

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

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CHIEF FINANCIAL OFFICER

May 10, 2010

Mr. Mike Bratcher
NMOCD District II
1301 W. Grand Ave.
Artesia, NM 88210

RE: Compromise SWD #1
8/15/2009 Release
30-015-25665
Section 30, T18S-R27E
Eddy County, New Mexico

Dear Mr. Bratcher,

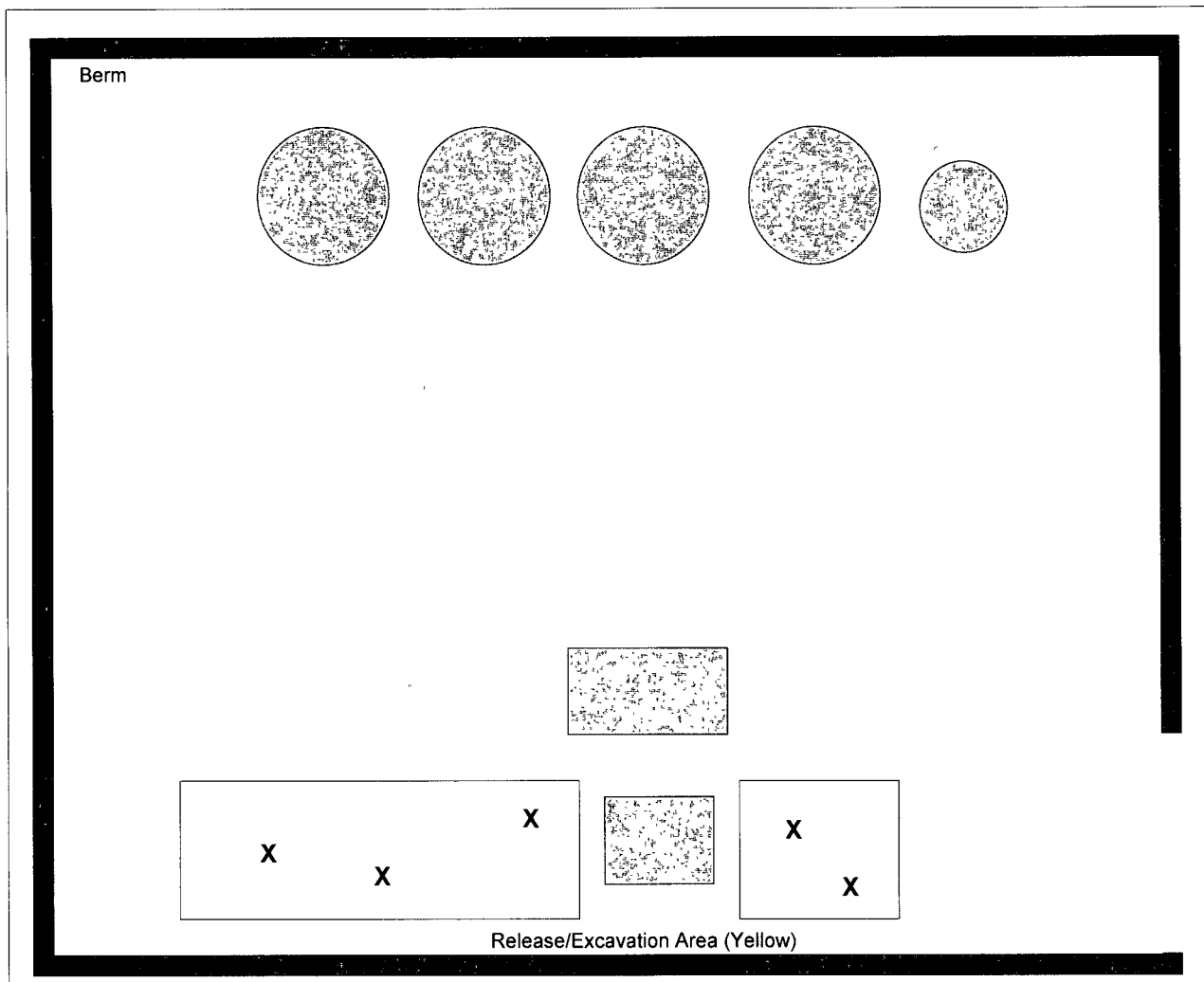
Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on August 15, 2009 (20 B/PW with 12 B/PW recovered), south end of the battery (inside the berm). A vacuum truck picked up remaining produced water released and the pipeline was from a broken nipple on the Murphy switch. Impacted soils were excavated to a depth of three (3) feet and taken to an NMOCD approved facility. Samples were taken on April 22, 2010 and May 7, 2010 and sent to an NMOCD approved laboratory (enclosed results and sample diagram). Site ranking is twenty (20), with the depth to ground water < 50' (approximately 35'). Based on the analytical results showing decreasing chlorides, TPH & BTEX are non-detect, Yates Petroleum Corporation requests closure.

