

Zingaro ANG Federal #1

Analytical Report- 431275	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp 6"	Release Area	11/9/2011	Shovel	6"	23.7	909	684	1590	N/A

Analytical Report- 426981 & 426978	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp 1'	Release Area	11/29/2011	Shovel	1'	9.84	1400	1140	2540	N/A

Analytical Report- 426981 & 426978	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
1.5' Hole	Release Area	1/3/2012	Shovel	1.5'	0.0777	ND	119	119	N/A

Site Ranking is TEN (10). Depth to Ground Water 50-99' (approx. 75', Section 1-22S-23E, per Trend Map).

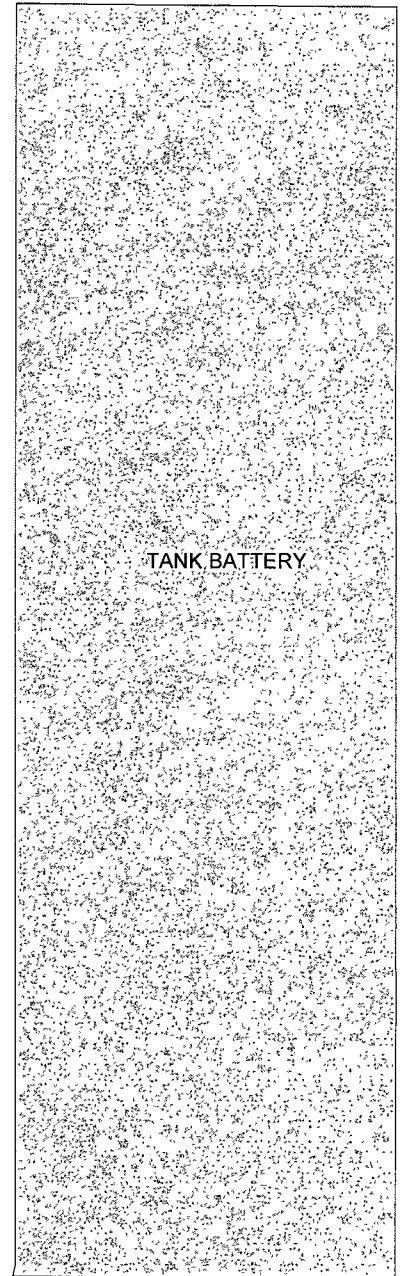
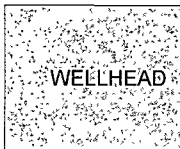
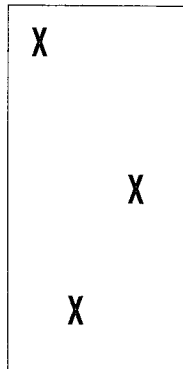
All results are ppm. Chlorides for documentation. **X - Sample Points**

Released: 100 MCF Gas; Recovered: 0 MCF Gas. Release Date: 10/28/2011

LEASE ROAD



Release/Excavation Area
(contaminated soils scraped from surface)



Zingaro ANG Federal #1

30-015-27934

Section 1, T22S-R23E

Eddy County, NM

SAMPLE DIAGRAM(Not to Scale)

Xenco Laboratories# 431275, 432341, 434396
Report Date: 11/21/2011, 12/9/2011, 1/13/2012
Prepared by Amber Cannon
Environmental Regulatory Agent

Analytical Report 431275

for Yates Petroleum Corporation

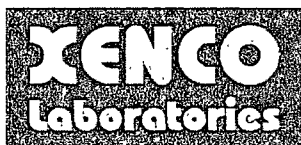
Project Manager: Amber Cannon

Zingaro ANG Federal # 1

30-015-27934

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

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



21-NOV-11

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

Reference: XENCO Report No: **431275**
Zingaro ANG Federal # 1
Project Address: 1-22S-23E, 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 431275. 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. 431275 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 431275



Yates Petroleum Corporation, Artesia, NM

Zingaro ANG Federal # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stock Pile	S	11-09-11 09:05		431275-001
Comp-6"	S	11-09-11 09:10	6 - 6 In	431275-002



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Zingaro ANG Federal # 1



Project ID: 30-015-27934

Work Order Number: 431275

Report Date: 21-NOV-11

Date Received: 11/10/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-874899 BTEX by EPA 8021B

SW8021BM

Batch 874899, Ethylbenzene, o-Xylene recovered below QC limits in the Matrix Spike. Benzene, Toluene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 431275-002, -001.

