### Bratcher, Mike, EMNRD

From: Sent: To: Cc: Subject: Bratcher, Mike, EMNRD Tuesday, December 06, 2011 1:14 PM 'Amber Cannon' Bob Asher RE: Martha AIK Federal #1

Amber,

I have a couple of questions on this submittal.

- Comp 1, 2 & 3 were comp samples of both areas (North & South). Has this material been removed?
- I would have a concern with Grab N6 in that it more than doubled from the upper sample point (Grab N5). While
  I would agree that 1710 mg/kg is not an exceptionally high number, I think it should be investigated a little
  deeper to make sure the trend up, doesn't continue.

The second bullet point was not actually a question, but let me know what you think.

Thanks,

Mihe Bratcher NMOCD District 2 811 S. First Street Artesia, NM 88210 575-748-1283 Ext. 108 575-626-0857 mike.bratcher@state.nm.us

From: Amber Cannon [mailto:ACannon@yatespetroleum.com]
Sent: Monday, December 05, 2011 10:59 AM
To: Bratcher, Mike, EMNRD
Cc: Bob Asher
Subject: FW: Martha AIK Federal #1

Mike,

Please find attached a site diagram and an analytical results table (along with analytical results from the laboratory) for the Martha AlK Federal #1. Based on the most recent analytical results (Report 426916) Yates Petroleum would like to request closure and permission to backfill as we found chloride decrease at 4', 5' and 6'. Please let me know if these results are acceptable and I will get a Final C-141 submitted to your office.

Thank you for your time,

Amber Cannon Environmental Regulatory Agent Yates Petroleum Corporation Office: (575) 748-4111 Cell: (575) 513-8799 From: Amber Cannon
Sent: Tuesday, September 13, 2011 2:10 PM
To: 'Bratcher, Mike, EMNRD'
Cc: Jerry Fanning; Bob Asher; Dade, Randy, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD; Bailey, Jami, EMNRD
Subject: RE: Martha AIK Federal #1

Mr. Bratcher,

Per our phone conversation on September 12, 2011, Yates Petroleum Corporation is going to return to the Martha AlK Federal #1 for further chloride delineation. We appreciate you cooperation and guidance in this matter, as we all understand chloride delineation is an ongoing issue with no official guidance to follow for chloride limits. Yates Petroleum will take samples at 4', 5', and 6' to show a decrease in the elevated chloride levels, as you requested. Yates Petroleum will notify you 24 hours prior of sampling event for delineation of chlorides so that you may be present. Yates Petroleum will send these samples to an NMOCD approved laboratory for analysis and will then submit the results to NMOCD.

A work plan will also be submitted to your office for this release.

Thank you for your time,

Amber Cannon Yates Petroleum Corporation 575-748-4111 (Office) 575-513-8799 (Cell)

----Original Message----From: Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]
Sent: Monday, September 12, 2011 8:20 AM
To: Amber Cannon
Cc: Jerry Fanning; Bob Asher; Dade, Randy, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD; Bailey, Jami, EMNRD
Subject: RE: Martha AIK Federal #1

Amber,

Chloride levels are too elevated and the extent of contamination has not been defined. OCD will not approve closure for this site at this time.

### Mike Bratcher

NMOCD District 2 811 S. First Street Artesia, NM 88210 575-748-1283 Ext. 108 575-626-0857 mike.bratcher@state.nm.us

From: Amber Cannon [mailto:ACannon@yatespetroleum.com] Sent: Monday, September 12, 2011 7:58 AM To: Bratcher, Mike, EMNRD Cc: Jerry Fanning; Bob Asher Subject: Martha AIK Federal #1 Mike,

The following analytical results are for your review. The impacted soils were excavated and hauled to an NMOCD approved facility. If these results are acceptable, Yates would like to then request closure.

Please call me if you have any questions.

### Martha AIK Federal #1

| Analytical Report-425342<br>& 425341 | Sample Date | Sample Type | Depth - | BTEX | GRO | ,DRO | <u>,</u> |
|--------------------------------------|-------------|-------------|---------|------|-----|------|----------|
| Comp-01.0                            | 8/24/2011   | Comp/Auger  | 1'      | ND   | ND  | 87.0 | '        |
| Comp-02.0                            | 8/24/2011   | Comp/Auger  | 2'      | ND   | ND  | 46.2 |          |
| Comp-03.0                            | 8/24/2011   | Comp/Auger  | 3'      | ND   | ND  | 19.4 |          |

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 150', per NMOSE).

All results are ppm. Chlorides results are for documentation.

Thank you.

## **Amber Cannon**

Yates Petroleum Corporation Office: (575) 748-4111 Cell: (575) 513-8799 acannon@yatespetroleum.com

### Bratcher, Mike, EMNRD

| From:<br>Sent:  | Amber Cannon [ACannon@yatespetroleum.com]<br>Monday, December 05, 2011 10:59 AM                                |
|-----------------|--|
| То:             | Bratcher, Mike, EMNRD<br>Bob Asher   |
| Cc:<br>Subject: | FW: Martha AlK Federal #1  |
| Attachments:    | MarthaAlKFederal1_Diagram&SampleTable.pdf MarthaAlKFederal1_426558-426559.pdf;<br>MarthaAlKFederal1_426916.pdf |

Mike,

Please find attached a site diagram and an analytical results table (along with analytical results from the laboratory) for the Martha AIK Federal #1. Based on the most recent analytical results (Report 426916) Yates Petroleum would like to request closure and permission to backfill as we found chloride decrease at 4', 5' and 6'. Please let me know if these results are acceptable and I will get a Final C-141 submitted to your office.

Thank you for your time,

### Amber Cannon

Environmental Regulatory Agent Yates Petroleum Corporation Office: (575) 748-4111 Cell: (575) 513-8799 Email: <u>acannon@yatespetroleum.com</u>

From: Amber Cannon
Sent: Tuesday, September 13, 2011 2:10 PM
To: 'Bratcher, Mike, EMNRD'
Cc: Jerry Fanning; Bob Asher; Dade, Randy, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD; Bailey, Jami, EMNRD
Subject: RE: Martha AIK Federal #1

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A work plan will also be submitted to your office for this release.

Thank you for your time,

Amber Cannon Yates Petroleum Corporation 575-748-4111 (Office) 575-513-8799 (Cell)

> -----Original Message-----**From:** Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]

> > 1

Sent: Monday, September 12, 2011 8:20 AM
To: Amber Cannon
Cc: Jerry Fanning; Bob Asher; Dade, Randy, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD; Bailey, Jami, EMNRD
Subject: RE: Martha AIK Federal #1

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NMOCD District 2 811 S. First Street Artesia, NM 88210 575-748-1283 Ext. 108 575-626-0857 mike.bratcher@state.nm.us

From: Amber Cannon [mailto:ACannon@yatespetroleum.com]
Sent: Monday, September 12, 2011 7:58 AM
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Subject: Martha AIK Federal #1

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Please call me if you have any questions.

## Martha AIK Federal #1

| Analytical Report-425342<br>& 425341 | Sample Date | Sample Type | Depth | BTEX | GRO | DRO  | жт.<br>С |
|--------------------------------------|-------------|-------------|-------|------|-----|------|----------|
| Comp-01.0                            | 8/24/2011   | Comp/Auger  | 1'    | ND   | ND  | 87.0 | 8        |
| Comp-02-0                            | 8/24/2011   | Comp/Auger  | 2'    | ND   | ND  | 46.2 | 4        |
| Comp-03.0                            | 8/24/2011   | Comp/Auger  | 3'    | ND   | ND  | 19.4 | 1        |

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 150', per NMOSE).

All results are ppm. Chlorides results are for documentation.

Thank you.

