Closure Report

NM OIL CONSERVATION

ARTESIA DISTRICT

JUL 2 2 2014

| | Site Description RECEIVED |
|--------------------|-------------------------------|
| Site Name: | Patton 17 Federal #6 |
| Company: | Oxy Permian Ltd. |
| Legal Description: | U/L N, Section 17, T24S, R31E |
| County: | Eddy County, NM |
| GPS Coordinates: | N 32.21086° W 103.80261° |

| ALL REALS | Release Data |
|--------------------|-------------------------------------|
| Date of Release: | 01/07/2014 |
| Type of Release: | Skim oil and produced water |
| Source of Release: | Stuffing box leak on well head |
| Volume of Release: | 1 bbl oil and 8 bbls produced water |
| Volume Recovered: | 0 bbls |

| Alian manus | Remediati | on Specifications | | | | | |
|----------------------------|--|--|--|--|--|--|--|
| Remediation Parameters: | | | | | | | |
| | | | | | | | |
| Remediation Activities: | 06/23/2014 to | 06/26/2014 | | | | | |
| | | | | | | | |
| Plan Sent to OCD: | 04/01/2014 | Meeting between M. Bratcher & C. Brunson | | | | | |
| OCD Approval of Plan: | val of Plan: 04/01/2014 Maating between M. Bratcher & C. Brunson | | | | | | |

| 04/01/2014 | Meeting between M. Braterier & C. Bransen |
|------------|---|
| 04/01/2014 | Meeting between M. Bratcher & C. Brunson |
| 04/21/2014 | Email from Cliff Brunson to J. Van Curen |
| 04/22/2014 | Email from J. Van Curen to Cliff Brunson |
| | 04/01/2014 04/21/2014 |

| Saint Maria | Supporting Documentation |
|------------------|--|
| Initial C-141 | Signed 01/15/2014 |
| Final C-141 | Signed 07/10/2014 |
| Site Diagram | January 2014 |
| Groundwater Plot | 175' |
| TOPO Maps | January 2014 |
| Lab Summary | 02/14/14 to 02/17/14 |
| Lab Analysis | 02/14/14 to 02/17/14 |
| Correspondence | Request and approval of remediation plan via email |

Request for Closure

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

Cliff Brunson, President of BBC International Inc.

07/16/2014

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

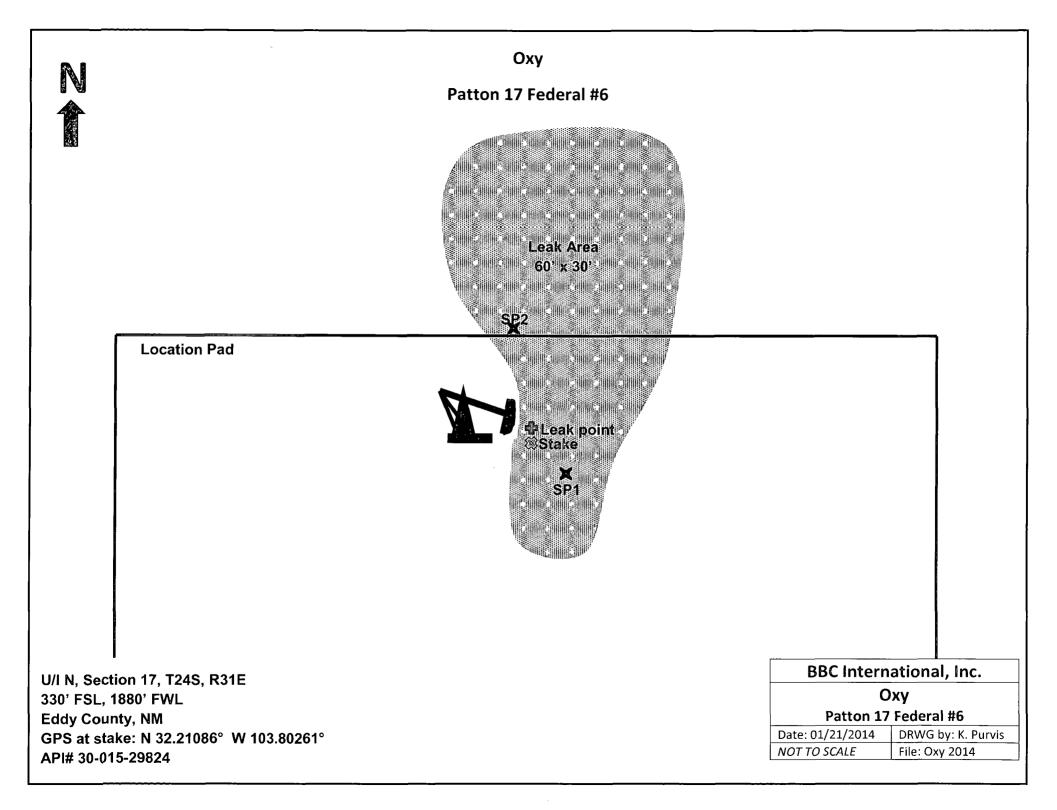
| | Release Notification and Corrective Action | | | | | | | | | | | |
|--|--|----------------------------|-------------|------------------------|---------------|--|-------------------------|--------------------------------|-------------------|-----------------------------|-------------|-------------|
| | | | | | | | | | | | Final Repor | |
| Name of Co Address | | Oxy Permia tanolind Rd, | | TNA DOJAN | | Contact Chancey Summers | | | | | | |
| Facility Na | | on 17 Federa | | NIVI 88240 | | Telephone I Facility Typ | | | _ | | | |
| ha | | | | 134 | | | | | DT NT. | 20.016 | 0000 | |
| Surface Ow | mer BLM | <u>VI</u> | | Mineral C | Jwner | | | A | PI No | . 30-015 | -2982 | .4 |
| | | T | | | | N OF REI | ······ | | | | | |
| Unit Letter | Section | Township | Range | Feet from the | North | /South Line | Feet from the | East/West | Line | County | | |
| N | 17 | 24S | 31E | 330 | | South | 1800 | West | - | Eddy Cou | nty, N | M |
| | | | 3 | Latitude <u>N 32.2</u> | <u>21083°</u> | Longitu | de <u>W 103.8013</u> | <u>0°</u> | | | | |
| | | | | NAT | TIRE | OF REL | | | | | | |
| Type of Rele | ase Skim | oil and Produ | iced water | | | Volume of | Release | | lume F | Recovered | ···· | |
| Source of Re | 10070 541 | ffing box on v | well hand | | | | bbls produced w | | | Hour of Dis | | |
| Source of Re | lease Siu | thing box on v | wen nead i | eaked | | 01/07/2014 | lour of Occurrenc | | te and | Hour of Dis | cover | У |
| Was Immedi | ate Notice (| | Yes [|] No 🔲 Not Re | equired | If YES, To Mike Brate | Whom? cher-NMOCD; Je | nnifer Van C | uren- | BLM | _ | |
| By Whom? | | | | | | Date and Hour 01/08/2014 @ 10:15 am | | | | | | |
| Was a Water | course Read | ched? | Yes 🛛 | No | | If YES, Volume Impacting the Watercourse. NM OIL CONSERVATION | | | | | | |
| If a Watercon | irse was Im | pacted, Descr | ibe Fully.' | | | | | | | ARTESIA (| | |
| | | [| | | | | | | | JUL 2 | 2 20 | 14 |
| | | | | | | | | | | ~ | | ••• |
| | | | | | | | | | _ | RECE | IVE |) |
| Describe Cau | ise of Proble | em and Reme | dial Action | 1 Taken.* | | | | | | | | |
| The stuffing was resolved | | well head leak | ed 1 bbl o | f oil and 8 bbls of | f produc | ed water onto | the ground. No i | fluids were re | ecover | ed and the s | tuffin | g box issue |
| | | | | | | | | | | | | |
| Describe Are | a Affected a | and Cleanup A | Action Tak | en.* | | | | | | | | |
| The affected | area is appr | oximately 25' | x 25' on | location. Remedi | iation wi | ill be complete | ed in accordance | with a remed | liation | plan approv | ed by | NMOCD and |
| the BLM. | | | | | | - | | | | | • | |
| I hereby certi | fy that the i | nformation gi | ven above | is true and comp | lete to the | he best of my | knowledge and u | nderstand the | at purs | uant to NM | OCD | rules and |
| regulations al | l operators | are required to | o report an | d/or file certain r | elease n | otifications ar | id perform correc | tive actions t | for rele | eases which | may e | endanger |
| should their c | perations h | ave failed to a | acceptance | e of a C-141 repo | emediat | e contaminatio | on that pose a three | eport" does r eat to ground | lot reii water | eve me oper , surface wa | ter. h | uman health |
| or the enviror | nment. In a | ddition, NMO |)GD_accep | tance of a C-141 | report d | oes not relieve | e the operator of r | responsibility | for co | ompliance w | ith an | y other |
| federal, state, or local laws and/or regulations. | | | | | | OIL CONS | SEDVAT | ION | DIVISIO | <u>NI</u> | | |
| | | | | | | <u>OIL COM</u> | <u>SERVAT</u> | | <u>DI VISIC</u> | <u>11</u> | | |
| Signature: | | | | | | | | | | | | |
| Printed Name | Printed Name: Chancey Summers | | | | Approved by | Environmental St | pecialist: | | | | | |
| <u>Title:</u> HES | Specialist | | | | | Approval Dat | e: | Expir | ation I | Date: | - 140 | |
| E-mail Addre | ss: <u>Chan</u> e | cey.Summers(| @oxy.com | Ļ | | Conditions of | Approval; | | | Attached | | |
| Date: - 5 - (9 Phone: (575) 397-8216 | | | | | | | | | - | | | |

