



# AE Order Number Banner

## Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



**App Number: pKMW1035742839**

**2RP - 534**

**YATES PETROLEUM CORPORATION**

12/23/2010

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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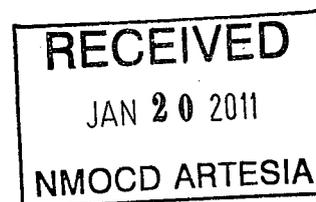
JAMES S. BROWN  
CHIEF OPERATING OFFICER

JOHN D. PERINI  
CHIEF FINANCIAL OFFICER

January 20, 2011

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

Re: Laney AGJ Federal Com. #1  
2RP-534  
30-015-26091  
Section 11, T18S-R24E  
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 May 19, 2010 (128 B/C & 5 B/PW was released with 0 B/C & 0 B/PW recovered). A C-141 Initial Report was submitted to your office on 5/25/2010. Initial samples were taken on 26/10/2010 and were above limits (TPH <5000 ppm & BTEX <50 PPM, chlorides for documentation) for the site ranking of 0. A work plan was mailed to your office on August 2, 2010 and because of contractor availability excavation work began September 17, 2010. The impacted soils were excavated to a depth of ten (10) feet and taken to an NMOCD approved facility. Vertical and horizontal delineation samples were taken on 9/29/2010 and sent to an OCD approved laboratory and were still above limits (TPH <5000 ppm & BTEX <50 PPM). Impacted soils were excavated and hauled to an NMOCD approved facility. Additional delineation samples were taken on 11/8/2010 from the north sidewall and the tank bottom and sent to an NMOCD approved laboratory and the tank bottom results were still above limits (TPH <5000 ppm & BTEX <50 PPM), impacted soils were excavated and hauled to an NMOCD approved facility. Samples were taken on 12/7/2010 and sent to an NMOCD approved laboratory, the tank bottom results were below limits but the east side wall results were still above limits (TPH <5000 ppm & BTEX <50 PPM), impacted soils from the east side wall were excavated and hauled to an NMOCD approved facility. Samples were taken on 12/28/2010 and sent to an NMOCD approved laboratory and the east side wall results were below limits (TPH <5000 ppm & BTEX <50 PPM). The NMOCD was notified of sampling at the location on 1/11/2011 and sent to an NMOCD approved laboratory with all results being below limits (TPH <5000 ppm & BTEX <50 PPM). Enclosed are the analytical reports and sample diagram.

**There is currently an open excavation (approximately 30' x 30' x 18' deep), it is fenced but still poses a threat to livestock, human health, Yates Petroleum Corporation requests closure based on the impacted soils excavated/removed, analytical results and current open excavation risks.**

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

Thank you.

YATES PETROLEUM CORPORATION

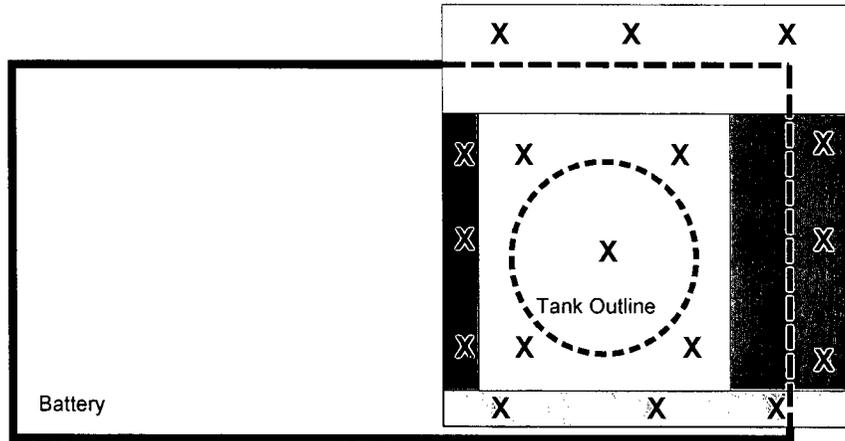
A handwritten signature in black ink, appearing to read "Robert Asher".

Robert Asher  
Environmental Regulatory Agent

/rca  
Enclosure(s)



Well Head

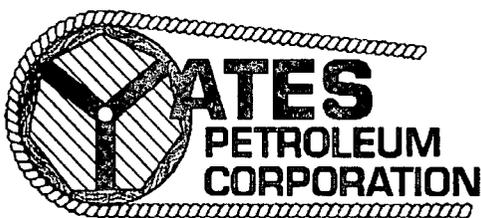


Analytical Report-403367	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
Comp-18.0 T/B	Bottom	1/11/2011	Comp/Shovel	1' (18' BSL)	12.08	459	1320	1780
Comp-16.0 NSW	North Side Wall	1/11/2011	Comp/Shovel	16' BSL	0.0413	ND	ND	ND
Comp-16.0 ESW	East Side Wall	1/11/2011	Comp/Shovel	16' BSL	ND	ND	ND	ND
Comp-16.0 SSW	South Side Wall	1/11/2011	Comp/Shovel	16' BSL	0.0021	ND	ND	ND
Comp-16.0 WSW	West Side Wall	1/11/2011	Comp/Shovel	16' BSL	0.0011	ND	ND	ND

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 350, per New Mexico State Engineer Office).

All results are ppm. BSL - Below Surface Level.

Released: 128 B/O & 5 B/PW; Recovered: 0 B/O & 0 B/PW. Release Date: 5/19/2010



Laney AGJ Federal. #1

30-015-26091

Section 11, T18S-R24E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)

Xenco Report #: 403367

Report Date: 1/14/2011

Prepared by Robert Asher  
Environmental Regulatory Agent

# Analytical Report 403367

for  
Yates Petroleum Corporation

Project Manager: Robert Asher

Laney AGJ Federal Com. #1

30-015-26091

14-JAN-11



**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 (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: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)  
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

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

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



14-JAN-11

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

Reference: XENCO Report No: **403367**  
**Laney AGJ Federal Com. #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 403367. 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. 403367 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 403367**



**Yates Petroleum Corporation, Artesia, NM**

Laney AGJ Federal Com. #1

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp- 18.0 TB	S	Jan-11-11 10:00	18 - 18 ft	403367-001
Comp- 16.0 NSW	S	Jan-11-11 10:05	16 - 16 ft	403367-002
Comp- 16.0 ESW	S	Jan-11-11 10:10	16 - 16 ft	403367-003
Comp- 16.0 SSW	S	Jan-11-11 10:15	16 - 16 ft	403367-004
Comp- 16.0 WSW	S	Jan-11-11 10:20	16 - 16 ft	403367-005



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Laney AGJ Federal Com. #1*



*Project ID: 30-015-26091*  
*Work Order Number: 403367*

*Report Date: 14-JAN-11*  
*Date Received: 01/12/2011*

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**Sample receipt non conformances and Comments:**

None

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

None

**Analytical Non Conformances and Comments:**

Batch: LBA-839679 BTEX by EPA 8021B  
SW8021BM

Batch 839679, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 403367-001.