Amber Cannon Yates Petroleum Corporation Office: (575) 748-4111 Cell: (575) 513-8799 acannon@yatespetroleum.com

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| Analytical Report-<br>425342 & 425341 | Sample/Area  | Sample Date | Sample Type  | Depth | BTEX | GRO | DRO  | TOTAL                                       | Chlorides |
|---------------------------------------|--------------|-------------|--------------|-------|------|-----|------|---|-----------|
| Comp-01.0                             | Release Area | 8/24/2011   | Comp/Auger   | 1'    | ND   | ND  | 87   | 87  | 2,590     |
| Comp-02.0                             | Release Area | 8/24/2011   | Comp/Auger   | 2'    | ND   | ND  | 46.2 | 46.2  | 3,460     |
| Comp-03.0                             | Release Area | 8/24/2011   | Comp/Auger   | 3'    | ND   | ND  | 19.4 | 19.4  | 2,920     |
| Analytical Report-<br>426916          | Sample Area  | Sample Date | Sample Type  | Depth | BTEX | GRO | DRO  | TOTAL                                       | Chlondes  |
| Grab N4                               | Release Area | 11/22/2011  | Grab/Backhoe | 4'    |      |     |      |   | 593       |
| Grab N5                               | Release Area | 11/22/2011  | Grab/Backhoe | 5'    |      |     |      |   | 780       |
| Grab N6                               | Release Area | 11/22/2011  | Grab/Backhoe | 6'    |      |     |      |   | 1,710     |
| Grab S4                               | Release Area | 11/22/2011  | Grab/Backhoe | 4'    |      |     |      | יין איז | 200       |
| Grab S5                               | Release Area | 11/22/2011  | Grab/Backhoe | 5'    |      |     |      |   | 164       |
| Grab S6                               | Release Area | 11/22/2011  | Grab/Backhoe | 6'    |      |     |      |   | 77        |

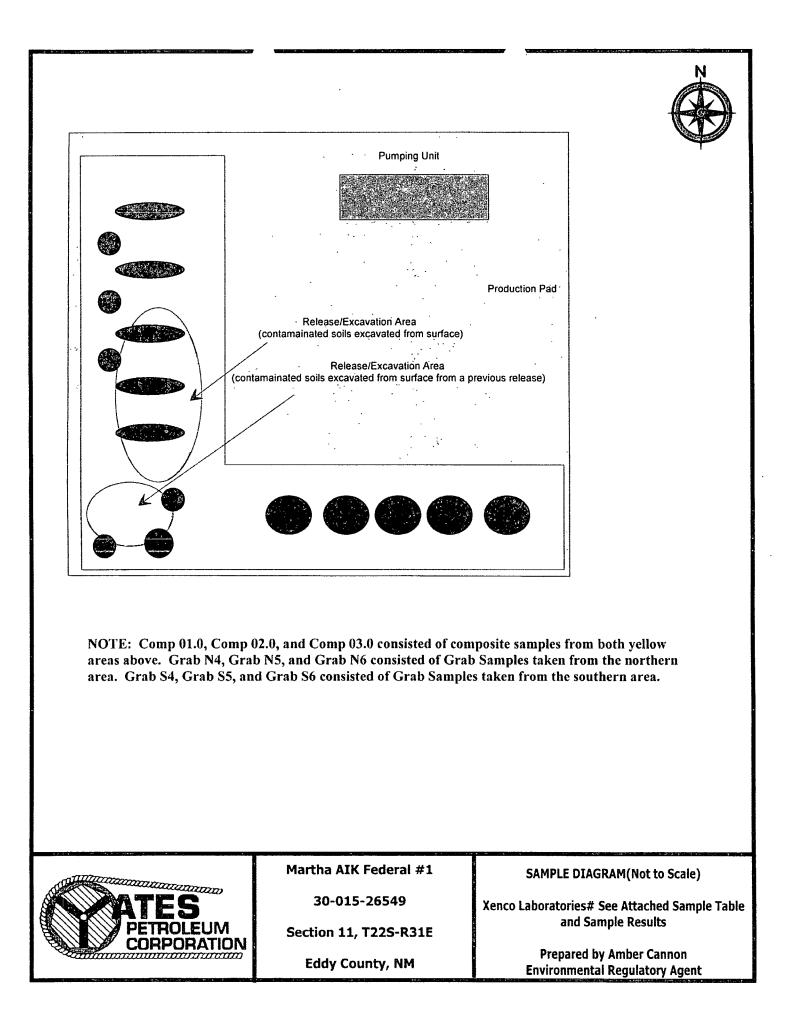
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# Martha AIK Federal #1

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 150', Section 11-22S-31E, per Trend Map).

All results are ppm.Chlorides for documentation.

Released: 30 B/PW, 5 B/O; Recovered: 0 B/PW, 5 B/O. Release Date: 7/8/2011



# Analytical Report 426558

for Yates Petroleum Corporation

Project Manager: Amber Cannon Martha AIK Federal #1 30-015-26549

08-SEP-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALII), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)



08-SEP-11



Project Manager: Amber Cannon Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 426558 Martha AIK Federal #1 Project Address: Eddy County

### Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 426558. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 426558 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II Odessa Laboratory Manager

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A CARDEN AND A CARDEN



Sample Cross Reference 426558

## Yates Petroleum Corporation, Artesia, NM Martha AIK Federal #1

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| Comp-01.0 | S      | 08-24-11 10:56 | 1 - 1 ft     | 426558-001    |
| Comp-02.0 | S      | 08-24-11 11:38 | 2 - 2 ft     | 426558-002    |
| Comp-03.0 | S      | 08-24-11 12:20 | 3 - 3 ft     | 426558-003    |

## CASE NARRATIVE



Client Name: Yates Petroleum Corporation Project Name: Martha AIK Federal #1



 Project ID:
 30-015-26549

 Work Order Number:
 426558

Report Date: 08-SEP-11 Date Received: 08/26/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-868829 BTEX by EPA 8021B SW8021BM

Batch 868829, o-Xylene recovered below QC limits in the Matrix Spike. Samples affected are: 426558-003, -001, -002. The Laboratory Control Sample for o-Xylene is within laboratory Control Limits

Batch: LBA-869315 TPH By SW8015B Mod SW8015B\_NM

Batch 869315, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike Duplicate. Samples affected are: 426558-003, -001, -002. The Laboratory Control Sample for C6-C10 Gasoline Range Hydrocarbons is within laboratory Control Limits