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher
Environmental Regulatory Agent

Enclosure(s)
/rca



| Sample ID | Sample Date | Sample Type | Depth (BSL) | BTEX | GRO | DRO | TPH TOTAL | Chlorides |
|-------------|-------------|-------------|-------------|------|-----|-----|-----------|-----------|
| GS/Comp-001 | 4/12/2010 | Grab/Auger | 3' | ND | ND | ND | ND | 1670 |
| GS/Comp-002 | 4/12/2010 | Grab/Auger | 4' | ND | ND | ND | ND | 460 |
| Sample ID | Sample Date | Sample Type | Depth (BSL) | BTEX | GRO | DRO | TPH TOTAL | Chlorides |
| GS/Comp-003 | 5/3/2010 | Grab/Auger | 5' | | | | | 142 |
| GS/Comp-004 | 5/3/2010 | Grab/Auger | 6' | | | | | 179 |

Site Ranking is Twenty (20). Depth to Ground Water <50' (approx. 35'). All results are ppm.
Chloride samples for documentation.



Compromise SWD #1 Battery

30-015-25665

Section 30, T18S-R27E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)
Xenco Report #: 369448 & 369451
Report Date: 4/22/2010
Xenco Report #: 369448 & 369451
Report Date: 4/22/2010

Prepared by Robert Asher
Environmental Regulatory Agent

Analytical Report 371457

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Compromise SWD # 1 Tank Battery

30-015-25665

07-MAY-10



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), 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)

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-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL00449):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)

North Carolina(444), Texas(T104704468-TX), Illinois(002295)



07-MAY-10

Project Manager: **Robert Asher**
Yates Petroleum Corporation
105 South Fourth St.
Artesia, NM 88210

Reference: XENCO Report No: **371457**
Compromise SWD # 1 Tank Battery
Project Address: Eddy County

Robert Asher:

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 371457. 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. 371457 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 371457



Yates Petroleum Corporation, Artesia, NM

Compromise SWD # 1 Tank Battery

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-------------|--------|-----------------|--------------|---------------|
| GS/Comp-003 | S | May-03-10 14:05 | 3 - 3 ft | 371457-001 |
| GS/Comp-004 | S | May-03-10 14:35 | 4 - 4 ft | 371457-002 |



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Compromise SWD # 1 Tank Battery



Project ID: 30-015-25665

Work Order Number: 371457

Report Date: 07-MAY-10

Date Received: 05/05/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-805324 Percent Moisture