* Attach Additional Sheets If Necessary

Oil Conservation Division 1220 South St. Francis Dr.

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

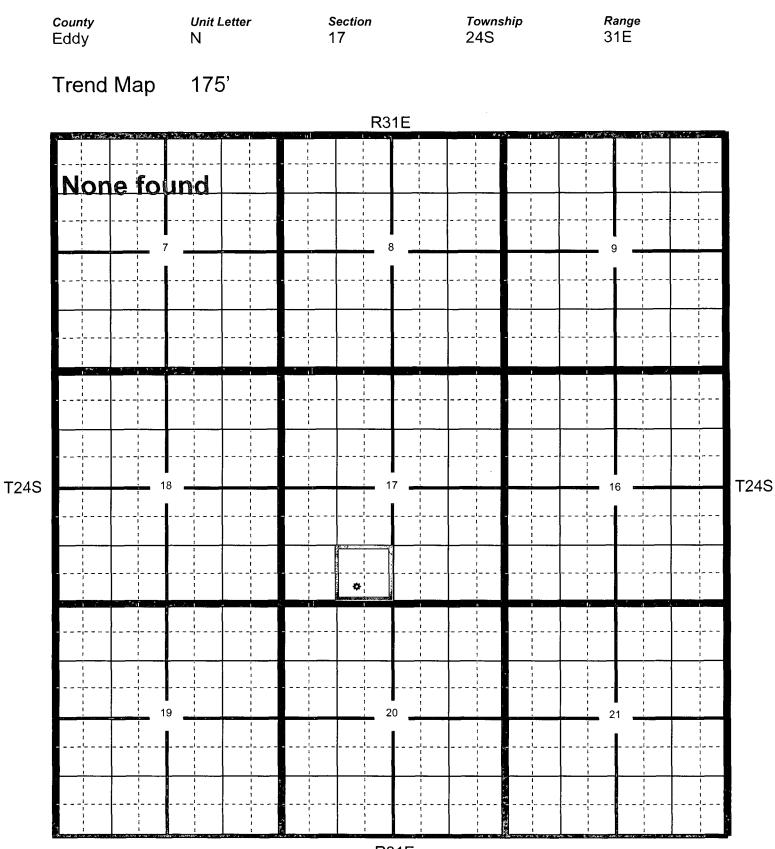
| 1220 S. St. Francis Dr., Santa Fe, NN 87505 Santa | Fe, NM 875 | 05 | | | | | |
|--|--------------------------|--|-----------------------|---------------|--------------------|--|--|
| Release Notification and Corrective Action | | | | | | | |
| OPERATOR Initial Report S Final Report | | | | | | | |
| Name of Company Oxy Permian Ltd. | | Chancey Summe | rs | · · · · · · | | | |
| Address 1017 W. Stanolind Rd, Hobbs, NM 88240 | Telephone 1 | | | | | | |
| Facility Name Patton 17 Federal #6 | Facility Typ | e Well locati | on | | | | |
| Surface Owner BLM Mineral Owne | r | | API No | . 30-015- | 29824 | | |
| LOCATI | ON OF REI | LEASE | | | | | |
| | rth/South Line | Feet from the | East/West Line | County | | | |
| N 17 24S 31E 330 | South | 1800 | West | Eddy Cour | ntv NM | | |
| | | | | Lucy cour | | | |
| Latitude <u>N 32.21083</u> | | de <u>W 103.8013</u> | <u>0-</u> | | | | |
| | E OF REL | | | | | | |
| Type of Release Skim oil and Produced water | Volume of | Release bbls produced w | | Recovered | | | |
| Source of Release Stuffing box on well head leaked | Date and H | our of Occurrence | e Date and | Hour of Disc | covery | | |
| Was Immediate Notice Given? | 01/07/2014 If YES, To | | | | | | |
| Yes ☐ No ☐ Not Require | | | nnifer Van Curen- | BLM | | | |
| By Whom? Kathy Purvis | Date and H | our 01/08/201 | 4@10:15 am | | | | |
| Was a Watercourse Reached? | If YES, Vo | lume Impacting t | | | | | |
| Yes X No | | | | ARTESIA DI | ERVATION | | |
| If a Watercourse was Impacted, Describe Fully.* | | | , | | | | |
| | | | | JUL 22 | 2014 | | |
| | | | | | | | |
| Describe Cause of Problem and Remedial Action Taken.* | | | | RECEI | /ED | | |
| | 1 | | a | | | | |
| The stuffing box on the well head leaked 1 bbl of oil and 8 bbls of prod was resolved. | uced water onto | the ground. No | fluids were recover | ed and the st | uffing box issue | | |
| | | ······································ | · | | | | |
| Describe Area Affected and Cleanup Action Taken.* | | | | | | | |
| The affected area is approximately 25' x 25' on location. Remediation | was completed | n accordance wit | h the remediation p | olan approve | d by Mike Bratcher | | |
| of NMOCD on 04/01/2014 and approved by Jennifer Van Curen of the | BLM via email | on 4/22/2014. | | | | | |
| I hereby certify that the information given above is true and complete to | the best of my | knowledge and u | nderstand that purs | uant to NMC | DCD rules and | | |
| regulations all operators are required to report and/or file certain release | e notifications ar | d perform correc | tive actions for relo | eases which | may endanger | | |
| public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remedi | iate contaminati | on that pose a three | eat to ground water | , surface wat | ter, human health | | |
| or the environment. In addition, NMOCD acceptance of a C-141 report | t does not reliev | e the operator of 1 | responsibility for co | ompliance w | ith any other | | |
| federal, state, or local laws and/or regulations. | | OIL CONS | SERVATION | DIVISIO | N | | |
| OIL CONSERVATION DIVISION | | | | | | | |
| Signature: | | | | | | | |
| Printed Name: Chancey Summers Approved by Environmental Specialist: | | | | | | | |
| Title: HES Specialist | Approval Dat | | Exercise time 1 | Data | | | |
| | Approval Dat | <u>v.</u> | Expiration 1 | | | | |
| E-mail Address: Chancey.Summers@oxy.com | Conditions of | Approval: | | Attached | | | |
| Date: 7-10-14 Phone: (575) 397-8216 | | | | | - | | |
| Attach Additional Sheets If Necessary | L | | | J | | | |