Project Id: 30-015-26549

Project Location: Eddy County

Contact: Amber Cannon

# Certificate of Analysis Summary 426558 Yates Petroleum Corporation, Artesia, NM

Project Name: Martha AIK Federal #1



Date Received in Lab: Fri Aug-26-11 09:30 am

Report Date: 08-SEP-11

| Toject Location: Eucly County      |            |           |         |             |         |           |         | Project Manager: | Brent Barron II |  |
|------------------------------------|------------|-----------|---------|-------------|---------|-----------|---------|------------------|-----------------|--|
|                                    | Lab Id:    | 426558-   | 001     | 426558-0    | 002     | 426558-0  | 003     |                  |                 |  |
| Anglusia Deguasted                 | Field Id:  | Comp-0    | 1.0     | Comp-02     | 2.0     | Comp-02   | 3.0     |                  |                 |  |
| Analysis Requested                 | Depth:     | 1-1 fi    |         | 2-2 ft      |         | 3-3 ft    |         |                  |                 |  |
|                                    | Matrix:    | SOIL      |         | SOIL        |         | SOIL      |         |                  |                 |  |
|                                    | Sampled:   | Aug-24-11 | 10:56   | Aug-24-11   | 11.38   | Aug-24-11 | 12:20   |                  |                 |  |
| BTEX by EPA 8021B                  | Extracted: | Aug-29-11 | 14:00   | Aug-29-11   | 14:00   | Aug-29-11 | 14:00   |                  |                 |  |
|                                    | Analyzed:  | Aug-30-11 | 00:40   | Aug-30-11   | 01:03   | Aug-30-11 | 01-26   |                  |                 |  |
|                                    | Units/RL:  | mg/kg     | RL      | mg/kg       | RL      | mg/kg     | RL      |                  |                 |  |
| Benzene                            |            | ND        | 0.00103 | ND          | 0.00103 | ND        | 0.00103 | _                |                 |  |
| Toluene                            |            | ND        | 0.00205 | ND          | 0.00205 | ND        | 0.00205 |                  |                 |  |
| Ethylbenzene                       |            | ND        | 0.00103 | ND          | 0.00103 | ND        | 0.00103 |                  |                 |  |
| m_p-Xylenes                        |            | ND        | 0.00205 | ND          | 0 00205 | ND        | 0.00205 |                  |                 |  |
| o-Xylene                           |            | ND        | 0.00103 | ND          | 0.00103 | ND        | 0.00103 |                  |                 |  |
| Total Xylencs                      |            | ND        | 0.00103 | ND          | 0.00103 | ND        | 0.00103 |                  |                 |  |
| Total BTEX                         |            | ND        | 0.00103 | ND          | 0.00103 | ND        | 0.00103 |                  |                 |  |
| Percent Moisture                   | Extracted: |           |         |             |         |           |         |                  |                 |  |
|                                    | Analyzed:  | Aug-26-11 | 12:25   | Aug-26-11   | 12:25   | Aug-26-11 | 12:30   |                  |                 |  |
|                                    | Units/RL:  | %         | RL      | %           | RL      | %         | RL      |                  |                 |  |
| Percent Moisture                   |            | 2.75      | 1.00    | 2.97        | 1.00    | 2.99      | 1.00    |                  |                 |  |
| TPH By SW8015B Mod                 | Extracted: | Aug-26-11 | 12:25   | Aug-26-11   | 12:25   | Aug-26-11 | 12:25   |                  |                 |  |
|                                    | Analyzed:  | Sep-04-11 | 00:57   | Sep-04-11 ( | 01:27   | Sep-04-11 | 01:59   |                  |                 |  |
|                                    | Units/RL:  | mg/kg     | RL      | mg/kg       | RL      | mg/kg     | RL      |                  |                 |  |
| C6-C10 Gasoline Range Hydrocarbons |            | ND        | 15.4    | ND          | 15.4    | ND        | 15.4    |                  |                 |  |
| C10-C28 Diesel Range Hydrocarbons  |            | 87.0      | 15.4    | 46.2        | 15.4    | 19.4      | 15.4    |                  |                 |  |
| Total TPH                          |            | 87.0      | 15.4    | 46.2        | 15.4    | 19.4      | 15.4    |                  |                 |  |

This analytical report, and the entire data package is represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this simulytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our llability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

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Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

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Brent Barron II

Odessa Laboratory Manager

Version: 1.%

Page 5 of 15



# Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

| RL | Reportin | g Limit |
|----|----------|---------|
|----|----------|---------|

| MDL Method Detection Limit       | SDL Sample Detection Limit    | LOD Limit of Detection    |
|----------------------------------|-------------------------------|---------------------------|
| PQL Practical Quantitation Limit | MQL Method Quantitation Limit | LOQ Limit of Quantitation |
| <b>DL</b> Method Detection Limit |                               |                           |

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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|---|----------------|----------------|
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| 9701 Harry Hines Blvd , Dallas, TX 75220    | (214) 902 0300 | (214) 351-9139 |
| 5332 Blackberry Drive, San Antonio TX 78238 | (210) 509-3334 | (210) 509-3335 |
| 2505 North Falkenburg Rd, Tampa, FL 33619   | (813) 620-2000 | (813) 620-2033 |
| 5757 NW 158th St, Miami Lakes, FL 33014     | (305) 823-8500 | (305) 823-8555 |
| 12600 West I-20 East, Odessa, TX 79765      | (432) 563-1800 | (432) 563-1713 |
| 6017 Financial Drive, Norcross, GA 30071    | (770) 449-8800 | (770) 449-5477 |
| 3725 E. Atlanta Ave, Phoenix, AZ 85040      | (602) 437-0330 |                |

| XEN   | CO-Environme                                      | ental I            | Lak                 | 0                  | f Texas   | 5                    |                | (<br> <br> |                           |        | C<br>West<br>a, Tex | <b> -2</b> 0 | Easi  | t    | ะบรา | יססי                               | RE                           | cor                       | RD A                             | ANC   |  | Pho   | ne:                          | 432  | EQ(<br>-563-<br>-563-              | 180    | 0                       |                        |                    |
|---|---|--------------------|---------------------|--------------------|---|----------------------|----------------|------------|---------------------------|--------|---------------------|--------------|---|------|------|------------------------------------|------------------------------|---------------------------|----------------------------------|---|--|---|------------------------------|--|------------------------------------|--------|-------------------------|------------------------|--------------------|
| F   | Project Manager: Amber Cann                       | on                 |                     |                    |   |                      |                | 1          |                           |        |                     |              |   |      |      | I                                  | Proj                         | ect N                     | ame                              | : <u>M</u>  | art  | ha  | Aik                          | ( F  | ede                                | ral    | #1                      | <br>                   |                    |
| c   | Company Name Yates Petrole                        | oum Corporati      | on                  |                    |   |                      |                |            |                           |        |                     |              |   |      |      |                                    |                              | Proje                     | ect#                             | : 30  | -01  | 5-26  | 549                          | 2  |                                    |        |                         | <br>                   |                    |
| c   | Company Address: 105 South 4t                     | h Street           |                     |                    |   |                      |                |            |                           |        |                     |              |   |      |      |                                    | Pr                           | oject                     | Loc                              | : <u>E</u> d  | dy C   | ount  | <u>y</u>                     |  |                                    |        |                         | <br>                   |                    |
| c   | ity/State/Zip: <u>Artesia, NM</u>                 | 88210              |                     |                    |   |                      |                |            |                           |        |                     |              |   |      |      |                                    |                              | I                         | PO #                             | : 10  | 3202   | 0   |                              |  |                                    |        |                         | <br>                   |                    |
| т   | elephone No: <u>575-748-411</u>                   | 1                  |                     |                    |   | Fax No:              |                | 575        | 5-748                     | 8-458  | 5                   |              |   |      | -    | Rep                                | ort                          | Form                      | at:                              | X   | Sta  | ndar  | d                            | [  | Π                                  | RRF    | ,                       | NPD                    | ES                 |
| s   |   | r Can              | MIN                 | 1                  |   | e-mail:              |                |            | ac                        | ann    | ion                 | Dγa          | ites  | pet  | role | um.                                | cor                          | n                         |                                  |   |  |   |                              |  |                                    |        |                         |                        |                    |
| (lab use on   |   |                    |                     |                    |   |                      |                |            |                           |        |                     |              |   |      |      |                                    | f                            |                           |                                  |   | CLP.   | Ar  | nalyz                        | ē Fo   | ir:                                | ч<br>Т | T                       | -                      | ٦                  |
| ORDER   |   | G                  |                     |                    |   |                      |                | ļ          | <b>–</b>                  | Presen | vation              | 8. # 0       | Coat  | spor |      | Matri                              | -                            | 8                         |                                  |   | TAL:   |   |                              |  |                                    |        |                         |                        |                    |
| CA C IAB # (lab use only)                                   | FIELD CODE<br>Comp-01.0<br>Comp-02.0<br>Comp-03.0 |                    | C 1 Beginning Depth | C Z L Ending Depth | 8/24/2011<br>8/24/2011  | 10:56 AM<br>11:38 AM | Field Filtered | _          | 8 <u>3</u><br>X<br>X<br>X | HNO3   | HCI<br>H-SCI.       | NaOH         | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | None |      | CO CO COV - Groundwater S=SoluSold | NP=Non-Polable Specify Olher | X X X 17PH 4181 8015M 801 | is (Ce, Mg, Na, K)               | Anfons (CI, SO4, Alkalinity)                          | SAR / ESP / CEC  | Metals. As Ag Ba Cd Cr Pb Hg Se                                   | Volatiles                    |  | X X X BIEX 80218/5030 or BTEX 8260 | ža C A | X X Chlorides           | RICH TAT (as should be | X X X Standard TAT |
|   |   |                    |                     |                    |   |                      |                |            |                           |        |                     |              |   |      |      |                                    |                              |                           |                                  |   |  |   |                              |  |                                    |        |                         |                        |                    |
|   |   |                    |                     |                    |   |                      |                |            |                           |        |                     | T            |   |      |      |                                    |                              |                           |                                  |   |  |   |                              |  |                                    |        |                         |                        |                    |
|   | PLEASE PUT CHLORID                                | ES                 |                     |                    |   |                      | $\square$      |            | -                         |        |                     | _            |   |      | _    |                                    |                              |                           | 1                                | <u> </u>  |  |   | _                            | $\square$  |                                    | 1      |                         | _                      | $\bot$             |
| Special Ins<br>Refinquished<br>Refinquished<br>Refinquished | 1 bv:<br><u>per Cannon</u><br>1 bv:               | 8015B, BTI<br>Date | े<br>इन्द्र         | ne<br>PM1<br>ne    | & Chlorides.<br>Received by:<br>Received by:<br>Received by ELC |                      |                | -          | res                       | uits : | as m                | g/kg         | ]<br> . TF                                    | hank | Date |                                    | τ                            | me<br>me                  | Sa<br>VC<br>La<br>Cu<br>Cu<br>Sa | mple<br>DCs I<br>bets<br>stod<br>stod<br>mple<br>by ( | ree<br>on co<br>y sea<br>y sea<br>Har<br>Samp<br>Couri | ntain<br>of H<br>onta<br>als o<br>als o<br>nd D<br>oler/C<br>jer? | n co<br>elive<br>Client<br>L | Íntac<br>spac<br>(s)<br>intail<br>olen<br>ered<br>t Rej<br>UPS | :t?<br>:e?<br>ner(s)<br>(s)        |        | (<br>(<br>(<br>(<br>Fed |                        | A<br>Star          |

