

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

JOHN A. YATES  
CHAIRMAN OF THE BOARD  
PRESIDENT

JOHN A. YATES JR.  
ASSISTANT TO THE PRESIDENT

JAMES S. BROWN  
CHIEF OPERATING OFFICER

JOHN D. PERINI  
CHIEF FINANCIAL OFFICER

**RECEIVED**

**NOV -4 2009**

**NMOCD ARTESIA**

November 3, 2009

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

Re: King SWD #1  
30-015-20257  
Section 9, T20S-R25E  
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 September 12, 2009 (15 B/PW released with 10 B/PW recovered). The release was from a poly line on the discharge side of the pump. Impacted soils were scraped and taken to an NMOCD approved facility and samples were taken on that 9/29/2009 for delineation per the C-141, Initial Report. Those samples were sent to an OCD approved laboratory for analysis (results are below RRAL's based on the site ranking, chloride results are for documentation). Based on the analytical results for the chlorides an addition 6-8" of impacted soils were excavated and taken to an NMOCD approved facility. Site ranking is zero (0), with the depth to ground water >100' (approximately 249' per the NM Office of the State Engineer. Based on the information enclosed, Yates Petroleum Corporation requests closure.

If you have any questions, please call me at 575-748-4217.

Thank you.

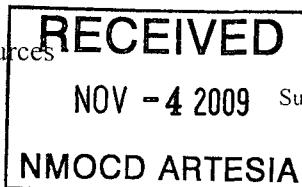
YATES PETROLEUM CORPORATION

Robert Asher  
Environmental Regulatory Agent

/rca  
Enclosure(s)

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505



Form C-141  
Revised October 10, 2003  
Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

|  |                               |                              |
|--|-------------------------------|------------------------------|
| Name of Company<br>Yates Petroleum Corporation     | OGRID Number<br>25575         | Contact<br>Robert Asher      |
| Address<br>105 South 4th Street, Artesia, NM 88210 | Telephone No.<br>575-748-1471 |                              |
| Facility Name<br>King SWD #1                       | API Number<br>30-015-20257    | Facility Type<br>SWD Battery |

|                          |                          |                       |
|--------------------------|--------------------------|-----------------------|
| Surface Owner<br>Federal | Mineral Owner<br>Federal | Lease No.<br>NM-14758 |
|--------------------------|--------------------------|-----------------------|

#### LOCATION OF RELEASE

|                  |              |                 |              |                      |                           |                       |                        |                |
|------------------|--------------|-----------------|--------------|----------------------|---------------------------|-----------------------|------------------------|----------------|
| Unit Letter<br>C | Section<br>9 | Township<br>20S | Range<br>25E | Feet from the<br>660 | North/South Line<br>North | Feet from the<br>1980 | East/West Line<br>West | County<br>Eddy |
|------------------|--------------|-----------------|--------------|----------------------|---------------------------|-----------------------|------------------------|----------------|

