Production Pad Graham AKB State #8 Pumping Unit
Analytical Report- 425794 & 425795 Sample Area Sample Date Sample Type Depth BTEX GRO DRO TOTAL Chlorides
Comp-01 0A Release Area 8/12/2011 Comp/Auger 1' 3.29 203 1020 1220 4,470
Comp-02 0A Release Area 8/12/2011 Comp/Auger 2' 0 204 64 2 632 696 5,360
Comp-03.0A Release Area 8/12/2011 Comp/Auger 3' ND ND 106 106 5,560
Comp:01:0B Release Area 8/12/2011 Comp/Auger 1' ND ND 296 296 942
Comp-02.0B Release Area 8/12/2011 Comp/Auger 2' ND ND 55.1 55.1 218

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 124').

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

Released: 42 B/PW, 6 B/O; Recovered: 0 B/PW, 0 B/O. Release Date: 8/7/2011

PETROLEUM CORPORATION Graham AKB State #8 30-015-31913

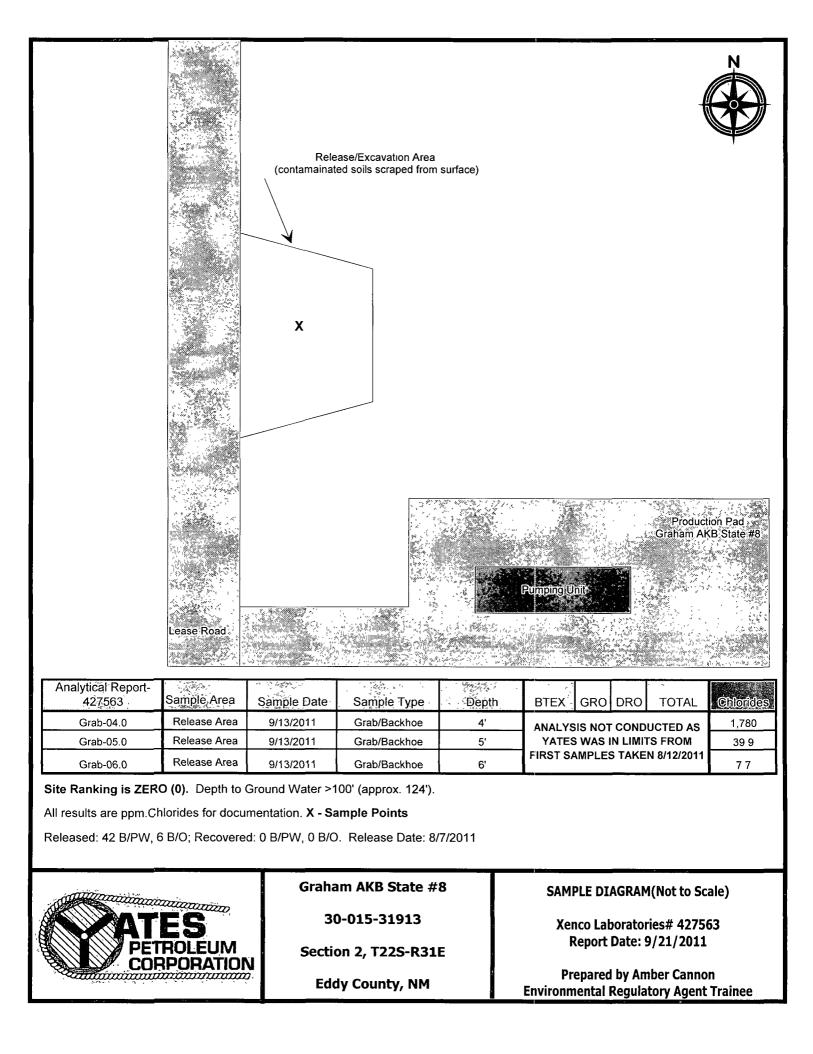
Section 2, T22S-R31E

Eddy County, NM

SAMPLE DIAGRAM(Not to Scale)

Xenco Laboratories# 425794 & 425795 Report Date: 8/24/2011

Prepared by Amber Cannon Environmental Regulatory Agent Trainee



Analytical Report 425794

for Yates Petroleum Corporation

Project Manager: Amber Cannon

Graham AKB State # 8

30-015-31913

24-AUG-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 Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



24-AUG-11



Project Manager: Amber Cannon Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 425794 Graham AKB State # 8 Project Address: Eddy County

Amber Cannon.