:

: in



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Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

## Prelogin / Nonconformance Report - Sample Log-In

| Client:    | Vates            |
|------------|------------------|
| Date/Time: | 8-26-11 9:30     |
| Lab ID # : | 426558/426559-CI |
| Initials:  | LI               |

### Sample Receipt Checklist

| 1. Samples on ice?  | В                   | lue      | (Water) | No          |      |
|---|---------------------|----------|---------|-------------|------|
| 2. Shipping container in good condition?                            |                     | es       | No      | None        |      |
| 3. Custody seals intact on shipping container (cooler) and bottles? | 5                   | 98       | No      | N/A         |      |
| 4. Chain of Custody present?  | 0                   | (es)     | No      |             |      |
| 5. Sample instructions complete on chain of custody?                | $\overline{\delta}$ | es       | No      |             |      |
| 6. Any missing / extra samples?                                     | Ň                   | /es      | No      | ,           |      |
| 7. Chain of custody signed when relinquished / received?            | $\Box$              | <u>B</u> | No      |             |      |
| 8. Chain of custody agrees with sample label(s)?                    | $\overline{\Delta}$ | E)       | No      |             |      |
| 9. Container labels legible and intact?                             | 5                   |          | No      |             |      |
| 10. Sample matrix / properties agree with chain of custody?         | 16                  | i de     | No .    |             |      |
| 11. Samples in proper container / bottle?                           | 16                  | res      | No      |             | <br> |
| 12. Samples properly preserved?                                     | 6                   | les      | No      | N/A         |      |
| 13. Sample container intact?  | 46                  | (es)     | No      |             |      |
| 14. Sufficient sample amount for indicated test(s)?                 | 6                   | res      | No      | <u> </u>    |      |
| 15. All samples received within sufficient hold time?               | 1                   | (es      | No      |             |      |
| 16. Subcontract of sample(s)?                                       | `ì                  | res      | No      | N/A         |      |
| 17. VOC sample have zero head space?                                |                     | res      | No      | NIR         |      |
| 18. Cooler 1 No. Cooler 2 No. Cooler 3 No.                          | Coo                 | ler 4 No | )       | Cooler 5 No | ·    |
| Ibs 2.1 °C Ibs °C Ibs   | °C                  | lbs      | °C      | lbs         | °C   |

#### Nonconformance Documentation

| Contact:               | Contacted by:                              | Date/Time: |   |
|------------------------|--|------------|---|
| Regarding:             |  |            |   |
| ·····                  |  |            | _ |
| Corrective Action Take |  |            |   |
|                        |  |            |   |
|                        |  |            |   |
|                        |  | · · ·      | _ |
| Check all that apply:  | Cooling process has begun shortly after sa |            |   |

apply. □ Cooling process has begun shortly after sampling event and out or temperatur condition acceptable by NELAC 5.5.8.3.1.a.1. □ Initial and Backup Temperature confirm out of temperature conditions □ Client understands and would like to proceed with analysis

# **Analytical Report 426559**

for

**Yates Petroleum Corporation** 

Project Manager: Amber Cannon Martha AIK Federal #1

30-015-26549

07-SEP-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jerscy (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

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Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZ0757)
Xenco Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)



07-SEP-11



Project Manager: Amber Cannon Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 426559 Martha AIK Federal #1 Project Address: Eddy County

### Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 426559. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 426559 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II Odessa Laboratory Manager

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Sample Cross Reference 426559



Yates Petroleum Corporation, Artesia, NM Martha AIK Federal #1

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| Comp-01.0 | S      | 08-24-11 10:56 | 1 - 1 ft     | 426559-001    |
| Comp-02.0 | S      | 08-24-11 11:38 | 2 - 2 ft     | 426559-002    |
| Comp-03.0 | S      | 08-24-11 12:20 | 3 - 3 ft     | 426559-003    |

# CASE NARRATIVE



Client Name: Yates Petroleum Corporation Project Name: Martha AIK Federal #1



 Project ID:
 30-015-26549

 Work Order Number:
 426559

Report Date: 07-SEP-11 Date Received: 08/26/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None



Project Id: 30-015-26549

Project Location: Eddy County

Contact: Amber Cannon

## Certificate of Analysis Summary 426559 Yates Petroleum Corporation, Artesia, NM

Project Name: Martha AJK Federal #1



Date Received in Lab: Fri Aug-26-11 09:30 am Report Date: 07-SEP-11

Project Manager: Brent Barron II

|                    | Lab Id:    | 426559-0  | 01        | 426559-0        | 02    | 426559-0  | 101   | <br>······ |  | 1 |
|--------------------|------------|-----------|-----------|-----------------|-------|-----------|-------|------------|--|---|
|                    | Lao 14:    | +20339-0  | UL I      | 420339-0        | VZ    | 420339-0  | 102   |            |  |   |
| Analysis Requested | Field Id:  | Comp-01   | Comp-01.0 |                 | 2.0   | Comp-03.0 |       |            |  |   |
| Analysis Requested | Depth;     | 1-1 ft    |           | 2-2 ft          |       | 3-3 ft    |       |            |  |   |
|                    | Matrix:    | SOIL      |           | SOIL            |       | SOIL      |       | 1          |  |   |
|                    | Sampled:   | Aug-24-11 | 10:56     | Aug-24-11       | 11:38 | Aug-24-11 | 12:20 | 1          |  |   |
| Anions by E300     | Extracted: |           |           |                 |       |           |       |            | ·· · · · · · · · · · · · · · · · · · · |   |
|                    | Analyzed:  | Aug-27-11 | 17:31     | Aug-27-11 1     | 17:31 | Aug-27-11 | 17:31 |            |  |   |
|                    | Units/RL:  | mg/kg     | RL        | mg/kg           | RL    | mg/kg     | RL    |            |  |   |
| Chloride           |            | 2590      | 43.2      | 3460            | 43.3  | 2920      | 43.3  |            |  |   |
| Percent Moisture   | Extracted: |           |           |                 |       |           |       |            |  |   |
|                    | Analyzed:  | Aug-26-11 | 12:30     | Aug-26-11 12:30 |       | Aug-26-11 | 12:30 |            |  |   |
|                    | Units/RL:  | %         | RL        | %               | RL    | %         | RL    |            |  |   |
| Percent Moisture   |            | 2.75      | 1.00      | 2.97            | 1.00  | 2.99      | 1.00  | <br>       |  |   |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the ond use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