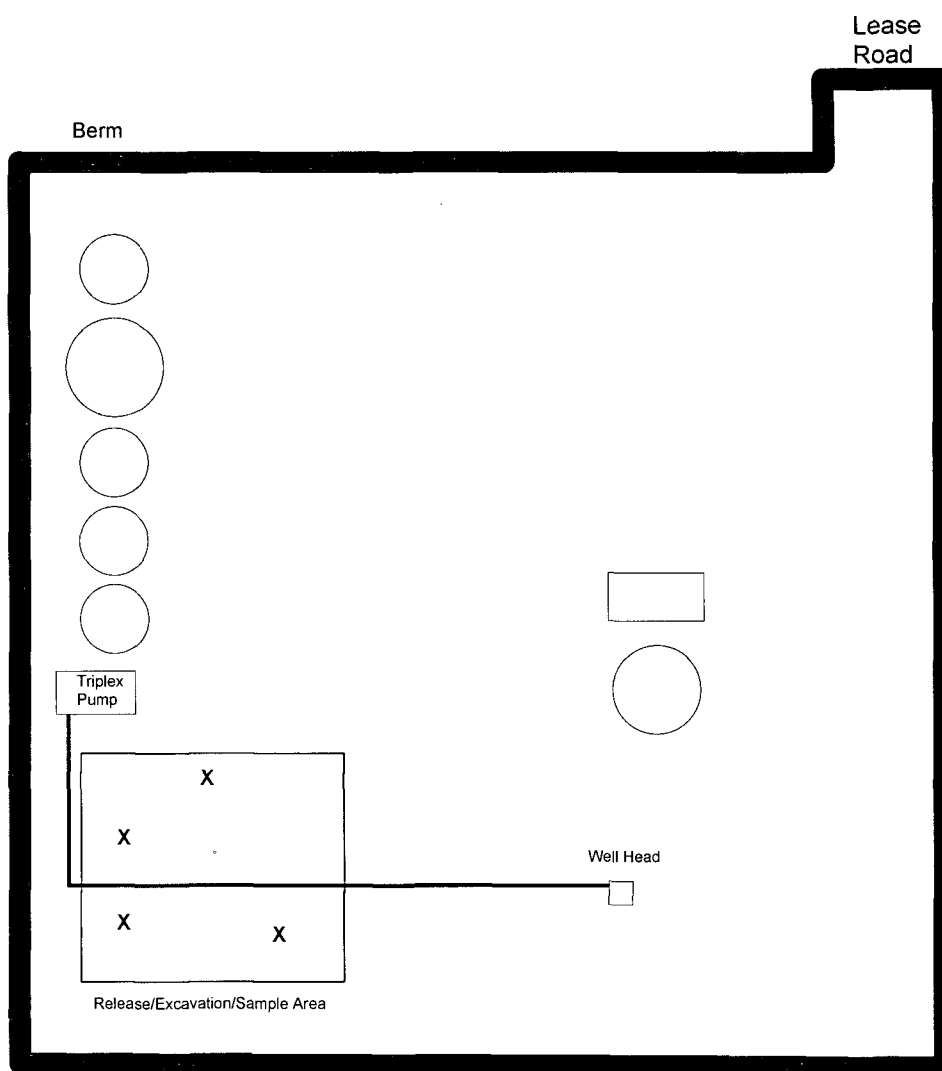
Latitude 32.59338 Longitude 104.49150

#### NATURE OF RELEASE

|  |  |  |
|--|--|--|
| Type of Release<br>Produced Water  | Volume of Release<br>15 B/PW                     | Volume Recovered<br>10 B/PW                |
| Source of Release<br>Pump  | Date and Hour of Occurrence<br>9/12/2009 AM      | Date and Hour of Discovery<br>9/12/2009 AM |
| Was Immediate Notice Given?<br><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required   | If YES, To Whom?<br>N/A                          |  |
| By Whom?<br>N/A  | Date and Hour<br>N/A                             |  |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse.<br>N/A |  |
| If a Watercourse was Impacted, Describe Fully.*<br>N/A   |  |  |
| Describe Cause of Problem and Remedial Action Taken.*<br>Poly line on discharge side of pump failed. Shut in system, called vacuum truck.  |  |  |
| Describe Area Affected and Cleanup Action Taken.*<br>Area approximately 40' X 60' all contained inside berm, vacuum truck picked up remaining produced, line repaired and put back in service. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX. Based on analytical results (9/29/2009 sampling), soils excavated to an approximate depth of 6-8" and taken to an NMOCD approved facility. <b>Depth to Ground Water: &gt;100' (approx. 249', Section 8, T20S-R25E, per New Mexico Office of the State Engineer), Wellhead Protection Area: No, Distance to Surface Water Body: &gt;1000', SITE RANKING IS 0. Based on enclosed analytical reports, impacted soils removed, and depth to ground water, Yates Petroleum Corporation requests closure.</b>                              |  |  |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |  |  |

|   |                                  |                  |                                   |
|---|----------------------------------|------------------|-----------------------------------|
| Signature:                              | <b>OIL CONSERVATION DIVISION</b> |                  |                                   |
| Printed Name: Robert Asher              | Approved by District Supervisor: |                  |                                   |
| Title: Environmental Regulatory Agent   | Approval Date:                   | Expiration Date: |                                   |
| E-mail Address: boba@yatespetroleum.com | Conditions of Approval:          |                  | Attached <input type="checkbox"/> |
| Date: Tuesday, November 03, 2009        | Phone: 575-748-4217              |                  |                                   |