Groundwater Plot

Oxy Patton 17 Federal #6

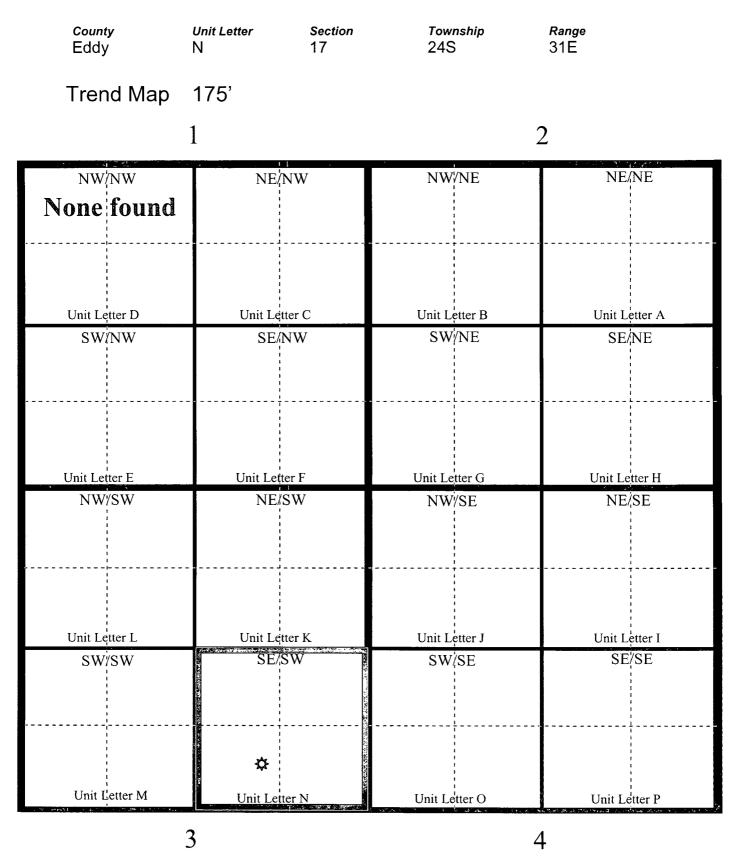


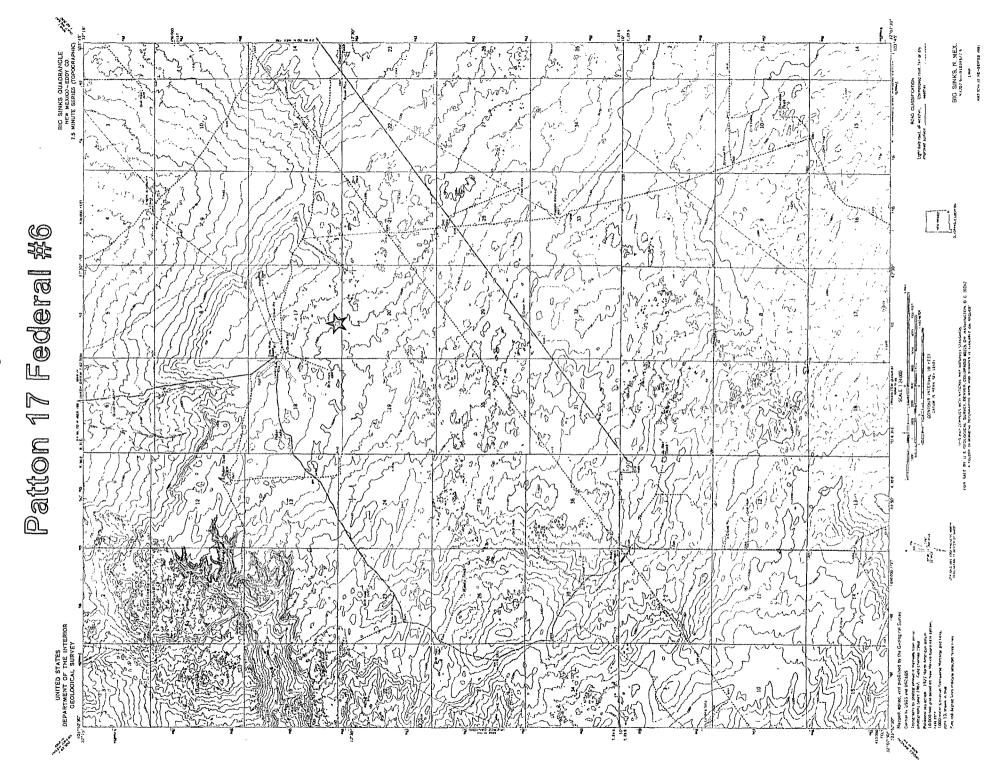
R31E



Section Quarters

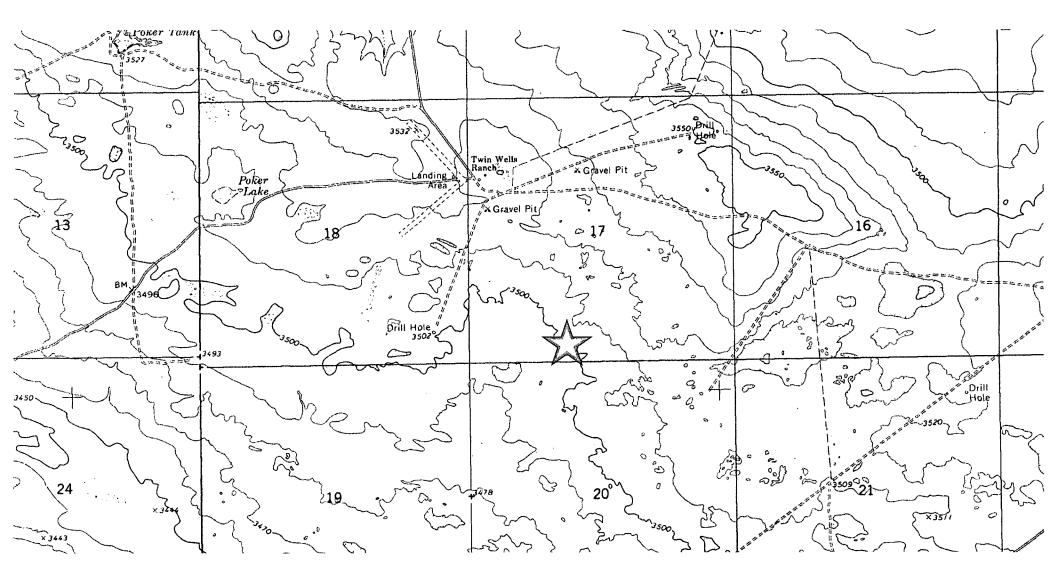
Oxy Patton 17 Federal #6





Oxy

Oxy Patton 17 Federal #6



Laboratory Analytical Results Summary Patton 17 Federal #6

| | | Sample | SP1 @ 1' | SP1 @ 3' | SP1 @ 5' | SP1 @ 8' | SP1 @ 11' |
|---------------|------------|--------|----------|----------|----------|----------|-----------|
| Analyte | Method | Date | 2/14/14 | 2/14/14 | 2/14/14 | 2/14/14 | 2/17/14 |
| | | | mg/Kg | ing/Kg | mg/Kg | mg/Kg | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 | < 0.050 | n/a | n/a | n/a |
| Toluene | BTEX 8021B | | < 0.050 | <0.050 | n/a | n/a | n/a |
| Ethylbenzene | BTEX 8021B | | <0.050 | <0.050 | n/a | n/a | n/a |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 | n/a | n/a | n/a |
| Total BTEX | BTEX 8021B | | < 0.300 | < 0.300 | n/a | n/a | n/a |
| Chloride | SM4500CI-B | | 752 | 624 | 1120 | 912 | 800 |
| GRO | TPH 8015M | | <10.0 | <10.0 | n/a | n/a | n/a |
| DRO | TPH 8015M | | 92.3 | 19.2 | n/a | n/a | n/a |
| | | | | | | | |
| | 1 | | | | 18.45 | | |

