

MARTIN YATES, III

1912-1985

FRANK W. YATES

1936-1986

S.P. YATES

1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

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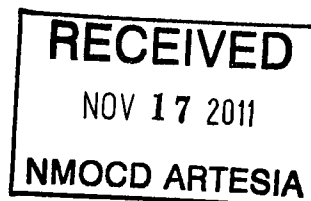
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CHIEF ADMINISTRATIVE OFFICER

November 17, 2011

Mr. Mike Bratcher
NMOCD District II
811 South First Street
Artesia, NM 88210



Re: Mojave AJY Com. #2
2RP-909
30-015-28531
Section 35, T20.5S-R23E
Eddy County, New Mexico

Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on September 14, 2011 (15 bbls of produced water with 10 bbls of produced water being recovered). The release was from the failure of fill line on a water tank. Vertical and horizontal samples taken on 10/5/2011 and 10/26/2011, were sent to an NMOCD approved laboratory for analysis. Analytical results show TPH & BTEX are below RRAL's (chlorides for documentation) for the site ranking of zero (0), (enclosed sample diagram and results). The analytical results were accepted by the NMOCD for closure (11/15/2011). Based on enclosed analytical results, amounts released/recovered and site ranking, Yates Petroleum Corporation requests closure.

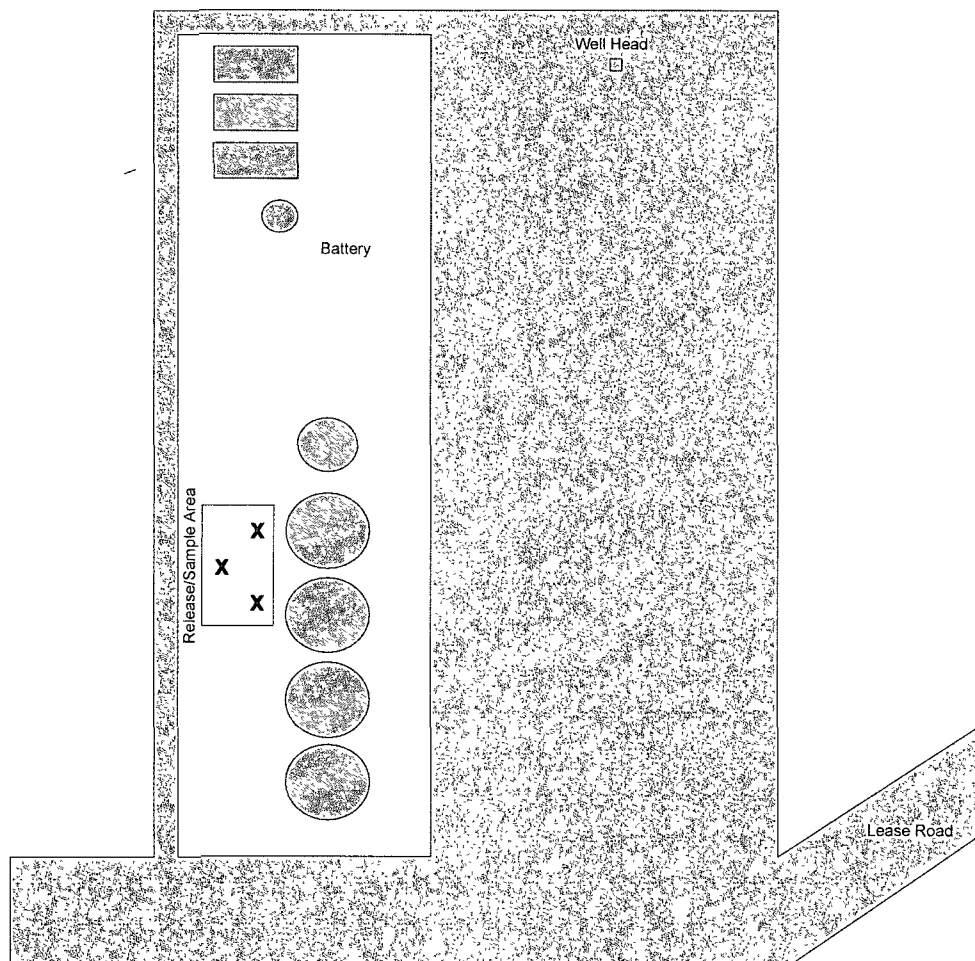
If you have any questions, please call me at 575-748-4217.

