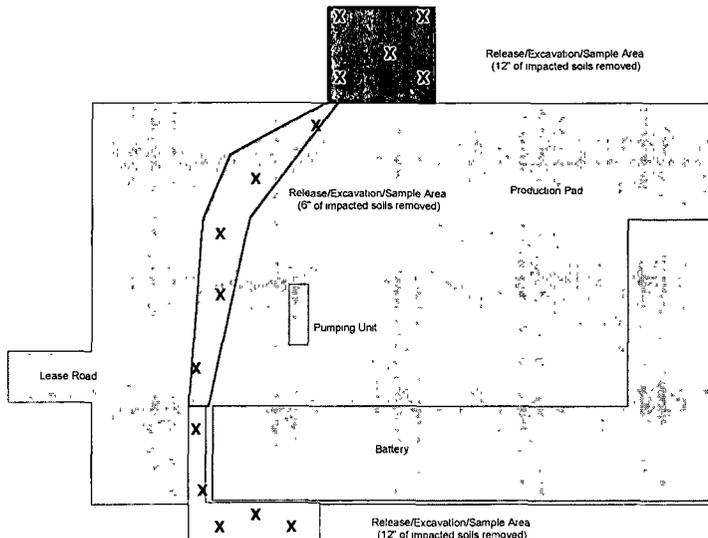


**RECEIVED**  
 AUG 13 2012  
 NMOCD ARTESIA



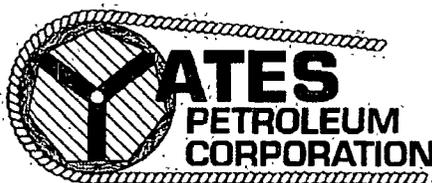
Analytical Report- 424087 & 424088	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
GS/Comp-00.5 W	Release Area	7/20/2011	Comp/Auger	6" (18" BSL)	ND	ND	324	324	6010
GS/Comp-01.0	Release Area	7/20/2011	Comp/Auger	12" (24" BSL)	ND	ND	216	216	5540
GS/Comp-00.5 P	Release Area	7/20/2011	Comp/Shovel	6" (12" BSL)	ND	ND	1310	1310	9840
GS/Comp-00.5 E	Release Area	7/20/2011	Comp/Auger	6" (18" BSL)	ND	ND	ND	ND	7190
GS/Comp-01.0 E	Release Area	7/20/2011	Comp/Auger	12" (24" BSL)	ND	ND	ND	ND	6530
Analytical Report- 429606	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
GS/Comp-02.0 W	Release Area	10/11/2011	Comp/Backhoe	24" (36" BSL)					3360
GS/Comp-03.0 W	Release Area	10/11/2011	Comp/Backhoe	36" (48" BSL)					1020
GS/Comp-04.0 W	Release Area	10/11/2011	Comp/Backhoe	48" (60" BSL)					238
GS/Comp-01.0 P	Release Area	10/11/2011	Comp/Backhoe	12" (18" BSL)					1330
GS/Comp-02.0 P	Release Area	10/11/2011	Comp/Backhoe	24" (30" BSL)					697
GS/Comp-03.0 P	Release Area	10/11/2011	Comp/Backhoe	36" (42" BSL)					543
GS/Comp-02.0 E	Release Area	10/11/2011	Comp/Backhoe	24" (36" BSL)					9650
GS/Comp-03.0 E	Release Area	10/11/2011	Comp/Backhoe	36" (48" BSL)					6220
GS/Comp-04.0 E	Release Area	10/11/2011	Comp/Backhoe	48" (60" BSL)					1130

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

All results are ppm. X - Sample Points BLS - Below Surface Level

- Impacted soils excavated/hauled.

Released: 75 B/PW; Recovered: 70 B/PW. Release Date: 6/7/2011



**Stogey BLG State Com.#1-H**

**30-015-36305**

**Section 36, T24S-R27E**

**Eddy County, NM**

**SAMPLE DIAGRAM(Not to Scale)**

**Xenco Laboratories# 424087, 424080  
& 429606**

**Prepared by Robert Asher  
Environmental Regulatory Agent**

# Analytical Report 429606

for  
**Yates Petroleum Corporation**

**Project Manager: Robert Asher**

**Stogey BLG State Com. #1-H**

**30-015-36305**

**24-OCT-11**

Collected By: Client



**Celebrating 20 Years of commitment to excellence in Environmental Testing Services**



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

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046):