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

SW8021BM

Batch 874899, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 431275-001.

4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 431275-001.

Batch: LBA-874915 TPH By SW8015B Mod

SW8015B_NM

Batch 874915, 1-Chlorooctane recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis

Samples affected are: 431073-001 S, 431073-001 SD, 431275-001, 431275-002.

o-Terphenyl recovered above QC limits Data not confirmed by re-analysis. Samples affected are: 614198-1-BLK, 431073-001 S, 431073-001 SD, 431275-001, 431275-002.



Certificate of Analysis Summary 431275

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-27934

Contact: Amber Cannon

Project Location: 1-22S-23E, Eddy County

Project Name: Zingaro ANG Federal # 1

Date Received in Lab: Thu Nov-10-11 02:20 pm

Report Date: 21-NOV-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	431275-001	431275-002				
	Field Id:	Stock Pile	Comp-6"				
	Depth:		6-6 In				
	Matrix:	SOIL	SOIL				
	Sampled:	Nov-09-11 09 05	Nov-09-11 09.10				
BTEX by EPA 8021B	Extracted:	Nov-15-11 12 15	Nov-15-11 12 15				
	Analyzed:	Nov-15-11 18.24	Nov-15-11 18 47				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		ND 0 102	ND 0 102				
Toluene		3 33 0 203	0 323 0 204				
Ethylbenzene		9 13 0 102	1.67 0 102				
m_p-Xylenes		76 0 0 203	16 0 0 204				
o-Xylene		14 5 0 102	5 68 0 102				
Total Xylenes		90 5 0 102	21.7 0 102				
Total BTEX		103 0 102	23.7 0 102				
Percent Moisture	Extracted:						
	Analyzed:	Nov-11-11 14 35	Nov-11-11 14.35				
	Units/RL:	% RL	% RL				
Percent Moisture		2.11 1 00	2.51 1.00				
TPH By SW8015B Mod	Extracted:	Nov-12-11 15 00	Nov-12-11 15.00				
	Analyzed:	Nov-14-11 10.51	Nov-14-11 11.23				
	Units/RL:	mg/kg RL	mg/kg RL				
C6-C10 Gasoline Range Hydrocarbons		3150 76 5	909 15 3				
C10-C28 Diesel Range Hydrocarbons		1600 76.5	684 15.3				
Total TPH		4750 76.5	1590 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 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.
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- 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 **SQL** 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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(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	

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: Amber Cannon

Project Name: Zingaro ANG Federal #1

Company Name Yates Petroleum Corporation

Project #: 30-015-27934

Company Address: 105 South 4th Street

Project Loc: 1-22S-23E, Eddy CountyCity/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111

Fax No: 575-748-4585

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature

e-mail:

acannon@yatespetroleum.com

[illegible]



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 10-11 14:20
Lab ID #: 431275
Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	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>2.0</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 432341

for Yates Petroleum Corporation

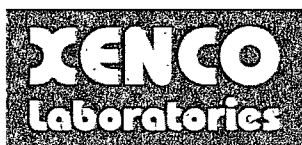
Project Manager: Amber Cannon

Zingaro ANG Federal #1

30-015-27934

09-DEC-11

Collected By: Client



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Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

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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)



09-DEC-11

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

Reference: XENCO Report No: **432341**
Zingaro ANG Federal #1
Project Address: 1-22S-23E, 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 432341. 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.

