MARTIN YATES, III 1912-1985 FRANK W. YATES 1936-1986

S.P YATES

1914-2008

PETROLEUM CORPORATION

105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

www.yatespetroleum.com

JOHN A. YATES CHAIRMAN EMERITUS JOHN A. YATES JR.

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PRESIDENT
CHIEF EXECUTIVE OFFICER

JOHN D. PERINI EXECUTIVE VICE PRESIDENT CHIEF FINANCIAL OFFICER

JAMES S. BROWN

February 3, 2016

Mr. Mike Bratcher or Ms. Heather Patterson NMOCD District II 811 South First Artesia, NM 88210

RE:

Buho BOH State #1H

30-015-38223

Section 35, T26S-R28E Eddy County, New Mexico

Mr. Bratcher or Ms. Patterson,

Yates Petroleum Corporation would like to submit the following plan of work to you regarding the release that occurred at the above mentioned facility on June 22, 2014 (2RP-2366). The release was 24 barrels of produced water and 1 barrel of crude oil released, with 24 barrels of produced water and 1 barrel of crude oil recovered.

With NMOCD and NMSLO approval of this work plan, Yates will hold a bid meeting allowing several contractors the opportunity to submit bids on this remediation project. Bids that are received will be forwarded to Yates Management for review. Once Yates Management reviews the bids and gives approval, the remediation project will be awarded to a contractor for work to commence.

If you have any questions or concerns, I can be reached at (575) 748-4111 or by email at agriffin@yatespetroleum.com.

Thank You,

Amber Griffin

Environmental Regulatory Agent Yates Petroleum Corporation

ambu Griffin

Yates Petroleum Corporation

Buho BQH State #1H

Section 35, T26S-R28E

Eddy County, New Mexico

February 3, 2016

I. Location

The release area is located approximately 15.2 miles south of Malaga, NM on Highway 285 and approximately 0.8 miles west of Highway 285 on a lease road.

II. Background

On June 22, 2014, Yates had a release of 24 barrels produced water and 1 barrel of crude oil, with 24 barrels produced water and 1 barrels of crude oil recovered. The area affected from this release was on the production pad for the well. An initial Form C-141 was submitted, via e-mail, to the NMOCD District II on July 1, 2014.

On August 19, 2014 Yates returned to the site and collected initial soil samples from the depths of 1' – 4' from Section 1 and 1' – 3' from Section 2 of the release area using a backhoe. The soil samples were sent to an approved NMOCD laboratory and tested for BTEX 8021B, TPH 8015M, and Chlorides SM4500Cl-B. Yates received the analytical results on August 27, 2014 and September 11, 2014 (Reports H402568 and H402739 attached to this work plan). The analytical results showed that both BTEX and TPH were at levels below NMOCD RRAL's for both Section 1 and Section 2 of the release area. The analytical results also showed delineated chloride levels from Section 2 of the release area, but elevated chloride levels from Section 1 of the release area, and Yates determined that further vertical delineation of chlorides was needed for Section 1 of the release area.

On December 7, 2015 Yates returned to the site and collected further soil samples from Section 1 of the release are at the depths of 5'-6' below the surface level with a backhoe. The soil samples were sent to an approved NMOCD laboratory and tested for Chlorides 300.0. Yates received the analytical results on December 21, 2015 (Reports 1512601 and 1512602 attached to this work plan). The analytical results showed that chloride levels had delineated.

III. Surface and Ground Water

Area surface geology is Cenozoic. The ChevronTexaco depth to ground water map shows the depth to groundwater to be approximately 70 feet making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is ten (10) based on the following:

Depth to ground water 50-99'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

IV. Soils

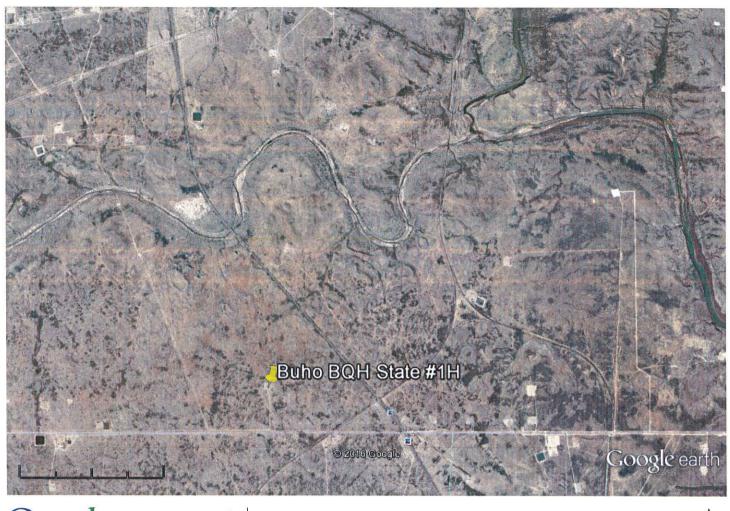
The area consists of soils that are caliche and clay seams.

V. Scope of Work

Based off the analytical reports which show complete vertical delineation, Yates proposes to excavate 4.5' from Section 1 of the release area and 1.5' from Section 2 of the release area. The excavation will be approximately 33' long, 18' wide for Section 1 and approximately 33' long, 24' wide for Section 2. Once all soils have been excavated the excavation will be backfilled with caliche.

Contaminated soils that are excavated will be hauled to a NMOCD approved disposal facility, The Lea Land, Inc. Landfill located on Highway on 62/180 or R360 Environmental Solutions Red Bluff Facility located on Highway 285 near Orla, Texas, depending on which contractor the work is assigned to.

