

Analytical Report- 425878 & 425879	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-01.0 B	Release Area	8/12/2011	Comp/Auger	12" (24" BSL)	ND	ND	ND	ND	6010
Comp-02.0 B	Release Area	8/12/2011	Comp/Auger	24" (36" BSL)	ND	ND	ND	ND	3440
Comp-01.0 ES	Release Area	8/12/2011	Comp/Auger	12" (24" BSL)	ND	ND	ND	ND	11500
Comp-02.0 ES	Release Area	8/12/2011	Comp/Auger	24" (36" BSL)	ND	ND	ND	ND	14800
Analytical Report- 429611	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-03.0 B	Release Area	10/11/2011	Comp/Backhoe	3' (4'BSL)					96.4
Comp-04.0 B	Release Area	10/11/2011	Comp/Backhoe	4' (5' BSL)					317
Comp-05.0 B	Release Area	10/11/2011	Comp/Backhoe	5' (6' BSL)					21.9
Comp-03.0 ES	Release Area	10/11/2011	Comp/Backhoe	3' (4' BSL)					10500
Comp-04.0 ES	Release Area	10/11/2011	Comp/Backhoe	4' (5' BSL)					11700
Comp-05.0 ES	Release Area	10/11/2011	Comp/Backhoe	5' (6' BSL)					9230
Analytical Report- 431732	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-06.0 ES	Release Area	11/16/2011	Comp/Backhoe	6' (7' BSL)					8970
Comp-07.0 ES	Release Area	11/16/2011	Comp/Backhoe	7' (8' BSL)					4610
Comp-08.0 ES	Release Area	11/16/2011	Comp/Backhoe	8' (9' BSL)					5650
Comp-09.0 ES	Release Area	11/16/2011	Comp/Backhoe	9' (10' BSL)					2320
Analytical Report- 433948	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-10.0 ES	Release Area	12/20/2011	Comp/Backhoe	10' (11' BSL)					6300
Comp-11.0 ES	Release Area	12/20/2011	Comp/Backhoe	11' (12' BSL)					936

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

All results are ppm. BLS - Below Surface Level

Released: 80 B/PW; Recovered: 0 B/PW. Release Date: 6/2/2011



Impacted soils excavated.

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 JUN 27 2012  
**NMOC D ARTESIA**

# Analytical Report 425878

for

## Yates Petroleum Corporation

**Project Manager: Robert Asher**

**Humidor BMJ State Com. #1**

**30-015-32889**

**23-AUG-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)



23-AUG-11

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

Reference: XENCO Report No: **425878**  
**Humidor BMJ State 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 425878. 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. 425878 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 425878**

**Yates Petroleum Corporation, Artesia, NM**

Humidor BMJ State Com. #1

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp-01.0 B	S	08-12-11 10:27	12 - 12 In	425878-001
Comp-02.0 B	S	08-12-11 10:48	24 - 24 In	425878-002
Comp-01.0 ES	S	08-12-11 11:08	12 - 12 In	425878-003
Comp-02.0 ES	S	08-12-11 11:26	24 - 24 In	425878-004



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Humidor BMJ State Com. #1*

*Project ID: 30-015-32889*

*Work Order Number: 425878*

*Report Date: 23-AUG-11*

*Date Received: 08/17/2011*

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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 nonformances and comments:**

*Batch: LBA-867618 BTEX by EPA 8021B*

*SW8021BM*

*Batch 867618, Toluene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Ethylbenzene, m\_p-Xylenes recovered below QC limits in the Matrix Spike Duplicate.*

*Samples affected are: 425878-003, -001, -004, -002.*

*The Laboratory Control Sample for Toluene, o-Xylene, Ethylbenzene, m\_p-Xylenes is within laboratory Control Limits*

*Batch: LBA-867727 TPH By SW8015B Mod*

*SW8015B\_NM*

*Batch 867727, C10-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix Spike.*

*Samples affected are: 425878-003, -001, -004, -002.*

*The Laboratory Control Sample for C10-C28 Diesel Range Hydrocarbons is within laboratory Control Limits*

*SW8015B\_NM*

*Batch 867727, 1-Chlorooctane recovered above QC limits Data not confirmed by re-analysis.*

