32.00065 W-104.02848

SP5, N 32.00071 W-104.02859

SP6, N 32.00077 W-104.02850

SP7, N 32.00083 W-104.02864

SP8, N 32.00097 W-104.02865

SP9, N 32.00050 W-104.02775

NORTH, N 32.00104 W-104.02866

SOUTH, N 32.00042 W-104.02772

EAST, N 32.00049 W-104.02764

WEST, N 32.00092 W-104.02872

COG, Copperhead Fee A #003H
U/L E, Section 31, T26S, R29E
Groundwater: 50'





New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 591592

Northing (Y): 3541335

Radius: 1700

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/22/18 10:28 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Public Land Survey System (PLSS)

Q64: Q16: Q4: Sec: Tws: Rng:

State Plane Coordinate System - NAD27

X: ft Y: ft Zone:

State Plane Coordinate System - NAD83

X: ft Y: ft Zone:

Degrees/Minutes/Seconds

Longitude (X): Degrees: ° Minutes: ' Seconds: "
Latitude (Y): Degrees: ° Minutes: ' Seconds: "

UTM - NAD27

Easting (X): mtrs Northing (Y): mtrs Zone:

SUBMIT

All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X): mtrs Northing (Y): mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~

Laboratory Analytical Results Summary
Copperhead Fee A #003H (5/14/18)

| | | Sample ID | SP1 @ SURFACE | SP1 @ 1' | SP1 @ 2' | SP1 @ 3' |
|----------------|---------------|-------------|---------------|----------|----------|----------|
| Analyte | Method | Date | 7/18/18 | 7/18/18 | 7/18/18 | 7/18/18 |
| | | | 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 |
| Total BTEX | BTEX 8021B | | <0.300 | n/a | n/a | n/a |
| Chloride | SM4500Cl-B | | 4320 | 608 | 272 | 224 |
| GRO | TPH 8015M | | <10.0 | n/a | n/a | n/a |
| DRO | TPH 8015M | | <10.0 | n/a | n/a | n/a |
| EXT DRO | TPH 8015M | | <10.0 | n/a | n/a | n/a |

| | | Sample ID | SP2 @ SURFACE | SP2 @ 1' | SP2 @ 2' | SP2 @ 3' |
|----------------|---------------|-------------|---------------|----------|----------|----------|
| Analyte | Method | Date | 7/18/18 | 7/18/18 | 7/18/18 | 7/18/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg |
| Chloride | SM4500Cl-B | | 4720 | 512 | 288 | 240 |

| | | Sample ID | SP3 @ SURFACE | SP3 @ 1' | SP3 @ 2' | SP3 @ 3' |
|----------------|---------------|-------------|---------------|----------|----------|----------|
| Analyte | Method | Date | 7/18/18 | 7/18/18 | 7/18/18 | 7/18/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg |
| Chloride | SM4500Cl-B | | 3760 | 608 | 272 | 256 |

| | | Sample ID | SP4 @ SURFACE | SP4 @ 1' | SP4 @ 2' | SP4 @ 3' |
|----------------|---------------|-------------|---------------|----------|----------|----------|
| Analyte | Method | Date | 7/18/18 | 7/19/18 | 7/19/18 | 7/19/18 |
| | | | 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 |
| Total BTEX | BTEX 8021B | | <0.300 | n/a | n/a | n/a |
| Chloride | SM4500Cl-B | | 32000 | 752 | 656 | 208 |
| GRO | TPH 8015M | | <10.0 | n/a | n/a | n/a |
| DRO | TPH 8015M | | <10.0 | n/a | n/a | n/a |
| EXT DRO | TPH 8015M | | <10.0 | n/a | n/a | n/a |

| | | Sample ID | SP5 @ SURFACE | SP5 @ 1' | SP5 @ 2' | SP5 @ 3' |
|----------------|---------------|-------------|---------------|----------|----------|----------|
| Analyte | Method | Date | 7/19/18 | 7/19/18 | 7/19/18 | 7/19/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg |
| Chloride | SM4500Cl-B | | 33600 | 720 | 544 | 160 |