4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 403367-001.

SW8021BM

Batch 839679, Benzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Ethylbenzene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 403367-001, -003, -005, -004, -002.

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



# Certificate of Analysis Summary 403367

Yates Petroleum Corporation, Artesia, NM

Project Name: Laney AGJ Federal Com. #1



Project Id: 30-015-26091

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Wed Jan-12-11 11:30 am

Report Date: 14-JAN-11

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	403367-001	403367-002	403367-003	403367-004	403367-005	
	Field Id:	Comp- 18.0 TB	Comp- 16.0 NSW	Comp- 16.0 ESW	Comp- 16.0 SSW	Comp- 16.0 WSW	
	Depth:	18-18 ft	16-16 ft	16-16 ft	16-16 ft	16-16 ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Jan-11-11 10:00	Jan-11-11 10:05	Jan-11-11 10:10	Jan-11-11 10:15	Jan-11-11 10:20	
BTEX by EPA 8021B	Extracted:	Jan-13-11 15:45					
	Analyzed:	Jan-14-11 08:50	Jan-14-11 00:30	Jan-14-11 00:53	Jan-14-11 01:16	Jan-14-11 01:38	
	Units/RL:	mg/kg RL					
Benzene		ND 0.0205	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0011	
Toluene		1.019 0.0411	0.0063 0.0021	ND 0.0021	ND 0.0020	ND 0.0021	
Ethylbenzene		1.367 0.0205	0.0041 0.0010	ND 0.0010	ND 0.0010	ND 0.0011	
m,p-Xylenes		8.813 0.0411	0.0296 0.0021	ND 0.0021	0.0021 0.0020	ND 0.0021	
o-Xylenc		0.8801 0.0205	0.0013 0.0010	ND 0.0010	ND 0.0010	ND 0.0011	
Xylenes, Total		9.693 0.0205	0.0309 0.0010	ND 0.0010	0.0021 0.0010	ND 0.0011	
Total BTEX		12.08 0.0205	0.0413 0.0010	ND 0.0010	0.0021 0.0010	0.0011 0.0011	
Percent Moisture	Extracted:	Jan-12-11 17:00					
	Analyzed:	Jan-12-11 17:00					
	Units/RL:	% RL					
Percent Moisture		2.84 1.00	3.84 1.00	4.89 1.00	1.33 1.00	5.40 1.00	
TPH By SW8015B Mod	Extracted:	Jan-13-11 09:30					
	Analyzed:	Jan-13-11 13:53	Jan-13-11 16:20	Jan-13-11 14:53	Jan-13-11 15:23	Jan-13-11 15:51	
	Units/RL:	mg/kg RL					
C6-C10 Gasoline Range Hydrocarbons		459 15.4	ND 15.6	ND 15.7	ND 15.2	ND 15.8	
C10-C28 Diesel Range Hydrocarbons		1320 15.4	ND 15.6	ND 15.7	ND 15.2	ND 15.8	
Total TPH		1780 15.4	ND 15.6	ND 15.7	ND 15.2	ND 15.8	

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

**MDL** Method Detection Limit

**PQL** Practical Quantitation Limit

\* Outside XENCO's scope of NELAC Accreditation.

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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
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116





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: Yates Petroleum Corporation  
 Date/Time: 1-12-10 11:30  
 Lab ID #: 403367  
 Initials: LM

**Sample Receipt Checklist**

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

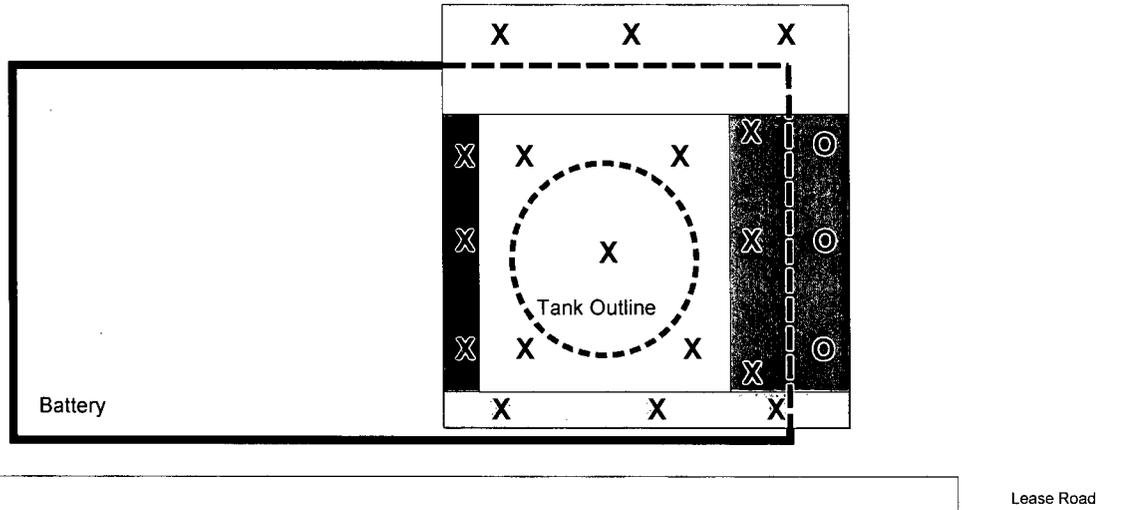
**Nonconformance Documentation**

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature 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- 399757	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
Comp-18.0 T/B	Bottom	12/7/2010	Comp/Shovel	1' (18' BSL)	23.401	1690	2350	4040
Comp-16.0 NSW	North Side Wall	12/7/2010	Comp/Shovel	16' BSL	0.176	ND	ND	ND
<b>Comp-16.0 ESW</b>	East Side Wall	12/7/2010	Comp/Shovel	16' BSL	27.560	3040	4560	7600
Comp-16.0 SSW	South Side Wall	12/7/2010	Comp/Shovel	16' BSL	ND	ND	ND	ND
<b>Comp-16.0 WSW</b>	West Side Wall	12/7/2010	Comp/Shovel	16' BSL	ND	ND	ND	ND
Analytical Report- 402132	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
<b>Comp-10.0 ESW</b>	East Side Wall	12/28/2010	Comp/Shovel	16' BSL	ND	ND	ND	ND

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 350, per New Mexico State Engineer Office).