*Samples affected are: 610130-1-BKS,610130-1-BLK,610130-1-BSD,425870-001 SD.*



# Certificate of Analysis Summary 425878

Yates Petroleum Corporation, Artesia, NM

Project Name: Humidor BMJ State Com. #1



Project Id: 30-015-32889

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Wed Aug-17-11 10:00 am

Report Date: 23-AUG-11

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	425878-001	425878-002	425878-003	425878-004		
	<i>Field Id:</i>	Comp-01.0 B	Comp-02.0 B	Comp-01.0 ES	Comp-02.0 ES		
	<i>Depth:</i>	12-12 In	24-24 In	12-12 In	24-24 In		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Aug-12-11 10:27	Aug-12-11 10:48	Aug-12-11 11:08	Aug-12-11 11:26		
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	Aug-17-11 16:15	Aug-17-11 16:15	Aug-17-11 16:15	Aug-17-11 16:15		
	<i>Analyzed:</i>	Aug-17-11 21:10	Aug-17-11 21:33	Aug-17-11 21:57	Aug-17-11 22:19		
	<i>Units/RL:</i>	mg/kg    RL	mg/kg    RL	mg/kg    RL	mg/kg    RL		
Benzene		ND 0.00109	ND 0.00112	ND 0.00111	ND 0.00114		
Toluene		ND 0.00219	ND 0.00224	ND 0.00222	ND 0.00228		
Ethylbenzene		ND 0.00109	ND 0.00112	ND 0.00111	ND 0.00114		
m_p-Xylenes		ND 0.00219	ND 0.00224	ND 0.00222	ND 0.00228		
o-Xylene		ND 0.00109	ND 0.00112	ND 0.00111	ND 0.00114		
Total Xylenes		ND 0.00109	ND 0.00112	ND 0.00111	ND 0.00114		
Total BTEX		ND 0.00109	ND 0.00112	ND 0.00111	ND 0.00114		
<b>Percent Moisture</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-17-11 14:30	Aug-17-11 14:30	Aug-17-11 14:30	Aug-17-11 14:30		
	<i>Units/RL:</i>	%        RL	%        RL	%        RL	%        RL		
Percent Moisture		8.41    1.00	10.0    1.00	10.3    1.00	11.9    1.00		
<b>TPH By SW8015B Mod</b>	<i>Extracted:</i>	Aug-17-11 16:00	Aug-17-11 16:00	Aug-17-11 16:00	Aug-17-11 16:00		
	<i>Analyzed:</i>	Aug-18-11 09:46	Aug-18-11 10:14	Aug-18-11 10:41	Aug-18-11 11:10		
	<i>Units/RL:</i>	mg/kg    RL	mg/kg    RL	mg/kg    RL	mg/kg    RL		
C6-C10 Gasoline Range Hydrocarbons		ND 16.5	ND 16.7	ND 16.7	ND 17.1		
C10-C28 Diesel Range Hydrocarbons		ND 16.5	ND 16.7	ND 16.7	ND 17.1		
Total TPH		ND 16.5	ND 16.7	ND 16.7	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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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
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E Atlanta Ave, Phoenix, AZ 85040	(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  
 Date/Time: 8-17-11 10:00  
 Lab ID #: 425878 / 425879  
 Initials: AM

**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)?	<del>Yes</del>	<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 4.1 °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 425879

for  
**Yates Petroleum Corporation**

**Project Manager: Robert Asher**

**Humidor BMJ State Com. #1**

**30-015-32889**

**23-AUG-11**

Collected By: Client



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

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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)

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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)

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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)



23-AUG-11

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

Reference: XENCO Report No: **425879**  
**Humidor BMJ State 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 425879. 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 425879**



**Yates Petroleum Corporation, Artesia, NM**  
Humidor BMJ State Com. #1

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp-01.0 B	S	08-12-11 10:27	12 - 12 In	425879-001
Comp-02.0 B	S	08-12-11 10:48	24 - 24 In	425879-002
Comp-01.0 ES	S	08-12-11 11:08	12 - 12 In	425879-003
Comp-02.0 ES	S	08-12-11 11:26	24 - 24 In	425879-004



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Humidor BMJ State Com. #1*



*Project ID: 30-015-32889*

*Work Order Number: 425879*

*Report Date: 23-AUG-11*

*Date Received: 08/17/2011*

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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-867919 Anions by E300

E300MI

Batch 867919, Chloride recovered above QC limits in the Matrix Spike.

Samples affected are: 425879-002, -004, -003, -001.

The Laboratory Control Sample for Chloride is within laboratory Control Limits



# Certificate of Analysis Summary 425879

Yates Petroleum Corporation, Artesia, NM

Project Name: Humidor BMJ State Com. #1



Project Id: 30-015-32889

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Wed Aug-17-11 10:00 am

Report Date: 23-AUG-11

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	425879-001	425879-002	425879-003	425879-004		
	<i>Field Id:</i>	Comp-01 0 B	Comp-02.0 B	Comp-01 0 ES	Comp-02 0 ES		
	<i>Depth:</i>	12-12 In	24-24 In	12-12 In	24-24 In		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Aug-12-11 10:27	Aug-12-11 10:48	Aug-12-11 11:08	Aug-12-11 11:26		
	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-20-11 11:00	Aug-20-11 11:00	Aug-20-11 11:00	Aug-20-11 11:00		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
<b>Anions by E300</b>							
Chloride		6010 91.7	3440 46.7	11500 117	14800 238		
	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-17-11 14:30	Aug-17-11 14:30	Aug-17-11 14:30	Aug-17-11 14:40		
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL		
<b>Percent Moisture</b>							
Percent Moisture		8.41 1.00	10.0 1.00	10.3 1.00	11.9 1.00		

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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.
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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.