\* Attach Additional Sheets If Necessary



King SWD #1

30-015-20257

Section 9, T20S-R25E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)

Xenco Laboratories: #346492 & 346493  
Report Date: 10/5/2009

Prepared by Robert Asher  
Environmental Regulatory Agent

# Analytical Report 346493

for

## Yates Petroleum Corporation

Project Manager: Robert Asher

King SWD # 1

30-015-20257

05-OCT-09



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-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 (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), 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 (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),  
South Carolina(96031001), Louisiana(04154), Georgia(917)



05-OCT-09

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

Reference: XENCO Report No: **346493**  
**King 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 346493. 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. 346493 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

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.  
Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



## Sample Cross Reference 346493



Yates Petroleum Corporation, Artesia, NM

King SWD # 1

| Sample Id   | Matrix | Date Collected  | Sample Depth | Lab Sample Id |
|-------------|--------|-----------------|--------------|---------------|
| GS/Comp-001 | S      | Sep-29-09 10:22 | 4 - 4 In     | 346493-001    |
| GS/Comp-002 | S      | Sep-29-09 10:36 | 1 - 1 ft     | 346493-002    |
| GS/Comp-003 | S      | Sep-29-09 10:50 | 2 - 2 ft     | 346493-003    |



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: King SWD # 1*

*Project ID: 30-015-20257*

*Work Order Number: 346493*

*Report Date: 05-OCT-09*

*Date Received: 09/30/2009*

---

**Sample receipt non conformances and Comments:**

*None*

---

**Sample receipt Non Conformances and Comments per Sample:**

*None*

**Analytical Non Conformances and Comments:**

*Batch: LBA-775057 Percent Moisture*

*AD2216A*

*Batch 775057, Percent Moisture RPD is outside the QC limit. This is most likely due to sample non-homogeneity.*

*Samples affected are: 346493-001, -002, -003.*

*Batch: LBA-775234 Inorganic Anions by EPA 300*

*None*



# Certificate of Analysis Summary 346493

Yates Petroleum Corporation, Artesia, NM

Project Name: King SWD # 1



Project Id: 30-015-20257

Contact: Robert Asher

Date Received in Lab: Wed Sep-30-09 09:35 am

Report Date: 05-OCT-09


Project Location: Eddy County

Project Manager: Brent Barron, II

|                           |                   |                 |                 |                 |  |  |  |
|---------------------------|-------------------|-----------------|-----------------|-----------------|--|--|--|
| <b>Analysis Requested</b> | <b>Lab Id:</b>    | 346493-001      | 346493-002      | 346493-003      |  |  |  |
|                           | <b>Field Id:</b>  | GS/Comp-001     | GS/Comp-002     | GS/Comp-003     |  |  |  |
|                           | <b>Depth:</b>     | 4-4 In          | 1-1 ft          | 2-2 ft          |  |  |  |
|                           | <b>Matrix:</b>    | SOIL            | SOIL            | SOIL            |  |  |  |
|                           | <b>Sampled:</b>   | Sep-29-09 10:22 | Sep-29-09 10:36 | Sep-29-09 10:50 |  |  |  |
| <b>Anions by E300</b>     | <b>Extracted:</b> |                 |                 |                 |  |  |  |
|                           | <b>Analyzed:</b>  | Oct-01-09 13:06 | Oct-01-09 13:06 | Oct-01-09 13:06 |  |  |  |
|                           | <b>Units/RL:</b>  | mg/kg RL        | mg/kg RL        | mg/kg RL        |  |  |  |
| Chloride                  |                   | 7770 460        | 104 52.7        | 290 26.4        |  |  |  |
| <b>Percent Moisture</b>   | <b>Extracted:</b> |                 |                 |                 |  |  |  |
|                           | <b>Analyzed:</b>  | Oct-01-09 10:10 | Oct-01-09 10:10 | Oct-01-09 10:10 |  |  |  |
|                           | <b>Units/RL:</b>  | % RL            | % RL            | % RL            |  |  |  |
| Percent Moisture          |                   | 8.65 1.00       | 20.3 1.00       | 20.4 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.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - 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.