Once all excavation and backfill work is complete, Yates will submit a Final Form C-141 to NMOCD and NMSLO requesting closure of this release.



Google earth

miles 2 4





Buho BQH State #1H

| | Sample Area | Sample Date | te Analytical Report | Sample Type | Depth | BTEX GRO DRO | GRO | | TOTAL | Chlorides |
|-------|--------------|-------------|----------------------|--------------|-------|--------------|-----|------|-------|-----------|
| 1-1 | Release Area | 8/19/2014 | H402568 | Grab/Backhoe | 1. | ND | N | 10.8 | 10.8 | 4,400 |
| 1-2' | Release Area | 8/19/2014 | H402568 | Grab/Backhoe | 2' | ND | Q. | Ð | Q | 3,880 |
| 1-3' | Release Area | 8/19/2014 | H402568 | Grab/Backhoe | 3, | ND | R | R | Q | 3,280 |
| 1-4' | Release Area | 8/19/2014 | H402739 | Grab/Backhoe | 4, | | | | | 3,040 |
| 1-5' | Release Area | 12/7/2015 | 1512602 | Grab/Backhoe | 5' | | | | | 1,100 |
| 1-6' | Release Area | 12/7/2015 | 1512601 | Grab/Backhoe | 6' | | | | | 470 |
| *** | | | | | | | | | | |
| 2-1' | Release Area | 8/19/2014 | H402568 | Grab/Backhoe | 1. | ND | R | 9 | Q | 3,800 |
| 2-2. | Release Area | 8/19/2014 | H402568 | Grab/Backhoe | 2' | ND | 9 | Ð | N | 784 |
| 2-3' | Release Area | 8/19/2014 | H402568 | Grab/Backhoe | 3, | ND | R | g | ND | 352 |
| - may | | ı | | | | | 1 | 1 | 1 | |

Site Ranking is TEN (10). Depth to Ground Water approximately 70' per ChevronTexaco Trend Map All results are ppm.Chlorides for documentation.

Released: 24 B/PW, 1 B/O; Recovered: 24 B/PW, 1 B/O. Release Date: 6/22/2014. 2RP-2366



August 27, 2014

AMBER CANNON
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: BUHO BQH STATE #1H

Enclosed are the results of analyses for samples received by the laboratory on 08/21/14 13:20.

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 accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/21/2014

Sampling Date:

08/19/2014

Reported:

08/27/2014

Sampling Type:

Soil

Project Name:

BUHO BQH STATE #1H

Sampling Condition:

Cool & Intact

Project Number:

30-015-38223

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: 1-1' (H402568-01)

| Chloride, SM | 14500CI-B |
|--------------|-----------|
|--------------|-----------|

mg/kg

Analyzed By: AP

Analyte

Result 4400

16.0

Reporting Limit

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 08/25/2014

Analyzed

Analyzed

08/25/2014

Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD 0.00 Qualifier

Sample ID: 1-2' (H402568-02)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

BS

400

% Recovery

RPD

0.00

Chloride

Chloride

Chloride

Chloride

Result 3880

Result

3280

Result

3800

16.0

08/25/2014

ND

Method Blank

100

True Value QC 400

Qualifier

Sample ID: 1-3' (H402568-03)

Analyte

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

BS

400

True Value QC

400

RPD

0.00

Qualifier

Sample ID: 2-1' (H402568-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

08/25/2014

Method Blank ND

BS 400 % Recovery 100

% Recovery

100

True Value QC 400

RPD 0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Calley & France

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/21/2014

Sampling Date:

08/19/2014

Reported:

08/27/2014

Sampling Type:

Soil

Project Name:

BUHO BQH STATE #1H

Reporting Limit

16.0

Reporting Limit

16.0

Sampling Condition:

Cool & Intact

Project Number:

30-015-38223

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: 2-2' (H402568-05)

Chloride, SM4500Cl-B

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte

Result

784

Result

352

Analyzed 08/25/2014

08/25/2014

Method Blank ND

ND

BS 400 % Recovery

100

True Value QC 400

400

RPD

0.00

RPD

0.00

Qualifier

Sample ID: 2-3' (H402568-06)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed Method Blank

BS 400 % Recovery 100

True Value QC

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Kreene

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 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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keens

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Page 5 of 5

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

| المارية | 7 | Relinquished by: | | Special Instructions: | | | | | 2-3' | 5 2-2 | 2-1 | | ا بر | 1-2' | 1-1 | A FIELD CODE | | ORDER #: TYU'dO'O | (lab use only) | | Sampler Signature: | | Telephone No: 57 | City/State/Zip: Ar | Company Addices. | Š. | Company Name Ya | Project Manager: Ar |
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August 27, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BUHO BQH STATE #1H

Enclosed are the results of analyses for samples received by the laboratory on 08/21/14 13:20.