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Brent Barron II

Odessa Laboratory Manager



# Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

| MDL Method Detection Limit       | SDL Sample Detection Limit    | LOD Limit of Detection    |
|----------------------------------|-------------------------------|---------------------------|
| PQL Practical Quantitation Limit | MQL Method Quantitation Limit | LOQ Limit of Quantitation |
| DL Method Detection Limit        |                               |                           |
| NC Non-Calculable                |                               |                           |
|                                  |                               |                           |

+ Outside XENCO's scope of NELAC Accreditation.

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| XE                   | NCO-Environm                 | ental                     | Lal             | 0 0                      | f Texa         | S            |                | 1<br>1<br>1            |       |      | We<br>sa, T      | st I-              | 20 E     | ast          |                        | ISTO         | DDY R   | REC      | ORI                  | DAI                      | VD A                         | Pł   | none                           | : 43                    | REG<br>12-56<br>12-56        | 53-18    | 800       |              |              |  |              |
|----------------------|------------------------------|---------------------------|-----------------|--------------------------|----------------|--------------|----------------|------------------------|-------|------|------------------|--------------------|----------|--------------|------------------------|--------------|---|----------|----------------------|--------------------------|------------------------------|--|--------------------------------|-------------------------|------------------------------|----------|-----------|--------------|--------------|--|--------------|
|                      | Project Manager: Amber Cann  | on                        |                 |                          |                |              |                | ;                      |       |      |                  |                    |          |              |                        |              | Pn  | ojeci    | t Nai                | me:                      | Ma                           | rth  | a A                            | <u>IK F</u>             | Fed                          | era      | al #^     | 1            |              |  |              |
|                      | Company Name Yates Petrol    | eum Corporat              | lon             |                          |                |              |                |                        |       |      |                  |                    |          |              |                        |              |   | Pr       | ojec                 | t#:_                     | 30-0                         | )15-   | 265                            | 49                      |                              |          |           |              | _            |  |              |
|                      | Company Address: 105 South 4 | th Street                 |                 |                          |                |              |                | _                      |       |      |                  |                    |          |              |                        | _            | 1   | Proje    | ect L                | .oc:                     | Eddy                         | COL  | unty                           |                         |                              |          |           |              |              |  |              |
|                      | City/State/Zip: Artesia, NM  | 88210                     |                 |                          |                |              |                |                        |       | _    |                  |                    |          |              | _                      |              |   |          | PC                   | ) #:                     | 1032                         | 020  |                                |                         |                              |          |           |              |              |  |              |
|                      | Telephone No: 575-748-411    | 1                         |                 |                          |                | Fax No:      |                | 57                     | 5-74  | 8-45 | 585              |                    |          |              |                        |              | Repor   | t Fo     | rmat                 |                          | x e                          | Stand  | lard                           |                         |                              | TRI      | RP        |              |              | PDE                                    | s            |
|                      | Sampler Signature:           | nature: amber Cannon e-ma |                 |                          |                |              |                |                        |       | an   | nor              | n@                 | yat      | esp          | etro                   | <br>oleu     | m.co  | <u>m</u> |                      |                          |                              |  |                                |                         |                              |          |           |              |              |  |              |
| (lab use             |                              |                           |                 |                          |                | -            |                |                        |       |      |                  |                    |          |              |                        |              |   | F        |                      |                          | TCL                          |  | Anat                           | yze F                   | or:                          |          | <br>      |              |              | T                                      | 1            |
| ORDE                 | havenalis                    |                           |                 |                          |                |              |                |                        |       | Droc | ervatio          |                    | 11 - 6 ( | •            |                        |              | Matrix  | Ē        |                      |                          | TOT                          | Ψ.   | 1                              | +                       |                              |          |           |              |              | 73 hrs                                 |              |
| LAB # (lab use only) | FIELD CODE                   | ( <u> </u>                | Beginning Depth | Ending Depth             | Date Sampled   | Time Sampled | Field Fillered | Total #. of Containers |       | LONH | HCI              | H <sub>2</sub> SD4 | NaOH     | 0            | None<br>Other / Sumtul | SL=Shidge    | GW = Groundwater S=Soil/Solid<br>NF=Non Poleble Spacity Olher |          | TPH: TX 1005 TX 1006 | Cations (Ca, Mg, Na, K)  | Arions (CI, SO4, Alkelinity) | SAK/ESP/CEC<br>Match An 4- 8- 01 C-04 th 15- | Volatiles                      | Semivolatilea           | BTEX 80219/5030 or BTEX 8260 | RCI      | N O.R.M.  | Chiorides    |              | RUSH TAT (Pre-Schedule) 24, 48, 72 hrs | Standard TAT |
| 001                  | Comp-01.0                    |                           | 1'              | 1'                       | 8/24/2011      | 10:56 AM     | <b>_</b>       | 1                      | x     |      |                  |                    |          |              |                        |              | S   | x        |                      |                          |                              |  | Τ                              | $\Box$                  | x                            |          | $\square$ | x            |              | L                                      | ×            |
| <u>co2</u>           | Comp-02.0                    |                           | 2'              | 2'                       | 8/24/2011      | 11:38 AM     | <u> </u>       | 1                      |       |      |                  |                    |          | _            |                        | 4_           | s   | X        |                      |                          |                              |  | _                              | ╞                       | X                            |          |           | ×            |              | ╞                                      | ×            |
| 063                  | Comp-03.0                    |                           | 3'              | 3'                       | 8/24/2011      | 12:20 PM     |                | 1                      | ×     | _    | $\left  \right $ |                    |          | +            |                        |              | S   | X        |                      |                          | +                            | ╇  |                                | +                       | X                            |          | ┝─╋       | ×            | +            | ┢                                      | Ľ            |
|                      |                              |                           |                 | 1                        |                |              |                |                        | ┢     |      | $\square$        |                    |          | $\neg$       |                        | ┼╴           |   | ┢        |                      |                          |                              | -  | +                              | ┢                       |                              | $\vdash$ | ┢╌╊       |              | +            | ┢                                      | ┢            |
|                      |                              |                           |                 |                          |                |              |                |                        |       |      |                  |                    |          |              |                        |              |   |          |                      |                          |                              | T  |                                | T                       |                              |          |           |              |              | L                                      | Γ            |
|                      |                              |                           | <b> </b>        |                          |                |              |                |                        |       |      |                  |                    |          | _            |                        | $\perp$      |   |          |                      | _                        |                              |  |                                | L                       |                              |          | ┝─┼╸      | $\downarrow$ |              | ╞                                      | L            |
|                      |                              |                           | -               |                          |                |              |                |                        |       |      |                  |                    | _        |              |                        |              |   |          |                      | _                        | -                            |  | +-                             | ╞                       | ┼╌┥                          | $\vdash$ | ┝━╋       | +            |              | ╞                                      | ╞            |
|                      |                              |                           |                 |                          |                |              |                |                        |       |      |                  |                    |          | +            | ┽                      |              |   |          |                      | +                        | ┽                            | -  | +                              | ┼╴                      | ┝─┦                          |          | ┢╌┼╴      | +            |              | ┢                                      | ┢            |
|                      |                              |                           |                 |                          |                |              |                |                        |       |      |                  |                    |          | 1            | 1                      |              |   |          |                      | ┢                        | -+-                          | +  | $\dagger$                      | ┢─                      |                              |          |           | +            |              |  | F            |
|                      |                              |                           |                 |                          |                |              |                |                        |       |      |                  |                    |          |              |                        |              |   |          |                      |                          |                              |  |                                | L                       | $\square$                    | Ц        |           | $\square$    |              |  | L            |
|                      | PLEASE PUT CHLORID           | ES                        |                 |                          |                |              |                |                        |       |      |                  |                    | $\dashv$ | $\downarrow$ |                        | ╞            |   |          |                      |                          |                              | _  | _                              | $\perp$                 | -                            | ┝─┤      | -         | +            | +            | ╞                                      | -            |
|                      |                              | 8015B, BTI                |                 |                          | & Chlorides.   | Please show  | v BT           | TEX                    | ( res | ults | s as             | mgi                | /kg.     | The          |                        |              |   |          |                      | Saim<br>VOC              | ple C<br>s Fre               | ionta<br>e of                                | ilner:<br>Hea                  | nenti<br>s ínta         | act?<br>ace?                 |          |           | A CLARK      | $\downarrow$ | L<br>≹≵                                | L<br>Ð       |
| Relinquis            | spertannon                   | Date<br>08/25/11<br>Date  | 3:31            | me<br>5 <b>PN1</b><br>me | Received by:   |              |                |                        |       |      |                  |                    |          | _            |                        | Date<br>Date |   | Time     |                      | Cust<br>Cust<br>Sam<br>t | ody s<br>ple H               | ieals<br>ieals<br>Iand<br>mple               | on o<br>on o<br>Deli<br>r/Clie | conta<br>coole<br>verec | ainer(<br>er(s)<br>d<br>ep ? |          | F         | Q            | X CVCXVCX    |  |              |
| Relinquis            | hed by:                      | Date                      | Ti              | me                       | Received by EL | Muda         | b              | -                      |       |      |                  | -                  |          |              |                        | Date         |   | Time     |                      |                          |                              |  |                                | Re                      | eipt.                        |          |           | 2.1          |              | °C                                     |              |

