

Analytical Report 430810 & 430844	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-00.5	Release Area	10/28/2011	Comp/Auger	6" (3.5' BSL)	0.11	ND	219	219	366
Comp-01.0	Release Area	10/28/2011	Comp/Auger	12" (4.0' BSL)	ND	ND	ND	ND	656
Comp-01.5	Release Area	10/28/2011	Comp/Auger	18" (4.5' BSL)	ND	ND	ND	ND	993
Analytical Report 432579	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-02.0	Release Area	11/29/2011	Comp/Auger	2' (5' BSL)					431
Comp-03.0	Release Area	11/29/2011	Comp/Auger	3' (6' BSL)					205
Comp-04.0	Release Area	11/29/2011	Comp/Auger	4' (7' BSL)					ND

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 184', per Trend Map).

All results are ppm.Chlorides for documentation. **X - Sample Points**

Released: 4 B/O & 6 B/PW; Recovered: 0 B/O & 0 B/PW. Release Date: 10/6/2011



Creek AL Federal #12

30-015-27775

Section 25, T18S-R30E

Eddy County, NM

SAMPLE DIAGRAM(Not to Scale)

**Prepared by Robert Asher
Environmental Regulatory Agent**

Analytical Report 432579
for
Yates Petroleum Corporation

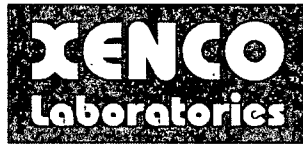
Project Manager: Robert Asher

Creek AL Federal # 12

30-015-27775

07-DEC-11

Collected By: Client



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Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
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Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

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

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

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

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

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

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



07-DEC-11

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

Reference: XENCO Report No: **432579**
Creek AL Federal # 12
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 432579. 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. 432579 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 432579



Yates Petroleum Corporation, Artesia, NM

Creek AL Federal # 12

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-02.0	S	11-29-11 14:36	24 - 24 In	432579-001
Comp-03.0	S	11-29-11 14:49	36 - 36 In	432579-002
Comp-04.0	S	11-29-11 15:02	48 - 48 In	432579-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Creek AL Federal # 12



Project ID: 30-015-27775

Work Order Number: 432579

Report Date: 07-DEC-11

Date Received: 12/02/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 432579

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-27775

Contact: Robert Asher

Project Location: Eddy County

Project Name: Creek AL Federal # 12

Date Received in Lab: Fri Dec-02-11 12:10 pm

Report Date: 07-DEC-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	432579-001	432579-002	432579-003			
	Field Id:	Comp-02.0	Comp-03.0	Comp-04.0			
	Depth:	24-24 In	36-36 In	48-48 In			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Nov-29-11 14:36	Nov-29-11 14:49	Nov-29-11 15:02			
Anions by E300	Extracted:						
	Analyzed:	Dec-06-11 10:53	Dec-06-11 10:53	Dec-06-11 10:53			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		431 8 59	205 8 56	ND 8 57			
Percent Moisture	Extracted:						
	Analyzed:	Dec-02-11 15:25	Dec-02-11 15:25	Dec-02-11 16:05			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		2.16 1.00	1.92 1.00	2.00 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 affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
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- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
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BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

^ NELAC or State program does not offer Accreditation at this time.

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 12600 West I-20 East, Odessa, TX 79765
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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	


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:

12-2-11 12:10

Lab ID #:

432579

Initials:

AE

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)?	<u>Yes</u>	No	<u>N/A</u>	
17. VOC sample have zero head space?	<u>Yes</u>	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 2.0 °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 430810

for Yates Petroleum Corporation

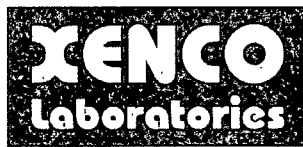
Project Manager: Robert Asher

Creek AL Federal # 12

30-015-27775

21-NOV-11

Collected By: Client



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Xenco-Houston (EPA Lab code: TX00122):

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Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
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Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

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

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



21-NOV-11

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

Reference: XENCO Report No: **430810**
Creek AL Federal # 12
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 430810. 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.

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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 430810



Yates Petroleum Corporation, Artesia, NM

Creek AL Federal # 12

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	10-28-11 14:13	6 - 6 In	430810-001
Comp-01.0	S	10-28-11 14:24	12 - 12 In	430810-002
Comp-01.5	S	10-28-11 14:36	18 - 18 In	430810-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Creek AL Federal # 12



Project ID: 30-015-27775

Work Order Number: 430810

Report Date: 21-NOV-11

Date Received: 11/03/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-874014 BTEX by EPA 8021B

SW8021BM

Batch 874014, Ethylbenzene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene, Toluene recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 430810-003, -002, -001.

