Analytical Report 427326

for

Yates Petroleum Corporation

Project Manager: Jeremy Haass

Squires 'ALR' # 2

30-015-34246

22-SEP-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)

22-SEP-11

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

Reference: XENCO Report No: **427326**
Squires 'ALR' # 2
Project Address: Eddy

Jeremy Haass:

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 427326. 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. 427326 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

Sample Cross Reference 427326

Yates Petroleum Corporation, Artesia, NM

Squires 'ALR' # 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sample # 1	S	09-08-11 09:45	1 - 1 ft	427326-001
Sample # 2	S	09-08-11 10:00	1.5 - 1.5 ft	427326-002
Sample # 3	S	09-08-11 10:15	8 - 8 In	427326-003
Sample # 4	S	09-08-11 10:15	6 - 6 In	427326-004
Sample # 5	S	09-08-11 10:30	1 - 1 ft	427326-005
Sample # 6	S	09-08-11 10:45	1 - 1 ft	427326-006

CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Squires 'ALR' # 2

Project ID:	*30-015-34246*	*Report Date:*	*22-SEP-11*
Work Order Number:	*427326*	*Date Received:*	*09/09/2011*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 427326

Yates Petroleum Corporation, Artesia, NM

Project Name: Squires 'ALR' # 2

Project Id: 30-015-34246
Contact: Jeremy Haass
Project Location: Eddy

Date Received in Lab: Fri Sep-09-11 10:00 am
Report Date: 22-SEP-11
Project Manager: Brent Barron II

Analysis Requested													
	Lab Id:	427326-001		427326-002		427326-003		427326-004		427326-005		427326-006	
	Field Id:	Sample # 1		Sample # 2		Sample # 3		Sample # 4		Sample # 5		Sample # 6	
	Depth:	1-1 ft		1 5-1 5 ft		8-8 In		6-6 In		1-1 ft		1-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-08-11 09:45		Sep-08-11 10.00		Sep-08-11 10:15		Sep-08-11 10:15		Sep-08-11 10:30		Sep-08-11 10:45	
Anions by E300	***Extracted:***												
	Analyzed:	Sep-11-11 19:03		Sep-11-11 19.03		Sep-11-11 19:03		Sep-11-11 19.03		Sep-11-11 19.03		Sep-11-11 19:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		28600	479	21200	465	32800	461	23300	444	21600	446	25700	460
Percent Moisture	***Extracted:***												
	Analyzed:	Sep-09-11 15 12		Sep-09-11 15 12		Sep-09-11 15.12		Sep-09-11 15:30		Sep-09-11 15.30		Sep-09-11 15.30	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		12 3	1.00	9.68	1.00	8 99	1.00	5 45	1.00	5 89	1 00	8 62	1 00

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 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.

XENCO Laboratories

BS / BSD Recoveries

Project Name: Squires 'ALR' # 2

Work Order #: 427326 **Project ID:** 30-015-34246

Analyst: BRB **Date Prepared:** 09/11/2011 **Date Analyzed:** 09/11/2011

Lab Batch ID: 869675 **Sample:** 869675-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Anions by E300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0 840	20.0	21 8	109	20.0	22.0	110	1	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Final 1.000

Form 3 - MS Recoveries

Project Name: Squires 'ALR' # 2

Work Order #: 427326
Lab Batch #: 869675
Project ID: 30-015-34246
Date Analyzed: 09/11/2011
Date Prepared: 09/11/2011
Analyst: BRB
QC- Sample ID: 427326-001 S
Batch #: 1
Matrix: Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	28600	11400	41600	114	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Sample Duplicate Recovery

Project Name: Squires 'ALR' # 2

Work Order #: 427326

Lab Batch #: 869675 **Project ID:** 30-015-34246

Date Analyzed: 09/11/2011 19:03 **Date Prepared:** 09/11/2011 **Analyst:** BRB

QC- Sample ID: 427326-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by E300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	28600	28800	1	20	

Lab Batch #: 869627

Date Analyzed: 09/09/2011 11:15 **Date Prepared:** 09/09/2011 **Analyst:** BRB

QC- Sample ID: 427302-002 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	1.57	1.41	11	20	

Lab Batch #: 869633

Date Analyzed: 09/09/2011 15:30 **Date Prepared:** 09/09/2011 **Analyst:** BRB

QC- Sample ID: 427325-004 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	5.46	5.03	8	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Final 1.000

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Jeremy Haass

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4311 Fax No:

Sampler Signature: e-mail: jhaass@yatespetroleum.com

Project Name: Squires 'ALR' #2

Project #: 30-015-34246

Project Loc: Eddy

PO #: 103-2636

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 427325 / 427326

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For. TCLP: TPH 418.1	TPH TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals. As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: 8015B 8015M	TX 1006	BTEX 8021B/5030 or BTEX 8260	RCI	N O R M	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Sample #1	1ft	1ft	9/8/2011	9:45am			X									S		X								X				X			X
02	Sample #2	1.5ft	1.5ft	9/8/2011	10:00am			X									S		X								X				X			X
03	Sample #3	8in	8in	9/8/2011	10:15am			X									S		X								X				X			X
04	Sample #4	6in	6in	9/8/2011	10:15am			X									S		X								X				X			X
05	Sample #5	1ft	1ft	9/8/2011	10:30am			X									S		X								X				X			X
06	Sample #6	1ft	1ft	9/8/2011	10:45am			X									S		X								X				X			X
07																																		
08																																		
	PLEASE PUT CHLORIDES																																	
	ON SEPARATE REPORT																																	

Special Instructions: **TPH: 8015B, BTEX: 8021B & Chlorides.** Please show BTEX results as mg/kg Thank you.

Relinquished by	Date	Time	Received by	Date	Time
	09/08/11	3 02 PM			
Relinquished by.	Date	Time	Received by	Date	Time
Relinquished by. Fedex	Date	Time	Received by ELOT: Andrea Elam	Date 9.9.11	Time 10:00

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.6 °C

Final 1.000

XENCO Laboratories	Document Title: Sample Receipt Checklist
Atlanta, Boca Raton, Corpus Christi, Dallas	Document No.: SYS-SRC
Houston, Miami, Odessa, Philadelphia	Revision/Date: No 01, 5/27/2010
Phoenix, San Antonio, Tampa	Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates Petroleum

Date/Time: 9.9.11 10.00

Lab ID #: 427325 / 427326

Initials: AE

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	3.6 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

Contact:_____ Contacted by:_____ Date/Time:_____

Regarding: _____

_____

Corrective Action Taken: _____

_____

_____

_____

Check all that apply: ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

☐ Initial and Backup Temperature confirm out of temperature conditions

☐ Client understands and would like to proceed with analysis