| | | Sample ID | SP6 @ SURFACE | SP6 @ 1' | SP6 @ 2' | SP6 @ 3' | SP6 @ 4' | SP6 @ 5' |
|----------------|---------------|-------------|---------------|----------|----------|----------|----------|----------|
| Analyte | Method | Date | 7/19/18 | 7/19/18 | 7/19/18 | 7/19/18 | 7/19/18 | 7/19/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Chloride | SM4500Cl-B | | 29600 | 640 | 1540 | 1420 | 560 | 224 |

| | | Sample ID | SP7 @ SURFACE | SP7 @ 1' | SP7 @ 3' | SP7 @ 4' | SP7 @ 7' | SP7 @ 8' |
|----------------|---------------|-------------|---------------|----------|----------|----------|----------|----------|
| Analyte | Method | Date | 7/19/18 | 7/19/18 | 7/19/18 | 7/19/18 | 7/19/18 | 7/19/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Chloride | SM4500Cl-B | | 8800 | 4160 | 960 | 960 | 496 | 128 |

| | | Sample ID | SP8 @ SURFACE | SP8 @ 1' | SP8 @ 5' | SP8 @ 9' | SP8 @ 13' |
|----------------|---------------|-------------|---------------|----------|----------|----------|-----------|
| Analyte | Method | Date | 7/19/18 | 7/19/18 | 7/20/18 | 7/20/18 | 7/20/18 |
| | | | 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 |
| Total BTEX | BTEX 8021B | | <0.300 | n/a | n/a | n/a | n/a |
| Chloride | SM4500Cl-B | | 7600 | 4560 | 9600 | 7600 | 6000 |
| 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 |
| EXT DRO | TPH 8015M | | <10.0 | n/a | n/a | n/a | n/a |

| | | Sample ID | SP9 @ SURFACE | SP9 @ 1' | SP9 @ 2' | SP9 @ 3' | SP9 @ 4' |
|----------------|---------------|-------------|---------------|----------|----------|----------|----------|
| Analyte | Method | Date | 7/20/18 | 7/20/18 | 7/20/18 | 7/20/18 | 7/20/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Chloride | SM4500Cl-B | | 44800 | 3240 | 1710 | 432 | 128 |

| | | Sample ID | NORTH @ SURFACE | EAST @ SURFACE | WEST @ SURFACE | SOUTH @ SURFACE |
|----------------|---------------|-------------|-----------------|----------------|----------------|-----------------|
| Analyte | Method | Date | 7/20/18 | 7/20/18 | 7/20/18 | 7/20/18 |
| | | | mg/kg | mg/kg | mg/kg | mg/kg |
| Chloride | SM4500Cl-B | | 160 | 160 | 160 | 192 |



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

July 30, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: COPPERHEAD FEE A #3H

Enclosed are the results of analyses for samples received by the laboratory on 07/24/18 12:40.

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.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------|---------------------|----------------|
| Received: | 07/24/2018 | Sampling Date: | 07/18/2018 |
| Reported: | 07/30/2018 | Sampling Type: | Soil |
| Project Name: | COPPERHEAD FEE A #3H | Sampling Condition: | Cool & Intact |
| Project Number: | (5/14/18) | Sample Received By: | Tamara Oldaker |
| Project Location: | COG | | |

Sample ID: SP 1 @ SURFACE (H802015-01)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.83 | 91.5 | 2.00 | 5.32 | | |
| Toluene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.87 | 93.5 | 2.00 | 6.73 | | |
| Ethylbenzene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.90 | 95.0 | 2.00 | 6.51 | | |
| Total Xylenes* | <0.150 | 0.150 | 07/27/2018 | ND | 5.56 | 92.7 | 6.00 | 5.88 | | |
| Total BTEX | <0.300 | 0.300 | 07/27/2018 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 4320 | 16.0 | 07/27/2018 | ND | 432 | 108 | 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 | 07/26/2018 | ND | 182 | 91.2 | 200 | 2.04 | | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/26/2018 | ND | 192 | 95.9 | 200 | 2.78 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/26/2018 | ND | | | | | | |