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

SW8021BM

Batch 874014, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis

Samples affected are: 430810-001.



Certificate of Analysis Summary 430810

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-27775

Contact: Robert Asher

Project Location: Eddy County

Project Name: Creek AL Federal # 12

Date Received in Lab: Thu Nov-03-11 10:35 am

Report Date: 21-NOV-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	430810-001	430810-002	430810-003			
	Field Id:	Comp-00.5	Comp-01.0	Comp-01.5			
	Depth:	6-6 In	12-12 In	18-18 In			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Oct-28-11 14:13	Oct-28-11 14:24	Oct-28-11 14:36			
BTEX by EPA 8021B	Extracted:	Nov-03-11 14:00	Nov-03-11 14:00	Nov-03-11 14:00			
	Analyzed:	Nov-03-11 22:54	Nov-03-11 20:15	Nov-03-11 20:38			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		ND 0.00105	ND 0.00104	ND 0.00102			
Toluene		0.00628 0.00210	ND 0.00207	ND 0.00204			
Ethylbenzene		0.0133 0.00105	ND 0.00104	ND 0.00102			
m_p-Xylenes		0.0515 0.00210	ND 0.00207	ND 0.00204			
o-Xylene		0.0391 0.00105	ND 0.00104	ND 0.00102			
Total Xylenes		0.0906 0.00105	ND 0.00104	ND 0.00102			
Total BTEX		0.110 0.00105	ND 0.00104	ND 0.00102			
Percent Moisture	Extracted:	Nov-03-11 14:30	Nov-03-11 14:30	Nov-04-11 10:40			
	Analyzed:						
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		5.56 1.00	3.59 1.00	3.01 1.00			
TPH By SW8015B Mod	Extracted:	Nov-07-11 14:15	Nov-07-11 14:15	Nov-07-11 14:15			
	Analyzed:	Nov-07-11 23:47	Nov-08-11 00:19	Nov-08-11 00:52			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C10 Gasoline Range Hydrocarbons		ND 15.8	ND 15.6	ND 15.4			
C10-C28 Diesel Range Hydrocarbons		219 15.8	ND 15.6	ND 15.4			
Total TPH		219 15.8	ND 15.6	ND 15.4			

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Brent Barron II
Odessa Laboratory Manager



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(602) 437-0330	

Environmental Lab of Texas

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Robert Asher

Project Name: Creek AL Federal #12

Company Name: Yates Petroleum Corporation

Project #: 30-015-27775

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 105632

Telephone No: 575-748-4217

Fax No: 575-748-4662

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: 

e-mail: boba@yatespetroleum.com

(lab use only)

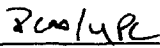


ORDER #: 430810/430844/430845

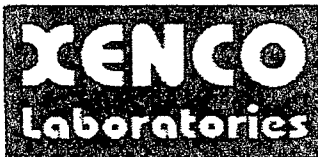
LAB # (lab use only)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Special Instructions: TPH 8015M, BTEX 8021B, TPH 418.1 & Chlorides. ALL results in mg/kg. Thank you.

Laboratory Comments:

Sample Containers Intact? ☒ N
VOCs Free of Headspace? ☒ N
Labels on container(s) ☒ N
Custody seals on container(s) ☒ N
Custody seals on cooler(s) ☒ N
Sample Hand Delivered ☒ N
by Sampler/Client Rep. ? ☒ N
by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star
Temperature Upon Receipt 4.5 °C

Relinquished by:	Date	Time	Received by:	Date	Time
Robert Asher 	11/02/11	2 38 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: 	Date	Time	Received by: 	11-3-11	10:35

**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: 11-3-11 10:35
Lab ID #: 430810 / 430844 / 430845
Initials: WR

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 <u>4.5</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 430844

for Yates Petroleum Corporation

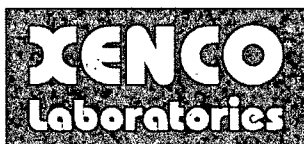
Project Manager: Robert Asher

Creek AL Federal # 12

30-015-27775

21-NOV-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

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

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

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

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

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

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



21-NOV-11

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

Reference: XENCO Report No: **430844**
Creek AL Federal # 12
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 430844. 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. 430844 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 430844