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We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II

Odessa Laboratory Manager

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Sample Cross Reference 432341



Yates Petroleum Corporation, Artesia, NM

Zingaro ANG Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stock Pile	S	11-29-11 10:50		432341-001
Comp-1'	S	11-29-11 11:00	1 - 1 ft	432341-002



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Zingaro ANG Federal #1



Project ID: 30-015-27934

Report Date: 09-DEC-11

Work Order Number: 432341

Date Received: 11/30/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-876603 BTEX by EPA 8021B
SW8021BM

Batch 876603, 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 432341-002.

1,4-Difluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 432341-002.



Certificate of Analysis Summary 432341

Yates Petroleum Corporation, Artesia, NM

Project Name: Zingaro ANG Federal #1



Project Id: 30-015-27934

Contact: Amber Cannon

Project Location: 1-22S-23E, Eddy County

Date Received in Lab: Wed Nov-30-11 11:07 am

Report Date: 09-DEC-11

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	432341-001	432341-002				
	<i>Field Id:</i>	Stock Pile	Comp-1'				
	<i>Depth:</i>		1-1 ft				
	<i>Matrix:</i>	SOIL	SOIL				
	<i>Sampled:</i>	Nov-29-11 10 50	Nov-29-11 11 00				
BTEX by EPA 8021B	<i>Extracted:</i>	Dec-07-11 09 12	Dec-08-11 11 46				
	<i>Analyzed:</i>	Dec-07-11 19 09	Dec-08-11 14 46				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Benzene		ND 0 513	0 0972 0 0204				
Toluene		19 8 1 03	0 829 0 0408				
Ethylbenzene		39 6 0 513	0 764 0 0204				
m_p-Xylenes		324 1 03	6.16 0 0408				
o-Xylene		91 2 0 513	1 99 0 0204				
Total Xylenes		415 0 513	8.15 0 0204				
Total BTEX		475 0 513	9 84 0 0204				
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-30-11 15.25	Nov-30-11 15 30				
	<i>Units/RL:</i>	% RL	% RL				
Percent Moisture		2.46 1.00	2 08 1.00				
TPH By SW8015B Mod	<i>Extracted:</i>	Dec-06-11 14.30	Dec-06-11 14 30				
	<i>Analyzed:</i>	Dec-06-11 20.31	Dec-06-11 21:03				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
C6-C10 Gasoline Range Hydrocarbons		4660 153	1400 153				
C10-C28 Diesel Range Hydrocarbons		2650 153	1140 153				
Total TPH		7310 153	2540 153				

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.
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- 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.
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- 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.
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* 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 **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

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 12600 West I-20 East, Odessa, TX 79765
 6017 Financial Drive, Norcross, GA 30071
 3725 E Atlanta Ave, Phoenix, AZ 85040

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(432) 563-1800	(432) 563-1713
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(602) 437-0330	

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: Amber Cannon

Project Name: **Zingaro ANG Federal #1**

Company Name Yates Petroleum Corporation

Project #: 30-015-27934

Company Address: 105 South 4th Street

Project Loc: 1-22S-23E, Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111

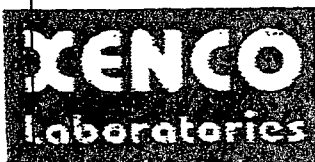
Fax No: 575-748-4585

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cimmer

e-mail: acannon@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		Analyze For										TCLP TOTAL		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	
ORDER #:																																																									
LAB # (lab use only)										FIELD CODE										Beginning Depth		Ending Depth		Date Sampled		Time Sampled		Field Filtered		Total # of Containers		Preservation & # of Containers										Matrix		Analyze For										TCLP TOTAL		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		Preservation & # of Containers										Matrix		Analyze For										TCLP TOTAL		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	
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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: Yates Petroleum
Date/Time: 11-30-11 11:07
Lab ID #: 42334/ 43:2341
Initials: TB

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?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>2.0</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 434396

for Yates Petroleum Corporation

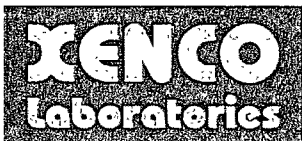
Project Manager: Amber Cannon

Zingaro ANG Federal #1

30-015-27934

13-JAN-12

Collected By: Client



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12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