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher
Senior Environmental Regulatory Agent

/rca
Enclosure(s)



Analytical Report 429591 & 429594	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-00.5	Release Area	10/5/2011	Comp/Auger	6"		ND	ND	ND	196
Comp-01.0	Release Area	10/5/2011	Comp/Auger	12"		ND	23	23	231
Comp-01.5	Release Area	10/5/2011	Comp/Auger	18"		ND	ND	ND	214
Analytical Report 430849	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-00.5	Release Area	10/26/2011	Comp/Auger	6"	ND				
Comp-01.0	Release Area	10/26/2011	Comp/Auger	12"	ND				
Comp-01.5	Release Area	10/26/2011	Comp/Auger	18"	ND				

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 268', per NMOSE).

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

Released: 15 B/PW; Recovered: 10 B/PW. Release Date: 9/14/2011



Mojave AJY Com. #2

30-015-28531

Section 35, T20.5S-R23E

Eddy County, NM

SAMPLE DIAGRAM(Not to Scale)
Xenco Laboratories# 429591 & 429594
Report Date: 10/24/2011
Xenco Laboratories# 430849
Report Date: 11/10/2011
Prepared by Robert Asher
Environmental Regulatory Agent

Analytical Report 430849

for Yates Petroleum Corporation

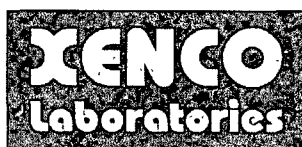
Project Manager: Robert Asher

Mojave AJY Com. # 2

30-015-28531

10-NOV-11

Collected By: Client



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

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

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

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

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

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

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

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

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



10-NOV-11

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

Reference: XENCO Report No: **430849**
Mojave AJY Com. # 2
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 430849. 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. 430849 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 430849



Yates Petroleum Corporation, Artesia, NM

Mojave AJY Com. # 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	10-26-11 14:10	6 - 6 In	430849-001
Comp-01.0	S	10-26-11 14:23	12 - 12 In	430849-002
Comp-01.5	S	10-26-11 14:38	18 - 18 In	430849-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Mojave AJY Com. # 2



Project ID: 30-015-28531

Work Order Number: 430849

Report Date: 10-NOV-11

Date Received: 11/03/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-874338 BTEX by EPA 8021B

SW8021BM

Batch 874338, Benzene, Ethylbenzene, m_p-Xylenes recovered below QC limits in the Matrix Spike. o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Toluene recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 430849-002, -001, -003.

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

SW8021BM

Batch 874338, Benzene, Ethylbenzene, m_p-Xylenes , o-Xylene RPD was outside QC limits.

Samples affected are: 430849-002, -001, -003

SW8021BM

Batch 874338, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis

Samples affected are: 430849-003.



Certificate of Analysis Summary 430849

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-28531

Contact: Robert Asher

Project Location: Eddy County

Project Name: Mojave AJY Com. # 2

Date Received in Lab: Thu Nov-03-11 10.35 am

Report Date: 10-NOV-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	430849-001	430849-002	430849-003			
	Field Id:	Comp-00.5	Comp-01 0	Comp-01 5			
	Depth:	6-6 In	12-12 In	18-18 In			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Oct-26-11 14.10	Oct-26-11 14.23	Oct-26-11 14.38			
BTEX by EPA 8021B	Extracted:	Nov-08-11 09.24	Nov-08-11 09.24	Nov-08-11 09.24			
	Analyzed:	Nov-08-11 20.07	Nov-08-11 22.02	Nov-08-11 22.25			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		ND 0.00110	ND 0.00117	ND 0.00117			
Toluene		ND 0.00219	ND 0.00235	ND 0.00234			
Ethylbenzene		ND 0.00110	ND 0.00117	ND 0.00117			
m_p-Xylenes		ND 0.00219	ND 0.00235	ND 0.00234			
o-Xylene		ND 0.00110	ND 0.00117	ND 0.00117			
Total Xylenes		ND 0.00110	ND 0.00117	ND 0.00117			
Total BTEX		ND 0.00110	ND 0.00117	ND 0.00117			
Percent Moisture	Extracted:	Nov-04-11 10.40	Nov-04-11 10.40	Nov-04-11 10.40			
	Analyzed:	Nov-04-11 10.40	Nov-04-11 10.40	Nov-04-11 10.40			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		9.10 1.00	14.9 1.00	14.9 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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(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

A Xenco Laboratories Company

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

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

Sampler Signature: 

PO #: 105632


Report Format: ☒ Standard ☐ TRRP ☐ NPDES

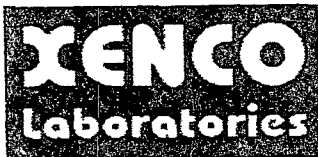
e-mail: boba@yatespetroleum.com

ORDER #: 430849

Special Instructions: BTEX 8021B ONLY. ALL results in mg/kg. Thank you.