| | | Sample | SP2 @ 1' | SP2 @ 2' | SP2 @ 3' |
|---------------|------------|--------|----------|----------|----------|
| Analyte | Method | Date | 2/17/14 | 2/17/14 | 2/17/14 |
| | | | mg/Kg | mg/Kg | mg/Kg |
| Benzene | BTEX 8021B | | < 0.050 | n/a | <0.050 |
| Toluene | BTEX 8021B | | <0.050 | n/a | <0.050 |
| Ethylbenzene | BTEX 8021B | | < 0.050 | n/a | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 | n/a | <0.150 |
| Total BTEX | BTEX 8021B | | < 0.300 | n/a | < 0.300 |
| Chloride | SM4500CI-B | | 16 | <16.0 | 48 |
| GRO | TPH 8015M | | <10.0 | n/a | <10.0 |
| DRO | TPH 8015M | | <10.0 | n/a | <10.0 |



February 25, 2014

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

RE: PATTON 17 FED #6

Enclosed are the results of analyses for samples received by the laboratory on 02/17/14 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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.qov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/qa/lab accredited 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) |

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,

Celeg D. Keine

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: | 02/17/2014 | Sampling Date: | 02/14/2014 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 02/25/2014 | Sampling Type: | Soil |
| Project Name: | PATTON 17 FED #6 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | TWIN WELLS ROAD | | |

Sample ID: SP 1 @ 1' (H400475-01)

| BTEX 8260B | mg/ | 'kg | Analyze | d By: MS | | | | | |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.05 | 103 | 2.00 | 6.46 | |
| Toluene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.16 | 108 | 2.00 | 4.76 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.04 | 102 | 2.00 | 6.61 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2014 | ND | 6.20 | 103 | 6.00 | 7.13 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2014 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 96.6 | % 61.3-14 | 2 | | | | | | |
| Surrogate: Toluene-d8 | 104 | 71.3-12 | 9 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 103 | 65.7-14 | 1 | | | | | | |
| Chloride, SM4500Cl-B | mg, | 'kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 752 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 02/19/2014 | ND | 200 | 100 | 200 | 5.07 | |
| DR0 >C10-C28 | 92.3 | 10.0 | 02/19/2014 | ND | 192 | 96.2 | 200 | 7.57 | |
| Surrogate: 1-Chlorooctane | 105 | 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 110 9 | 63.6-15 | 4 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey Di Kune

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: | 02/17/2014 | Sampling Date: | 02/14/2014 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 02/25/2014 | Sampling Type: | Soil |
| Project Name: | PATTON 17 FED #6 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | TWIN WELLS ROAD | | |

Sample ID: SP 1 @ 3' (H400475-02)

| BTEX 8260B | mg/ | kg | Analyze | d By: MS | | | | | |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.05 | 103 | 2.00 | 6.46 | |
| Toluene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.16 | 108 | 2.00 | 4.76 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.04 | 102 | 2.00 | 6.61 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2014 | ND | 6.20 | 103 | 6.00 | 7.13 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2014 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 98.8 | % 61.3-14 | 2 | | | | | | |
| Surrogate: Toluene-d8 | 103 9 | % 71.3-12 | 9 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 101 9 | 65.7-14 | I | | | | | | |
| Chloride, SM4500Cl-B | mg/ | 'kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 624 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 02/19/2014 | ND | 200 | 100 | 200 | 5.07 | |
| DRO >C10-C28 | 19.2 | 10.0 | 02/19/2014 | ND | 192 | 96.2 | 200 | 7.57 | |
| Surrogate: 1-Chlorooctane | 80.2 | % 65.2-14 | 0 | | | | ····· | | |
| Surrogate: 1-Chlorooctadecane | 86.7 | 63.6-15 | 4 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey Di Kune

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: | 02/17/2014 | Sampling Date: | 02/14/2014 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 02/25/2014 | Sampling Type: | Soil |
| Project Name: | PATTON 17 FED #6 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | TWIN WELLS ROAD | | |

Sample ID: SP 1 @ 5' (H400475-03)

| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AP | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1120 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP 1 @ 8' (H400475-04)

| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 912 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP 1 @ 11' (H400475-05)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 800 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kune

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: | 02/17/2014 | Sampling Date: | 02/17/2014 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 02/25/2014 | Sampling Type: | Soil |
| Project Name: | PATTON 17 FED #6 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | TWIN WELLS ROAD | | |

Sample ID: SP 2 @ 1' (H400475-06)

| BTEX 8260B | mg/ | kg | Analyze | d By: MS | | | | | |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.05 | 103 | 2.00 | 6.46 | |
| Toluene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.16 | 108 | 2.00 | 4.76 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.04 | 102 | 2,00 | 6.61 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2014 | ND | 6.20 | 103 | 6.00 | 7.13 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2014 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 98.5 | % 61.3-14 | 2 | | | | | | |
| Surrogate: Toluene-d8 | 101 9 | % 71.3-12 | 9 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 96.8 | % 65.7-14 | 1 | | | | | | |
| Chloride, SM4500Cl-B | mg, | 'kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 02/19/2014 | ND | 200 | 100 | 200 | 5.07 | |
| DRO >C10-C28 | <10.0 | 10.0 | 02/19/2014 | ND | 192 | 96.2 | 200 | 7.57 | |
| Surrogate: 1-Chlorooctane | 87.7 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 94.1 | % 63.6-15 | 4 | | | | | | |

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*=Accredited Analyte

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Celey & Kune

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: | 02/17/2014 | Sampling Date: | 02/17/2014 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 02/25/2014 | Sampling Type: | Soil |
| Project Name: | PATTON 17 FED #6 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | TWIN WELLS ROAD | | |

Sample ID: SP 2 @ 2' (H400475-07)

| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AP | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |

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Celey D. Kune

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: | 02/17/2014 | Sampling Date: | 02/17/2014 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 02/25/2014 | Sampling Type: | Soil |
| Project Name: | PATTON 17 FED #6 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | TWIN WELLS ROAD | | |

Sample ID: SP 2 @ 3' (H400475-08)

| BTEX 8260B | mg | 'kg | Analyze | d By: MS | | | | | |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.05 | 103 | 2.00 | 6.46 | |
| Toluene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.16 | 108 | 2.00 | 4.76 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.04 | 102 | 2.00 | 6.61 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2014 | ND | 6.20 | 103 | 6.00 | 7.13 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2014 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 98.4 | % 61.3-14 | 2 | | | | | | |
| Surrogate: Toluene-d8 | 102 | % 71.3-12 | 9 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 104 | % 65.7-14 | 1 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 02/19/2014 | ND | 220 | 110 | 200 | 0.566 | |
| DRO >C10-C28 | <10.0 | 10.0 | 02/19/2014 | ND | 206 | 103 | 200 | 2.93 | |
| Surrogate: 1-Chlorooctane | 96.7 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 96.5 | % 63.6-15 | 4 | | | | | | |