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 accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

08/21/2014 Reported: 08/27/2014

Project Name: BUHO BQH STATE #1H

Project Number: 30-015-38223

Project Location: EDDY COUNTY, NM Sampling Date:

Sample Received By:

08/19/2014 Sampling Type: Soil

Sampling Condition:

Cool & Intact

Jodi Henson

Sample ID: 1-1' (H402568-01)

Received:

| BTEX 8021B | mg/ | kg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.04 | 102 | 2.00 | 7.31 | |
| Toluene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.06 | 103 | 2.00 | 7.33 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.09 | 104 | 2.00 | 7.14 | |
| Total Xylenes* | <0.150 | 0.150 | 08/25/2014 | ND | 6.44 | 107 | 6.00 | 6.96 | |
| Total BTEX | <0.300 | 0.300 | 08/25/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 108 9 | % 89.4-12 | 6 | | | | | | |
| TPH 8015M | mg/ | kg | Analyze | d By: CK | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 08/22/2014 | ND | 192 | 95.9 | 200 | 0.368 | |
| DRO >C10-C28 | 10.8 | 10.0 | 08/22/2014 | ND | 199 | 99.4 | 200 | 3.77 | |
| Surrogate: 1-Chlorooctane | 95.1 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 111 9 | 63.6-15 | 4 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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Celegy Freens



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

08/21/2014

Reported:

08/27/2014

Project Name:

BUHO BQH STATE #1H

Project Number: Project Location: 30-015-38223

EDDY COUNTY, NM

Sampling Date:

Sampling Condition:

Sample Received By:

Sampling Type:

08/19/2014

Soil

Cool & Intact

Jodi Henson

Sample ID: 1-2' (H402568-02)

| BTEX 8021B | mg/ | 'kg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.04 | 102 | 2.00 | 7.31 | |
| Toluene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.06 | 103 | 2.00 | 7.33 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.09 | 104 | 2.00 | 7.14 | |
| Total Xylenes* | <0.150 | 0.150 | 08/25/2014 | ND | 6.44 | 107 | 6.00 | 6.96 | |
| Total BTEX | <0.300 | 0.300 | 08/25/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 107 | % 89.4-12 | 6 | | | | | | |
| TPH 8015M | mg/ | /kg | Analyze | d By: CK | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 08/22/2014 | ND | 192 | 95.9 | 200 | 0.368 | |
| DRO >C10-C28 | <10.0 | 10.0 | 08/22/2014 | ND | 199 | 99.4 | 200 | 3.77 | |
| Surrogate: 1-Chlorooctane | 98.7 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 111 5 | % 63.6-15 | 4 | | | | | | |

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*=Accredited Analyte

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YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/21/2014

Sampling Date:

08/19/2014

Reported:

08/27/2014

Sampling Type:

Soil

Project Name:

BUHO BQH STATE #1H

Sampling Condition:

Cool & Intact

Project Number:

30-015-38223

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: 1-3' (H402568-03)

| BTEX 8021B | mg/ | kg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.04 | 102 | 2.00 | 7.31 | |
| Toluene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.06 | 103 | 2.00 | 7.33 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.09 | 104 | 2.00 | 7.14 | |
| Total Xylenes* | <0.150 | 0.150 | 08/25/2014 | ND | 6.44 | 107 | 6.00 | 6.96 | |
| Total BTEX | <0.300 | 0.300 | 08/25/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 108 | % 89.4-12 | 6 | | | | | | |
| TPH 8015M | mg, | /kg | Analyze | d By: CK | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 08/22/2014 | ND | 192 | 95.9 | 200 | 0.368 | |
| DRO >C10-C28 | <10.0 | 10.0 | 08/22/2014 | ND | 199 | 99.4 | 200 | 3.77 | |
| Surrogate: 1-Chlorooctane | 99.7 | % 65.2-14 | 10 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 110 | % 63.6-15 | 4 | | | | | | |

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Caley D. Keens ...



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

08/21/2014

Reported:

08/27/2014

Project Name:

BUHO BQH STATE #1H

Project Number:

30-015-38223

Project Location:

EDDY COUNTY, NM

Sampling Date:

08/19/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: 2-1' (H402568-04)

| BTEX 8021B | mg/ | kg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.04 | 102 | 2.00 | 7.31 | |
| Toluene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.06 | 103 | 2.00 | 7.33 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.09 | 104 | 2.00 | 7.14 | |
| Total Xylenes* | <0.150 | 0.150 | 08/25/2014 | ND | 6.44 | 107 | 6.00 | 6.96 | |
| Total BTEX | <0.300 | 0.300 | 08/25/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 107 9 | % 89.4-12 | 6 | | | | | | |
| TPH 8015M | mg/ | kg | Analyze | d By: CK | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 08/22/2014 | ND | 192 | 95.9 | 200 | 0.368 | |
| DRO >C10-C28 | <10.0 | 10.0 | 08/22/2014 | ND | 199 | 99.4 | 200 | 3.77 | |
| Surrogate: 1-Chlorooctane | 86.0 | % 65.2-14 | 0 | 4.44 | | | | | |
| Surrogate: 1-Chlorooctadecane | 105 9 | 63.6-15 | 4 | | | | | | |

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Celeg D. Keens



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

08/21/2014

Reported:

08/27/2014

Project Name: Project Number: BUHO BQH STATE #1H

Project Location:

30-015-38223 EDDY COUNTY, NM Sampling Date:

08/19/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: 2-2' (H402568-05)

| BTEX 8021B | mg, | /kg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.04 | 102 | 2.00 | 7.31 | |
| Toluene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.06 | 103 | 2.00 | 7.33 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.09 | 104 | 2.00 | 7.14 | |
| Total Xylenes* | <0.150 | 0.150 | 08/25/2014 | ND | 6.44 | 107 | 6.00 | 6.96 | |
| Total BTEX | <0.300 | 0.300 | 08/25/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 108 | % 89.4-12 | 6 | | | | | | |
| TPH 8015M | mg, | /kg | Analyze | d By: CK | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 08/22/2014 | ND | 192 | 95.9 | 200 | 0.368 | |
| DRO >C10-C28 | <10.0 | 10.0 | 08/22/2014 | ND | 199 | 99.4 | 200 | 3.77 | |
| Surrogate: 1-Chlorooctane | 105 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 115 | % 63.6-15 | 4 | | | | | | |