4029/655



**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: 11.3.11 10:35
Lab ID #: 430849
Initials: WR

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	No	<u>N/A</u>	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>4.5</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

Analytical Report 429594

for Yates Petroleum Corporation

Project Manager: Robert Asher

Mojave AJY Com. #2

30-015-28531

24-OCT-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)

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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)



24-OCT-11

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

Reference: XENCO Report No: **429594**
Mojave AJY Com. #2
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 429594. 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. 429594 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 429594



Yates Petroleum Corporation, Artesia, NM

Mojave AJY Com. #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	10-05-11 10:42	6 - 6 In	429594-001
Comp-01.0	S	10-05-11 10:55	12 - 12 In	429594-002
Comp-01.5	S	10-05-11 11:12	18 - 18 In	429594-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Mojave AJY Com. #2



Project ID: 30-015-28531

Work Order Number: 429594

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-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 429594

Yates Petroleum Corporation, Artesia, NM

Project Name: Mojave AJY Com. #2



Project Id: 30-015-28531

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Fri Oct-14-11 01:52 pm

Report Date: 24-OCT-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	429594-001	429594-002	429594-003			
	Field Id:	Comp-00.5	Comp-01.0	Comp-01.5			
	Depth:	6-6 In	12-12 In	18-18 In			
	Matrix:	SOLID	SOLID	SOLID			
	Sampled:	Oct-05-11 10.42	Oct-05-11 10.55	Oct-05-11 11.12			
Anions by E300	Extracted:						
	Analyzed:	Oct-17-11 18.01	Oct-17-11 18.01	Oct-17-11 18.01			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		196 9.13	231 9.92	214 9.89			
Percent Moisture	Extracted:						
	Analyzed:	Oct-17-11 14.00	Oct-17-11 14.00	Oct-17-11 14.00			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		8.02 1.00	15.3 1.00	15.1 1.00			

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

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Brent Barron II
Odessa Laboratory Manager



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
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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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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	



BS / BSD Recoveries



Project Name: Mojave AJY Com. #2

Work Order #: 429594

Analyst: BRB

Date Prepared: 10/17/2011

Project ID: 30-015-28531

Date Analyzed: 10/17/2011

Lab Batch ID: 872546

Sample: 872546-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Anions by E300	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
Analytes											
Chloride	<0.840	20.0	21.7	109	20.0	22.2	111	2	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



Form 3 - MS Recoveries



Project Name: Mojave AJY Com. #2

Work Order #: 429594

Lab Batch #: 872546

Date Analyzed: 10/17/2011

Date Prepared: 10/17/2011

Project ID: 30-015-28531

Analyst: BRB

QC- Sample ID: 429589-006 S

Batch #: 1

Matrix: Solid

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	64.0	200	278	107	75-125	

Lab Batch #: 872546

Date Analyzed: 10/17/2011

Date Prepared: 10/17/2011

Analyst: BRB

QC- Sample ID: 429638-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	208	106	322	108	75-125	

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

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Mojave AJY Com. #2

Work Order #: 429594

Lab Batch #: 872546

Project ID: 30-015-28531

Date Analyzed: 10/17/2011 18:01

Date Prepared: 10/17/2011

Analyst: BRB

QC- Sample ID: 429638-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	208	208	0	20	

Lab Batch #: 872513

Date Analyzed: 10/17/2011 14:00

Date Prepared: 10/17/2011

Analyst: BRB

QC- Sample ID: 429610-001 D

Batch #: 1

Matrix: Solid

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	3 16	21 0	148	20	F

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Environmental Lab of Texas

A Xenco Laboratories Company

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: Robert Asher

Project Name: Mojave AJY Com. #2

Company Name: Yates Petroleum Corporation

Project #: 30-015-28531

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 105632

Telephone No: 575-748-4217

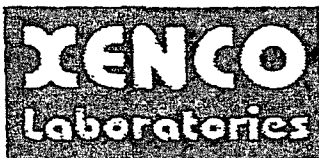
Fax No: 575-748-4662

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: [Signature]

e-mail: boba@yatespetroleum.com

(lab use only)		Analyze For	
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth
01	Comp-00.5	6"	6"
02	Comp-01.0	12"	12"
03	Comp-01.5	18"	18"
PLEASE PUT CHLORIDES ON SEPARATE REPORT			
Special Instructions: <u>TPH 8015M, BTEX 8021B & Chlorides. ALL results in mg/kg. Thank you.</u>			
Relinquished by:	Date	Time	Received by:
Robert Asher	10/13/11	11:48 AM	[Signature]
Relinquished by:	Date	Time	Received by:
[Signature]	10/14/11	1:52	[Signature]
Relinquished by:	Date	Time	Received by:
[Signature]	10/14/11	1:52	[Signature]