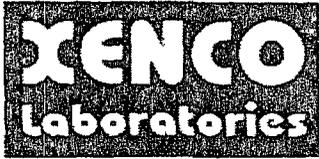
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2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
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Document Title: Sample Receipt Checklist  
 Document No.: SYS-SRC  
 Revision/Date: No. 01, 5/27/2010  
 Effective Date: 6/1/2010 Page 1 of 1

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

Client: Yates  
 Date/Time: 8-17-11 10:00  
 Lab ID #: 425878 / 425879  
 Initials: AM

**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>	<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>4.1</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 429611

## for Yates Petroleum Corporation

**Project Manager: Robert Asher**

**Humidor BMJ State Com.#1**

**30-015-32889**

**21-OCT-11**

Collected By: Client



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

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

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

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



**Sample Cross Reference 429611**

**Yates Petroleum Corporation, Artesia, NM**

Humidor BMJ State Com.#1

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp-03.0 B	S	10-11-11 10:00	3 - 3 ft	429611-001
Comp-04.0 B	S	10-11-11 10:02	4 - 4 ft	429611-002
Comp-05.0 B	S	10-11-11 10:05	5 - 5 ft	429611-003
Comp-03.0 ES	S	10-11-11 10:25	3 - 3 ft	429611-004
Comp-04.0 ES	S	10-11-11 10:30	4 - 4 ft	429611-005
Comp-05.0 ES	S	10-11-11 10:40	5 - 5 ft	429611-006



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Humidor BMJ State Com.#1*

*Project ID: 30-015-32889*

*Work Order Number: 429611*

*Report Date: 21-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 conformances 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 429611

Yates Petroleum Corporation, Artesia, NM

Project Name: Humidor BMJ State Com.#1



Project Id: 30-015-32889

Contact: Robert Asher

Project Location: Eddy County

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

Report Date: 21-OCT-11

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	429611-001	429611-002	429611-003	429611-004	429611-005	429611-006
	<i>Field Id:</i>	Comp-03.0 B	Comp-04.0 B	Comp-05.0 B	Comp-03.0 ES	Comp-04.0 ES	Comp-05.0 ES
	<i>Depth:</i>	3-3 ft	4-4 ft	5-5 ft	3-3 ft	4-4 ft	5-5 ft
	<i>Matrix:</i>	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
	<i>Sampled:</i>	Oct-11-11 10:00	Oct-11-11 10:02	Oct-11-11 10:05	Oct-11-11 10:25	Oct-11-11 10:30	Oct-11-11 10:40
<b>Anions by E300</b>	<i>Extracted:</i>	Oct-20-11 00:32					
	<i>Analyzed:</i>	Oct-20-11 00:32					
	<i>Units/RL:</i>	mg/kg    RL					
Chloride		96.4    4.76	317    9.46	21.9    4.83	10500    189	11700    189	9230    176
<b>Percent Moisture</b>	<i>Extracted:</i>	Oct-17-11 14:00					
	<i>Analyzed:</i>	Oct-17-11 14:00					
	<i>Units/RL:</i>	%        RL					
Percent Moisture		11.8    1.00	11.2    1.00	13.0    1.00	11.1    1.00	11.1    1.00	4.52    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 user 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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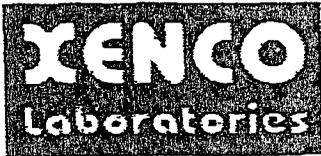
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	(602) 437-0330	





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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

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

Client: Vates  
 Date/Time: 10/14/11 13:54  
 Lab ID #: 429611  
 Initials: AH

**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 431732

## for Yates Petroleum Corporation

**Project Manager: Robert Asher**

**Humidor BMJ State Com.#1**

**30-015-32889**

**22-NOV-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)  
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)

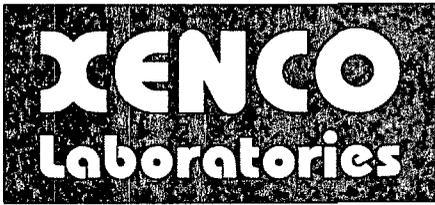
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

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)



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22-NOV-11

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

Reference: XENCO Report No: **431732**  
**Humidor BMJ State 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 431732. 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. 431732 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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*Certified and approved by numerous States and Agencies.*

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**Sample Cross Reference 431732**