Surrogate: 1-Chlorooctane 91.0 % 41-142

Surrogate: 1-Chlorooctadecane 93.1 % 37.6-147

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 whatsoever 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, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------|---------------------|----------------|
| Received: | 07/24/2018 | Sampling Date: | 07/18/2018 |
| Reported: | 07/30/2018 | Sampling Type: | Soil |
| Project Name: | COPPERHEAD FEE A #3H | Sampling Condition: | Cool & Intact |
| Project Number: | (5/14/18) | Sample Received By: | Tamara Oldaker |
| Project Location: | COG | | |

Sample ID: SP 1 @ 1' (H802015-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 608 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 1 @ 2' (H802015-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 272 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 1 @ 3' (H802015-04)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 2 @ SURFACE (H802015-05)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4720 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 2 @ 1' (H802015-06)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 512 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

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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: | 07/24/2018 | Sampling Date: | 07/18/2018 |
| Reported: | 07/30/2018 | Sampling Type: | Soil |
| Project Name: | COPPERHEAD FEE A #3H | Sampling Condition: | Cool & Intact |
| Project Number: | (5/14/18) | Sample Received By: | Tamara Oldaker |
| Project Location: | COG | | |

Sample ID: SP 2 @ 2' (H802015-07)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 2 @ 3' (H802015-08)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 240 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 3 @ SURFACE (H802015-09)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3760 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 3 @ 1' (H802015-10)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 608 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 3 @ 2' (H802015-11)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 272 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

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

| | | | |
|-------------------|----------------------|---------------------|----------------|
| Received: | 07/24/2018 | Sampling Date: | 07/18/2018 |
| Reported: | 07/30/2018 | Sampling Type: | Soil |
| Project Name: | COPPERHEAD FEE A #3H | Sampling Condition: | Cool & Intact |
| Project Number: | (5/14/18) | Sample Received By: | Tamara Oldaker |
| Project Location: | COG | | |

Sample ID: SP 3 @ 3' (H802015-12)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 256 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

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Fax To: (575) 397-0397

| | | | |
|-------------------|----------------------|---------------------|----------------|
| Received: | 07/24/2018 | Sampling Date: | 07/18/2018 |
| Reported: | 07/30/2018 | Sampling Type: | Soil |
| Project Name: | COPPERHEAD FEE A #3H | Sampling Condition: | Cool & Intact |
| Project Number: | (5/14/18) | Sample Received By: | Tamara Oldaker |
| Project Location: | COG | | |

Sample ID: SP 4 @ SURFACE (H802015-13)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.83 | 91.5 | 2.00 | 5.32 | | |
| Toluene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.87 | 93.5 | 2.00 | 6.73 | | |
| Ethylbenzene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.90 | 95.0 | 2.00 | 6.51 | | |
| Total Xylenes* | <0.150 | 0.150 | 07/27/2018 | ND | 5.56 | 92.7 | 6.00 | 5.88 | | |
| Total BTEX | <0.300 | 0.300 | 07/27/2018 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32000 | 16.0 | 07/27/2018 | ND | 432 | 108 | 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 | 07/26/2018 | ND | 182 | 91.2 | 200 | 2.04 | | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/26/2018 | ND | 192 | 95.9 | 200 | 2.78 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/26/2018 | ND | | | | | | |

Surrogate: 1-Chlorooctane 92.7 % 41-142

Surrogate: 1-Chlorooctadecane 96.0 % 37.6-147

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| | | | |
|-------------------|----------------------|---------------------|----------------|
| Received: | 07/24/2018 | Sampling Date: | 07/19/2018 |
| Reported: | 07/30/2018 | Sampling Type: | Soil |
| Project Name: | COPPERHEAD FEE A #3H | Sampling Condition: | Cool & Intact |
| Project Number: | (5/14/18) | Sample Received By: | Tamara Oldaker |
| Project Location: | COG | | |