All results are ppm. BSL - Below Surface Level. X - Sample Points (12/7/2010) O - Sample Points (12/28/2010)

Released: 128 B/O & 5 B/PW; Recovered: 0 B/O & 0 B/PW. Release Date: 5/19/2010



Laney AGJ Federal. #1

30-015-26091

Section 11, T18S-R24E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)

Xenco Report #: 399757  
Report Date: 12/13/2010

Xenco Report #: 402132  
Report Date: 1/4/2011

Prepared by Robert Asher  
Environmental Regulatory Agent

# Analytical Report 402132

for  
Yates Petroleum Corporation

Project Manager: Robert Asher

Laney AGJ Federal # 1

30-015-26091

04-JAN-11



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12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)  
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Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

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

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

Xenco-Boca Raton (EPA Lab Code: FL01273):

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

North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

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

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



04-JAN-11

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

Reference: XENCO Report No: **402132**  
**Laney AGJ Federal # 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 402132. 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. 402132 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 402132**



**Yates Petroleum Corporation, Artesia, NM**

Laney AGJ Federal # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-16.0 ESW	S	Dec-28-10 10:54	16 - 16 ft	402132-001



## CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Laney AGJ Federal # 1



Project ID: 30-015-26091  
Work Order Number: 402132

Report Date: 04-JAN-11  
Date Received: 12/30/2010

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**Sample receipt non conformances and Comments:**

None

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

None

**Analytical Non Conformances and Comments:**

Batch: LBA-838209 BTEX by EPA 8021  
SW8021BM

Batch 838209, Ethylbenzene, Toluene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 402132-001.

The Laboratory Control Sample for Toluene, Ethylbenzene, o-Xylene is within laboratory Control Limits.

Batch: LBA-838307 TPH by SW 8015B  
SW8015B\_NM

Batch 838307, C10-C28 Diesel Range Hydrocarbons, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 402132-001.

The Laboratory Control Sample for C6-C10 Gasoline Range Hydrocarbons, C10-C28 Diesel Range Hydrocarbons is within laboratory Control Limits.

SW8015B\_NM

Batch 838307, o-Terphenyl recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 402132-001 S.

o-Terphenyl recovered below QC limits. Matrix interferences is suspected; data not confirmed by re-analysis

Samples affected are: 402132-001 SD, 402132-001.



# Certificate of Analysis Summary 402132

Yates Petroleum Corporation, Artesia, NM

Project Name: Laney AGJ Federal # 1



Project Id: 30-015-26091

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Dec-30-10 09:30 am

Report Date: 04-JAN-11

Project Manager: Brent Barron, II

<b>Analysis Requested</b>	<i>Lab Id:</i>	402132-001				
	<i>Field Id:</i>	Comp-16.0 ESW				
	<i>Depth:</i>	16-16 ft				
	<i>Matrix:</i>	SOIL				
	<i>Sampled:</i>	Dec-28-10 10:54				
<b>BTEX by EPA 8021</b>	<i>Extracted:</i>	Dec-30-10 11:59				
	<i>Analyzed:</i>	Dec-30-10 13:54				
	<i>Units/RL:</i>	mg/kg RL				
Benzene		ND 0.0010				
Toluene		ND 0.0020				
Ethylbenzene		ND 0.0010				
m,p-Xylenes		ND 0.0020				
o-Xylenc		ND 0.0010				
Xylenes, Total		ND 0.0010				
Total BTEX		ND 0.0010				
<b>Percent Moisture</b>	<i>Extracted:</i>	Dec-30-10 11:00				
	<i>Analyzed:</i>	Dec-30-10 11:00				
	<i>Units/RL:</i>	% RL				
Percent Moisture		2.56 1.00				
<b>TPH by SW 8015B</b>	<i>Extracted:</i>	Jan-03-11 12:00				
	<i>Analyzed:</i>	Jan-03-11 19:12				
	<i>Units/RL:</i>	mg/kg RL				
C6-C10 Gasoline Range Hydrocarbons		ND 15.3				
C10-C28 Diesel Range Hydrocarbons		ND 15.3				
Total TPH		ND 15.3				

Certificate of Analysis Summary 402132  
 Yates Petroleum Corporation, Artesia, NM  
 Project Name: Laney AGJ Federal # 1

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

**MDL** Method Detection Limit

**PQL** Practical Quantitation Limit

\* Outside XENCO's scope of NELAC Accreditation.

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842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116





**XENCO Laboratories**  
 Atlanta, Boca Raton, Corpus Christi, Dallas  
 Houston, Miami, Odessa, Philadelphia  
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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

**Prelog In / Nonconformance Report - Sample Log-In**

Client: Yates Petroleum  
 Date/Time: 12:30:10 9:30  
 Lab ID #: 40713Z  
 Initials: AE

**Sample Receipt Checklist**

1. Samples on ice?	Blue	<del>Water</del>	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	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	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 3.6°C	lbs °C	lbs °C	lbs °C	lbs °C

**Nonconformance Documentation**

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature 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 399757

for  
Yates Petroleum Corporation

**Project Manager: Robert Asher**

**Laney AGJ Federal #1**

**30-015-26091**

**13-DEC-10**



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New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)  
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Xenco-Atlanta (EPA Lab Code: GA00046):

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Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

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

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

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)  
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

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

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



13-DEC-10

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

Reference: XENCO Report No: **399757**  
**Laney AGJ Federal #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 399757. 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. 399757 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 399757**



**Yates Petroleum Corporation, Artesia, NM**

Laney AGJ Federal #1

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp-18.0 TB	S	Dec-07-10 10:43	12 - 12 ft	399757-001
Comp-16.0 NSW	S	Dec-07-10 10:48	14 - 14 ft	399757-002
Comp-16.0 ESW	S	Dec-07-10 10:52	16 - 16 ft	399757-003
Comp-16.0 SSW	S	Dec-07-10 10:58	8 - 8 ft	399757-004
Comp-16.0 WSW	S	Dec-07-10 11:04	8 - 8 ft	399757-005