**Yates Petroleum Corporation, Artesia, NM**

Humidor BMJ State Com.#1

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp-06.0 ES	S	11-16-11 09:45	6 - 6 ft	431732-001
Comp-07.0 ES	S	11-16-11 09:50	7 - 7 ft	431732-002
Comp-08.0 ES	S	11-16-11 10:05	8 - 8 ft	431732-003
Comp-09.0 ES	S	11-16-11 10:10	9 - 9 ft	431732-004



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Humidor BMJ State Com.#1*

*Project ID: 30-015-32889*

*Report Date: 22-NOV-11*

*Work Order Number: 431732*

*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 431732

Yates Petroleum Corporation, Artesia, NM



Project Name: Humidor BMJ State Com.#1

Project Id: 30-015-32889

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Nov-17-11 11:58 am

Report Date: 22-NOV-11

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	431732-001	431732-002	431732-003	431732-004		
	<i>Field Id:</i>	Comp-06.0 ES	Comp-07.0 ES	Comp-08.0 ES	Comp-09.0 ES		
	<i>Depth:</i>	6-6 ft	7-7 ft	8-8 ft	9-9 ft		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Nov-16-11 09:45	Nov-16-11 09:50	Nov-16-11 10:05	Nov-16-11 10:10		
<b>Anions by E300</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-21-11 14:00	Nov-21-11 14:00	Nov-21-11 14:00	Nov-21-11 14:00		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		8970 187	4610 46.4	5650 47.2	2320 23.2		
<b>Percent Moisture</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-17-11 12:43	Nov-17-11 12:43	Nov-17-11 12:43	Nov-17-11 12:43		
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL		
Percent Moisture		10.4 1.00	9.45 1.00	11.0 1.00	9.57 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.

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

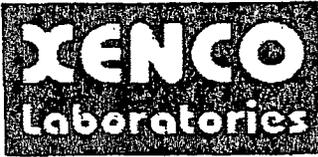
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Document Title: Sample Receipt Checklist  
 Document No.: SYS-SRC  
 Revision/Date: No. 01, 5/27/2010  
 Effective Date: 6/1/2010 Page 1 of 1

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

Client: Yates Petroleum  
 Date/Time: 11/17/11 11:30  
 Lab ID #: 431732  
 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 9.0 °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 433948

for  
**Yates Petroleum Corporation**

**Project Manager: Robert Asher**

**Humidor BMJ State Com. #1**

**30-015-32889**

**28-DEC-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):

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

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



28-DEC-11

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

Reference: XENCO Report No: **433948**  
**Humidor BMJ State 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 433948. 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. 433948 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 433948**

**Yates Petroleum Corporation, Artesia, NM**  
Humidor BMJ State Com. #1

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp-10.0 ES	S	12-20-11 10:15	10 - 10 ft	433948-001
Comp-11.0 ES	S	12-20-11 10:25	7 - 7 ft	433948-002



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Humidor BMJ State Com. #1*



*Project ID: 30-015-32889*

*Work Order Number: 433948*

*Report Date: 28-DEC-11*

*Date Received: 12/22/2011*

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analysis Summary 433948

Yates Petroleum Corporation, Artesia, NM

Project Name: Humidor BMJ State Com. #1



Project Id: 30-015-32889

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Dec-22-11 12:25 pm

Report Date: 28-DEC-11

Project Manager: Brent Barron II

<b>Analysis Requested</b>	<b>Lab Id:</b>	433948-001	433948-002				
	<b>Field Id:</b>	Comp-10.0 ES	Comp-11.0 ES				
	<b>Depth:</b>	10-10 ft	7-7 ft				
	<b>Matrix:</b>	SOIL	SOIL				
	<b>Sampled:</b>	Dec-20-11 10:15	Dec-20-11 10:25				
<b>Anions by E300</b>	<b>Extracted:</b>						
	<b>Analyzed:</b>	Dec-23-11 08:00	Dec-23-11 08:00				
	<b>Units/RL:</b>	mg/kg RL	mg/kg RL				
Chloride		6300 99.5	936 9.26				
<b>Percent Moisture</b>	<b>Extracted:</b>						
	<b>Analyzed:</b>	Dec-22-11 16:30	Dec-22-11 16:30				
	<b>Units/RL:</b>	% RL	% RL				
Percent Moisture		15.6 1.00	9.33 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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2505 North Falkenburg Rd, Tampa, FL 33619	(210) 509-3334	(210) 509-3335
5757 NW 158th St, Miami Lakes, FL 33014	(813) 620-2000	(813) 620-2033
12600 West I-20 East, Odessa, TX 79765	(305) 823-8500	(305) 823-8555
6017 Financial Drive, Norcross, GA 30071	(432) 563-1800	(432) 563-1713
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	(602) 437-0330	





**XENCO Laboratories**  
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 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: 12.22.11 12:25  
 Lab ID #: 433948  
 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>3.5</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