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XENCO Laboratories Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa Document Title: Sample Receipt Checklist, Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

## Prelogin / Nonconformance Report - Sample Log-In

| Client:    | Vates            |
|------------|------------------|
| Date/Time: | 8-26-11 9:30     |
| Lab ID # : | 426558/426559-CI |
| Initials:  | LU               |

### Sample Receipt Checklist

| 1. Samples on ice?  | Blue       | Water | No           |                                       |
|---|------------|-------|--------------|---------------------------------------|
| 2. Shipping container in good condition?                            | Yes        | No    | None         |                                       |
| 3. Custody seals intact on shipping container (cooler) and bottles? | Y98        | No    | N/A          |                                       |
| 4. Chain of Custody present?  | Yes        | No    |              |                                       |
| 5. Sample instructions complete on chain of custody?                | Yes        | No    |              |                                       |
| 6. Any missing / extra samples?                                     | Yes        | No    |              |                                       |
| 7. Chain of custody signed when relinquished / received?            | Yes        | No    |              |                                       |
| 8. Chain of custody agrees with sample label(s)?                    | (Yes)      | No    |              |                                       |
| 9. Container labels legible and intact?                             | Yes        | No    |              |                                       |
| 10. Sample matrix / properties agree with chain of custody?         | Yes        | No -  |              |                                       |
| 11. Samples in proper container / bottle?                           | Yes        | No    |              |                                       |
| 12. Samples properly preserved?                                     | Yes        | No    | N/A          |                                       |
| 13. Sample container intact?  | Yes        | No    |              |                                       |
| 14. Sufficient sample amount for indicated test(s)?                 | (Yes)      | No    |              |                                       |
| 15. All samples received within sufficient hold time?               | (Yes)      | No    |              |                                       |
| 16. Subcontract of sample(s)?                                       | Yes        | (No)  | N/A          |                                       |
| 17. VOC sample have zero head space?                                | Yes        | No    | NA           |                                       |
| 18. Cooler 1 No. Cooler 2 No. Cooler 3 No.                          | Cooler 4 N | 0.    | Cooler 5 No. | · · · · · · · · · · · · · · · · · · · |
| Ibs 2.1 °C Ibs °C Ibs °   | C lbs      | °C    | lbs          | °c                                    |

### Nonconformance Documentation

| Contact:              | Contacted by:  | Date/Time: |            |
|-----------------------|--|------------|------------|
| Regarding:            |  |            | <u>-</u> - |
| Corrective Action Tak | an'  |            |            |
|                       |  |            |            |
| Check all that apply: | □ Cooling process has begun shortly after o<br>condition acceptable by NELAC 5.5<br>□ Initial and Backup Temperature confirm o | 8.3.1.a.1. |            |

# Analytical Report 432251

for

**Yates Petroleum Corporation** 

Project Manager: Amber Cannon

Martha AIK Federal #1

30-015-26549

01-DEC-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

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Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



01-DEC-11



Project Manager: Amber Cannon Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 432251 Martha AIK Federal # 1 Project Address: Eddy County

### Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 432251. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 432251 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (c.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II Odessa Laboratory Manager

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A CONTRACTOR OF CONTRACTOR



Sample Cross Reference 432251

# Yates Petroleum Corporation, Artesia, NM

| Martha AIK Federal # 1 |
|------------------------|
|                        |

| Sample Id | Matrix | Date Collected | Sample Depth    | Lab Sample Id |
|-----------|--------|----------------|-----------------|---------------|
| Grab N4   | S      | 11-22-11 09:30 | 4 <b>-</b> 4 ft | 432251-001    |
| Grab N5   | S      | 11-22-11 09:40 | 5 - 5 ft        | 432251-002    |
| Grab N6   | S      | 11-22-11 09:50 | 6 - 6 ft        | 432251-003    |
| Grab S4   | S      | 11-22-11 10:00 | 4 - 4 ft        | 432251-004    |
| Grab S5   | S      | 11-22-11 10:10 | 5 - 5 ft        | 432251-005    |
| Grab S6   | S      | 11-22-11 10:20 | 6 - 6 ft        | 432251-006    |

# CASE NARRATIVE



Client Name: Yates Petroleum Corporation Project Name: Martha AIK Federal # 1

,



 Project ID:
 30-015-26549

 Work Order Number:
 432251

Report Date: 01-DEC-11 Date Received: 11/29/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None