Sample ID: SP 4 @ 1' (H802015-14)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 752 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 4 @ 2' (H802015-15)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 656 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 4 @ 3' (H802015-16)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 208 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 5 @ SURFACE (H802015-17)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 33600 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 5 @ 1' (H802015-18)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 720 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

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| | | | |
|-------------------|----------------------|---------------------|----------------|
| Received: | 07/24/2018 | Sampling Date: | 07/19/2018 |
| Reported: | 07/30/2018 | Sampling Type: | Soil |
| Project Name: | COPPERHEAD FEE A #3H | Sampling Condition: | Cool & Intact |
| Project Number: | (5/14/18) | Sample Received By: | Tamara Oldaker |
| Project Location: | COG | | |

Sample ID: SP 5 @ 2' (H802015-19)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 544 | 16.0 | 07/27/2018 | ND | 432 | 108 | 400 | 7.69 | |

Sample ID: SP 5 @ 3' (H802015-20)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 6 @ SURFACE (H802015-21)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 29600 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 6 @ 1' (H802015-22)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 640 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 6 @ 2' (H802015-23)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1540 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

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| | | | |
|-------------------|----------------------|---------------------|----------------|
| Received: | 07/24/2018 | Sampling Date: | 07/19/2018 |
| Reported: | 07/30/2018 | Sampling Type: | Soil |
| Project Name: | COPPERHEAD FEE A #3H | Sampling Condition: | Cool & Intact |
| Project Number: | (5/14/18) | Sample Received By: | Tamara Oldaker |
| Project Location: | COG | | |

Sample ID: SP 6 @ 3' (H802015-24)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1420 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 6 @ 4' (H802015-25)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 560 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 6 @ 5' (H802015-26)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 7 @ SURFACE (H802015-27)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8800 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 7 @ 1' (H802015-28)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4160 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

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| | | | |
|-------------------|----------------------|---------------------|----------------|
| Received: | 07/24/2018 | Sampling Date: | 07/19/2018 |
| Reported: | 07/30/2018 | Sampling Type: | Soil |
| Project Name: | COPPERHEAD FEE A #3H | Sampling Condition: | Cool & Intact |
| Project Number: | (5/14/18) | Sample Received By: | Tamara Oldaker |
| Project Location: | COG | | |

Sample ID: SP 7 @ 3' (H802015-29)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 960 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 7 @ 4' (H802015-30)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 960 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 7 @ 7' (H802015-31)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 496 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 7 @ 8' (H802015-32)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 128 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

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| | | | |
|-------------------|----------------------|---------------------|----------------|
| Received: | 07/24/2018 | Sampling Date: | 07/19/2018 |
| Reported: | 07/30/2018 | Sampling Type: | Soil |
| Project Name: | COPPERHEAD FEE A #3H | Sampling Condition: | Cool & Intact |
| Project Number: | (5/14/18) | Sample Received By: | Tamara Oldaker |
| Project Location: | COG | | |

Sample ID: SP 8 @ SURFACE (H802015-33)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.83 | 91.5 | 2.00 | 5.32 | |
| Toluene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.87 | 93.5 | 2.00 | 6.73 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/27/2018 | ND | 1.90 | 95.0 | 2.00 | 6.51 | |
| Total Xylenes* | <0.150 | 0.150 | 07/27/2018 | ND | 5.56 | 92.7 | 6.00 | 5.88 | |
| Total BTEX | <0.300 | 0.300 | 07/27/2018 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7600 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

| 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 | 07/26/2018 | ND | 182 | 91.2 | 200 | 2.04 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/26/2018 | ND | 192 | 95.9 | 200 | 2.78 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/26/2018 | ND | | | | | |

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 96.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------|---------------------|----------------|
| Received: | 07/24/2018 | Sampling Date: | 07/19/2018 |
| Reported: | 07/30/2018 | Sampling Type: | Soil |
| Project Name: | COPPERHEAD FEE A #3H | Sampling Condition: | Cool & Intact |
| Project Number: | (5/14/18) | Sample Received By: | Tamara Oldaker |
| Project Location: | COG | | |