None

Batch: LBA-805339 Inorganic Anions by EPA 300

None



Certificate of Analysis Summary 371457

Yates Petroleum Corporation, Artesia, NM

Project Name: Compromise SWD # 1 Tank Battery



Project Id: 30-015-25665

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Wed May-05-10 09:35 am


Report Date: 07-MAY-10

Project Manager: Brent Barron, II

| | | | | | | | |
|------------------------------------|-------------------|-----------------|-----------------|--|--|--|--|
| Analysis Requested | Lab Id: | 371457-001 | 371457-002 | | | | |
| | Field Id: | GS/Comp-003 | GS/Comp-004 | | | | |
| | Depth: | 3-3 ft | 4-4 ft | | | | |
| | Matrix: | SOIL | SOIL | | | | |
| | Sampled: | May-03-10 14:05 | May-03-10 14:35 | | | | |
| Anions in Soil By EPA 300.0 | Extracted: | | | | | | |
| | Analyzed: | May-05-10 14:45 | May-05-10 14:45 | | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | | | | |
| Chloride | | 142 10.3 | 179 23.0 | | | | |
| Percent Moisture | Extracted: | | | | | | |
| | Analyzed: | May-05-10 17:00 | May-05-10 17:00 | | | | |
| | Units/RL: | % RL | % RL | | | | |
| Percent Moisture | | 18.7 1.00 | 8.86 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 warranty 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.

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


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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.
- 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
- * Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238
2505 North Falkenburg Rd, Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
842 Cantwell Lane, Corpus Christi, TX 78408

| Phone | Fax |
|----------------|----------------|
| (281) 240-4200 | (281) 240-4280 |
| (214) 902 0300 | (214) 351-9139 |
| (210) 509-3334 | (210) 509-3335 |
| (813) 620-2000 | (813) 620-2033 |
| (305) 823-8500 | (305) 823-8555 |
| (432) 563-1800 | (432) 563-1713 |
| (361) 884-0371 | (361) 884-9116 |

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Robert Asher

Project Name: Compromise SWD #1 Tank Battery

Company Name Yates Petroleum Corporation

Project #: 30-015-25665

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 105632

Telephone No: 575-748-4217

Fax No: 575-748-4662

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: boba@yatespetroleum.com

[illegible]

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:

Yates Petroleum

Date/ Time:

5-5-10 9:35

Lab ID #:

371457

Initials:

KL

Sample Receipt Checklist

Client Initials

| | | | | | |
|-----|--|------------|----|--------------------------|--|
| #1 | Temperature of container/ cooler? | <u>Yes</u> | No | <u>1.6</u> °C | |
| #2 | Shipping container in good condition? | <u>Yes</u> | No | | |
| #3 | Custody Seals intact on shipping container/ cooler? | <u>Yes</u> | No | Not Present | |
| #4 | Custody Seals intact on sample bottles/ container? | <u>Yes</u> | No | Not Present | |
| #5 | Chain of Custody present? | <u>Yes</u> | No | | |
| #6 | Sample instructions complete of Chain of Custody? | <u>Yes</u> | No | | |
| #7 | Chain of Custody signed when relinquished/ received? | <u>Yes</u> | No | | |
| #8 | Chain of Custody agrees with sample label(s)? | <u>Yes</u> | No | ID written on Cont./ Lid | |
| #9 | Container label(s) legible and intact? | <u>Yes</u> | No | Not Applicable | |
| #10 | Sample matrix/ properties agree with Chain of Custody? | <u>Yes</u> | No | | |
| #11 | Containers supplied by ELOT? | <u>Yes</u> | No | | |
| #12 | Samples in proper container/ bottle? | <u>Yes</u> | No | See Below | |
| #13 | Samples properly preserved? | <u>Yes</u> | No | See Below | |
| #14 | Sample bottles intact? | <u>Yes</u> | No | | |
| #15 | Preservations documented on Chain of Custody? | <u>Yes</u> | No | | |
| #16 | Containers documented on Chain of Custody? | <u>Yes</u> | No | | |
| #17 | Sufficient sample amount for indicated test(s)? | <u>Yes</u> | No | See Below | |
| #18 | All samples received within sufficient hold time? | <u>Yes</u> | No | See Below | |
| #19 | Subcontract of sample(s)? | Yes | No | Not Applicable | |
| #20 | VOC samples have zero headspace? | Yes | No | Not Applicable | |

Variance Documentation

Contact:

Contacted by:

Date/ Time:

Regarding:

Corrective Action Taken:

Check all that Apply:

☐

See attached e-mail/ fax

☐

Client understands and would like to proceed with analysis

☐

Cooling process had begun shortly after sampling event

Analytical Report 369451

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Compromise SWD # 1

30-015-25665

22-APR-10



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), 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)

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-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL00449):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)

North Carolina(444), Texas(T104704468-TX), Illinois(002295)



22-APR-10

Project Manager: **Robert Asher**
Yates Petroleum Corporation
105 South Fourth St.
Artesia, NM 88210

Reference: XENCO Report No: **369451**
Compromise SWD # 1
Project Address: Eddy County

Robert Asher:

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 369451. 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. 369451 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 369451



Yates Petroleum Corporation, Artesia, NM

Compromise SWD # 1

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-------------|--------|-----------------|--------------|---------------|
| GS/Comp-001 | S | Apr-12-10 14:28 | 1 - 1 ft | 369451-001 |
| GS/Comp-002 | S | Apr-12-10 14:57 | 2 - 2 ft | 369451-002 |



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Compromise SWD # 1

Project ID: 30-015-25665

Work Order Number: 369451

Report Date: 22-APR-10

Date Received: 04/15/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-803119 Percent Moisture

None

Batch: LBA-803123 Anions in Soil By EPA 300.0

None



Certificate of Analysis Summary 369451

Yates Petroleum Corporation, Artesia, NM

Project Name: Compromise SWD # 1

Project Id: 30-015-25665

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Apr-15-10 10:45 am


Report Date: 22-APR-10

Project Manager: Brent Barron, II

| | | | | | | | |
|------------------------------------|-------------------|-----------------|-----------------|--|--|--|--|
| Analysis Requested | Lab Id: | 369451-001 | 369451-002 | | | | |
| | Field Id: | GS/Comp-001 | GS/Comp-002 | | | | |
| | Depth: | 1-1 ft | 2-2 ft | | | | |
| | Matrix: | SOIL | SOIL | | | | |
| | Sampled: | Apr-12-10 14:28 | Apr-12-10 14:57 | | | | |
| Anions in Soil By EPA 300.0 | Extracted: | | | | | | |
| | Analyzed: | Apr-19-10 11:15 | Apr-19-10 11:15 | | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | | | | |
| Chloride | | 1670 53.4 | 460 51.3 | | | | |
| Percent Moisture | Extracted: | | | | | | |
| | Analyzed: | Apr-16-10 17:00 | Apr-16-10 17:00 | | | | |
| | Units/RL: | % RL | % RL | | | | |
| Percent Moisture | | 21.4 1.00 | 18.2 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 warranty 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.

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


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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.
- 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
- * Outside XENCO's scope of NELAC Accreditation.

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2505 North Falkenburg Rd, Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
842 Cantwell Lane, Corpus Christi, TX 78408

| Phone | Fax |
|----------------|----------------|
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| (214) 902 0300 | (214) 351-9139 |
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| (813) 620-2000 | (813) 620-2033 |
| (305) 823-8500 | (305) 823-8555 |
| (432) 563-1800 | (432) 563-1713 |
| (361) 884-0371 | (361) 884-9116 |

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Robert Asher

Project Name: Compromise SWD #1

Company Name Yates Petroleum Corporation

Project #: 30-015-25665

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 105632

Telephone No: 575-748-4217

Fax No: 575-748-4662

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: 

e-mail: boba@yatespetroleum.com

[illegible]

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Kates Petroleum
 Date/ Time: 4/15/10 - 10:45
 Lab ID #: 369448 / 369451
 Initials: JB