Project Id: 30-015-26549

Project Location: Eddy County

Contact: Amber Cannon

## Certificate of Analysis Summary 432251

Yates Petroleum Corporation, Artesia, NM



Project Name: Martha AIK Federal # 1

Date Received in Lab: Tue Nov-29-11 12:15 pm Report Date: 01-DEC-11

| olect Location: Lody County                               |                           |            |       |            |       |             |        | •          |        |                 |       |                 |       |
|---|---------------------------|------------|-------|------------|-------|-------------|--------|------------|--------|-----------------|-------|-----------------|-------|
|   |                           |            |       |            |       |             |        | Project Ma | nager: | Brent Barron    | П     |                 |       |
|   | Lab Id:                   | 432251-001 |       | 432251-002 |       | 432251-003  |        | 432251-0   | 004    | 432251-0        | 105   | 432251-0        | 006   |
| Anchorin Degraced   | Field Id:                 | Grab N     | 14    | Grab N     | 5     | Grab N6     |        | Grab S     | 4      | Grab S5         |       | Grab S6         |       |
| Analysis Requested Anions by E300 Noride Percent Moisture | Depth:                    | 4-4 ft     |       | 5-5 ft     |       | 6-6 ft      | 6-6 ft |            |        | 5-5 ft          |       | 6-6 ft          |       |
|   | Matrix:                   | SOIL       | SOIL  |            | SOIL  |             | SOIL   |            |        | SOIL            |       | SOIL            |       |
|   | Sampled: Nov-22-11 09.30  |            | 09.30 | Nov-22-11  | 09:40 | Nov-22-11 ( | 09:50  | Nov-22-11  | 10:00  | Nov-22-11 10:10 |       | Nov-22-11       | 10:20 |
| Anions by E300  | Extracted:                |            |       |            |       |             |        |            |        |                 |       |                 |       |
|   | Analyzed:                 | Nov-29-11  | 17.45 | Nov-29-11  | 17:45 | Nov-29-11   | 17:45  | Nov-29-11  | 17:45  | Nov-29-11       | 17.45 | Nov-29-11       | 17:45 |
|   | Units/RL:                 | mg/kg      | RL    | mg/kg      | RL    | mg/kg       | RL     | mg/kg      | RL     | mg/kg           | RL    | mg/kg           | RL    |
| Chloride  |                           | 593        | 8.63  | 780        | 8.61  | 1710        | 21.6   | 200        | 4.31   | 164             | 4.31  | 77.4            | 4.31  |
| Percent Moisture  | Extracted:                |            |       |            |       |             |        |            |        |                 |       |                 |       |
|   | Analyzed: Nov-29-11 14:40 |            | 14:40 | Nov-29-11  | 4:40  | Nov-29-11   | 14:40  | Nov-29-11  | 14:55  | Nov-29-11       | 14:55 | Nov-29-11 14:55 |       |
|   | Units/RL:                 | %          | RL    | %          | RL    | %           | RL     | %          | RL     | %               | RL    | %               | RL    |
| Percent Moisture  |                           | 2.62       | 1.00  | 2.45       | 1.00  | 2.64        | 1 00   | 2.64       | 1.00   | 2 65            | 1.00  | 2.57            | 1.00  |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warrantly to the end use of the data hereby presented Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron II Odessa Laboratory Manager

Page 5 of 11



# **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations,
- II The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

| MDL Method Detection Limit       | SDL Sample Detection Limit    | LOD Limit of Detection    |
|----------------------------------|-------------------------------|---------------------------|
| PQL Practical Quantitation Limit | MQL Method Quantitation Limit | LOQ Limit of Quantitation |
| DL Method Detection Limit        |                               |                           |
| NC Non-Calculable                |                               |                           |
|                                  |                               |                           |

+ Outside XENCO's scope of NELAC Accreditation. ^ NELAC or State program does not offer Accreditation at this time.

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| XENCO-Env                             | vironmental                  | Lał             | 0 0          | f Texas                         | 5                  |                        |                        |                        |        | Nes   | st  -2        | AIN<br>20 Ea<br>5 797 | st     | cus              | TODY  | 'RE                     | COF            | RD A                   | ND                           |                        | Pho                          | YS <i>I</i> :<br>ine: 4<br>x: 4  | 432-                                    | 563         | -180             | 00                 |          |                             |                          |
|---------------------------------------|------------------------------|-----------------|--------------|---------------------------------|--------------------|------------------------|------------------------|------------------------|--------|-------|---------------|-----------------------|--------|------------------|---|-------------------------|----------------|------------------------|------------------------------|------------------------|------------------------------|----------------------------------|---|-------------|------------------|--------------------|----------|-----------------------------|--------------------------|
| Project Manager                       | Amber Cannon                 |                 |              |                                 |                    |                        |                        |                        |        |       |               |                       |        | _                |   | Proje                   | ict N          | ame:                   | M                            | artl                   | ha                           | AIK                              | Fε                                      | de          | <u>rai</u>       | #1                 |          |                             |                          |
| Company Name                          | Yates Petroleum Corpora      | ation           | ···          |                                 |                    |                        |                        |                        |        |       |               |                       |        |                  |   | I                       | Proje          | ct #:                  | 30                           | -01:                   | 5-26                         | <u>6549</u>                      | I                                       |             |                  |                    |          |                             | _                        |
| Company Addres                        | s: 105 South 4th Street      | -               |              |                                 |                    |                        |                        |                        |        |       |               |                       |        |                  |   | Pro                     | jact           | Loc:                   | Ed                           | dy C                   | ount                         | y                                |   |             |                  |                    |          | _                           |                          |
| City/State/Zip:                       | Artesia, NM 88210            |                 |              |                                 |                    |                        |                        |                        |        |       |               |                       |        |                  |   |                         | F              | PO #:                  | 103                          | 3202                   | 0                            |                                  |   |             |                  |                    |          |                             |                          |
| Telephone No:                         | 575-748-4111                 |                 |              |                                 | Fax No.            | :                      | 57                     | 5-74                   | 3-458  | 35    |               |                       |        |                  | Rep   | ort F                   | orm            | at:                    | x                            | Sta                    | ndar                         |                                  |   | Л           | RRP              |                    |          | NPD                         | E                        |
| Sampler Signatu                       |                              | Ca N            | <u> </u>     | en                              | -<br>e-mail:       |                        |                        |                        |        |       | ത             | vate                  | sne    | trol             | eum.  |                         |                |                        |                              |                        |                              | -                                | ~                                       |             |                  |                    |          |                             |                          |
| · · · · · · · · · · · · · · · · · · · |                              |                 |              |                                 | -                  |                        |                        |                        |        | 101   | 100           | 1919                  |        |                  |   | Ţ                       | ÷              |                        |                              |                        | Ar                           | alyze                            | a For                                   |             | ~                |                    |          | コ                           |                          |
| buse only)                            | 2251                         |                 |              |                                 |                    |                        |                        | _                      |        |       |               |                       |        |                  |   |                         |                |                        |                              | TAL,                   |                              | $\pm$                            | $\pm$                                   | -           |                  |                    |          |                             | r<br>L                   |
| RDER #: 472                           |                              |                 |              | 1                               | 1                  | T                      | T                      | ┢┤                     | røser  | vatio | n & #         | t of Co               | ntaine | ris<br>T         | Matri   |                         | acine 90       |                        |                              |                        | Hg Se                        |                                  |   | 8260        |                  |                    |          |                             | 5, 44, 5                 |
|                                       |                              | Baginning Depth | Ending Depth | Date Sampled                    | Time Sampled       | iteld Filtered         | Fotal #. of Containers |                        | HNO1   | HCI   | H,SO4         | NaDH                  | None   | Other ( Specify) | 01/1°:Drinking Waler SL=Studge<br>GW = Groundwator S=Soi{Soi4 | n-Potable Specily Other | TX 1005 1 X 10 | is (Ca. Mg. Na. K)     | Anions (Cl. SO4, Alkalinity) | SAR / ESP / CEC        | detats: As Ag Ba Cri Cr Ph H | Volatites                        | Semivolatiles<br>RTEY 9034B/6000 BTEV 6 |             | NO.R.M.          | Chlurides          |          | Plich TAT in a start of the | ICH IAI (FTE-SCREDUR) 24 |
| <u>s</u><br>>/                        | IELD CODE                    |                 |              |                                 |                    | E                      | 1<br>1                 | 8                      | =      |       | Î             | ž                     | ž      | 6                | NO S  | £ ₽                     | Ē              | 8                      | Ani                          | ¥5                     | ž                            | 3                                | <u> 7</u>                               |             | - <u> </u> z     | -                  | ┢╼┽      | -                           | 2                        |
| 1                                     | Grab N4<br>Grab N5           | 4'<br>5'        | 4'<br>5'     | 11/22/2011                      | 9:30 AM<br>9:40 AM |                        | 1                      |                        |        |       |               | -+                    | +-     | ┢╴╵              | s<br>S  | ╉                       | ╈              | ┝╴┤                    |                              |                        | -                            | +                                | ╋                                       | ╋           | +-               | x<br>x             | $\vdash$ | ╉                           | -                        |
| *                                     | Grab N6                      | 6'              | 6'           | 11/22/2011                      | 9:50 AM            |                        | 1                      |                        | T      | -+    | -             | -†                    | 1      |                  | s   | ╈                       | ╈              |                        | -                            |                        |                              | +                                | $\uparrow$                              | +           | +-               | x                  |          | ╉                           | -                        |
| 4<br>6<br>6                           | Grab S4                      | 4'              | 4'           | 11/22/2011                      | 10:00 AM           |                        | 1                      |                        |        |       |               |                       |        |                  | S   |                         |                |                        |                              |                        |                              |                                  | T                                       |             |                  | x                  |          | T                           | •                        |
| 5                                     | Grab S5                      | 5'              | 5'           | 11/22/2011                      | 10:10 AM           |                        | 1                      |                        | _      | _     |               |                       |        |                  | S   |                         |                |                        |                              |                        |                              |                                  |   |             |                  | X                  |          |                             |                          |
| 6                                     | Grab S6                      | 6'              | 6'           | 11/22/2011                      | 10:20 AM           |                        | 1                      |                        |        | -+    | -+            |                       | +      |                  | S   | +                       | _              | $\left  \right $       |                              |                        |                              | _                                | +                                       | +           | +-               | X                  | $\vdash$ | ╇                           | -                        |
|                                       |                              |                 |              |                                 | <u> </u>           | $\left  \cdot \right $ |                        |                        | +      | -+    | $\rightarrow$ | +                     | +      |                  |   | ╀                       | +              | $\left  \right $       | -                            | $\dashv$               |                              | +                                | +                                       | +           | ╀                | +                  | ╞╼┼╴     | ╋                           | -                        |
| · · · · · · · · · · · · · · · · · · · |                              | 1               |              |                                 |                    |                        |                        |                        | -+     | -+-   | -             | -                     |        |                  |   | +                       | +              |                        |                              |                        | -+                           | +                                | ╈                                       | +           | ╀                | +                  | i t      | +                           | -                        |
|                                       |                              |                 |              |                                 |                    |                        |                        |                        |        | _     |               |                       |        |                  |   |                         |                |                        |                              |                        |                              |                                  |   | T           |                  |                    |          | T                           |                          |
|                                       |                              |                 |              |                                 |                    |                        |                        | $\left  \cdot \right $ |        | -     | $\downarrow$  |                       |        |                  |   | ╞                       |                | μ                      |                              | _                      | -                            | 4                                | +-                                      | _           |                  |                    | $\vdash$ | ╞                           | -                        |
|                                       |                              |                 |              | {                               |                    |                        |                        | $\vdash$               | +      | -+-   | +             | +                     | +      |                  |   |                         | +              | $\left  \cdot \right $ | $\neg$                       |                        | -                            | -+-                              | ╀                                       | ┾           | +                | $\left  - \right $ |          | ┾                           | _                        |
|                                       |                              |                 |              |                                 |                    | $\vdash$               |                        | $\vdash$               |        | -     | +             | +                     | +      |                  |   | ╉                       | +              |                        |                              | +                      | -+                           | +                                | +                                       | ┢           | ┝                | $\left  - \right $ | -+-      | ╀                           | -                        |
| cial Instructions:                    | Date                         | Tir             |              | Received by,                    |                    | 1                      |                        |                        | - 1-   |       |               |                       |        | Dat              | •   | Tia                     | 1              | Sam<br>VOC<br>Labe     | ple<br>s Fi<br>ils o         | Con<br>ee c<br>n ćo    | taine<br>of He<br>intali     | nmen<br>ers,in<br>eadsp<br>ner(s | nact<br>bace                            | ?<br>', 4-  | <u>)</u><br>**** |                    |          |                             | 77                       |
| nquished by:                          | <u>mnon 11/75/11</u><br>Date | Tir<br>Tir      | ne           | Received by:<br>Received by ELC |                    |                        |                        |                        |        |       |               |                       |        | Date             |   | Tin                     | _              | Sam<br>I               | ple<br>by Sa<br>by C         | Hanu<br>ampli<br>ourie | d De<br>br/C                 | icool<br>livere<br>lient F<br>UF | ed<br>Rep.<br>⊃S                        | ?<br>рн     | ⊦ (              | Fed!               |          | N<br>N<br>Sone S            | )<br>it                  |
| Feder                                 | <                            |                 | -            |                                 | drea               | -                      | 4                      | Ve                     | $\sim$ | m     | <u> </u>      | _                     | 11-    | <u> </u>         |   | 3.                      | Б              | Tem                    | pera                         | iture                  | Up                           | ) Z G                            | ceip                                    | معمر)<br>ان |                  | 14                 | .5       | - •c                        |                          |