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Celey & Kune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

| ND | Analyte NOT DETECTED at or above the reporting limit |
|-----|---|
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500CI-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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*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

| | (202) 232-2320 FMA (203) 233-241 | 0 | | | | | | | | | | | | | | | | | | | | | 6 |
|---------------------|----------------------------------|-------------------|--------------|-------------|---------------------------|------------|-----------------------|------------|--------|---------------------|------|-----|------|----------|--------|-----|--------|------|-----|----------|-----|-----|---|
| Company Name | BBC International, Inc. | | | | | والتركيلية | | | -11 | 14773 | | | | | | ANA | YSI | S RE | QUE | ST | | | • |
| Project Manage | r: Cliff Brunson | | | | • | [| P.O. #: | | | | | | · · | | | | | | | | | | |
| Address: P.O. | Box 805 | | | | | 6 | Comp | bany | :: | | 1 | | | | | • | | | | | | | |
| city: Hobbs | | Zip |): { | 3824 | 41 | 1 | Attn: | | | | | | | | ··· ·· | | 1 1 | | | | | | |
| Phone #: 575- | | | | | | | Addre | ess: | ~ | S.A.M | F | 1 | | I . | · . | | | | | | | | |
| Project #: | Project Owne | | 01 | | | - | City: | | | , - , , | | 1 | | | | | | 1 | | | | | |
| | | | Zip: | | | | | | | | | | . | | | | | | | | | | |
| Project Location | | | | | | Phone #: | | | 1. | · · | | Ì | | | | | | | | | | | |
| Sampler Name: | Pour Heri | | de | , | | Fax #: | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | Ī | Ī | | MATRIX | | | RESE | RV. | SAMPLI | NG | 1 | 1 | | | | | | | | | | |
| Lab I.D. H4CO479 | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER SOIL OIL | SLUDGE | OTHER : ACID/BASE: | ICE / COOL | OTHER: | DATE | TIME | TPH | NF | 01- | | | | | | | | - | |
| | 501@11 | Ĕ | Ī | Ĕ | | | Ť | 1 | / | 2.14.14 | 132 | V | 1. | V | | | | | | <u> </u> | I | | |
| 2 | @ 3' | 6 | 17 | | e e | | | V | ł. | 2.14.14 | 200 | | 1_ | 1 | ł | | · | | • | | | . I | |
| 3 | 5' | | 1 | | 1 | | | V | - | | 228 | | | V | | | | 1 | | | | | |
| Ц | 8' | | 1 | | | | | i | | Z:14.14 | 311 | | a de | ~ | | | | | | | | | |
| 5 | | C | 1 | • | ·V | | | 0 | Ł | 2.17.14 | 1021 | | | V | | | | | | ľ | | | |
| Ь | 5P2@1 | G | 1 | | 1 | | | V | ſ. | 2.17.14 | 1105 | ~ | 1 | 1 | | | | | | | | ĺ | |
| 7 | 2 | É | 1/ | | V | | | 1 | | 217.14 | 1170 | | L. | V | | | | | ÷., | <u> </u> | ļ | | |
| 9 | 3 | | 1 | | i | | | V | 1 | 2-17-14 | 1147 | u | V | 1 | | | · | | | | | · . | |
| | | - | | | ┟──┟──┟ | | | | | | | | | | | | | | | _ | ļ! | | |
| | | 1 | 1 | 1 | i | | | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 ' | 1 ' | |

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| atmiates of succassors ansing out of or related to the performance | I DI SEIVICES REFEURDER DY C | alumal, regalule | sa of whether such cidin is ba | ed upon any of the above staled re | daona or otherwise. | | | | | |
|--|------------------------------|------------------|--|------------------------------------|---------------------|-------|------|----------------|---|--|
| Relinguished By: | Date: | Receive | ed By: / | 1 | Phone Result: | □ Yes | □ No | Add'l Phone #: | | |
| | 52-17-14 | | $\gamma \dot{\Lambda} \cdot \dot{\Lambda}$ | | Fax Result: | □ Yes | | Add'i Fax #: | | |
| And Non | Tinhe: | | IVI VI | 10 11 A INA | REMARKS: | | | | - | |
| | I WID | | sa m | ener | | | | | | |
| Relinguished By: | Date: | Redeive | ed By: | | | | | | | |
| | | | • | | 1 | | | | | |
| | Time: | 1 | | | | | | | | |
| | | | | | | | | | | |
| Delivered By: (Circle One) | | | Sample Condition | CHECKED BY: | · · | | | | | |
| | | | Cool Intact | (In tials | | | | | | |
| Sampler - UPS - Bus - Other: | 5 | 10 | Yes Yes | | 1 | | | | | |
| | | 104 | No No. | YV' | | | | | 4 | |
| t. O il | ahanna Diasa | . Carro constat | an changes to FA | 202 24 | | | | | | |
| † Cardinal cannot accept verbal | changes. Please | i ax writt | en changes to su: | 1-323-2410 | | | | | | |

Page 9 of 9

Jennifer Gilkey

| From: | Cliff P. Brunson <cbrunson@bbcinternational.com></cbrunson@bbcinternational.com> |
|--------------|--|
| Sent: | Sunday, April 06, 2014 4:50 PM |
| То: | Mike Bratcher |
| Cc: | C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis |
| Subject: | OXY-Patton 17 Federal #6-Remediation Plan |
| Attachments: | Remediation Packet, Patton 17 Federal #6.pdf |

Mike,

This e-mail is to confirm our conversation on April 1, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 1 foot in the entire leak area as depicted on the attached site diagram. Then the site will then be backfilled with clean soil.

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

Thanks, Cliff

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Kathy Purvis

| From: | Van Curen, Jennifer <jvancure@blm.gov></jvancure@blm.gov> |
|----------|---|
| Sent: | Tuesday, April 22, 2014 6:55 AM |
| То: | Cliff P. Brunson |
| Cc: | C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis |
| Subject: | Re: Oxy-Remediation Plans Approval Status |

EC Hill B Fed #20 --Contacted CJ and approved work on 4-16-14. Stips apply to this remediation: SP1 is 3' and SP2 & SP3 is 6" minimal removal. Berm well pad to prevent fluids from leaving the well pad. Pay close attention to not disturb old drilling pit.

Cypress 34 Fed #1 -- Received plan in on 4-6-14 and approved on 4-16-14 after visiting with CJ. Stips are to repair cattle guard and fence along lease road, correct erosion issue in the NW, need sidewall samples from area to lined to unlined behind two tanks, Lease number missing on well sign, SP1 min is 3', SP2 is 1' minimal --sample to be sure TPH is less than 1000. SP3 & SP6 is 1' removal and SP5 is 2' removal. SP6 should be lined with a small berm to catch load line spillage from trucks. **Samples from confirmations must be sent in**.

Cedar Canyon 28 Fed #4 -- Received plan on 4-6-14 and approved plan on 4-16-14 after reviewing with CJ. Excavating 2' in areas of SP1 & SP2, and 1' removal from SP3. The area at SP1 & SP2 will have a clay liner used. Discussed plan with CJ and let him know that since there are hydrocarbons around the heater treater and separator that the clay will not be effective due to the hydrocarbons breaking down the clay rather quickly. If spill occurs in that area, it will still need to be delineated.

Patton 17 Fed #6 -- Contacted CJ and approved work on 4-16-14. Stips apply to this remediation: Would allow surface scrape on well pad. There is no need to dig into pit with low levels of chlorides. Pit needs to be capped anyway. Recommend no or little digging, capping and topsoil.