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - San Antonio - Corpus Christi - Midland/Odessa - Tampa - Miami - Latin America

|   | Phone          | Fax            |
|---|----------------|----------------|
| 4143 Greenbriar Dr, Stafford, Tx 77477      | (281) 240-4200 | (281) 240-4280 |
| 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 |
| 842 Cantwell Lane, Corpus Christi, TX 78408 | (361) 884-0371 | (361) 884-9116 |

### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Name: King SWD #1  
Project #: 30-015-20257  
Project Loc: Eddy County  
PO #: 105632  
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

[illegible]

**Environmental Lab of Texas**  
Variance/ Corrective Action Report- Sample Log-In

Client: Yates Petroleum  
Date/ Time: 9.30.09 9:35  
Lab ID #: 346492 / 346493  
Initials: AL

**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)?                              | <u>(Yes)</u> No | Not Applicable           |  |
| #20 | VOC samples have zero headspace?                       | <u>(Yes)</u> 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 346492

for

## Yates Petroleum Corporation

**Project Manager: Robert Asher**

**King SWD # 1**

**30-015-20257**

**05-OCT-09**



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

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-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 (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), 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 (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),  
South Carolina(96031001), Louisiana(04154), Georgia(917)



05-OCT-09

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

Reference: XENCO Report No: **346492**  
**King 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 346492. 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. 346492 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

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



## Sample Cross Reference 346492



Yates Petroleum Corporation, Artesia, NM

King SWD # 1

| Sample Id   | Matrix | Date Collected  | Sample Depth | Lab Sample Id |
|-------------|--------|-----------------|--------------|---------------|
| GS/Comp-001 | S      | Sep-29-09 10:22 | 4 - 4 In     | 346492-001    |
| GS/Comp-002 | S      | Sep-29-09 10:36 | 1 - 1 ft     | 346492-002    |
| GS/Comp-003 | S      | Sep-29-09 10:50 | 2 - 2 ft     | 346492-003    |



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: King SWD # 1*

*Project ID: 30-015-20257*

*Work Order Number: 346492*

*Report Date: 05-OCT-09*

*Date Received: 09/30/2009*

---

**Sample receipt non conformances and Comments:**

None

---

**Sample receipt Non Conformances and Comments per Sample:**

None

**Analytical Non Conformances and Comments:**

Batch: LBA-775057 Percent Moisture

AD2216A

Batch 775057, Percent Moisture RPD is outside the QC limit. This is most likely due to sample non-homogeneity.

Samples affected are: 346492-002, -001, -003.

Batch: LBA-775494 TPH by SW 8015B

None

Batch: LBA-775555 BTEX-MTBE EPA 8021B

SW8021BM

Batch 775555, Benzene, Ethylbenzene, Toluene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. m,p-Xylenes recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 346492-002, -001, -003.