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

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

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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)



13-JAN-12

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

Reference: XENCO Report No: **434396**
Zingaro ANG Federal #1
Project Address: 1-22S-23E , 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 434396. 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. 434396 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 434396



Yates Petroleum Corporation, Artesia, NM

Zingaro ANG Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stock Pile	S	01-03-12 09:30		434396-001
1.5' Hole	S	01-03-12 09:25	1.5 - 1.5 ft	434396-002



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Zingaro ANG Federal #1



Project ID: 30-015-27934
Work Order Number: 434396

Report Date: 13-JAN-12
Date Received: 01/04/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-878739 BTEX by EPA 8021B
SW8021BM

Batch 878739, 1,4-Difluorobenzene, 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 434396-002.

SW8021BM

Batch 878739, Benzene, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 434396-002, -001.

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

SW8021BM

Batch 878739, Benzene, Toluene RPD was outside QC limits.
Samples affected are: 434396-002, -001

Batch: LBA-878929 TPH By SW8015B Mod
SW8015B_NM

Batch 878929, o-Terphenyl recovered above QC limits Data not confirmed by re-analysis.
Samples affected are: 616483-1-BKS, 616483-1-BLK, 434396-001, 434396-002.



Certificate of Analysis Summary 434396

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-27934

Contact: Amber Cannon

Project Location: 1-22S-23E, Eddy County

Project Name: Zingaro ANG Federal #1

Date Received in Lab: Wed Jan-04-12 08:50 am

Report Date: 13-JAN-12

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	434396-001	434396-002				
	Field Id:	Stock Pile	1 5' Hole				
	Depth:		1 5-1 5 ft				
	Matrix:	SOIL	SOIL				
	Sampled:	Jan-03-12 09 30	Jan-03-12 09 25				
BTEX by EPA 8021B	Extracted:	Jan-09-12 10 01	Jan-09-12 10 01				
	Analyzed:	Jan-09-12 14 44	Jan-09-12 13 14				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		0 0260 0 0218	ND 0 00589				
Toluene		0 0734 0 0437	ND 0 0118				
Ethylbenzene		0 195 0 0218	ND 0 00589				
m_p-Xylenes		2 43 0 0437	0 0564 0 0118				
o-Xylene		1 10 0 0218	0 0213 0 00589				
Total Xylenes		3 53 0 0218	0 0777 0 00589				
Total BTEX		3 82 0 0218	0 0777 0 00589				
Percent Moisture	Extracted:						
	Analyzed:	Jan-04-12 16 30	Jan-04-12 16 30				
	Units/RL:	% RL	% RL				
Percent Moisture		8 25 1 00	14 4 1 00				
TPH By SW8015B Mod	Extracted:	Jan-12-12 14:00	Jan-12-12 14:00				
	Analyzed:	Jan-12-12 22:50	Jan-12-12 23 24				
	Units/RL:	mg/kg RL	mg/kg RL				
C6-C10 Gasoline Range Hydrocarbons		950 163	ND 87 6				
C10-C28 Diesel Range Hydrocarbons		421 163	119 87 6				
Total TPH		1370 163	119 87 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.

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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 **SQL** 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	

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: Amber Cannon

Project Name: **Zingaro ANG Federal #1**

Company Name Yates Petroleum Corporation

Project #: 30-015-27934

Company Address: 105 South 4th Street

Project Loc: 1-22S-23E, Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111

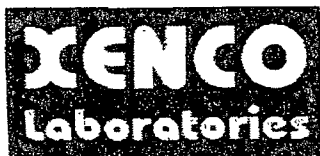
Fax No: 575-748-4585

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: acannon@yatespetroleum.com

[illegible]

**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 Petroleum

Date/Time:

13 MAR 14 12 05:30

Lab ID #:

434396

Initials:

WR LAC**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>25</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