MLMU #246 -- Plan received for remediation on 4-5-14 and approved after reviewing with CJ on 4-16-14. Sidewalls need to be taken for horizontal cleanup. **Confirmation samples need to be sent in.**

Bradley 13 Fed Battery -- Received plan in for remediation of spill on 4-6-14 and approved on 4-16-14 after visiting with CJ. Need to delineate north of tank. Tank needs to have integrity test completed and repairs made or replacement, remediate the release around the pumpjack and north to the pit area. No plan necessary, just complete the work for this area and test to be sure that contaminants have been removed. Be careful to not dig into pit contents. Remove hot material and cap if necessary. Deep bury or haul off the cement slab. **Confirmation samples from wellhead and pit area will need to be sent in.**

Confirmation samples or delineation samples are very important not only to the BLM but also the operator. This is what will determine the plan of action in reclamation of the plugged well. Without that information, massive mistakes will be (have been) made, costing hundreds of thousands in remediation of plugged wells. Strategical thinking is priceless.

Jennifer

JENNIFER E VAN CUREN ENVIRONMENTAL PROTECTION SPECIALIST DOI-BLM-CARLSBAD FIELD OFFICE 320 E GREENE ST. CARLSBAD, NM 88220 OFFICE- 575-234-5905 CELL - 575-361-0042 FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Mon, Apr 21, 2014 at 4:02 PM, Cliff P. Brunson <<u>cbrunson@bbcinternational.com</u>> wrote: Jennifer,

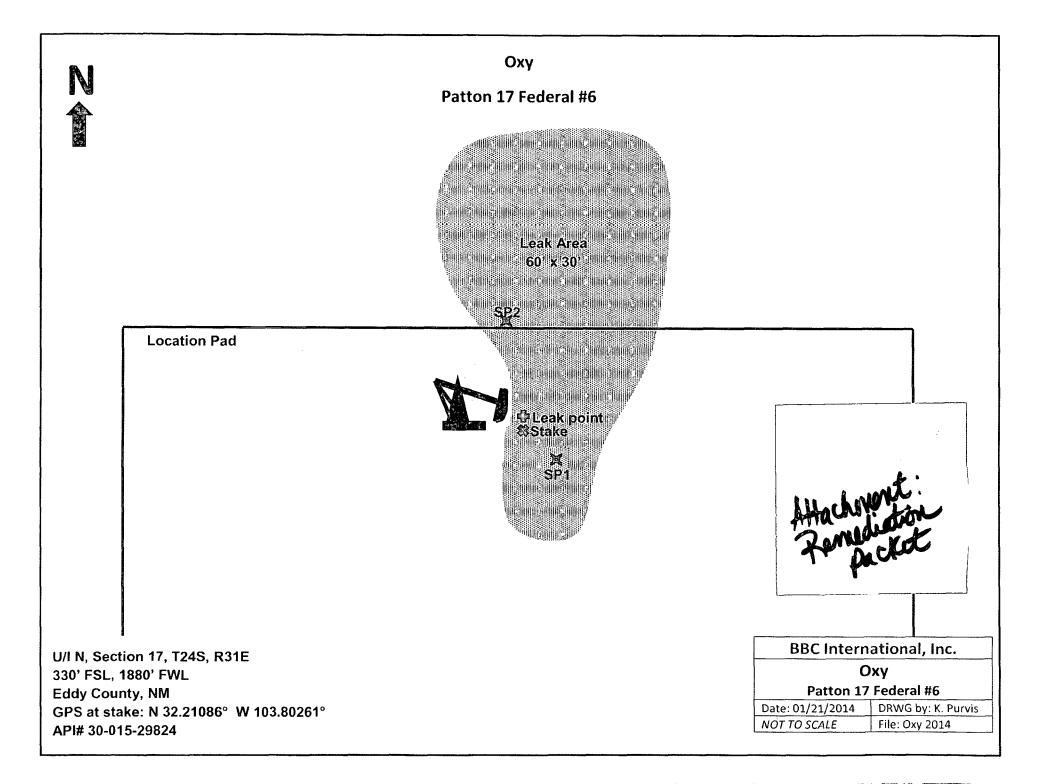
I am following up on several remediation plans that I sent to you for approval a couple of weeks ago. Could you give me an update status on the following Oxy sites:

EC Hill B Fed #20 Cypress 34 Fed #1 Cedar Canyon 28 Fed #4 Patton 17 Fed #6 MLM #246 Bradley 13 Fed Battery

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397 E-Mail: cbrunson@bbcinternational.com **** ***** ****

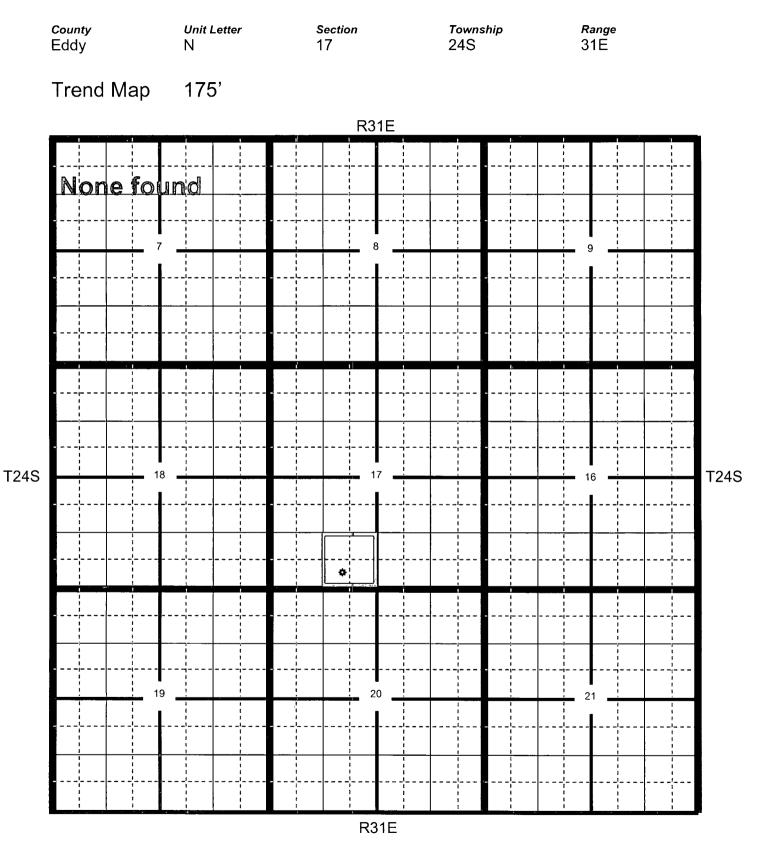
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Groundwater Plot