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Calacy to Karna -



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

08/21/2014

08/27/2014

BUHO

Project Name: Project Number:

Received:

Reported:

BUHO BQH STATE #1H 30-015-38223

Project Location:

EDDY COUNTY, NM

Sampling Date:

08/19/2014

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

Sample ID: 2-3' (H402568-06)

| BTEX 8021B | mg/ | kg | Analyze | d By: CK | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.04 | 102 | 2.00 | 7.31 | |
| Toluene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.06 | 103 | 2.00 | 7.33 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/25/2014 | ND | 2.09 | 104 | 2.00 | 7.14 | |
| Total Xylenes* | <0.150 | 0.150 | 08/25/2014 | ND | 6.44 | 107 | 6.00 | 6.96 | |
| Total BTEX | <0.300 | 0.300 | 08/25/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 108 | % 89.4-12 | 6 | | | | | | |
| TPH 8015M | mg, | 'kg | Analyze | d By: CK | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 08/22/2014 | ND | 192 | 95.9 | 200 | 0.368 | |
| DRO >C10-C28 | <10.0 | 10.0 | 08/22/2014 | ND | 199 | 99.4 | 200 | 3.77 | |
| Surrogate: 1-Chlorooctane | 96.3 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 112 | % 63.6-15 | 4 | | | | | | |

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Celeg & Keens



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celeg & Krene

Telephone No:

575-748-4111 or 575-513-8799

Fax No:

Report Format: X Standard

TRRP

NPDES

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

| City/S | | Comp | Comp | - | Projec | A STATE OF THE PARTY OF THE PAR | 1 |
|-------------------|----------|---------------------------------------|-----------------------------|--------------|-------------------------------|--|---|
| City/State/Lip: | į. | any Address: | Company Name | 9 | of Manager: | ARDINAL LA 101 East Mark | |
| Artesia, NM 60210 | | Company Address: 105 South 4th Street | Yates Petroleum Corporation | | Project Manager: Amber Cannon | ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 | |
| | | | | | | (505) 393-2326 FAX (505) 393-2476 | |
|] | PO #: | Project Loc: | | Project #: | Project Name: | | |
|] | 205-2020 | Eddy County | | 30-015-38223 | Buho BQH State #1H | | |
| | | | Г | Р | age | 9 of 9 |) |

| | Relinquished by: | Relinquished by | Relinquished by: | | Special Instructions: | | AL. | | 6 | 6 | 7 | | اد | U | | LAB # (lab use only) | ORDER #: | (lob uso only) | Samp |
|-----|---------------------------|--|--|---|---|----------|-----------|----------|-----------|---------------|---------------|------------|-----------|------------|------------|---|-----------------------|----------------|----------------------------|
| | | | Cannon 8 | separate report | | | | | 2-3' | 2-2 | 2-1 | 2_1' | 1-3' | 1-2' | 1-1' | FIELD CODE | H403518 | | Sampler Signature: WWW Dex |
| | Date | Date | Date 1/4 1/4 | e report. | ТРН: 8015B, BTEX: 8021B. | | | | | | | | | | | | | _ | 6 |
| | | = | = | - 72 | .X: | | | | ω | _ | <u> </u> | <u>-</u> - | ω | 2 | <u>-</u> - | Beginning Depth | | | 3 |
| | Time | Time | Time | I hank you |)21B | | | | ω | ~ | <u>.</u> | <u>-</u> | ယ္ | \sigma_{2} | <u>-</u> - | Ending Depth | | | 20 |
| | Received by ELO | Received by: | Received by: | ou. | | | | | 8/19/2014 | 0/19/2014 | 8/40/2014 | 8/19/2014 | 8/19/2014 | 8/19/2014 | 8/19/2014 | Date Sampled | | | |
| | .ot: | The state of the s | | | Please show BTEX results as mg/kg. | | | | 10:10 AM | 10.00 NW | 10-09 AM | 10:08 AM | 9:54 AM | 9:51 AM | 9:48 AM | Time Sampled | | | 0-110 |
| 3 | 1 | 1 | | | ts as | _ | _ | _ | + | 4 | _ | _ | | _ | | Field Filtered Total #, of Containers | - | | 12 |
| | | \supset | | | ä - | + | + | \dashv | > | - | × | × ~ | 1 × | × | × | Ice | \forall | | |
| - 2 | | 5 | | | /kg | - | + | + | + | Ť | | \sim | | Ť | + | HNO ₃ | Prese | | |
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| | V | | | 1 | Please pi | \dashv | \forall | 十 | \top | T | | | | | | H ₂ SO ₄ | φ. | | |
| | | | | | e p | | | | | | | | | | | NaOH | of O | | |
| L | | | | | ut chlorides on a | | | | 1 | 1 | | | _ | 4 | 1 | Na ₂ S ₂ O ₃ | ontainers | | |
| ľ | | ∞ | | | hlor | _ | 4 | _ | + | 4 | _ | _ | - | + | + | None Other (Specify) | ners | | |
| | Date | Dale Cale | | Date | ide | \dashv | + | + | + | + | | _ | - | - | + | DW=Drinking Water SL=Sludge | + | | |
| - | | F | | | or | 1 | | | 0 | 0 | S | S | S | S | S | GW = Groundwater S=Soil/Solid | Matrix | | |
| - | | - | + | 1 | 0 | | | | | | | | | | | NP=Non-Potable Specify Other | × × | ., | |
| | Time | ا کے | 3 | Time | - 1 | | | | > | < | × | × | × | × | × | | 8015 | | П |
| | Ф | O a | | • | | | | | | | | _ | _ | _ | 1 | TPH: TX 1005 TX 10 | 006 | | П |
| | Ten | oa | Sus | E S | Lab | | | | 4 | 4 | | _ | 1 | 4 | 4 | Cations (Ca, Mg, Na, K) | | | |
| | nper | by Sampler/Client Reby Courier? | tody | VOCs Free of Headsp Labels on container(s) | oral | | | _ | _ | _ | | _ | + | + | + | Anions (CI, SO4, Alkalinity) | - C | TCLP: | |
| | atur | by Samplen by Courier? | Sea Land | 9 G | Con | | _ | _ | 4 | | | 1 | + | + | + | SAR / ESP / CEC | - | . Ģ | |
| | e Cp | er? | als o | of H | Cor | | | - | 4 | _ | | \vdash | + | + | + | Metals: As Ag Ba Cd Cr Pb Volatiles | rig se | + | Ana |
| | on ! | Clien | 00 00 | ner(| SE | \vdash | _ | - | \dashv | | | \vdash | + | + | + | Semivolatiles | | + | Analyze For: |
| | Temperature Upon Receipt: | by Sampler/Client Rep. by Courier? UPS | Custody seals on container(s) Custody seals on cooler(s) Comple Hand Delivered | VOCs Free of Headspace? Labels on container(s) | Laboratory Comments: Sample Containers Intact? | | | | - | $\overline{}$ | $\overline{}$ | V | × | : × | | | X 8260 | + | For: |
| | pt | | s) er(s | 6.5 | · 2 | | | | \dashv | ×_ | × | × | 台 | + | + | RCI | | | |
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| + | ဂိ | N Lone Star | ZAZ | ZZ | zz | | | | \neg | | T | 1 | T | 1 | \top | RUSH TAT (Pre-Schedule |) 24, 48, 7 | 2 hrs | |
| - | 10.00 | ta | U | | | - | | 1 | - | ~ | × | + | 1> | <i></i> | , | Standard TAT | T | | |