Sample ID: SP 8 @ 1' (H802015-34)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4560 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 8 @ 5' (H802015-35)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 9600 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 8 @ 9' (H802015-36)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7600 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 8 @ 13' (H802015-37)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6000 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 8 @ 16' (H802015-38)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5440 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

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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: | 07/24/2018 | Sampling Date: | 07/20/2018 |
| Reported: | 07/30/2018 | Sampling Type: | Soil |
| Project Name: | COPPERHEAD FEE A #3H | Sampling Condition: | Cool & Intact |
| Project Number: | (5/14/18) | Sample Received By: | Tamara Oldaker |
| Project Location: | COG | | |

Sample ID: SP 9 @ SURFACE (H802015-39)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 44800 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 9 @ 1' (H802015-40)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3240 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 9 @ 2' (H802015-41)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1710 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 9 @ 3' (H802015-42)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 432 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SP 9 @ 4' (H802015-43)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 128 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|----------------------|---------------------|----------------|
| Received: | 07/24/2018 | Sampling Date: | 07/20/2018 |
| Reported: | 07/30/2018 | Sampling Type: | Soil |
| Project Name: | COPPERHEAD FEE A #3H | Sampling Condition: | Cool & Intact |
| Project Number: | (5/14/18) | Sample Received By: | Tamara Oldaker |
| Project Location: | COG | | |

Sample ID: NORTH SURFACE (H802015-44)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: EAST SURFACE (H802015-45)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: WEST SURFACE (H802015-46)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: SOUTH SURFACE (H802015-47)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 192 | 16.0 | 07/27/2018 | ND | 416 | 104 | 400 | 3.77 | |

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: BBC International, Inc.
Project Manager: Cliff Brunson
Address: P.O. Box 805
City: Hobbs State: NM Zip: 88241
Phone #: 575-397-6388 Fax #: 575-397-0397
Project #: Project Owner:
Project Name: Copperhead Fee A #3H - 5-14-18
Project Location:
Sampler Name: Jeff Ornelas

BILL TO

ANALYSIS REQUEST

Table with columns: Lab I.D., Sample I.D., (GRAB OR (C)OMP. # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE/COOL, OTHER), SAMPLING (DATE, TIME). Includes handwritten entries for samples 11-20 and analysis notes like 'Chlorides', 'BT EX, TPH extended'.

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Relinquished By: Jeff Ornelas Date: 7/20/18
Received By: [Signature]
Relinquished By: [Signature] Date: 7-24-18
Received By: [Signature]
Delivered By: (Circle One) -5.8C
Sample Condition Cool Intact
Checked By: [Signature]