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Laney AGJ Federal #1*



*Project ID: 30-015-26091*  
*Work Order Number: 399757*

*Report Date: 13-DEC-10*  
*Date Received: 12/08/2010*

---

**Sample receipt non conformances and Comments:**

None

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

None

**Analytical Non Conformances and Comments:**

*Batch: LBA-835333 BTEX by EPA 8021*  
*SW8021BM*

*Batch 835333, 1,4-Difluorobenzene recovered below QC limits Data not confirmed by re-analysis. Samples affected are: 590902-1-BLK,399757-005. QC not confirmed by re-analysis.*

*Batch: LBA-835357 BTEX by EPA 8021*  
*SW8021BM*

*Batch 835357, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis*

*Samples affected are: 399757-002 D,399757-003,399757-002,399757-004.*

*4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis*

*Samples affected are: 399757-001.*

*SW8021BM*

*Batch 835357, o-Xylene recovered below QC limits in the Blank Spike Duplicate.*  
*Samples affected are: 399757-001, -002, -003, -004.*

*SW8021BM*

*Batch 835357, o-Xylene RPD was outside laboratory control limits.*  
*Samples affected are: 399757-001, -002, -003, -004*



# Certificate of Analysis Summary 399757

Yates Petroleum Corporation, Artesia, NM

Project Name: Laney AGJ Federal #1



Project Id: 30-015-26091

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Wed Dec-08-10 10:11 am

Report Date: 13-DEC-10

Project Manager: Brent Barron, II

<b>Analysis Requested</b>	<i>Lab Id:</i>	399757-001	399757-002	399757-003	399757-004	399757-005	
	<i>Field Id:</i>	Comp-18.0 TB	Comp-16.0 NSW	Comp-16.0 ESW	Comp-16.0 SSW	Comp-16.0 WSW	
	<i>Depth:</i>	12-12 ft	14-14 ft	16-16 ft	8-8 ft	8-8 ft	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	Dec-07-10 10:43	Dec-07-10 10:48	Dec-07-10 10:52	Dec-07-10 10:58	Dec-07-10 11:04	
<b>BTEX by EPA 8021</b>	<i>Extracted:</i>	Dec-08-10 16:30	Dec-08-10 16:30	Dec-08-10 16:30	Dec-08-10 16:30	Dec-08-10 14:30	
	<i>Analyzed:</i>	Dec-10-10 04:09	Dec-10-10 02:02	Dec-10-10 04:31	Dec-10-10 03:27	Dec-09-10 08:56	
	<i>Units/RL:</i>	mg/kg RL					
Benzene		ND 0.1019	ND 0.0010	ND 0.1017	ND 0.0010	ND 0.0011	
Toluene		5.432 0.2038	0.0224 0.0020	5.878 0.2033	ND 0.0020	ND 0.0021	
Ethylbenzene		6.869 0.1019	0.0156 0.0010	8.191 0.1017	ND 0.0010	ND 0.0011	
m,p-Xylenes		2.032 0.2038	0.1127 0.0020	2.442 0.2033	ND 0.0020	ND 0.0021	
o-Xylenc		9.068 0.1019	0.0256 0.0010	11.05 0.1017	ND 0.0010	ND 0.0011	
Xylenes, Total		11.100 0.1019	0.1383 0.0010	13.49 0.1017	ND 0.0010	ND 0.0011	
Total BTEX		23.401 0.1019	0.1763 0.0010	27.56 0.1017	ND 0.0010	ND 0.0011	
<b>Percent Moisture</b>	<i>Extracted:</i>	Dec-09-10 08:30					
	<i>Analyzed:</i>	Dec-09-10 08:30					
	<i>Units/RL:</i>	% RL					
Percent Moisture		2.24 1.00	2.73 1.00	1.83 1.00	ND 1.00	5.57 1.00	
<b>TPH by SW 8015B</b>	<i>Extracted:</i>	Dec-08-10 13:00					
	<i>Analyzed:</i>	Dec-09-10 10:42	Dec-09-10 11:12	Dec-09-10 11:40	Dec-09-10 12:08	Dec-09-10 12:36	
	<i>Units/RL:</i>	mg/kg RL					
C6-C10 Gasoline Range Hydrocarbons		1690 15.3	ND 15.4	3040 15.2	ND 15.1	ND 15.8	
C10-C28 Diesel Range Hydrocarbons		2350 15.3	ND 15.4	4560 15.2	ND 15.1	ND 15.8	
Total TPH		4040 15.3	ND 15.4	7600 15.2	ND 15.1	ND 15.8	

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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

**MDL** Method Detection Limit

**PQL** Practical Quantitation Limit

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2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
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**XENCO Laboratories**  
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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: Yates  
 Date/Time: 12-8-10 10:11  
 Lab ID #: 399757  
 Initials: XM

**Sample Receipt Checklist**

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
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		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>35</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

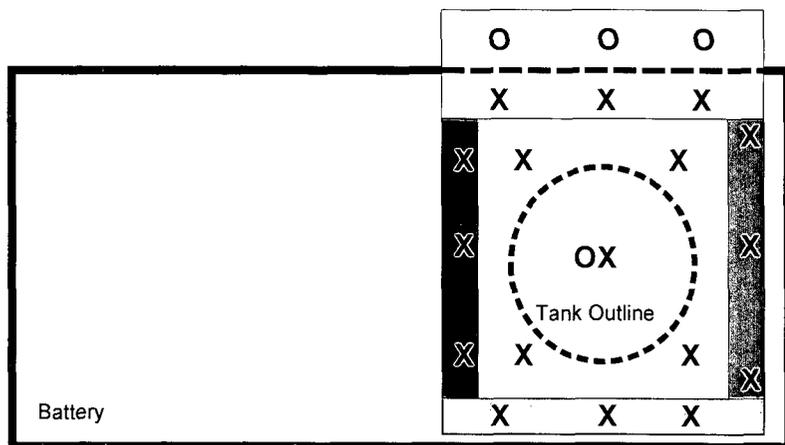
**Nonconformance Documentation**

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature 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-392024	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
Comp-10.0 T/B	Bottom	9/29/2010	Comp/Auger	1' (11' BSL)	424.9	5920	1540	7460
Comp-08.0 NSW	North Side Wall	9/29/2010	Comp/Auger	8' X 1'	395.2	6420	1800	8220
Comp-08.0 ESW	East Side Wall	9/29/2010	Comp/Auger	8' X 1'	0.004	ND	ND	ND
Comp-08.0 SSW	South Side Wall	9/29/2010	Comp/Auger	8' X 1'	ND	ND	ND	ND
Comp-08.0 WSW	West Side Wall	9/29/2010	Comp/Auger	8' X 1'	ND	ND	ND	ND
Analytical Report-396759	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
Comp-12.0 T/B	Bottom	11/8/2010	Comp/Trackhoe	3' (12' BSL)	720.9	11400	2270	13670
Comp-14.0 T/B	Bottom	11/8/2010	Comp/Trackhoe	5' (14' BSL)	920.5	16800	3080	19880
Comp-16.0 T/B	Bottom	11/8/2010	Comp/Trackhoe	7' (16' BSL)	762.2	12000	1970	13970
Comp-8X2 NSW	North Side Wall	11/8/2010	Comp/Trackhoe	8' X 2'	ND	ND	ND	ND
Comp-8X4 NSW	North Side Wall	11/8/2010	Comp/Trackhoe	8' X 4'	ND	ND	ND	ND