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



24-OCT-11

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

Reference: XENCO Report No: **429606**  
**Stogey BLG 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 429606. 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. 429606 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 429606**



**Yates Petroleum Corporation, Artesia, NM**  
Stogey BLG State Com. #1-H

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
GS/Comp-02.0W	S	10-11-11 12:15	2 - 2 ft	429606-001
GS/Comp-03.0W	S	10-11-11 12:20	3 - 3 ft	429606-002
GS/Comp-04.0W	S	10-11-11 12:25	4 - 4 ft	429606-003
GS/Comp-01.0P	S	10-11-11 12:30	1 - 1 ft	429606-004
GS/Comp-02.0P	S	10-11-11 12:35	2 - 2 ft	429606-005
GS/Comp-03.0P	S	10-11-11 12:40	3 - 3 ft	429606-006
GS/Comp-02.0E	S	10-11-11 12:55	2 - 2 ft	429606-007
GS/Comp-03.0E	S	10-11-11 13:00	3 - 3 ft	429606-008
GS/Comp-04.0E	S	10-11-11 13:05	4 - 4 ft	429606-009



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*  
*Project Name: Stogey BLG State Com. #1-H*



*Project ID: 30-015-36305*  
*Work Order Number: 429606*

*Report Date: 24-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-872889 Percent Moisture*

*RPD recovered outside QC limits between the sample and sample duplicate.*



# Certificate of Analysis Summary 429606

Yates Petroleum Corporation, Artesia, NM

Project Name: Stogey BLG State Com. #1-H



Project Id: 30-015-36305

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Fri Oct-14-11 01:56 pm

Report Date: 24-OCT-11

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	429606-001	429606-002	429606-003	429606-004	429606-005	429606-006
	<i>Field Id:</i>	GS/Comp-02.0W	GS/Comp-03.0W	GS/Comp-04.0W	GS/Comp-01.0P	GS/Comp-02.0P	GS/Comp-03.0P
	<i>Depth:</i>	2-2 ft	3-3 ft	4-4 ft	1-1 ft	2-2 ft	3-3 ft
	<i>Matrix:</i>	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
	<i>Sampled:</i>	Oct-11-11 12:15	Oct-11-11 12:20	Oct-11-11 12:25	Oct-11-11 12:30	Oct-11-11 12:35	Oct-11-11 12:40
<b>Anions by E300</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-21-11 17:24	Oct-21-11 17:24	Oct-21-11 17:24	Oct-21-11 17:24	Oct-20-11 00:32	Oct-20-11 00:32
	<i>Units/RL:</i>	mg/kg RL					
Chloride		3360 47.8	1020 48.2	238 24.6	1330 22.5	697 9.42	543 9.14
<b>Percent Moisture</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-17-11 14:40					
	<i>Units/RL:</i>	% RL					
Percent Moisture		12.2 1.00	12.9 1.00	14.6 1.00	6.76 1.00	10.8 1.00	8.05 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



# Certificate of Analysis Summary 429606

Yates Petroleum Corporation, Artesia, NM

Project Name: Stogey BLG State Com. #1-H



Project Id: 30-015-36305

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Fri Oct-14-11 01:56 pm

Report Date: 24-OCT-11

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	429606-007	429606-008	429606-009			
	<i>Field Id:</i>	GS/Comp-02.0E	GS/Comp-03.0E	GS/Comp-04.0E			
	<i>Depth:</i>	2-2 ft	3-3 ft	4-4 ft			
	<i>Matrix:</i>	SOLID	SOLID	SOLID			
	<i>Sampled:</i>	Oct-11-11 12:55	Oct-11-11 13:00	Oct-11-11 13:05			
<b>Anions by E300</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-20-11 00:32	Oct-20-11 00:32	Oct-20-11 00:32			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		9650 199	6220 99.9	1130 9.72			
<b>Percent Moisture</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-17-11 14:40	Oct-17-11 14:40	Oct-17-11 14:40			
	<i>Units/RL:</i>	% RL	% RL	% RL			
Percent Moisture		15.5 1.00	15.9 1.00	13.6 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.
- 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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9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
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 Petroleum  
 Date/Time: 10/14/11 13:56  
 Lab ID #: 429606  
 Initials: AE