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



# Certificate of Analysis Summary 346492

Yates Petroleum Corporation, Artesia, NM

Project Name: King SWD # 1



Project Id: 30-015-20257

Contact: Robert Asher

Date Received in Lab: Wed Sep-30-09 09:35 am

Report Date: 05-OCT-09


Project Location: Eddy County

Project Manager: Brent Barron, II

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 346492-001      | 346492-002      | 346492-003      |  |  |  |
|------------------------------------|-------------------|-----------------|-----------------|-----------------|--|--|--|
|                                    | <i>Field Id:</i>  | GS/Comp-001     | GS/Comp-002     | GS/Comp-003     |  |  |  |
|                                    | <i>Depth:</i>     | 4-4 In          | 1-1 ft          | 2-2 ft          |  |  |  |
|                                    | <i>Matrix:</i>    | SOIL            | SOIL            | SOIL            |  |  |  |
|                                    | <i>Sampled:</i>   | Sep-29-09 10:22 | Sep-29-09 10:36 | Sep-29-09 10:50 |  |  |  |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | Oct-02-09 16:15 | Oct-02-09 16:15 | Oct-02-09 16:15 |  |  |  |
|                                    | <i>Analyzed:</i>  | Oct-03-09 13:05 | Oct-03-09 13:26 | Oct-03-09 14:29 |  |  |  |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        |  |  |  |
| Benzene                            |                   | ND 0.0011       | ND 0.0013       | ND 0.0012       |  |  |  |
| Toluene                            |                   | ND 0.0022       | ND 0.0025       | ND 0.0025       |  |  |  |
| Ethylbenzene                       |                   | ND 0.0011       | ND 0.0013       | ND 0.0012       |  |  |  |
| m,p-Xylenes                        |                   | ND 0.0022       | ND 0.0025       | ND 0.0025       |  |  |  |
| o-Xylene                           |                   | ND 0.0011       | ND 0.0013       | ND 0.0012       |  |  |  |
| Total Xylenes                      |                   | ND 0.0011       | ND 0.0013       | ND 0.0012       |  |  |  |
| Total BTEX                         |                   | ND 0.0011       | ND 0.0013       | ND 0.0012       |  |  |  |
| <b>Percent Moisture</b>            | <i>Extracted:</i> |                 |                 |                 |  |  |  |
|                                    | <i>Analyzed:</i>  | Oct-01-09 10:10 | Oct-01-09 10:10 | Oct-01-09 10:10 |  |  |  |
|                                    | <i>Units/RL:</i>  | % RL            | % RL            | % RL            |  |  |  |
| Percent Moisture                   |                   | 8.65 1.00       | 20.3 1.00       | 20.4 1.00       |  |  |  |
| <b>TPH By SW8015B Mod</b>          | <i>Extracted:</i> | Oct-04-09 13:36 | Oct-04-09 13:36 | Oct-04-09 13:36 |  |  |  |
|                                    | <i>Analyzed:</i>  | Oct-05-09 05:19 | Oct-05-09 05:44 | Oct-05-09 06:08 |  |  |  |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        |  |  |  |
| C6-C10 Gasoline Range Hydrocarbons |                   | ND 16.4         | ND 18.8         | ND 18.9         |  |  |  |
| C10-C28 Diesel Range Hydrocarbons  |                   | ND 16.4         | ND 18.8         | ND 18.9         |  |  |  |
| Total TPH                          |                   | ND 16.4         | ND 18.8         | ND 18.9         |  |  |  |

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.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - 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.

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - San Antonio - Corpus Christi - Midland/Odessa - Tampa - Miami - Latin America

4143 Greenbriar Dr, Stafford, Tx 77477  
9701 Harry Hines Blvd, Dallas, TX 75220  
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

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

Project Name: King SWD #1

Project #: 30-015-20257

Project Loc: Eddy County

PO #: 105832

Telephone No: 575-748-4219 Fax No: 575-748-4862  
 Sampler Signature: *[Signature]* e-mail: boba@yatespetroleum.com

[illegible]

**Environmental Lab of Texas**  
Variance/ Corrective Action Report- Sample Log-In

Client: Yates Petroleum  
Date/ Time: 9.30.09 9.35  
Lab ID #: 346492 / 346493  
Initials: al

**Sample Receipt Checklist**

|  |       |    |                          | Client Initials |
|--|-------|----|--------------------------|-----------------|
| #1 Temperature of container/ cooler?                       | (Yes) | No | 1.6 °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