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 350, per New Mexico State Engineer Office).

All results are ppm. BSL - Below Surface Level. X - Sample Points (9/29/2010) O - Sample Points (11/8/2010)

Released: 128 B/O & 5 B/PW; Recovered: 0 B/O & 0 B/PW. Release Date: 5/19/2010



Laney AGJ Federal. #1

30-015-26091

Section 11, T18S-R24E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)

Xenco Report #: 392024

Report Date: 10/5/2010

Xenco Report #: 396759

Report Date: 11/15/2010

Prepared by Robert Asher  
Environmental Regulatory Agent

# Analytical Report 396759

for  
**Yates Petroleum Corporation**

**Project Manager: Robert Asher**

**Laney AGJ Federal # 1**

**30-015-26091**

**15-NOV-10**



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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: FL01273):**

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)  
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

**Xenco Phoenix (EPA Lab Code: AZ00901):**

Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

**Xenco-Phoenix Mobile (EPA Lab code: AZ00901):** Arizona (AZM757)

**Xenco Tucson (EPA Lab code:AZ000989):** Arizona (AZ0758)



15-NOV-10

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

Reference: XENCO Report No: **396759**  
**Laney AGJ Federal # 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 396759. 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. 396759 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 396759**



**Yates Petroleum Corporation, Artesia, NM**  
Laney AGJ Federal # 1

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp-12.0 TB	S	Nov-08-10 14:18	12 - 12 ft	396759-001
Comp-14.0 TB	S	Nov-08-10 14:23	14 - 14 ft	396759-002
Comp-16.0 TB	S	Nov-08-10 14:27	16 - 16 ft	396759-003
Comp-8X2 NSW	S	Nov-08-10 14:31	8 - 8 ft	396759-004
Comp-8X4 NSW	S	Nov-08-10 14:34	8 - 8 ft	396759-005



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Laney AGJ Federal # 1*



*Project ID: 30-015-26091*  
*Work Order Number: 396759*

*Report Date: 15-NOV-10*  
*Date Received: 11/10/2010*

---

**Sample receipt non conformances and Comments:**

None

---

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

None

**Analytical Non Conformances and Comments:**

*Batch: LBA-831605 TPH by SW 8015B*  
*SW8015B\_NM*

*Batch 831605, 1-Chlorooctane recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis*  
*Samples affected are: 396759-003,396759-001.*

*Batch: LBA-831762 BTEX by EPA 8021*  
*SW8021BM*

*Batch 831762, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike.*

*Samples affected are: 396759-005, -004.*

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

*Batch: LBA-831952 BTEX by EPA 8021*  
*SW8021BM*

*Batch 831952, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis*

*Samples affected are: 396759-001,396759-003,396759-002.*



# Certificate of Analysis Summary 396759

Yates Petroleum Corporation, Artesia, NM

Project Name: Laney AGJ Federal # 1



Project Id: 30-015-26091

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Wed Nov-10-10 11:00 am

Report Date: 15-NOV-10

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	396759-001	396759-002	396759-003	396759-004	396759-005
	Field Id:	Comp-12.0 TB	Comp-14.0 TB	Comp-16.0 TB	Comp-8X2 NSW	Comp-8X4 NSW
	Depth:	12-12 ft	14-14 ft	16-16 ft	8-8 ft	8-8 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-08-10 14:18	Nov-08-10 14:23	Nov-08-10 14:27	Nov-08-10 14:31	Nov-08-10 14:34
BTEX by EPA 8021	Extracted:	Nov-12-10 11:22	Nov-12-10 11:22	Nov-12-10 11:22	Nov-11-10 12:46	Nov-11-10 12:46
	Analyzed:	Nov-12-10 16:56	Nov-12-10 17:17	Nov-12-10 17:38	Nov-11-10 17:33	Nov-11-10 17:54
	Units/RL:	mg/kg RL				
Benzene		ND 11.03	ND 10.99	ND 10.74	ND 0.0011	ND 0.0011
Toluene		164.2 22.06	206.1 21.97	182.1 21.47	ND 0.0021	ND 0.0022
Ethylbenzene		54.48 11.03	67.79 10.99	61.52 10.74	ND 0.0011	ND 0.0011
m,p-Xylenes		420.5 22.06	536.8 21.97	433.0 21.47	ND 0.0021	ND 0.0022
o-Xylene		81.72 11.03	109.8 10.99	85.57 10.74	ND 0.0011	ND 0.0011
Xylenes, Total		502.2 11.03	646.6 10.99	518.6 10.74	ND 0.0011	ND 0.0011
Total BTEX		720.9 11.03	920.5 10.99	762.2 10.74	ND 0.0011	ND 0.0011
Percent Moisture	Extracted:	Nov-11-10 11:07	Nov-11-10 11:07	Nov-11-10 11:07	Nov-11-10 11:19	Nov-11-10 11:19
	Analyzed:	Nov-11-10 11:07	Nov-11-10 11:07	Nov-11-10 11:07	Nov-11-10 11:19	Nov-11-10 11:19
	Units/RL:	% RL				
Percent Moisture		9.33 1.00	8.98 1.00	7.78 1.00	7.13 1.00	7.24 1.00
TPH by SW 8015B	Extracted:	Nov-10-10 16:00				
	Analyzed:	Nov-11-10 12:08	Nov-11-10 12:38	Nov-11-10 14:33	Nov-11-10 11:11	Nov-11-10 11:40
	Units/RL:	mg/kg RL				
C6-C10 Gasoline Range Hydrocarbons		11400 82.8	16800 165	12000 81.7	ND 16.2	ND 16.1
C10-C28 Diesel Range Hydrocarbons		2270 82.8	3080 165	1970 81.7	ND 16.2	ND 16.1
Total TPH		13670 82.8	19880 165	13970 81.7	ND 16.2	ND 16.1

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

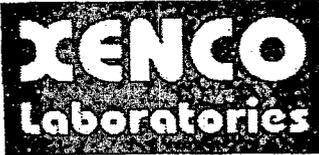
- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike 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
- MDL** Method Detection Limit
- PQL** Practical Quantitation Limit
- \* Outside XENCO's scope of NELAC Accreditation.