**Sample Receipt Checklist**

1. Samples on ice?	Blue	Water	<input checked="" type="radio"/> No	
2. Shipping container in good condition?	<input checked="" type="radio"/> Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<input checked="" type="radio"/> Yes	No	N/A	
4. Chain of Custody present?	<input checked="" type="radio"/> Yes	No		
5. Sample instructions complete on chain of custody?	<input checked="" type="radio"/> Yes	No		
6. Any missing / extra samples?	Yes	<input checked="" type="radio"/> No		
7. Chain of custody signed when relinquished / received?	<input checked="" type="radio"/> Yes	No		
8. Chain of custody agrees with sample label(s)?	<input checked="" type="radio"/> Yes	No		
9. Container labels legible and intact?	<input checked="" type="radio"/> Yes	No		
10. Sample matrix / properties agree with chain of custody?	<input checked="" type="radio"/> Yes	No		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	<input checked="" type="radio"/> Yes	No	N/A	
13. Sample container intact?	<input checked="" type="radio"/> Yes	No		
14. Sufficient sample amount for indicated test(s)?	<input checked="" type="radio"/> Yes	No		
15. All samples received within sufficient hold time?	<input checked="" type="radio"/> Yes	No		
16. Subcontract of sample(s)?	Yes	No	<input checked="" type="radio"/> N/A	
17. VOC sample have zero head space?	Yes	No	<input checked="" type="radio"/> N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs   180 °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 424088

## for Yates Petroleum Corporation

**Project Manager: Robert Asher**

**Stogey BLG State Com. #1-H**

**30-015-36305**

**27-JUL-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 (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-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

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

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

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

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

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



27-JUL-11

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

Reference: XENCO Report No: **424088**  
**Stogey BLG 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 424088. 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,

---

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Odessa Laboratory Manager

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**Sample Cross Reference 424088**



**Yates Petroleum Corporation, Artesia, NM**  
Stogey BLG State Com. #1-H

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
GS/Comp-00.5 W	S	07-20-11 09:36	6 - 6 In	424088-001
GS/Comp-01.0 W	S	07-20-11 09:49	12 - 12 In	424088-002
GS/Comp-00.5 P	S	07-20-11 10:03	6 - 6 In	424088-003
GS/Comp-00.5 E	S	07-20-11 10:15	6 - 6 In	424088-004
GS/Comp-01.0 E	S	07-20-11 10:30	12 - 12 In	424088-005



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Stogey BLG State Com. #1-H*



*Project ID: 30-015-36305*

*Work Order Number: 424088*

*Report Date: 27-JUL-11*

*Date Received: 07/23/2011*

---

**Sample receipt non conformances and comments:**

None

---

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

None

**Analytical non conformances and comments:**

*Batch: LBA-865337 Anions by E300  
E300MI*

*Batch 865337, Chloride recovered above QC limits in the Matrix Spike.*

*Samples affected are: 424088-003, -002, -001, -004, -005.*

*The Laboratory Control Sample for Chloride is within laboratory Control Limits*



# Certificate of Analysis Summary 424088

Yates Petroleum Corporation, Artesia, NM

Project Name: Stogey BLG State Com. #1-H



Project Id: 30-015-36305

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Sat Jul-23-11 04:00 pm

Report Date: 27-JUL-11

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	424088-001	424088-002	424088-003	424088-004	424088-005	
	<i>Field Id:</i>	GS/Comp-00.5 W	GS/Comp-01.0 W	GS/Comp-00 5 P	GS/Comp-00.5 E	GS/Comp-01.0 E	
	<i>Depth:</i>	6-6 In	12-12 In	6-6 In	6-6 In	12-12 In	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	Jul-20-11 09:36	Jul-20-11 09:49	Jul-20-11 10:03	Jul-20-11 10:15	Jul-20-11 10:30	
<b>Anions by E300</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jul-26-11 07:05					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		6010 88.6	5540 89.6	9840 420	7190 91.1	6530 91.7	
<b>Percent Moisture</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jul-25-11 10:50					
	<i>Units/RL:</i>	% RL					
Percent Moisture		5.16 1.00	6.27 1.00	ND 1.00	7.84 1.00	8.42 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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- 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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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: 7-23-11 4:00  
 Lab ID #: 424087/424088-C1  
 Initials: XM