Yates Petroleum Corporation, Artesia, NM

Creek AL Federal # 12

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	10-28-11 14:13	6 - 6 In	430844-001
Comp-01.0	S	10-28-11 14:24	12 - 12 In	430844-002
Comp-01.5	S	10-28-11 14:36	18 - 18 In	430844-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Creek AL Federal # 12



Project ID: 30-015-27775

Work Order Number: 430844

Report Date: 21-NOV-11

Date Received: 11/03/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 430844

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-27775

Contact: Robert Asher

Project Location: Eddy County

Project Name: Creek AL Federal # 12

Date Received in Lab: Thu Nov-03-11 10:35 am

Report Date: 21-NOV-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	430844-001	430844-002	430844-003			
	Field Id:	Comp-00.5	Comp-01.0	Comp-01.5			
	Depth:	6-6 In	12-12 In	18-18 In			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Oct-28-11 14:13	Oct-28-11 14:24	Oct-28-11 14:36			
Anions by E300	Extracted:						
	Analyzed:	Nov-07-11 12:16	Nov-08-11 11:19	Nov-08-11 11:19			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		366 8.89	656 8.71	993 17.3			
Percent Moisture	Extracted:						
	Analyzed:	Nov-03-11 14:30	Nov-03-11 14:30	Nov-04-11 10:40			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		5.56 1.00	3.59 1.00	3.01 1.00			

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

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

Brent Barron II
Odessa Laboratory Manager



Flagging Criteria

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

* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

^ NELAC or State program does not offer Accreditation at this time.

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 2505 North Falkenburg Rd, Tampa, FL 33619
 5757 NW 158th St, Miami Lakes, FL 33014
 12600 West I-20 East, Odessa, TX 79765
 6017 Financial Drive, Norcross, GA 30071
 3725 E. Atlanta Ave, Phoenix, AZ 85040

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Robert Asher

Project Name: Creek AL Federal #12

Company Name: Yates Petroleum Corporation

Project #: 30-015-27775

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 105632

Telephone No: 575-748-4217

Fax No: 575-748-4662

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: *[Signature]*

e-mail: boba@yatespetroleum.com

(lab use only)

ORDER #: 430810/430844/430845

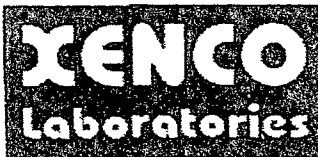
ORDER #: 430810/430844/460845												Preservation & # of Containers										Matrix															
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH 418.1	8015M	8015B	TPH TX 1005	TX 1006	Cations (Ca Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N O R M	Chlorides			RUSH TAT (Pre-Schedule) 24, 48,	Standard TAT
01	Comp-00.5	6"	6"	10/28/2011	2:13 PM			X								S			X											X						X	
02	Comp-01.0	12"	12"	10/28/2011	2:24 PM			X								S			X											X						X	
03	Comp-01.5	18"	18"	10/28/2011	2:36 PM			X								S			X											X						X	
	PLEASE PUT TPH 418.1																																				
	ON SEPARATE REPORT																																				
	PLEASE PUT CHLORIDES																																				
	ON SEPARATE REPORT																																				

Special Instructions: TPH 8015M, BTEX 8021B, TPH 418.1 & Chlorides. ALL results in mg/kg. Thank you.

Relinquished by:	Date	Time	Received by:	Date	Time
Robert Asher <i>[Signature]</i>	11/02/11	2:38 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: <i>[Signature]</i>	Date	Time	Received by: <i>[Signature]</i>	Date	Time
				11-3-11	10:35

Laboratory Comments:

Sample Containers Intact? *[Initials]* N
VOCs Free of Headspace? *[Initials]* N
Labels on container(s)? *[Initials]* N
Custody seals on container(s)? *[Initials]* N
Custody seals on cooler(s)? *[Initials]* N
Sample Hand Delivered *[Initials]* N
by Sampler/Client Rep? *[Initials]* N
by Courier? *[Initials]* N
UPS *[Initials]* N
DHL *[Initials]* N
FedEx *[Initials]* N
Lone Star *[Initials]* N
Temperature Upon Receipt *4.5* °C

**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: Xites Petroleum
Date/Time: 11-3-11 10:35
Lab ID #: 430810 / 430844 / 430845
Initials: WR

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 <u>4.5</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