Sample Receipt Checklist

Client Initials

| | | | | | |
|-----|--|-----|----|--------------------------|--|
| #1 | Temperature of container/ cooler? | Yes | No | 2.4 °C | |
| #2 | Shipping container in good condition? | Yes | No | | |
| #3 | Custody Seals intact on shipping container/ cooler? | Yes | No | Not Present | |
| #4 | Custody Seals intact on sample bottles/ container? | Yes | No | Not Present | |
| #5 | Chain of Custody present? | Yes | No | | |
| #6 | Sample instructions complete of Chain of Custody? | Yes | No | | |
| #7 | Chain of Custody signed when relinquished/ received? | Yes | No | | |
| #8 | Chain of Custody agrees with sample label(s)? | Yes | No | ID written on Cont./ Lid | |
| #9 | Container label(s) legible and intact? | Yes | No | Not Applicable | |
| #10 | Sample matrix/ properties agree with Chain of Custody? | Yes | No | | |
| #11 | Containers supplied by ELOT? | Yes | No | | |
| #12 | Samples in proper container/ bottle? | Yes | No | See Below | |
| #13 | Samples properly preserved? | Yes | No | See Below | |
| #14 | Sample bottles intact? | Yes | No | | |
| #15 | Preservations documented on Chain of Custody? | Yes | No | | |
| #16 | Containers documented on Chain of Custody? | Yes | No | | |
| #17 | Sufficient sample amount for indicated test(s)? | Yes | No | See Below | |
| #18 | All samples received within sufficient hold time? | Yes | No | See Below | |
| #19 | Subcontract of sample(s)? | Yes | No | Not Applicable | |
| #20 | VOC samples have zero headspace? | Yes | No | Not Applicable | |

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

Analytical Report 369448

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Compromise SWD # 1

30-015-25665

22-APR-10



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), 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)

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-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL00449):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)

North Carolina(444), Texas(T104704468-TX), Illinois(002295)



22-APR-10

Project Manager: **Robert Asher**
Yates Petroleum Corporation
105 South Fourth St.
Artesia, NM 88210

Reference: XENCO Report No: **369448**
Compromise SWD # 1
Project Address: Eddy County

Robert Asher:

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 369448. 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. 369448 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 369448



Yates Petroleum Corporation, Artesia, NM

Compromise SWD # 1

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-------------|--------|-----------------|--------------|---------------|
| GS/Comp-001 | S | Apr-12-10 14:28 | 1 - 1 ft | 369448-001 |
| GS/Comp-002 | S | Apr-12-10 14:57 | 2 - 2 ft | 369448-002 |



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Compromise SWD # 1

Project ID: 30-015-25665

Work Order Number: 369448

Report Date: 22-APR-10

Date Received: 04/15/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-803119 Percent Moisture

None

Batch: LBA-803144 TPH by SW 8015B

None

Batch: LBA-803222 BTEX by EPA 8021
SW8021BM

Batch 803222, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 369448-001, -002.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits



Certificate of Analysis Summary 369448

Yates Petroleum Corporation, Artesia, NM

Project Name: Compromise SWD # 1

Project Id: 30-015-25665

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Apr-15-10 10:45 am

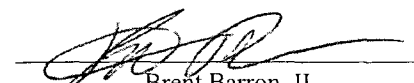
Report Date: 22-APR-10

Project Manager: Brent Barron, II

| | | | | | | | |
|------------------------------------|-------------------|-----------------|-----------------|--|--|--|--|
| Analysis Requested | Lab Id: | 369448-001 | 369448-002 | | | | |
| | Field Id: | GS/Comp-001 | GS/Comp-002 | | | | |
| | Depth: | 1-1 ft | 2-2 ft | | | | |
| | Matrix: | SOIL | SOIL | | | | |
| | Sampled: | Apr-12-10 14:28 | Apr-12-10 14:57 | | | | |
| BTEX by EPA 8021 | Extracted: | Apr-19-10 16:45 | Apr-19-10 16:45 | | | | |
| | Analyzed: | Apr-20-10 04:07 | Apr-20-10 04:30 | | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | | | | |
| | | | | | | | |
| Benzene | | ND 0.0013 | ND 0.0012 | | | | |
| Toluene | | ND 0.0025 | ND 0.0025 | | | | |
| Ethylbenzene | | ND 0.0013 | ND 0.0012 | | | | |
| m,p-Xylenes | | ND 0.0025 | ND 0.0025 | | | | |
| o-Xylene | | ND 0.0013 | ND 0.0012 | | | | |
| Xylenes, Total | | ND 0.0013 | ND 0.0012 | | | | |
| Total BTEX | | ND 0.0013 | ND 0.0012 | | | | |
| Percent Moisture | Extracted: | | | | | | |
| | Analyzed: | Apr-16-10 17:00 | Apr-16-10 17:00 | | | | |
| | Units/RL: | % RL | % RL | | | | |
| | | | | | | | |
| Percent Moisture | | 21.4 1.00 | 18.2 1.00 | | | | |
| TPH by SW 8015B | Extracted: | Apr-19-10 10:45 | Apr-19-10 10:45 | | | | |
| | Analyzed: | Apr-19-10 17:36 | Apr-19-10 18:03 | | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | | | | |
| | | | | | | | |
| C6-C10 Gasoline Range Hydrocarbons | | ND 19.0 | ND 18.2 | | | | |
| C10-C28 Diesel Range Hydrocarbons | | ND 19.0 | ND 18.2 | | | | |
| Total TPH | | ND 19.0 | ND 18.2 | | | | |

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 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



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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.
- 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
- * Outside XENCO's scope of NELAC Accreditation.

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2505 North Falkenburg Rd, Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
842 Cantwell Lane, Corpus Christi, TX 78408

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|----------------|----------------|
| (281) 240-4200 | (281) 240-4280 |
| (214) 902 0300 | (214) 351-9139 |
| (210) 509-3334 | (210) 509-3335 |
| (813) 620-2000 | (813) 620-2033 |
| (305) 823-8500 | (305) 823-8555 |
| (432) 563-1800 | (432) 563-1713 |
| (361) 884-0371 | (361) 884-9116 |

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:

Yates Petroleum

Date/ Time:

4/15/10 - 10:45

Lab ID #:

369448 / 369451

Initials:

JB

Sample Receipt Checklist

Client Initials

| | | | | | |
|-----|--|-----|----|-------------------------|--|
| #1 | Temperature of container/ cooler? | Yes | No | 2.4 °C | |
| #2 | Shipping container in good condition? | Yes | No | | |
| #3 | Custody Seals intact on shipping container/ cooler? | Yes | No | Not Present | |
| #4 | Custody Seals intact on sample bottles/ container? | Yes | No | Not Present | |
| #5 | Chain of Custody present? | Yes | No | | |
| #6 | Sample instructions complete of Chain of Custody? | Yes | No | | |
| #7 | Chain of Custody signed when relinquished/ received? | Yes | No | | |
| #8 | Chain of Custody agrees with sample label(s)? | Yes | No | ID written on Cont/ Lid | |
| #9 | Container label(s) legible and intact? | Yes | No | Not Applicable | |
| #10 | Sample matrix/ properties agree with Chain of Custody? | Yes | No | | |
| #11 | Containers supplied by ELOT? | Yes | No | | |
| #12 | Samples in proper container/ bottle? | Yes | No | See Below | |
| #13 | Samples properly preserved? | Yes | No | See Below | |
| #14 | Sample bottles intact? | Yes | No | | |
| #15 | Preservations documented on Chain of Custody? | Yes | No | | |
| #16 | Containers documented on Chain of Custody? | Yes | No | | |
| #17 | Sufficient sample amount for indicated test(s)? | Yes | No | See Below | |
| #18 | All samples received within sufficient hold time? | Yes | No | See Below | |
| #19 | Subcontract of sample(s)? | Yes | No | Not Applicable | |
| #20 | VOC samples have zero headspace? | Yes | No | Not Applicable | |

Variance Documentation

Contact:

Contacted by:

Date/ Time:

Regarding:

Corrective Action Taken:

Check all that Apply:

☐

See attached e-mail/ fax

☐

Client understands and would like to proceed with analysis

☐

Cooling process had begun shortly after sampling event