September 11, 2014

AMBER CANNON
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: BUHO BQH STATE #1H

Enclosed are the results of analyses for samples received by the laboratory on 09/04/14 10:15.

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 accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Kuna

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

09/04/2014

Sampling Date:

08/19/2014

Reported:

09/11/2014

Sampling Type:

Soil

Project Name:

BUHO BQH STATE #1H

Sampling Condition:

Cool & Intact

Project Number:

30-015-38223

Sample Received By:

Kathy Perez

Project Location:

EDDY COUNTY, NM

Sample ID: 1-4' (H402739-01)

Chloride, SM4500CI-B

mg/kg

Reporting Limit

Analyzed By: AP

Analyte

Result

Analyzed

Method Blank

BS

% Recovery

True Value QC

Qualifier

Chloride

16.0 09/10/2014 ND

400

100

400

3040

RPD 7.69

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Celey to treens -

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 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

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Krene

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Page 4 of 4



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

OrderNo.: 1512602

December 21, 2015

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111

FAX

RE: Buho BQH State #1H

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/11/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1512602

Date Reported: 12/21/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-5'

Project:

Buho BQH State #1H

Collection Date: 12/7/2015 10:10:00 AM

Lab ID:

1512602-001

Matrix: SOIL

Received Date: 12/11/2015 9:40:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------|--------|-------|----------|----|--------------------|-----------------|
| EPA METHOD 300.0: ANIONS | | | | | Anal | yst: JRR |
| Chloride | 1100 | 30 | mg/Kg | 20 | 12/16/2015 2:27:38 | PM 22833 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 2
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1512602

21-Dec-15

Client:

Yates Petroleum Corporation

Project:

Buho BQH State #1H

Sample ID MB-22833

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 22833

RunNo: 30906

Prep Date: 12/16/2015

Analysis Date: 12/16/2015 PQL

SeqNo: 944921

Units: mg/Kg

Analyte

Result

HighLimit

RPDLimit

Qual

Chloride

ND 1.5

Sample ID LCS-22833

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 22833

RunNo: 30906

Prep Date: 12/16/2015

Analysis Date: 12/16/2015

1.5

SeqNo: 944922

Units: mg/Kg

Analyte

PQL

SPK value SPK Ref Val %REC

LowLimit

90

HighLimit

%RPD **RPDLimit**

15.00

92.8

Chloride

14

0

SPK value SPK Ref Val %REC LowLimit

110

%RPD

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

Reporting Detection Limit

Analyte detected below quantitation limits

Page 2 of 2

Sample pH Not In Range



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

| Client Name: Yates Petroleum Corporat Work Order Number: | 1512602 | | RcptNo: 1 | |
|--|--|----------------------------------|--|-----|
| Received by/date: SA 17/11/15 | v 8 | | | |
| Logged By: Lindsay Mangin 12/11/2015 9:40:00 AM | | Juney Hay | | |
| Completed By: Lindsay Mangin 12/14/2015 8:41:47 AM | | Streety Hopes | | ļ |
| Reviewed By: 0 12/14/15 | | | | |
| Chain of Custody | | E C | | , |
| 1. Custody seals intact on sample bottles? | Yes 🐼 | No 🗆 | Not Present | |
| 2. Is Chain of Custody complete? | Yes 🗹 | No 🗆 | Not Present | |
| How was the sample delivered? | Courier | | | |
| 3. How was the sample delivered? | <u>Oddioi</u> | | | |
| <u>Log In</u> | | | | |
| 4. Was an attempt made to cool the samples? | Yes 🐼 | No 🗆 | na 🗆 | |
| 5. Were all samples received at a temperature of >0° C to 6.0°C | Yes 🗹 | No 🗆 | NA □ | |
| 6. Sample(s) In proper container(s)? | Yes 🕝 | No 🗆 | | |
| 7. Sufficient sample volume for indicated test(s)? | Yes 🐼 | No 🗆 | | |
| 8. Are samples (except VOA and ONG) properly preserved? | Yes 🐼 | No 🗆 | | |
| 9. Was preservative added to bottles? | Yes 🗌 | No 🐼 | NA 🗆 | |
| 10.VOA vials have zero headspace? | Yes | No 🗆 | No VOA Vials | |
| 11. Were any sample containers received broken? | Yes 🗆 | No 🗹 | | ! |
| | | | # of preserved bottles checked | İ |
| 12. Does paperwork match bottle labels? | Yes 🖈 | No 🗆 | for pH: (<2 or >12 unless note | ed) |
| (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? | Yes 🐼 | No 🗆 | Adjusted? | , |
| 14. Is it clear what analyses were requested? | Yes 🐼 | No 🗆 | | |
| 15. Were all holding times able to be met? | Yes 🗹 | No 🗆 | Checked by: | |
| (If no, notify customer for authorization.) | | | <u> </u> | 1 |
| | | | | |
| Special Handling (if applicable) | | | | |
| 16. Was client notified of all discrepancies with this order? | Yes 🗌 | No 📙 | NA 🛃 | |
| Person Notified: Date: | | | | |
| By Whom: Via: | eMail |] Phone 🗌 Fax | ☐ In Person | |
| Regarding: | A-1471-27-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | AMPRONESSES SOMEWAY THE STATE OF | And the second of the second s | |
| Client Instructions: | | | | |
| 17. Additional remarks: | | | | |
| 18. Cooler Information | | | | |
| Cooler No Temp °C Condition Seal Intact Seal No | Seal Date | Signed By | | |
| 1 2.3 Good Yes | | | J | |

| HALL ENVIRONMENTAL ANALYSIS LABORATORY | | 37109 | 20 | | | | (N 10 | | elddu8 iA | | | | | | | | | | | | | |
|---|---------------------------|-----------------------|--|------------------------------|-----------------------------|--------------------------------|----------------|------------------------|---------------------------|------------|-----|----------|----------|---|---|-----|------|-------|---|------|-------------------------|------------------|
| NOX ABC | www.hallenvironmental.com | Albuquerque, NM 87109 | 505-345-4107 | quest | | | * | (1 | 40V) 808S8 -im98) 07S8 | | | | | | | | | | ÷ | | | |
| IS I | onmen | querqu | Fax 505 | Analysis Request | | | | | Anions (F,C | × | _ | <u>.</u> | | | - | | | | | | | |
| HALL ENVI | llenvir | - Albu | E. | Analys | | | | slet | RCRA 8 Me | | | | | | | | | | | | | |
| 44 | ww.ha | ₩. | Tel. 505-345-3975 | | _ | | | | EDB (Metho 8310 (PNA | _ | _ | | ļ., | _ | | | | | | 1 22 | Only. | |
| I | * | 4901 Hawkins NE | 5-345 | | <u> </u> | | | | ortieM) H9T | _ | - | | | _ | | _ | | - | | | Remarks: Chloride Only. | |
| | | 01 H | el. 50 | | | |) 89 K |)8 F | TPH Methoo | | ÷ | | | | | ij | | | | | S C S S | |
| | | 46 | F | | | | | 3.0 | TM + X3T8 | | | | | | | | | | | | mark | |
| . 1 | Ė | : | Γ- | | 1 | C08) 2/ | BMT + | 38 | TM + X3T8 | | | | | _ | _ | | | | : | | - | I |
| | | | | | | | #6 | distance of the second | 1921 | | | | | | | | | | | | Time 0940 | Time |
| | | tate #1H | | 99 | | riffin 2020 | Amber Griffin | | (의)시 기선물(H) | QU' | | i. | | : | • | | | | | | Date | Date |
| Rush | ioi | Buho BQH State #1H | | 2RP-2366 | iger. | Amber Griffin PO # 205-2020 | Am | Empore (Unex | Preservative Type | None | | | | | | *** | | | | | guest ! | |
| X Standard | Project Name: | | Project #: | | Project Manager: | | Sampler. | 1000 | Container Type and # | 1 - 4oz. | | * * * | :• :• | | | | . :: | | | | Received by: | Received by: |
| ion | | | 1210 | 575-513-8799 or 575-748-4111 | agriffin@yatespetroleum.com | ☐ Level 4 (Full Validation) | | | Sample Request ID | | · · | | | | | | | | | | usy | |
| Corpora | 80 80 | | ia, NM 88 | 8799 or 5 | vatespetro | □ Level 4 | | | Samp | 1-5' | | | | • | | ÷. | | * * * | | | iby: | l by: |
| Chain-or-Custody Record Yates Petroleum Corporation | | | eet Artesi | 575-513- | agriffin@ | | □ Other | | Matrix | | • | | | | | | | | | | Relinquished by: | Relinquished by: |
| hain- Yates F | | dress: | 4th Str | : | 3X#: | kage. d | on: | ype) | Time | 10:10 Soil | | | | | | | | | | | Time: %.03∕4 | Тіте: |
| Client: | i A | Mailing Address: | 105 South 4th Street Artesia, NM 88210 | Phone # | email or Fax#: | OA/QC Package: □ Standard | Accreditation: | □ EDD (Type) | Date | 12/7/2015 | | | | | | | | | | | Date: 2 10 15 | |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