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 425794. 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. 425794 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 425794

Yates Petroleum Corporation, Artesia, NM

Graham AKB State # 8

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01 0 A	S	08-12-11 11:27	1 - 1 ft	425794-001
Comp-02.0 A	S	08-12-11 11:54	2 - 2 ft	425794-002
Comp-03 0 A	S	08-12-11 12:33	3 - 3 ft	425794-003
Comp-01.0 B	S	08-12-11 13:17	l - l ft	425794-004
Comp-02 0 B	S	08-12-11 13:37	2 - 2 ft	425794-005

CASE NARRATIVE



Client Name: Yates Petroleum Corporation Project Name: Graham AKB State # 3



 Project ID:
 30-015-31913

 Work Order Number:
 425794

Report Date: 24-AUG-11 Date Received: 08/16/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-867727 TPH By SW8015B Mcd SW8015B_NM

Batch 867727, 1-Chlorocctane recovered above QC limits Data not confirmed by re-analysis. Samples affected are: 610130-1-BKS.610130-1-BLK,610130-1-BSD,425370-001 SD.

SW8015B_NM

Batch 867727, C10-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix Spike. Samples affected are: 425794-003, -004, -002, -001, -005. The Laboratory Control Sample for C10-C28 Diesel Range Hydrocarbons is within laboratory Control Limits

Batch: LBA-867872 BTEX by EPA 8021B SW8021BM

Batch 867872. 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 425689-001 S,425689-001 SD.

SW8021BM

Batch 867872, Benzene, Ethylbenzene, Toluene, m_p-Xylenes, c-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 425794-004, -005.

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

CASE NARRATIVE



Client Name: Yates Petroleum Corporation Project Name: Graham AKB State # 8



Project ID: 30-015-31913 Work Order Number: 425794 Report Date: 24-AUG-11 Date Received. 08/16/2011

Batch: LBA-868086 BTEX by EPA 8021B SW8021BM

Batch 868086, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 425794-001. 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 425794-002,425794-001.