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

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

Prelogin / Nonconformance Report - Sample Log-In

Client: Vates
Date/Time: 10/14/11 13:52
Lab ID #: 429591/429594
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 3 °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 5.5.3.3.1.a.1.
☐ Initial and Backup Temperature confirm out of temperature conditions
☐ Client understands and would like to proceed with analysis

Analytical Report 429591

for Yates Petroleum Corporation

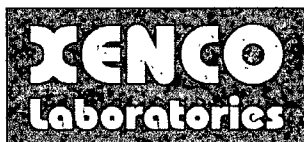
Project Manager: Robert Asher

Mojave AJY Com. #2

30-015-28531

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 (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

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

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

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

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

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

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

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



24-OCT-11

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

Reference: XENCO Report No: **429591**
Mojave AJY Com. #2
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 429591. 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. 429591 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 429591



Yates Petroleum Corporation, Artesia, NM

Mojave AJY Com. #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	10-05-11 10:42	6 - 6 In	429591-001
Comp-01.0	S	10-05-11 10:55	12 - 12 In	429591-002
Comp-01.5	S	10-05-11 11:12	18 - 18 In	429591-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Mojave AJY Com. #2



Project ID: 30-015-28531

Work Order Number: 429591

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-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 429591

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-28531

Contact: Robert Asher

Project Location: Eddy County

Project Name: Mojave AJY Com. #2

Date Received in Lab: Fri Oct-14-11 01:52 pm

Report Date: 24-OCT-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	429591-001	429591-002	429591-003			
	Field Id:	Comp-00 5	Comp-01 0	Comp-01.5			
	Depth:	6-6 In	12-12 In	18-18 In			
	Matrix:	SOLID	SOLID	SOLID			
	Sampled:	Oct-05-11 10.42	Oct-05-11 10.55	Oct-05-11 11.12			
Percent Moisture	Extracted:						
	Analyzed:	Oct-17-11 14:00	Oct-17-11 14.00	Oct-17-11 14.00			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		8.02 1.00	15.3 1.00	15.1 1.00			
TPH By SW8015B Mod	Extracted:	Oct-19-11 13.45	Oct-19-11 13.45	Oct-19-11 13.45			
	Analyzed:	Oct-20-11 06.49	Oct-20-11 07.23	Oct-20-11 07.56			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C10 Gasoline Range Hydrocarbons		ND 16.4	ND 17.8	ND 17.6			
C10-C28 Diesel Range Hydrocarbons		ND 16.4	23.0 17.8	ND 17.6			
Total TPH		ND 16.4	23.0 17.8	ND 17.6			

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.

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

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
 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	Fax
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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

A Xenco Laboratories Company

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

Fax: 432-563-1713

Project Name: **Mojave AJY Com. #2**

Project #: 30-015-28531

Project Loc: Eddy County

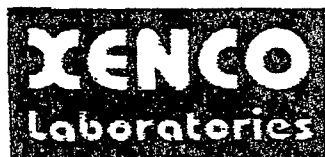
PO #: 105632

Fax No: 575-748-4662

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: boba@yatespetroleum.com

LAB # (lab use only)										FIELD CODE										Beginning Depth		Ending Depth		Date Sampled		Time Sampled		Field Filtered		Total # of Containers		Preservation & # of Containers										Matrix										TCLP TOTAL										Analyze For:										RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	
LAB # (lab use only)										FIELD CODE										Beginning Depth		Ending Depth		Date Sampled		Time Sampled		Field Filtered		Total # of Containers		Ice HNO ₃ HCl H ₂ SO ₄ NaOH Na ₂ S ₂ O ₃ None Other (Specify)										DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other										TPH 418 1 8015M 8015B TPH TX 1005 TX 1006 Cations (Ca, Mg, Na, K) Anions (Cl, SO ₄ , Alkalinity) SAR / ESP / CEC Metals As Ag Ba Cd Cr Pb Hg Se Volatiles Semivolatiles BTEX 8021B/5030 or BTEX 8260 RCI NORM Chlorides										Standard TAT											
01										Comp-00.5										6"		6"		10/5/2011		10:42 AM						X										S										X																				X	
02										Comp-01.0										12"		12"		10/5/2011		10:55 AM						X										S										X																				X	
03										Comp-01.5										18"		18"		10/5/2011		11:12 AM						X										S										X																				X	



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

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

Prelogin / Nonconformance Report - Sample Log-In

Client: Vates
Date/Time: 10/14/11 13:52
Lab ID #: 429591/429594
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 3 °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 5.5.3.3.1.a.1.
☐ Initial and Backup Temperature confirm out of temperature conditions
☐ Client understands and would like to proceed with analysis