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XENCO Laboratories Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 6/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

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• ~ •

| Client:    | lates Petroleum                       |
|------------|---------------------------------------|
| Date/Time: | 11.29.11 12.15                        |
| Lab ID # : | 432251                                |
| initials.  | · · · · · · · · · · · · · · · · · · · |

### Sample Receipt Checklist

|                                 |                                       | ······                                |     |              |       |     |          |
|---------------------------------|---------------------------------------|---------------------------------------|-----|--------------|-------|-----|----------|
| 1. Samples on ice?              |                                       |                                       |     | Blue         | Water | NO  |          |
| 2. Shipping container in good   | condition?                            | Yes                                   | No  | SNOR         | 1     |     |          |
| 3. Custody seals intact on ship | ping container (co                    | Yes                                   | No  | NA           |       |     |          |
| 4. Chain of Custody present?    |                                       |                                       | Yes | No           |       |     |          |
| 5. Sample instructions comple   | te on chain of cust                   | iody?                                 |     | Yes          | No    |     |          |
| 6. Any missing / extra sample:  | <u>;?</u>                             |                                       |     | Yes          | No    |     |          |
| 7. Chain of custody signed wh   | en relinquished / n                   | eceived?                              |     | Yes          | No    |     |          |
| 8. Chain of custody agrees wit  | th sample label(s)?                   | · · · · · · · · · · · · · · · · · · · |     | Yes          | No    |     |          |
| 9. Container labels legible and | limtact?                              |                                       |     | Yes          | No    |     |          |
| 10. Sample matrix / properties  | agree with chain c                    |                                       | Yes | No -         |       |     |          |
| 11. Samples in proper contain   | er / bottle?                          |                                       |     | Yes          | No    |     |          |
| 12. Samples property preserve   | ed?                                   |                                       |     | Yes          | No    | N/A |          |
| 13. Sample container intact?    | · · · · · · · · · · · · · · · · · · · |                                       |     | Yes          | No    |     |          |
| 14. Sufficient sample amount    | for indicated test(s                  | ]?                                    |     | Yes          | No    |     |          |
| 15. All samples received within | n sufficient hold th                  | (Yes                                  | No  |              |       |     |          |
| 16. Subcontract of sample(s)?   | •                                     | Yes                                   | No  | NA           |       |     |          |
| 17. VOC sample have zero he     | ad space?                             | Yes                                   | No  |              |       |     |          |
| 18. Cooler 1 No. Cool           | er 2 No.                              | Cooler 4 No                           | i.  | Cooler 5 No. |       |     |          |
| Ibs 14.5°C                      | ibs °C                                | lins                                  | ŶC  | lbs          | •     | lbs | <u>م</u> |

Nonconformance Documentation

| Contact:                 | Contacted by:  | Date/Time;            |
|--------------------------|--|-----------------------|
| Regarding:               |  | ·                     |
|                          | /  |                       |
| Corrective Action Taken: |  |                       |
|                          |  | ····· ,               |
|                          |  | •                     |
|                          |  |                       |
|                          | ng process has begun shortly after sampling event as condition acceptable by NFI AC 5.5.8.3.1.2.1. | id out of temperature |

□Initial and Backup Temperature confirm out of temperature conditions □Client understands and would like to proceed with analysis