Project Id: 30-015-31913 Contact: Amber Cannon Project Location: Eddy County

Certificate of Analysis Summary 425794

Yates Petroleum Corporation, Artesia, NM

Project Name: Graham AKB State # 8



Date Received in Lab: Tue Aug-16-11 09:50 am Report Date: 24-AUG-11

Tojeti Location, Eddy County								Project Ma	nager:	Brent Barron	[]	
	Lab Id:	425794-0)01	425794-	002	425794-0	03	425794-()04	425794-(1	05	
Auglisia Dogwooted	Field Id:	Comp-01	0 A	Comp-02	0 A	Comp-03.	0 A	Comp-01	0 B	Comp-02	0 B	
Analysis Requested	Depth:	1-1 fi		2-2 ft		3-3 ft		1-1 ft		2-2 ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Aug-12-11	11.27	Aug-12-11	1154	Aug-12-11	12.33	Aug-12-11	13 17	Aug-12-11	13 37	
BTEX by EPA 8021B	Extracted:	Aug-23-11	11.00	Aug-23-11	11:00	Aug-23-11	11.00	Aug-19-11	16.00	Aug-19-11	16 00	
	Analyzed:	Aug-23-11	19 20	Aug-23-11	15 54	Aug-23-11	1617	Aug-20-11	05 25	Aug-20-11	05 48	
	Units/RL.	mg/kg	RL	mg/kg	RL	mg/kg	RL.	mg/kg	RL	mg/kg	RL	
Benzene		0 0223	0 0205	ND	0 00106	ND	0 00103	ND	0 00103	ND	0 00102	
Tohuene		0 0497	0 0409	ND	0 00212	ND	0 00207	ND	0 00206	ND	0 00205	
Ethylbenzene		0 6-12	0 0205	0.0326	0.00106	ND	0.00103	ND	0.00103	ND	0 00102	
m_p-Xylenes		2.02	0 0409	0111	0 00212	ND	0 00207	ND	0 00206	ND	0 00205	
o-Xylene		0 559	0 0205	0.0602	0 00106	ND	0 00103	ND	0 00103	ND	0 00102	
Total Xylenes		2 58	0 0205	0 171	0 00106	ND	0 00103	ND	0.00103	ND	0 00102	
Total BTEX		3.29	0 0205	0 204	0 00106	ND	0 00103	ND	0 00103	ND	0 00102	
Percent Moisture	Extracted:											
	Analyzed:	Aug-16-11	11 15	Aug-16-11	11.15	Aug-16-11	11:15	Aug-16-11	11:15	Aug-16-11	11.15	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	
Percent Moisture	ceanartfann a tio a a	3 03	1 00	5 26	1 00	3.02	1.00	3 20	1.00	1 88	1 00	
TPH By SW8015B Mod	Extracted:	Aug-17-11	16.00	Aug-17-11	16.00	Aug-17-11	16.00	Aug-17-11	16 00	Aug-17-11	16 00	
	Analyzed:	Aug-18-11	12:34	Aug-18-11	13 02	Aug-18-11	13.30	Aug-18-11	13.59	Aug-18-11	14.27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
C6-C10 Gasoline Range Hydrocarbons		203	15 5	64 2	158	ND	15.5	ND	15.5	ND	153	
C10-C28 Diesel Range Hydrocarbons		1020	15 5	632	158	106	155	296	155	55.1	153	
Total TPH		1220	155	696	15.8	106	15.5	296	15.5	55 1	15.3	

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 lability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Brent Barron II

Odessa Laboratory Manager

Final 1 000



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

Phone

Final 1.000

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	Company Name Y	ates Petrol	eum Corporat	ion .															F	roje	ct #:	30	-01	5-31	913	<u>}</u>							
	Company Address 1	05 South 41	Ih Street														_		Pro	ject	Loc:	Edd	dy C	ount	<u>у</u>								
	City/State/Zip: A	rtesia, NM	88210							•										P	0#:	103	3202	0									
	Telephone No: 5	75-748-411	1			_	Fax No:		57	5-74	48-45	585		_				Repo	ort F	orma	at:	X	Sta	indai	d	[Т	RRI	Р] NPC	ES	
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AB # (lab use only)				Beginning Depth	Ending Depth	Date Sampled	Time Sampled	reld Fattered	fotal # of Containers	<u>a</u>	NO3	Ŷ	H250.	NaOH	Na;S ₂ O ₃	None Charle Forders	DW=Dr.nkino Wajer SL=5 udos	GW * Groundweler S=Soll/Solid	TDL A10 1 DOARA DECIN UNBI	TX 1005 TX 10	ns (Ca, Mg, Na, K)	Antons (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Metats As Ag Ba Cd Cr Pb Hg Se	Volàtiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260 PCI		N O R M Chiorides			re-Scheoule) 24,	Ctondord TAT
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3.3	Comp-	-		3'	3'	8/12/2011	12:33 PM		1									S	5								x		X			_	;
04	Comp-	01.0 B		1'	1'	8/12/2011	<u>1'17 PM</u>		1	X								S		4							<u>x</u>	_	_ x	<u>: </u>	┝	_	
-05	Comp-(02.0 B	<u></u>	2'	2'	8/12/2011	<u>1 37 PM</u>		1	<u> </u> ×	-						╢	<u>S</u>	- 2	<u>(</u>	-					-	×		- ×	-	┼╌┨	-	;
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XENCO Laboratories Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa

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

Prelogin / Nonconformance Report - Sample Log-In

Client:	lates Petroleum.	
Date/Time:	8.16.11 9:50	
Lab ID # :	420794 / 425795	
Initials:	42	

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Tes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	N/A	
4. Chain of Custody present?	Pes	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?	Yès	Nc		
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.	
Ibs (y.) °C ibs °C ibs °	C Ibs	°c	lbs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:
Regarding:		
Corrective Action Tak	en:	
Check all that apply:	Cooling process has begun shortly after s condition acceptable by NELAC 5.5.	ampling event and out of temperature 8.3.1.a.1.