Oxy Patton 17 Federal #6

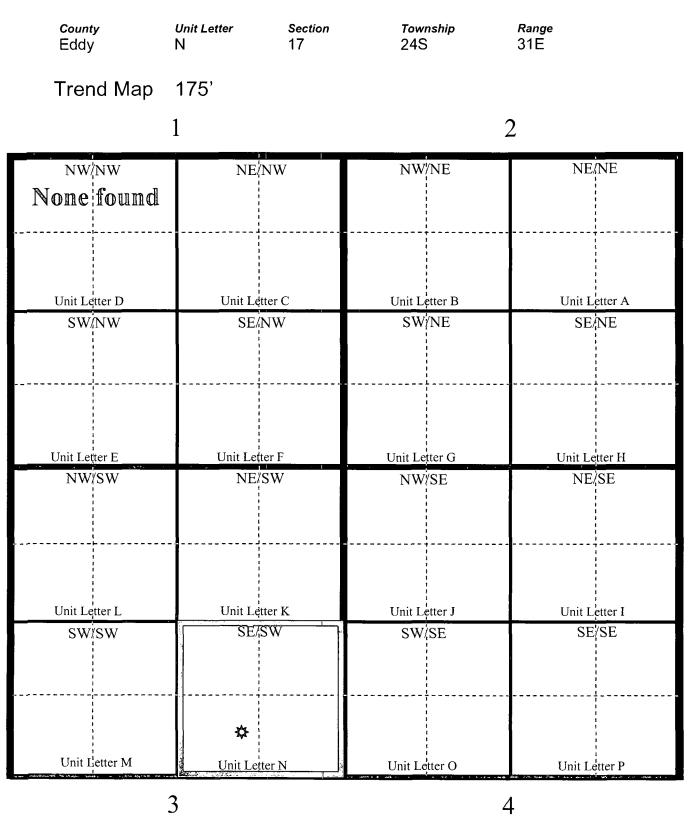


Location



Section Quarters

Oxy Patton 17 Federal #6



Laboratory Analytical Results Summary Patton 17 Federal #6

| | | Sample | SP1 @ 1 | SP1 @ 3' | SP1 @ 5' | SP1 @ 8' | ŠP1 @ 11 |
|---------------|------------|--------|---------|----------|----------|----------|----------|
| Analyte | Method | Date / | 2/14/14 | 2/14/14 | 2/14/14 | 2/14/14 | 2/17/14 |
| | | | mā/Kģ | mg/Kg | mg/Kg_ | mĝ/Kg | mg/Kg |
| Benzene | BTEX 8021B | | < 0.050 | <0.050 | n/a | n/a | n/a |
| Toluene | BTEX 8021B | | <0.050 | <0.050 | n/a | n/a | n/a |
| Ethylbenzene | BTEX 8021B | | <0.050 | <0.050 | n/a | n/a | n/a |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 | n/a | n/a | n/a |
| Total BTEX | BTEX 8021B | | < 0.300 | < 0.300 | n/a | n/a | n/a |
| Chloride | SM4500CI-B | | 752 | 624 | 1120 | 912 | 800 |
| GRO | TPH 8015M | | <10.0 | <10.0 | n/a | n/a | n/a |
| DRO | TPH 8015M | | 92.3 | 19.2 | n/a | n/a | n/a |
| | | | | | | | |
| | | | | | | 1 | |

| | | Sample | SP2 @ 1' | SP2 @ 2' | SP2 @ 3' | | | | |
|---------------|------------|--------|----------|----------|----------|--|--|--|--|
| Analyte | Method | Date | 2/17/14 | 2/17/14 | 2/17/14 | | | | |
| | | | mg/Kg | mg/Kg | mg/Kg | | | | |
| Benzene | BTEX 8021B | | <0.050 | n/a | <0.050 | | | | |
| Toluene | BTEX 8021B | | < 0.050 | n/a | <0.050 | | | | |
| Ethylbenzene | BTEX 8021B | | <0.050 | n/a | <0.050 | | | | |
| Total Xylenes | BTEX 8021B | | <0.150 | n/a | <0.150 | | | | |
| Total BTEX | BTEX 8021B | | <0.300 | n/a | <0.300 | | | | |
| Chloride | SM4500CI-B | | 16 | <16.0 | 48 | | | | |
| GRO | TPH 8015M | | <10.0 | n/a | <10.0 | | | | |
| DRO | TPH 8015M | - | <10.0 | n/a | <10.0 | | | | |



February 25, 2014

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

RE: PATTON 17 FED #6

Enclosed are the results of analyses for samples received by the laboratory on 02/17/14 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and water and solid and solid and solid analytes and website at www.tceq.texas.gov/field/qa/lab accredited analytes ana

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) |

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,

Celeg D. Kune

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: | 02/17/2014 | Sampling Date: | 02/14/2014 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 02/25/2014 | Sampling Type: | Soil |
| Project Name: | PATTON 17 FED #6 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | TWIN WELLS ROAD | | |

Sample ID: SP 1 @ 1' (H400475-01)

| BTEX 8260B | mg/ | kg | Analyze | d By: MS | | | | | |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.05 | 103 | 2.00 | 6.46 | |
| Toluene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.16 | 108 | 2.00 | 4.76 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.04 | 102 | 2.00 | 6.61 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2014 | ND | 6.20 | 103 | 6.00 | 7.13 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2014 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 96.6 | % 61.3-14 | 2 | | | | | | |
| Surrogate: Toluene-d8 | 104 9 | 71.3-12 | 9 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 103 9 | 65.7-14 | I | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 752 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Anałyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 02/19/2014 | ND | 200 | 100 | 200 | 5.07 | |
| DRO >C10-C28 | 92.3 | 10.0 | 02/19/2014 | ND | 192 | 96.2 | 200 | 7.57 | |
| Surrogate: 1-Chlorooctane | 105 9 | 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 110 % | 63.6-15 | 4 | | | | | | |

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Celey D. Kune

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: | 02/17/2014 | Sampling Date: | 02/14/2014 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 02/25/2014 | Sampling Type: | Soil |
| Project Name: | PATTON 17 FED #6 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | TWIN WELLS ROAD | | |

Sample ID: SP 1 @ 3' (H400475-02)

| BTEX 8260B | mg/ | kg | Analyze | d By: MS | | | | | |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.05 | 103 | 2.00 | 6.46 | |
| Toluene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.16 | 108 | 2.00 | 4.76 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.04 | 102 | 2.00 | 6.61 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2014 | ND | 6.20 | 103 | 6.00 | 7.13 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2014 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 98.8 | % 61.3-14 | 2 | | | | | | |
| Surrogate: Toluene-d8 | 103 9 | 71.3-12 | 9 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 101 9 | 65.7-14 | I | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 624 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 02/19/2014 | ND | 200 | 100 | 200 | 5.07 | |
| DRO >C10-C28 | 19.2 | 10.0 | 02/19/2014 | ND | 192 | 96.2 | 200 | 7.57 | |
| Surrogate: 1-Chlorooctane | 80.2 | 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 86.7 | 63.6-15 | 4 | | | | | | |

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Celey D. Keine

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: | 02/17/2014 | Sampling Date: | 02/14/2014 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 02/25/2014 | Sampling Type: | Soil |
| Project Name: | PATTON 17 FED #6 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | TWIN WELLS ROAD | | |

Sample ID: SP 1 @ 5' (H400475-03)

| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AP | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1120 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP 1 @ 8' (H400475-04)

| Chloride, SM4500Cl-B | mg/kg | | g/kg Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|----------------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 912 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP 1 @ 11' (H400475-05)

| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AP | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 800 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |

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Celey D. Keine

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: | 02/17/2014 | Sampling Date: | 02/17/2014 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 02/25/2014 | Sampling Type: | Soil |
| Project Name: | PATTON 17 FED #6 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | TWIN WELLS ROAD | | |

Sample ID: SP 2 @ 1' (H400475-06)

| BTEX 8260B | mg, | /kg | Analyze | d By: MS | | | | | |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.05 | 103 | 2.00 | 6.46 | |
| Toluene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.16 | 108 | 2.00 | 4.76 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.04 | 102 | 2.00 | 6.61 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2014 | ND | 6.20 | 103 | 6.00 | 7.13 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2014 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 98.5 | % 61.3-14 | 12 | • | | | | | |
| Surrogate: Toluene-d8 | 101 | % 71.3-12 | 9 | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 96.8 | % 65.7-14 | 1 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By:ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 02/19/2014 | ND | 200 | 100 | 200 | 5.07 | |
| DRO >C10-C28 | <10.0 | 10.0 | 02/19/2014 | ND | 192 | 96.2 | 200 | 7.57 | |
| Surrogate: 1-Chlorooctane | 87.7 | % 65.2-14 | 10 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 94.1 | % 63.6-15 | 4 | | | | | | |