January 04, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111

FAX

RE: Buho BQH State #1H

OrderNo.: 1512601

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/11/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1512601

Date Reported: 1/4/2016

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: 1-6'

enent Sample 1D: 1-0

Collection Date: 12/7/2015 10:30:00 AM

Project: Buho BQH State #1H **Lab ID:** 1512601-001

CLIENT: Yates Petroleum Corporation

Matrix: SOIL

Received Date: 12/11/2015 9:40:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------|--------|-------|----------|----|--------------------|-----------------|
| EPA METHOD 300.0: ANIONS | | | | | Anal | yst: JRR |
| Chloride | 470 | 30 | mg/Kg | 20 | 12/16/2015 2:15:13 | PM 22833 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 2
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1512601

04-Jan-16

Client:

Yates Petroleum Corporation

Project:

Buho BQH State #1H

Sample ID MB-22833

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 22833

RunNo: 30906

Prep Date: 12/16/2015

Analysis Date: 12/16/2015

SeqNo: 944921

Units: mg/Kg

HighLimit

Result

SPK value SPK Ref Val %REC LowLimit

%RPD

RPDLimit

Qual

Chloride

ND 1.5

SampType: LCS

PQL

TestCode: EPA Method 300.0: Anions

LCSS Client ID:

Batch ID: 22833

PQL

1.5

RunNo: 30906

Units: mg/Kg

HighLimit

Prep Date: 12/16/2015

Sample ID LCS-22833

Analysis Date: 12/16/2015

SeqNo: 944922

%RPD **RPDLimit** Qual

Analyte

SPK value SPK Ref Val

%REC 92.8

15.00

90

LowLimit

110

Chloride

0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

| | | | And the second s | |
|---|-------------------|---------------|--|---------------------|
| Client Name: Yates Petroleum Corporat Work Order Number: | 1512601 | 228 | RcptNo: 1 | |
| Received by/date: 5A 12/11/15 | | ~ الله لا نس | | İ |
| Logged By: Lindsay Mangin 12/11/2015 9:40:00 AM | 1 | James Harry D | | |
| Completed By: Lindsay Mangin 12/14/2015 8:39:44 AN | 5 | Junely Hayer | | |
| Reviewed By: /2/14/15 | | | s <u>s</u> | |
| Chain of Custody | | | | |
| 1. Custody seals intact on sample bottles? | Yes 🐼 | No 🗆 | Not Present | |
| 2. Is Chain of Custody complete? | Yes 😿 | No 🗆 | Not Present | |
| 3. How was the sample delivered? | Courier | | | |
| <u>Log In</u> | | | | |
| 4. Was an attempt made to cool the samples? | Yes 🗹 | No 🗆 | na 🗆 | |
| 5. Were all samples received at a temperature of >0° C to 6.0°C | Yes 🗹 | No 🗆 | NA □ | |
| 6. Sample(s) in proper container(s)? | Yes 🔝 | No 🗆 | | |
| 7. Sufficient sample volume for indicated test(s)? | Yes 🗹 | No 🗆 | | |
| 8. Are samples (except VOA and ONG) properly preserved? | Yes 🗹 | No ∐ | | |
| 9. Was preservative added to bottles? | Yes 🔲 | No 🗹 | NA 🗆 | |
| 10.VOA vials have zero headspace? | Yes 🗌 | No 🗆 | No VOA Vials | |
| 11. Were any sample containers received broken? | Yes | No 🗹 | # of preserved | |
| | [2] | [] | bottles checked for pH: | |
| 12.Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes 🗹 | No 🗀 i | | r >12 unless noted) |
| 13. Are matrices correctly identified on Chain of Custody? | Yes 🗹 | No 🗆 | Adjusted? | |
| 14. Is it clear what analyses were requested? | Yes 🗹 | No 🗆 | | |
| 15. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes 🗹 | No 🗆 | Checked by: | |
| · | | | | |
| Special Handling (if applicable) | . . \Box | , | NA 🗹 | |
| 16. Was client notified of all discrepancies with this order? | Yes 🗆 | No ∐ | NA 🛃 | 1 |
| Person Notified: Date: | 1 | 4.0 | | |
| By Whom: Via: | eMail [| Phone Fax | In Person | |
| Regarding: | | | Anno Bill Control of the Control of | |
| Client Instructions: | | 2 | | ! |
| 17. Additional remarks: | | | | |
| 18. Cooler Information | Seal Date | Signed By | ı | |
| Cooler No Temp °C Condition Seal Intact Seal No 1 2.3 Good Yes | OBAL DAIG | Gigiled by | 1 | |
| | | | | |

