

Two Track Road

Buried Pipeline

Analytical Report 426011 & 426013	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-01.0	Release Area	8/16/2011	Comp/Auger	1'	ND	ND	ND	ND	2080
Comp-02.0	Release Area	8/16/2011	Comp/Auger	2'	ND	ND	ND	ND	2820
Analytical Report 429606	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-03.0	Release Area	10/11/2011	Comp/Backhoe	3'					9120
Comp-04.0	Release Area	10/11/2011	Comp/Backhoe	4'					5530
Analytical Report 431735	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-05.0	Release Area	11/16/2011	Comp/Backhoe	5'					4330
Comp-06.0	Release Area	11/16/2011	Comp/Backhoe	6'					465
Comp-07.0	Release Area	11/16/2011	Comp/Backhoe	7'					500
Comp-08.0	Release Area	11/16/2011	Comp/Backhoe	8'					334

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 70', per Trend Map).

All results are ppm. X - Sample Points

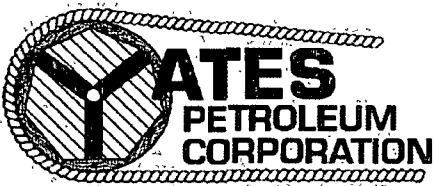


Stockpiled (used for backfill)



Excavated/Hauled

Released: 100 B/PW; Recovered: 90 B/PW. Release Date: 6/9/2011



Perdomo BMP State Com.#1

30-015-36499

Section 24, T24S-R27E

Eddy County, NM

SAMPLE DIAGRAM(Not to Scale)

**Prepared by Robert Asher
Environmental Regulatory Agent**

Analytical Report 426011
for
Yates Petroleum Corporation

Project Manager: Robert Asher

Perdomo BMP State Com. # 1-H

30-015-36499

23-AUG-11

Collected By: Client



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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)
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Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
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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)



23-AUG-11

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

Reference: XENCO Report No: **426011**
Perdomo BMP State Com. # 1-H
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 426011. 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. 426011 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 426011



Yates Petroleum Corporation, Artesia, NM

Perdomo BMP State Com. # 1-H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01.0	S	08-16-11 11:08	12 - 12 In	426011-001
Comp-02.0	S	08-16-11 11:34	24 - 24 In	426011-002



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Perdomo BMP State Com. # 1-H



Project ID: 30-015-36499

Work Order Number: 426011

Report Date: 23-AUG-11

Date Received: 08/18/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

*Batch: LBA-868089 TPH By SW8015B Mod
SW8015B_NM*

*Batch 868089, 1-Chlorooctane recovered above QC limits . Matrix interferences is suspected;
data confirmed by re-analysis*

Samples affected are: 426011-002.



Certificate of Analysis Summary 426011

Yates Petroleum Corporation, Artesia, NM

Project Name: Perdomo BMP State Com. # 1-H



Project Id: 30-015-36499

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Aug-18-11 09:20 am


Report Date: 23-AUG-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	426011-001	426011-002				
	Field Id:	Comp-01.0	Comp-02.0				
	Depth:	12-12 In	24-24 In				
	Matrix:	SOIL	SOIL				
	Sampled:	Aug-16-11 11:08	Aug-16-11 11:34				
BTEX by EPA 8021B	Extracted:	Aug-23-11 11:00	Aug-23-11 11:00				
	Analyzed:	Aug-23-11 13:36	Aug-23-11 13:59				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		ND 0.00110	ND 0.00114				
Toluene		ND 0.00220	ND 0.00228				
Ethylbenzene		ND 0.00110	ND 0.00114				
m_p-Xylenes		ND 0.00220	ND 0.00228				
o-Xylene		ND 0.00110	ND 0.00114				
Total Xylenes		ND 0.00110	ND 0.00114				
Total BTEX		ND 0.00110	ND 0.00114				
Percent Moisture	Extracted:						
	Analyzed:	Aug-18-11 15:45	Aug-18-11 15:45				
	Units/RL:	% RL	% RL				
Percent Moisture		9.55 1.00	12.3 1.00				
TPH By SW8015B Mod	Extracted:	Aug-23-11 08:15	Aug-23-11 08:15				
	Analyzed:	Aug-23-11 11:29	Aug-23-11 11:58				
	Units/RL:	mg/kg RL	mg/kg RL				
C6-C10 Gasoline Range Hydrocarbons		ND 16.6	ND 17.1				
C10-C28 Diesel Range Hydrocarbons		ND 16.6	ND 17.1				
Total TPH		ND 16.6	ND 17.1				

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 affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- MDL** Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection
- PQL** Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation
- DL** Method Detection Limit
- NC** Non-Calculable
- + Outside XENCO's scope of NELAC Accreditation.