□ Initial and Sackup Temperature confirm out of temperature conditions □ Client understands and would like to proceed with analysis

Analytical Report 425795

for Yates Petroleum Corporation

Project Manager: Amber Cannon

Graham AKB State # 8

30-015-31913

24-AUG-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), Flonda (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 (AALII), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

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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: AZ009089): Arizona (AZ0758)







24-AUG-11

Project Manager: Amber Cannon Yates Petroleum Corporation 105 South Fourth St. Artesia. NM 88210

Reference: XENCO Report No: 425795 Graham AKB State # 8 Project Address: Eddy County

Amber Cannon:

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 425795. 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. 425795 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 425795



Yates Petroleum Corporation, Artesia, NM

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Graham AKB State # 8

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01 0 A	S	08-12-11 11:27	1 - 1 ft	425795-001
Comp-02.0 A	S	08-12-11 11:54	2 - 2. ft	425795-002
Comp-03 0 A	S	08-12-11 12:33	3 - 3 ft	425795-003
Comp-01.0 B	S	08-12-11 13:17	1 - 1 ft	425795-004
Comp-02.0 B	S	08-12-11 13:37	2 - 2 ft	425795-005



Client Name: Yates Petroleum Corporation Project Name: Graham AKB State # 8



 Project ID
 30-015-31913

 Work Order Number:
 425795

Report Date. 24-AUG-11 Date Received: 08/16/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-867919 Anions by E300 E300MI

Batch 867919, Chloride recovered above QC limits in the Matrix Spike. Samples affected are: 425795-003, -001, -002, -005, -004. The Laboratory Control Sample for Chloride is within laboratory Control Limits

Project Id: 30-015-31913 Contact: Amber Cannon Project Location: Eddy County

Certificate of Analysis Summary 425795

Yates Petroleum Corporation, Artesia, NM

Project Name: Graham AKB State # 8



Date Received in Lab: Tue Aug-16-11 09.50 am

Report Date: 24-AUG-11

Percent Moisture		3.03	1 00	5 26	1 00	3,02	1 00	3 20	1.00	1.88	1 00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	
	Analyzed:	Aug-16-11	1:15	Aug-16-11	1 1 5	Aug-16-11	1.15	Aug-16-11 1	1.15	Aug-16-11 1	115	
Percent Moisture	Extracted.											
Chloride		4470	86.6	5360	88.7	5560	86.6	942	217	218	21.4	
	Units/RL.	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
	Analyzed:	Aug-20-11	100	Aug-20-11	1 00	Aug-20-11 1	1:00	Aug-20-11 1	1.00	Aug-20-11 1	1.00	
Anions by E300	Extracted:											
	Sampled:	Aug-12-11	1.27	Aug-12-11	1 54	Aug-12-11 1	2 33	Aug-12-11 1	3 17	Aug-12-11 1	3.37	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
maysis Requested	Depth:	1-1 ft		2-2 ft		3-3 ft		1-1 ft		2-2 ft		
Analysis Requested	Field Id:	Comp-01.	DA	Comp-02) A	Comp-03 0	A (Comp-01.0	0.13	Comp-02	an	
	Lab Id.	425795-0	01	425795-0	02	425795-00)3	425795-0	04	425795-0	05	
								Project Mai	nager:	Brent Barron I	<u>I</u>	

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

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Brent Barron II

, 1

Odessa Laboratory Manager

Final 1.000



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 contanunant 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 quantiation 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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	Company Address.	105 South 4	th Street																Рю	ojeci	t 1.0	: <u>Ed</u>	ldy C	ount	ty								
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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:	Jates Petroleum	
Date/Time:	8-16-11 9:5D	
Lab ID # :	420794 / 435795	
Initials:	42	-