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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





**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: Yates  
 Date/Time: 11-10-10 11:00  
 Lab ID #: 396759  
 Initials: XIV

**Sample Receipt Checklist**

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
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		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>5.1</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

**Nonconformance Documentation**

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature 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 392024

for  
Yates Petroleum Corporation

**Project Manager: Robert Asher**

**Laney AGJ Federal #1**

**30-015-26091**

**05-OCT-10**



**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 (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: FL01273):

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

North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

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

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



05-OCT-10

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

Reference: XENCO Report No: **392024**  
**Laney AGJ Federal #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 392024. 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. 392024 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,

Odessa Laboratory Manager

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**Sample Cross Reference 392024**



**Yates Petroleum Corporation, Artesia, NM**  
Laney AGJ Federal #1

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp-10.0 TB	S	Sep-29-10 13:49	10 - 10 ft	392024-001
Comp-08.0 NSW	S	Sep-29-10 14:03	8 - 8 ft	392024-002
Comp-08.0 ESW	S	Sep-29-10 14:18	8 - 8 ft	392024-003
Comp-08.0 SSW	S	Sep-29-10 14:31	8 - 8 ft	392024-004
Comp-08.0 WSW	S	Sep-29-10 14:43	8 - 8 ft	392024-005



## CASE NARRATIVE

Client Name: Yates Petroleum Corporation  
Project Name: Laney AGJ Federal #1



Project ID: 30-015-26091  
Work Order Number: 392024

Report Date: 05-OCT-10  
Date Received: 10/01/2010

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**Sample receipt non conformances and Comments:**

None

---

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

None

**Analytical Non Conformances and Comments:**

Batch: LBA-825786 BTEX by EPA 8021B  
SW8021BM

Batch 825786, 4-Bromofluorobenzene recovered above QC limits Sample Data confirmed by re-analysis. Samples affected are: 574992-1-BKS,574992-1-BLK,574992-1-BSD,392024-003 S,392024-003 SD,392024-003. Surrogate Failures in QC were not reanalyzed.

Batch: LBA-825796 BTEX by EPA 8021B  
SW8021BM

Batch 825796, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; QC data not confirmed by re-analysis  
Samples affected are: 392068-001 S,392068-001 SD.

Batch: LBA-825799 TPH By SW8015B Mod  
SW8015B\_NM

Batch 825799, 1-Chlorooctane recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis  
Samples affected are: 392024-002. o-Terphenyl was within QC limits for this sample.

Batch: LBA-825962 BTEX by EPA 8021B  
SW8021BM

Batch 825962, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis  
Samples affected are: 392024-002. 1,4-Difluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 392024-001.  
4-Bromofluorobenzene recovered above QC limits Data confirmed by re-analysis. Samples affected are: 575112-1-BLK,575112-1-BSD,392024-001,392024-005.



# Certificate of Analysis Summary 392024

Yates Petroleum Corporation, Artesia, NM

Project Name: Laney AGJ Federal #1



Project Id: 30-015-26091

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Fri Oct-01-10 09:45 am

Report Date: 05-OCT-10

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	392024-001	392024-002	392024-003	392024-004	392024-005	
	Field Id:	Comp-10.0 TB	Comp-08.0 NSW	Comp-08.0 ESW	Comp-08.0 SSW	Comp-08.0 WSW	
	Depth:	10-10 ft	8-8 ft	8-8 ft	8-8 ft	8-8 ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Sep-29-10 13:49	Sep-29-10 14:03	Sep-29-10 14:18	Sep-29-10 14:31	Sep-29-10 14:43	
BTEX by EPA 8021B	Extracted:	Oct-04-10 13:00	Oct-04-10 13:00	Oct-03-10 14:00	Oct-01-10 17:00	Oct-04-10 13:00	
	Analyzed:	Oct-04-10 20:13	Oct-04-10 21:45	Oct-03-10 17:08	Oct-02-10 05:40	Oct-04-10 17:05	
	Units/RL:	mg/kg RL					
Benzene		2.717 0.5780	1.705 0.5554	ND 0.0011	0.0012 0.0011	ND 0.0055	
Toluene		85.33 1.156	77.10 1.111	ND 0.0022	0.0090 0.0021	ND 0.0110	
Ethylbenzene		37.38 0.5780	30.59 0.5554	ND 0.0011	0.0029 0.0011	ND 0.0055	
m,p-Xylenes		229.8 1.156	221.1 1.111	0.0028 0.0022	0.0156 0.0021	ND 0.0110	
o-Xylene		69.65 0.5780	64.70 0.5554	0.0012 0.0011	0.0044 0.0011	ND 0.0055	
Total Xylenes		299.5 0.5780	285.8 0.5554	0.0040 0.0011	0.0200 0.0011	ND 0.0055	
Total BTEX		424.9 0.5780	395.2 0.5554	0.0040 0.0011	0.0331 0.0011	ND 0.0055	
Percent Moisture	Extracted:						
	Analyzed:	Oct-01-10 17:00					
	Units/RL:	% RL					
Percent Moisture		13.5 1.00	9.97 1.00	7.35 1.00	6.26 1.00	8.74 1.00	
TPH By SW8015B Mod	Extracted:	Oct-01-10 12:30					
	Analyzed:	Oct-01-10 16:27	Oct-01-10 16:58	Oct-01-10 17:29	Oct-01-10 17:59	Oct-01-10 18:29	
	Units/RL:	mg/kg RL					
C6-C10 Gasoline Range Hydrocarbons		5920 86.5	6420 83.2	ND 16.3	ND 16.0	ND 16.4	
C10-C28 Diesel Range Hydrocarbons		1540 86.5	1800 83.2	ND 16.3	ND 16.0	ND 16.4	
Total TPH		7460 86.5	8220 83.2	ND 16.3	ND 16.0	ND 16.4	

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

**MDL** Method Detection Limit

**PQL** Practical Quantitation Limit

\* Outside XENCO's scope of NELAC Accreditation.