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(770) 449-8800	(770) 449-5477
(602) 437-0330	

A Xenco Laboratories Company

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

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

Project Manager: Robert Asher

Project Name: Perdono BMP State Com. #1-H

Company Name Yates Petroleum Corporation

Project #: 30-015-36499

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 105632

Telephone No: 575-748-4217

Fax No: 575-748-4662

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: boba@yatespetroleum.com

[illegible]

**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:

8.18.11 9.20

Lab ID #:

426011 / 426013

Initials:

AQ

Sample Receipt Checklist

1. Samples on ice?	Blue	Watch	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 2.6 °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 426013

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Perdomo BMP State Com. # 1-H

30-015-36499

23-AUG-11

Collected By: Client



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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)



23-AUG-11

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

Reference: XENCO Report No: **426013**
Perdomo BMP State Com. # 1-H
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 426013. 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. 426013 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 426013



Yates Petroleum Corporation, Artesia, NM

Perdomo BMP State Com. # 1-H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01.0	S	08-16-11 11:08	12 - 12 In	426013-001
Comp-02.0	S	08-16-11 11:34	24 - 24 In	426013-002



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Perdomo BMP State Com. # 1-H



Project ID: 30-015-36499

Work Order Number: 426013

Report Date: 23-AUG-11

Date Received: 08/18/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 426013

Yates Petroleum Corporation, Artesia, NM

Project Name: Perdomo BMP State Com. # 1-H



Project Id: 30-015-36499

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Aug-18-11 09:20 am


Report Date: 23-AUG-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	426013-001	426013-002				
	Field Id:	Comp-01.0	Comp-02.0				
	Depth:	12-12 In	24-24 In				
	Matrix:	SOIL	SOIL				
	Sampled:	Aug-16-11 11:08	Aug-16-11 11:34				
Anions by E300	Extracted:						
	Analyzed:	Aug-21-11 13:40	Aug-21-11 13:40				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		2080 46.4	2820 47.9				
Percent Moisture	Extracted:						
	Analyzed:	Aug-18-11 15:45	Aug-18-11 15:45				
	Units/RL:	% RL	% RL				
Percent Moisture		9.55 1.00	12.3 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.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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6017 Financial Drive, Norcross, GA 30071
3725 E Atlanta Ave, Phoenix, AZ 85040

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(305) 823-8500	(305) 823-8555
(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:

8.18.11 9.20

Lab ID #:

426011 / 426013

Initials:

AG**Sample Receipt Checklist**

1. Samples on ice?	Blue	Water	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>2.6</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 429609

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Perdomo BMP State Com. #1-H

30-015-36499

20-OCT-11

Collected By: Client



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

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

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



20-OCT-11

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

Reference: XENCO Report No: **429609**
Perdomo BMP State Com. #1-H
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 429609. 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. 429609 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 429609



Yates Petroleum Corporation, Artesia, NM

Perdomo BMP State Com. #1-H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-03.0	S	10-11-11 11:08	3 - 3 ft	429609-001
Comp-04.0	S	10-11-11 11:20	4 - 4 ft	429609-002



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Perdomo BMP State Com. #1-H



Project ID: 30-015-36499

Work Order Number: 429609

Report Date: 20-OCT-11

Date Received: 10/14/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-872513 Percent Moisture

The RPD between the Sample and Sample Duplicate is outside of the QC limits. This is most likely due to sample non-homogeneity.



Certificate of Analysis Summary 429609

Yates Petroleum Corporation, Artesia, NM

Project Name: Perdomo BMP State Com. #1-H



Project Id: 30-015-36499

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Fri Oct-14-11 01:54 pm

Report Date: 20-OCT-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	429609-001	429609-002				
	Field Id:	Comp-03 0	Comp-04.0				
	Depth:	3-3 ft	4-4 ft				
	Matrix:	SOLID	SOLID				
	Sampled:	Oct-11-11 11:08	Oct-11-11 11:20				
Anions by E300	Extracted:						
	Analyzed:	Oct-17-11 18:01	Oct-17-11 18:01				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		9120 91.3	5530 46.7				
Percent Moisture	Extracted:						
	Analyzed:	Oct-18-11 10:00	Oct-17-11 14:00				
	Units/RL:	% RL	% RL				
Percent Moisture		7.97 1.00	10.1 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 affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- MDL** Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection
- PQL** Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation
- DL** Method Detection Limit
- NC** Non-Calculable
- + Outside XENCO's scope of NELAC Accreditation.