**Sample Receipt Checklist**

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>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 424087

for

## Yates Petroleum Corporation

**Project Manager: Robert Asher**

**Stogey BLG State Com. #1-H**

**30-015-36305**

**27-JUL-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)

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

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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)



27-JUL-11

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

Reference: XENCO Report No: **424087**  
**Stogey BLG 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 424087. 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. 424087 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 424087**



**Yates Petroleum Corporation, Artesia, NM**  
Stogey BLG State Com. #1-H

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
GS/Comp-00.5 W	S	07-20-11 09:36	6 - 6 In	424087-001
GS/Comp-01.0 W	S	07-20-11 09:49	12 - 12 In	424087-002
GS/Comp-00.5 P	S	07-20-11 10:03	6 - 6 In	424087-003
GS/Comp-00.5 E	S	07-20-11 10:15	6 - 6 In	424087-004
GS/Comp-01.0 E	S	07-20-11 10:30	12 - 12 In	424087-005



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Stogey BLG State Com. #1-H*



*Project ID: 30-015-36305*

*Report Date: 27-JUL-11*

*Work Order Number: 424087*

*Date Received: 07/23/2011*

---

**Sample receipt non conformances and comments:**

None

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

None



# Certificate of Analysis Summary 424087

Yates Petroleum Corporation, Artesia, NM

Project Name: Stogey BLG State Com. #1-H



Project Id: 30-015-36305

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Sat Jul-23-11 04:00 pm

Report Date: 27-JUL-11

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	424087-001	424087-002	424087-003	424087-004	424087-005	
	<i>Field Id:</i>	GS/Comp-00.5 W	GS/Comp-01.0 W	GS/Comp-00.5 P	GS/Comp-00.5 E	GS/Comp-01.0 E	
	<i>Depth:</i>	6-6 In	12-12 In	6-6 In	6-6 In	12-12 In	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	Jul-20-11 09:36	Jul-20-11 09:49	Jul-20-11 10:03	Jul-20-11 10:15	Jul-20-11 10:30	
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	Jul-25-11 11:39					
	<i>Analyzed:</i>	Jul-25-11 17:52	Jul-25-11 18:15	Jul-25-11 18:37	Jul-25-11 19:00	Jul-25-11 19:23	
	<i>Units/RL:</i>	mg/kg    RL					
Benzene		ND 0.00105	ND 0.00100	ND 0.00101	ND 0.00109	ND 0.00110	
Toluene		ND 0.00210	ND 0.00201	ND 0.00201	ND 0.00218	ND 0.00221	
Ethylbenzene		ND 0.00105	ND 0.00100	ND 0.00101	ND 0.00109	ND 0.00110	
m_p-Xylenes		ND 0.00210	ND 0.00201	ND 0.00201	ND 0.00218	ND 0.00221	
o-Xylene		ND 0.00105	ND 0.00100	ND 0.00101	ND 0.00109	ND 0.00110	
Total Xylenes		ND 0.00105	ND 0.00100	ND 0.00101	ND 0.00109	ND 0.00110	
Total BTEX		ND 0.00105	ND 0.00100	ND 0.00101	ND 0.00109	ND 0.00110	
<b>Percent Moisture</b>	<i>Extracted:</i>	Jul-25-11 10:50					
	<i>Analyzed:</i>	Jul-25-11 10:50					
	<i>Units/RL:</i>	%        RL					
Percent Moisture		5.16    1.00	ND       1.00	ND       1.00	7.85    1.00	8.41    1.00	
<b>TPH By SW8015B Mod</b>	<i>Extracted:</i>	Jul-25-11 11:15					
	<i>Analyzed:</i>	Jul-25-11 14:47	Jul-25-11 15:15	Jul-25-11 15:43	Jul-25-11 16:11	Jul-25-11 16:38	
	<i>Units/RL:</i>	mg/kg    RL					
C6-C10 Gasoline Range Hydrocarbons		ND    15.7	ND    15.0	ND    15.1	ND    16.2	ND    16.4	
C10-C28 Diesel Range Hydrocarbons		324   15.7	216   15.0	1310   15.1	ND    16.2	ND    16.4	
Total TPH		324   15.7	216   15.0	1310   15.1	ND    16.2	ND    16.4	

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

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Brent Barron, II  
 Odessa Laboratory Manager



# Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to 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

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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: 7-23-11 4:00  
 Lab ID #: 424087/424088-C1  
 Initials: XM

**Sample Receipt Checklist**

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