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



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. | | | | BILL TO | | | | ANALYSIS REQUEST | | | | | | | | | | | | | |
|---------------------------------------|---------------|------------------------------|-------------|----------------|------|-------|--------|--|------------|------------|----------|----------|------|---|--|--|--|--|--|--|--|
| Project Manager: Cliff Brunson | | | | P.O. #: | | | | <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 2em; margin-right: 10px;">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 1.5em; margin-right: 10px;">BTEX, TPH extended</div> </div> | | | | | | | | | | | | | |
| Address: P.O. Box 805 | | | | Company: | | | | | | | | | | | | | | | | | |
| City: Hobbs | | State: NM | | Zip: 88241 | | Attn: | | | | | | | | | | | | | | | |
| Phone #: 575-397-6388 | | Fax #: 575-397-0397 | | Address: | | | | | | | | | | | | | | | | | |
| Project #: | | Project Owner: | | City: | | | | | | | | | | | | | | | | | |
| Project Name: Copperhead Fee A #3H | | 5-14-18 | | State: | | Zip: | | | | | | | | | | | | | | | |
| Project Location: | | | | Phone #: | | | | | | | | | | | | | | | | | |
| Sampler Name: Jeff Ornelas | | | | Fax #: | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | (GRAB OR (COMP. # CONTAINERS | MATRIX | | | | | PRESERV. | | | SAMPLING | | | | | | | | | | |
| | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | ACID/BASE: | ICE / COOL | OTHER: | DATE | TIME | | | | | | | | |
| 41802015 | | | | | | | | | | | | | | | | | | | | | |
| 31 | SP7 @ 7' | G | | | ✓ | | | | ✓ | | 7-19-18 | 2:58 pm | ✓ | | | | | | | | |
| 32 | SP7 @ 8' | G | | | ✓ | | | | ✓ | | 7-19-18 | 3:11 pm | ✓ | | | | | | | | |
| 33 | SP8 @ Surface | G | | | ✓ | | | | ✓ | | 7-19-18 | 3:12 pm | ✓ | ✓ | | | | | | | |
| 34 | SP8 @ 1' | G | | | ✓ | | | | ✓ | | 7-19-18 | 3:15 pm | ✓ | | | | | | | | |
| 35 | SP8 @ 5' | G | | | ✓ | | | | ✓ | | 7-20-18 | 9:27 am | ✓ | | | | | | | | |
| 36 | SP8 @ 9' | G | | | ✓ | | | | ✓ | | 7-20-18 | 10:27 am | ✓ | | | | | | | | |
| 37 | SP8 @ 13' | G | | | ✓ | | | | ✓ | | 7-20-18 | 11:29 am | ✓ | | | | | | | | |
| 38 | SP8 @ 16' | G | | | ✓ | | | | ✓ | | 7-20-18 | 12:12 pm | ✓ | | | | | | | | |
| 39 | SP9 @ Surface | G | | | ✓ | | | | ✓ | | 7-20-18 | 12:40 pm | ✓ | | | | | | | | |
| 40 | SP9 @ 1' | G | | | ✓ | | | | ✓ | | 7-20-18 | 12:41 pm | ✓ | | | | | | | | |

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| | | | | |
|---|---------------|-------------------------------|--|----------------|
| Relinquished By: Jeff Ornelas | Date: 7/20/18 | Received By: [Signature] | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Phone #: |
| Relinquished By: [Signature] | Date: 7-24-18 | Received By: [Signature] | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Fax #: |
| Delivered By: (Circle One) -5.8e | Time: 12:40 | Sample Condition: Cool Intact | REMARKS: | |
| Sampler - UPS - Bus - Other: Corrected -5.85e | Time: 12:40 | Checked By: [Signature] | | |

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

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

| | |
|--|----------------------------|
| Name of Company: COG Production, LLC (OGRID #217955) | Contact: Robert McNeill |
| Address: 600 West Illinois Avenue, Midland, TX 79701 | Telephone No. 432-683-7443 |
| Facility Name: Copperhead Fee A #003H | Facility Type: Flowline |

| | | |
|------------------------|------------------------|----------------------|
| Surface Owner: Private | Mineral Owner: Private | API No. 30-015-42327 |
|------------------------|------------------------|----------------------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| E | 31 | 26S | 29E | 415 | South | 990 | West | Eddy |

Latitude 32.0012321 Longitude -104.0292206 NAD83

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release Produced Water | Volume of Release 122 bbl. | Volume Recovered 10 bbl. |
| Source of Release: Flowline Leak | Date and Hour of Occurrence May 14, 2018 10:40am | Date and Hour of Discovery May 14, 2018 10:40am |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Mike Bratcher - NMOCD Crystal Weaver - NMOCD | |
| By Whom? Sheldon Hitchcock | Date and Hour May 14, 2018 2:08pm | |
| 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.*

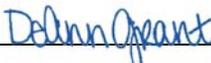
Describe Cause of Problem and Remedial Action Taken.*

The release was caused by the flowline blowing out at the transition. The transition is being repaired or replaced.

Describe Area Affected and Cleanup Action Taken.*

The release was in the pasture. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant 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 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: DeAnn Grant | Approved by Environmental Specialist: | |
| Title: HSE Administrative Assistant | Approval Date: | Expiration Date: |
| E-mail Address: agrant@concho.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: May 15, 2018 Phone: 432-253-4513 | | |

* Attach Additional Sheets If Necessary

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 163319

CONDITIONS

| | |
|--|--|
| Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701 | OGRID: 217955 |
| | Action Number: 163319 |
| | Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| bhall | None | 12/2/2022 |