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 12600 West I-20 East, Odessa, TX 79765
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(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	

A Xenco Laboratories Company

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

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

e-mail: boba@yatespetroleum.com

Special Instructions:						Chlorides Only. ALL results in mg/kg. Thank you.					
Relinquished by:		Date	Time	Received by:		Date	Time	Laboratory Comments:			
Robert Asher		10/13/11	11:31 AM	<i>[Signature]</i>		10/13/11	(13:11)	Sample Containers Intact? <input checked="" type="checkbox"/> N			
Relinquished by:		Date	Time	Received by:		Date	Time	VOCs Free of Headspace? <input checked="" type="checkbox"/> N			
								Labels on container(s) <input checked="" type="checkbox"/> N			
								Custody seals on container(s) <input checked="" type="checkbox"/> N			
								Custody seals on cooler(s) <input checked="" type="checkbox"/> N			
Relinquished by:		Date	Time	Received by:		Date	Time	Sample Hand Delivered <input checked="" type="checkbox"/> N			
								by Sampler/Client Rep. ? <input checked="" type="checkbox"/> N			
								by Courier? UPS DHL FedEx Lone Star			
Relinquished by:		Date	Time	Received by:		Date	Time	Temperature Upon Receipt: 18 °C			
<i>[Signature]</i>		10/14/11	10:00	<i>[Signature]</i>		10/14/11	13:54				



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

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

Prelogin / Nonconformance Report - Sample Log-In

Client: Vates
Date/Time: 10/14/11 13:54
Lab ID #: 429609
Initials: HH

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	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 18 °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 431735

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Perdomo BMP State Com.#1-H

30-015-36499

22-NOV-11

Collected By: Client



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Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (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)



22-NOV-11

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

Reference: XENCO Report No: **431735**
Perdomo BMP State Com.#1-H
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 431735. 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. 431735 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 431735



Yates Petroleum Corporation, Artesia, NM

Perdomo BMP State Com.#1-H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-05.0	S	11-16-11 10:55	5 - 5 ft	431735-001
Comp-06.0	S	11-16-11 11:00	6 - 6 ft	431735-002
Comp-07.0	S	11-16-11 11:05	7 - 7 ft	431735-003
Comp-08.0	S	11-16-11 11:10	8 - 8 ft	431735-004



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Perdomo BMP State Com.#1-H



Project ID: 30-015-36499

Work Order Number: 431735

Report Date: 22-NOV-11

Date Received: 11/17/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 431735

Yates Petroleum Corporation, Artesia, NM

Project Name: Perdomo BMP State Com.#1-H



Project Id: 30-015-36499

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Nov-17-11 11:30 am

Report Date: 22-NOV-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	431735-001	431735-002	431735-003	431735-004		
	Field Id:	Comp-05.0	Comp-06.0	Comp-07.0	Comp-08.0		
	Depth:	5-5 ft	6-6 ft	7-7 ft	8-8 ft		
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	Nov-16-11 10:55	Nov-16-11 11:00	Nov-16-11 11:05	Nov-16-11 11:10		
Anions by E300	Extracted:						
	Analyzed:	Nov-21-11 11:53	Nov-21-11 11:53	Nov-21-11 11:53	Nov-21-11 11:53		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		4330 47.8	462 9.33	500 9.35	334 9.25		
Percent Moisture	Extracted:						
	Analyzed:	Nov-17-11 12:43	Nov-17-11 12:43	Nov-17-11 12:43	Nov-17-11 12:43		
	Units/RL:	% RL	% RL	% RL	% RL		
Percent Moisture		12.2 1.00	10.0 1.00	10.2 1.00	9.16 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.
- 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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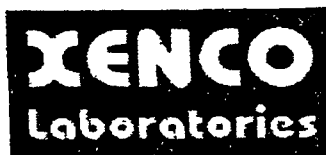
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(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



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 Petroleum
Date/Time: 11-17-11 11:30
Lab ID #: 431735
Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	<u>No</u>	
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?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>9.0</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