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Celey D. Kune

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: | 02/17/2014 | Sampling Date: | 02/17/2014 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 02/25/2014 | Sampling Type: | Soil |
| Project Name: | PATTON 17 FED #6 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | TWIN WELLS ROAD | | |

Sample ID: SP 2 @ 2' (H400475-07)

| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AP | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |

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Celeg D. Keine

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: | 02/17/2014 | Sampling Date: | 02/17/2014 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 02/25/2014 | Sampling Type: | Soil |
| Project Name: | PATTON 17 FED #6 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | TWIN WELLS ROAD | | |

Sample ID: SP 2 @ 3' (H400475-08)

| BTEX 8260B | mg, | /kg | Analyze | d By: MS | | | <u> </u> | | |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.05 | 103 | 2.00 | 6.46 | |
| Toluene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.16 | 108 | 2.00 | 4.76 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2014 | ND | 2.04 | 102 | 2.00 | 6.61 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2014 | ND | 6.20 | 103 | 6.00 | 7.13 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2014 | ND | | | | | |
| Surrogate: Dibromofluoromethane | 98.4 | % 61.3-14 | 2 | | | | | | |
| Surrogate: Toluene-d8 | 102 | % 71.3-12 | 9 . | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 104 | % 65.7-14 | 1 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 02/19/2014 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 02/19/2014 | ND | 220 | 110 | 200 | 0.566 | |
| DRO >C10-C28 | <10.0 | 10.0 | 02/19/2014 | ND | 206 | 103 | 200 | 2.93 | |
| Surrogate: 1-Chlorooctane | 96.7 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 96.5 | % 63.6-15 | 4 | | | | | | |

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Celuz Kune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

| ND | Analyte NOT DETECTED at or above the reporting limit |
|-----|---|
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500CI-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. Kune

Celey D. Keene, Lab Director/Quality Manager

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101 East Marland, Hobbs, NM 88240 (EAE) 202 2220 EAV (EAE) 202 2470

| | (505) 393-2320 FAX (505) 393- | 24/0 | | · | 1 |
|------------------|-------------------------------|--|---|------------------|---|
| Company Name | BBC International, Inc. | · | | ANALYSIS REQUEST | |
| Project Manage | r: Cliff Brunson | · · · | P.O. #: | | T |
| Address: P.O. | Box 805 | | Company: | | |
| city: Hobbs | State: N | V zip: 88241 | Attn: | | |
| Phone #: 575-3 | 397-6388 Fax #: 5 | 575-397-0397 | Address: SAMF | | |
| Project #: | Project Ov | vner: 0X4 | City: | | |
| Project Name: | DATTON 17 FED - | # lo ' | State: Zip: | | |
| Project Location | r: Tww wells | Ro | Phone #: | | |
| Sampler Name: | Pour He | n nandez | Fax #: | | |
| FOR LAB USE ONLY | U | MATRI | RIX PRESERV SAMPLING | | |
| Lab I.D. | Sample I.D. | GJRAB OR (C)OMP # CONTAINERS BROUNDWATER MASTEWATER SOIL | OIL SLUDGE ACIDIBASE: ACIDIBASE: ICE / COOL OTHER: MILE MILE MILE MILE MILE MILE MILE MILE | | |
| HUDUT | | # COIL SOIL | | \square | |
| l l | 3PI@11 | GIV | 2.14.14 132 | | |
| 2 | e 3' | 611 | W Z.14.14200 V | | |
| 3 | 5' | C V | V 2.14.14 228 | V | |
| | 8' | | 2.14.19 -311 | | |

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| affiliates or successors arising out of or related to the performance of | | | | | | | |
|--|----------|------------------|-------------|---------------|-------|------|----------------|
| Relinquished By: | Date: | Received By: | | Phone Result: | Yes | 🗆 No | Add'i Phone #: |
| | 52-17-14 | | | Fax Result: | □ Yes | | Add'I Fax #: |
| AL A ON | Time: | | | REMARKS: | | | |
| 931 | 4.15 | Charles | ener | | | | |
| Relinguished By: | Date: | Redeived By: | | | • | | |
| | | 0 | | | | | |
| | Time: | • | | | | | • |
| | ranc. | | | | | | |
| Delivered Due (Circle One) | L L | Sample Condition | CHECKED BY: | | | | |
| Delivered By: (Circle One) | | • | | | | | |
| | <u>ب</u> | no Cool Intact | (mitials) | | | | |
| Sampler - UPS - Bus - Other: | 5. | Yes Yes | | | | | |
| | <u> </u> | | YV- | | | | |
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 9 of 9

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NM OIL CONSERVATION

ARTESIA DISTRICT

JUL 22 2014

Form C-141 Revised August 8, 2011 **REGENT ED** by to appropriate District Office in accordance with 19.15.29 NMAC.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 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

| | | | | - | · · · · · · · · · · · · · · · · · · · | | | | | |
|---|---|---|---|---|--|---|--|---|--|---|
| | | Rel | ease Notifi | catior | 1 and Co | orrective A | ction | t | | |
| | | | ····- | · | OPERA' | | <u> </u> | 🛛 Initi | al Report | Final Repo |
| Name of Company | Oxy Permia | | | | | Chancey Summe | | | | <u> </u> |
| | Stanolind Rd, | | NM 88240 | | Telephone No. (575) 397-8216 | | | | | |
| Facility Name Pa | tton 17 Federa | 1 #6 | | | Facility Typ | be Well locat | ion | | | |
| Surface Owner B | LM | | Mineral | Owner | | | | API No | o. <u>30-015-</u> | 29824 |
| | | | LOC | ATION | N OF REI | LEASE | | | | |
| Jnit Letter Section | Township | Range | Feet from the | the second second | South Line | Feet from the | East/W | Vest Line | County | <u></u> |
| N 17 | 245 | 31E | 330 | | South | 1800 | v | Vest | Eddy Cour | nty, NM |
| | | · · · · · · · · · · · · · · · · · · · | Latitude <u>N 32.</u> | | | de <u>W 103.8013</u> | | | | |
| | | - | | | - | | | | | |
| ype of Release Sk | m oil and Produ | iced water | | TURE | OF REL | | | Volume I | Recovered | · · · · · · · · · · · · · · · · · · · |
| ype of Release SK | an on and Fiod | accu water | | | | bbls produced w | vater | 0 bbls | | |
| | tuffing box on v | well head | leaked | | Date and H 01/07/2014 | lour of Occurrend | | | Hour of Disc | covery |
| Vas Immediate Notice | | Yes [|] No 🔲 Not R | lequired | If YES, To Mike Brate | Whom? cher-NMOCD; Je | ennifer V | an Curen- | BLM | |
| By Whom? Kathy F | urvis | | | | Date and H | | | | | |
| Vas a Watercourse Re | | Yes 🗵 | 1 . | | If YES, Vo | olume Impacting | the Wate | ercourse. | | |
| | | | | | | | | | | |
| f a Watercourse was I | mpacted, Descr | ibe Fully.' | k | | | | | | | |
| t a Watercourse was I Describe Cause of Pro The stuffing box on th vas resolved. | blem and Reme | dial Action | n Taken.* | f produce | ed water onto | the ground. No | fluids we | ere recover | red and the st | uffing box issue |
| Describe Cause of Pro The stuffing box on th vas resolved. | blem and Reme c well head leak | dial Action ed I bbl o | n Taken.* f oil and 8 bbls o | f produce | ed water onto | the ground. No | fluids we | ere recover | red and the st | uffing box issue |
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