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 12600 West I-20 East, Odessa, TX 79765  
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(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116





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: Yates  
 Date/Time: 10/11/10 9:45am  
 Lab ID #: 397024  
 Initials: MS

Sample Receipt Checklist

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

Nonconformance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

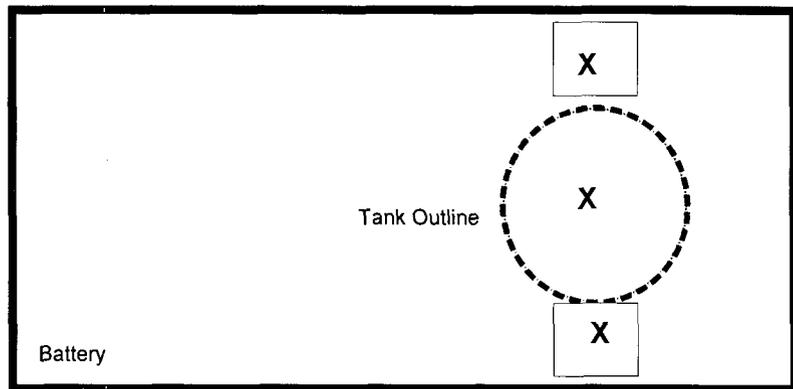
Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature 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



Well Head



Analytical Report- 376799 & 376805	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-002 B/E	Battery Edge	6/10/2010	Comp/Backhoe	2' BSL	539.0	4230	306	4536	229
Comp-004 B/E	Battery Edge	6/10/2010	Comp/Backhoe	4' BSL	695.4	16700	1470	18170	452
Comp-002 T/B	Tank Bottom	6/10/2010	Grab/Backhoe	2' BSL	127.9	1700	187	1887	2740
Comp-004 T/B	Tank Bottom	6/10/2010	Grab/Backhoe	4' BSL	518.7	5360	330	5690	235
Comp-006 T/B	Tank Bottom	6/10/2010	Grab/Backhoe	6' BSL	359.6	3260	189	3449	11.2
Comp-008 T/B	Tank Bottom	6/10/2010	Grab/Backhoe	8' BSL	541.4	15900	1220	17120	7.78

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 350, per New Mexico State Engineer Office).

All results are ppm. Chloride results are for documentation. BSL - Below Surface Level. X - Sample Points

Released: 128 B/O & 5 B/PW; Recovered: 0 B/O & 0 B/PW. Release Date: 5/19/2010



Laney AGJ Federal. #1

30-015-26091

Section 11, T18S-R24E

Eddy County, NM

**SAMPLE DIAGRAM (Not to Scale)**

Xenco Report #: 376799 & 376805  
Report Date: 6/17/2010

Prepared by Robert Asher  
Environmental Regulatory Agent

# Analytical Report 376805

for

## Yates Petroleum Corporation

**Project Manager: Robert Asher**

**Laney AGJ Federal #1**

**30-015-26091**

**17-JUN-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)



17-JUN-10

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

Reference: XENCO Report No: **376805**  
**Laney AGJ Federal #1**  
Project Address: Lea County, NM

**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 376805. 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. 376805 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 376805**



**Yates Petroleum Corporation, Artesia, NM**  
Laney AGJ Federal #1

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp-002B/E	S	Jun-10-10 10:02	2' - 2' ft	376805-001
Comp-004B/E	S	Jun-10-10 10:07	4' - 4' ft	376805-002
Comp-002T/B	S	Jun-10-10 10:15	2' - 2' ft	376805-003
Comp-004T/B	S	Jun-10-10 10:18	4' - 4' ft	376805-004
Comp-006T/B	S	Jun-10-10 10:21	6' - 6' ft	376805-005
Comp-008T/B	S	Jun-10-10 10:25	8' - 8' ft	376805-006



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Laney AGJ Federal #1*



*Project ID: 30-015-26091*  
*Work Order Number: 376805*

*Report Date: 17-JUN-10*  
*Date Received: 06/11/2010*

---

**Sample receipt non conformances and Comments:**

None

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

None

**Analytical Non Conformances and Comments:**

Batch: LBA-810369 Percent Moisture

None

Batch: LBA-810903 Inorganic Anions by EPA 300

None



# Certificate of Analysis Summary 376805

Yates Petroleum Corporation, Artesia, NM

Project Name: Laney AGJ Federal #1



Project Id: 30-015-26091

Contact: Robert Asher

Project Location: Lea County, NM

Date Received in Lab: Fri Jun-11-10 01:43 pm

Report Date: 17-JUN-10

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	376805-001	376805-002	376805-003	376805-004	376805-005	376805-006
	<i>Field Id:</i>	Comp-002B/E	Comp-004B/E	Comp-002T/B	Comp-004T/B	Comp-006T/B	Comp-008T/B
	<i>Depth:</i>	2'-2' ft	4'-4' ft	2'-2' ft	4'-4' ft	6'-6' ft	8'-8' ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-10-10 10:02	Jun-10-10 10:07	Jun-10-10 10:15	Jun-10-10 10:18	Jun-10-10 10:21	Jun-10-10 10:25
<b>Anions in Soil By EPA 300.0</b>	<i>Extracted:</i>	Jun-16-10 08:46					
	<i>Analyzed:</i>	Jun-16-10 08:46					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		229 9.89	452 9.58	2740 50.7	235 10.1	11.2 4.88	7.78 4.72
<b>Percent Moisture</b>	<i>Extracted:</i>	Jun-12-10 09:20					
	<i>Analyzed:</i>	Jun-12-10 09:20					
	<i>Units/RL:</i>	% RL					
Percent Moisture		15.1 1.00	12.3 1.00	17.2 1.00	17.1 1.00	14.0 1.00	11.1 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.

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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
- MDL** Method Detection Limit
- PQL** Practical Quantitation Limit

\* Outside XENCO's scope of NELAC Accreditation.