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Tes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Tes	No	N/A	
4. Chain of Custody present?	Tes	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		i
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	o	Cooler 5 No.	
Ibs (J.) °C Ibs °C Ibs	°C lbs	' °C	lbs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:
Regarding:		
Corrective Action Tak	en:	
Check all that apply:	Cooling process has begun shortly condition acceptable by NEL4	

 \Box initial and Backup Temperature confirm out of temperature conditions \Box Client understands and would like to proceed with analysis

Analytical Report 427563

for

Yates Petroleum Corporation

Project Manager: Amber Cannon

Graham AKB State # 8

30-015-31913

21-SEP-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 (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 Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





21-SEP-11

Project Manager: Amber Cannon Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference XENCO Report No: 427563 Graham AKB State # 8 Project Address: Eddy County

Amber Cannon:

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 427563. 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. 427563 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 427563

Yates Petroleum Corporation, Artesia, NM

Graham AKB State # 8

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Grab 04 0	S	09-13-11 09:05	4 - 4 ft	427563-001
Grab 05.0	S	09-13-11 09:10	5 - 5 ft	427563-002
Grab 06 0	S	09-13-11 09:15	6 - 6 ft	427563-003

CASE NARRATIVE



Client Name: Yates Petroleum Corporation Project Name: Graham AKB State # 8



 Project ID:
 30-015-31913

 Work Order Number:
 427563

Report Date: 21-SEP-11 Date Received: 09/14/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None



Project Id: 30-015-31913

Project Location: Eddy County

Contact: Amber Cannon

Certificate of Analysis Summary 427563

Yates Petroleum Corporation, Artesia, NM

Project Name: Graham AKB State # 8



Date Received in Lab: Wed Sep-14-11 09 30 am Report Date: 21-SEP-11

Project Manager: Bient Bairon II

								Project Manager:	Bient Barron II	
	Lab Id:	427563-(001	427563-0	002	427563-0	03			
Analysis Requested	Field Id.	Grab 04	0	Grab 05	0	Grab 06	0			
Zinniysis Kequesten	Depth:	4-4 ft		5-5 ft		6-6 ft				
	Matrix:	SOIL		SOIL		SOIL				
-	Sampled:	Sep-13-11 (09.05	Sep-13-11	09-10	Sep-13-11 (09.15			
Anions by E300	Extracted:			11 BALL						
	Analyzed:	Sep-15-11	18.54	Sep-15-11	18 54	Sep-15-11	18 54			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		1780	181	39 9	4.38	7 70	4 32			
Percent Moisture	Extracted:									
[Analyzed:	Sep-14-11	13.15	Sep-14-11	13-15	Sep-14-11	13.15			
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture		7 00	1 00	4 03	1 00	2.75	1.00			

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Brent Barron II

Odessa Laboratory Manager

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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 quantiation 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.
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- 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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Project	Manager: Amber Cannon															Pro	oject	Nan	1e: (Gra	ha	m	AK	<u>3 S</u>	tat	e #	8			
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City/Sta	ite/Zip Artesla, NM 88210	0PO#: 10										#: 1032020																		
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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	Yorks Petroleum
Date/Time:	9.14.11 9:30
Lab ID # :	427563
Initials:	<u> </u>

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Tes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Tes	No	N/A	
4. Chain of Custody present?	(Fes	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)?	(jès	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No .		1
11. Samples in proper container / bottle?	Yes	No		
12. Samples property 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	(NIÀ)	
17. VCC sample have zero head scace?	Yes	No	(NA)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	o.	Cooler 5 No.	
	lbs	°C	lbs	°C

Nonconformance Documentation

Contact	Contacted by:	Date/Time:
Regarding:		
Corrective Action Tak	en:	
Check all that apply:	Cooling process has begun shortly after condition acceptable by NELAC 5 Initial and Backup Temperature confirm Client understands and would like to pr	5.5.8.3.1.a.1. n out of temperature conditions