| Client: Trace Petroleum Corporation X Standard Rush Project Name: Pr | Che | ain- | of-Cus | Chain-of-Custody Record | ecord | Turn-Around Time: | | | 12 | | | I | | Z | 5 | 200 | Σ | M | E | _ |
|--|---------------|----------|--------------|-------------------------|-----------------------|-------------------------|---------------------|----------------|--------------------|-------------|----------------|------------------|-------|------------|-----------|------------|------------|-------------|----------|---|
| Project Name Proj | | ates F | etroleum | Corporatio | Ē | X Standard | * | , l | | | lГ | A | A | Z | S | AB | Ö | S | 0 | X |
| 105 South 4th Street Artesia, NM 8210 | | | | | | Project Name | ä | | 1 No. | | | \$ | w.hal | envir | onmen | : o: ltal: | Ę | | | |
| Propect ## STR-2366 Propect ## Strandard Propect Manager Amber Griffin Propect Manager Amber Griffin Propect Manager Amber Griffin Propect Manager Propect Manager Amber Griffin Propect Manager Propect Propect Manager Propect Manager Propect Manager Propect Propect Manager Propect Manager Propect Manager Propect Propect Manager Propect Manager Propect Propect Propect Propect Manager Propect Propect Propect Propect Pro | Mailing Addr | ess: | i.i | | * | | Buho BQH S | State #1H | | 49(| Ha Ha | wkins | 빌 | Albu | querqu | le, N | A 871 | 60 | | |
| Phone ## 575-513-8799 or 575-748-4111 Project Manager. Amber Griffin A | 105 South 4 | th Str | eet Artes | ia, NM 882 | 10 | Project #: | | | | Ţ | . 505 | -345. | 375 | Fa | x 505 | -345 | 4107 | | | |
| Container Time Matrix Sample Request Date Formation Project Manager Amber Griffin Pot # 205-2020 Container Pot # 205-2020 Container Pot # 205-2020 Container Pot # 205-2020 Container Preservative | Phone #: | | 575-513 | 8799 or 575 | -748-4111 | | 2RP-2 | 366 | š• | | | | A | nalys | is Rec | quest | | | | |
| Comparison Com | email or Fax | # | agriffin@ | yatespetrole | um.com | Project Mana | ger. | | | | ėse | | | | | | | | | |
| Standard | QA/QC Packa | ge: | | | | e . | Amber G | iriffin | | | id\a | • • | | | _ | | | | | |
| Container Container Container Preservative Container Contain | ☐ Standard | | | □ Level 4 (| Full Validation) | | PO # 205 | -2020 | , 5,8 | | SBĐ | | | | | | | | | |
| Date Time Matrix Sample Request ID Type and # Type Preservative Accreditation | | Office | | | Sampler: | . 55/4/41 | nber Griffin | # # | | | | | | | | (A | | | |
| Date Time Matrix Sample Request ID Type and # Type # + + + + + + + + + + + + + + + + + + | C EDD (Tvp | (e) | | | | Sample Tend | serei lurei | | TO TO | | | | : | - | | | OV. | | | 8 |
| 12772015 10:30 Soil 1-6" 1-402 None | Date | Time | Matrix | | Request ID | Container Type and # | | HEAL | | | | | | | | | -imə2) 072 | | | |
| Time: Relinquished by: Received by: PH ONLY PH ONLY Pates Time Remarks: Chloride On Pates Time Pates T | | 10:30 | lio | 1-6, | | | None | 5 | 8 | _ | | | | _ | | _ | 8 | + | _ | |
| Date: Time: Relinquished by: Partial Part | | | | | | | | | | Ļ | - | i - | | + | | | \vdash | ╀ | _ | |
| Date: Time: Relinquished by: Received by: Received by: Received by: Date Time Remarks: Chloride On Time: Relinquished by: Received by: Date Time Remarks: Chloride On It necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted to other accredited laboratories. | | | | | | | | · | | | | - | | <u> </u> | - | | | - | <u> </u> | |
| Date: Time: Relinquished by: Time: Relinquished by: Received by: Date Time Time: ime: Time: Time: Time: Time: | | | | | | | | | | | <u> </u> | - | | - | | | | - | _ | |
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| Time: Relinquished by: Received by: Received by: Received by: Time: Relinquished by: Received by: Time: Relinquished by: Time Date Time Date Time Date Time Date Time Date Time Date Time Date Time Date Time | | | | | | | | | | | - 1 | | | | | | | | ļ. | |
| Time: Relinquished by: Received by: Any sub-contracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted | | | | | | | | | | | | | | | | | | | | |
| Time: Relinquished by: S.00 k. O. M. D. M. C. M | 1. | | | | | | | | | | | | | - | | 1 | | | | |
| Time: Relinquished by: Figure Remarks: Chloride On Pate Time Remarks: Chloride On | | | ,e | | | | | | | | •! | | | | | | | | | |
| Time: Relinquished by: Received by: PH. Met Interest Remarks: Chloride On Films Remarks: Chloride On Films Relinquished by: Received by: Received by: Date Time Time Remarks: Chloride On Interessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted to other accredited laboratories. | | | | . : | | | | | (4) | | | : | | - | | | | | | |
| Time: Refilinguished by: Date Time Received by: Date Time If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted | 8 | Te: | Relinquishe | d by: | Kin | Received by: | lut ! | N | | marks | Chlo | ride C | nly. | | | | | | | |
| This serves as notice of this possibility. Any sub-contracted | | ne: | Relinquishe | d by: | | Received by: | | | Time | | | | | | | | | | | |
| | If ne | cessary, | samples subn | nitted to Hall Envir | ronmental may be subc | ontracted to other ac | credited laboratori | This serves as | notice of this pos | sibility. A | ny sub- | contracts | | vill be cl | early not | ated on t | he anal | yfical re | port. | |
| | | • | <u> </u> | · | | | | | | | | i | | | : | | | | | |