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	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





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: Yates Petroleum  
 Date/Time: 6.11.10 9:45  
 Lab ID #: 376799 / 376805  
 Initials: AL

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
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		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	<u>N/A</u>	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs	lbs	lbs	lbs	lbs
<u>1.1</u> °C				

Nonconformance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature 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 376799

for

## Yates Petroleum Corporation

**Project Manager: Robert Asher**

**Laney AGJ Federal #1**

**30-015-26091**

**17-JUN-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)



17-JUN-10

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

Reference: XENCO Report No: **376799**  
**Laney AGJ Federal #1**  
Project Address: Lea County, NM

**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 376799. 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. 376799 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 376799**



**Yates Petroleum Corporation, Artesia, NM**  
Laney AGJ Federal #1

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp-002B/E	S	Jun-10-10 10:02	2' - 2' ft	376799-001
Comp-004B/E	S	Jun-10-10 10:07	4' - 4' ft	376799-002
Comp-002T/B	S	Jun-10-10 10:15	2' - 2' ft	376799-003
Comp-004T/B	S	Jun-10-10 10:18	4' - 4' ft	376799-004
Comp-006T/B	S	Jun-10-10 10:21	6' - 6' ft	376799-005
Comp-008T/B	S	Jun-10-10 10:25	8' - 8' ft	376799-006



## CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Laney AGJ Federal #1



Project ID: 30-015-26091  
Work Order Number: 376799

Report Date: 17-JUN-10  
Date Received: 06/11/2010

---

### Sample receipt non conformances and Comments:

None

---

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

None

#### Analytical Non Conformances and Comments:

Batch: LBA-810369 Percent Moisture

None

Batch: LBA-810858 BTEX by EPA 8021  
SW8021BM

Batch 810858, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis  
Samples affected are: 376799-001,376799-003,376799-002.

SW8021BM

Batch 810858, Benzene, Ethylbenzene, Toluene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.  
Samples affected are: 376799-002, -003, -001.  
The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Batch: LBA-810931 TPH by SW 8015B  
SW8015B\_NM

Batch 810931, 1-Chlorooctane, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis  
Samples affected are: 376799-006,376799-002.

SW8015B\_NM

Batch 810931, C10-C28 Diesel Range Hydrocarbons, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.  
Samples affected are: 376799-004, -002, -005, -006, -003, -001.  
The Laboratory Control Sample for C6-C10 Gasoline Range Hydrocarbons , C10-C28 Diesel Range Hydrocarbons is within laboratory Control Limits



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Laney AGJ Federal #1*



*Project ID: 30-015-26091*  
*Work Order Number: 376799*

*Report Date: 17-JUN-10*  
*Date Received: 06/11/2010*

---

*Batch: LBA-810935 BTEX by EPA 8021*  
*SW8021BM*

*Batch 810935, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis*

*Samples affected are: 376799-006.*

*4-Bromofluorobenzene recovered below QC limits Data not confirmed by re-analysis. Samples affected are: 565901-1-BLK.*



# Certificate of Analysis Summary 376799

Yates Petroleum Corporation, Artesia, NM

Project Name: Laney AGJ Federal #1



Project Id: 30-015-26091

Contact: Robert Asher

Project Location: Lea County, NM

Date Received in Lab: Fri Jun-11-10 09:45 am

Report Date: 17-JUN-10

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	376799-001	376799-002	376799-003	376799-004	376799-005	376799-006					
	<i>Field Id:</i>	Comp-002B/E	Comp-004B/E	Comp-002T/B	Comp-004T/B	Comp-006T/B	Comp-008T/B					
	<i>Depth:</i>	2'-2' ft	4'-4' ft	2'-2' ft	4'-4' ft	6'-6' ft	8'-8' ft					
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL					
	<i>Sampled:</i>	Jun-10-10 10:02	Jun-10-10 10:07	Jun-10-10 10:15	Jun-10-10 10:18	Jun-10-10 10:21	Jun-10-10 10:25					
<b>BTEX by EPA 8021</b>	<i>Extracted:</i>	Jun-15-10 14:00	Jun-15-10 14:00	Jun-15-10 14:00	Jun-16-10 08:30	Jun-16-10 08:30	Jun-16-10 08:30					
	<i>Analyzed:</i>	Jun-15-10 19:41	Jun-15-10 20:48	Jun-15-10 21:55	Jun-16-10 18:37	Jun-16-10 20:06	Jun-16-10 21:13					
	<i>Units/RL:</i>	mg/kg RL										
Benzene	8.764	5.843	9.935	5.645	1.981	1.208	34.98	30.16	ND	11.63	ND	11.24
Toluene	76.13	11.69	128.3	11.29	7.621	2.415	154.1	60.31	99.30	23.26	140.0	22.47
Ethylbenzene	58.78	5.843	69.49	5.645	7.186	1.208	ND	30.16	40.12	11.63	47.64	11.24
m,p-Xylenes	323.3	11.69	397.5	11.29	87.10	2.415	259.7	60.31	183.7	23.26	292.6	22.47
o-Xylene	71.98	5.843	90.20	5.645	24.01	1.208	69.96	30.16	36.51	11.63	61.12	11.24
Xylenes, Total	395.3	5.843	487.7	5.645	111.11	1.208	329.7	30.16	220.2	11.63	353.7	11.24
Total BTEX	539.0	5.843	695.4	5.645	127.90	1.208	518.7	30.16	359.6	11.63	541.4	11.24
<b>Percent Moisture</b>	<i>Extracted:</i>	Jun-12-10 09:20										
	<i>Analyzed:</i>	Jun-12-10 09:20										
	<i>Units/RL:</i>	% RL										
Percent Moisture	15.1	1.00	12.3	1.00	17.2	1.00	17.1	1.00	14.0	1.00	11.1	1.00
<b>TPH by SW 8015B</b>	<i>Extracted:</i>	Jun-12-10 09:30										
	<i>Analyzed:</i>	Jun-15-10 18:43	Jun-16-10 14:15	Jun-15-10 19:37	Jun-15-10 20:04	Jun-15-10 20:32	Jun-16-10 14:42					
	<i>Units/RL:</i>	mg/kg RL										
C6-C10 Gasoline Range Hydrocarbons	4230	17.6	16700	85.3	1700	18.0	5360	18.2	3260	87.6	15900	84.1
C10-C28 Diesel Range Hydrocarbons	306	17.6	1470	85.3	187	18.0	330	18.2	189	87.6	1220	84.1
Total TPH	4536	17.6	18170	85.3	1887	18.0	5690	18.2	3449	87.6	17120	84.1

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
- MDL** Method Detection Limit
- PQL** Practical Quantitation Limit
- \* Outside XENCO's scope of NELAC Accreditation.

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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: Yates Petroleum  
 Date/Time: 6-11-10 9:45  
 Lab ID #: 376799 / 376805  
 Initials: AL

Sample Receipt Checklist

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

Nonconformance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature 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