

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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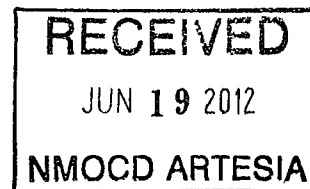
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CHIEF ADMINISTRATIVE OFFICER

June 19, 2012

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



Re Cigarillo SWD #1
30-015-21643
Section 36, T23S-R27E
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 July 24, 2011 (2RP-849). Six (6) inches of impacted soils on the production pad and in the field to the west of the battery were excavated and hauled to an NMOCD approved facility. Vertical and horizontal delineation samples were taken and sent to an NMOCD approved laboratory. Enclosed are the analytical reports, results show TPH and BTEX, to be below RRAL's, based on a site ranking of ten (depth to ground water recorded at 67' per NMOSE, Section 35, T23S-R27E), however analytical results show elevated chloride levels.

The release was 380 barrels of produced water and 367 barrels of that produced water was recovered by a vacuum truck. The amount of produced water lost was 13 barrels. The release covered such a large surface area (14,250 feet²) that there was no way that it could have traveled down to the six (6) feet that still show evidence of elevated chlorides in section one (1) of the release (shown on site diagram attached).

On May 23, 2012 I visited the location to determine what course of action to take for section one (1) of this release due to the elevated chloride levels. During the course of my inspection, I noticed old pit liner starting to come up through the ground and decided further investigation was needed for this location. I returned to the office to investigate this well, and I found that the well was originally drilled in 1975 and then plugged and abandoned by Coquina Oil Corporation. It was then bought by Marbob Energy Corporation who re-entered it in 1977 and then plugged and abandoned it soon after the same year. It has been determined that section one (1) of the current release occurred over an old drilling pit that was left and buried from one of the former owners, Coquina or Marbob. This pit was determined to be a legacy pit, and due to current standards we are not obligated to excavate the legacy drilling pits.

Yates Petroleum Corporation requests closure based on impacted soils excavated/hauled and analytical results, and the findings of a legacy drilling pit.

If you have any questions, please call me at 575-748-4111

Thank you

YATES PETROLEUM CORPORATION

A handwritten signature in black ink that reads "Amber Cannon". The script is cursive and fluid, with the first letters of the first and last names being capitalized and prominent.

Amber Cannon
Environmental Regulatory Agent

/anc

Enclosure(s)

Cigarillo SWD #1

Analytical Report-426981 & 426978	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides	
Comp-#1	Release Area	8/30/2011	Comp/Shovel	Surface	0 0270	30 7	1500	1530	27,400	Excavated
Comp-#2	Release Area	8/30/2011	Comp/Shovel	Surface	ND	ND	39 3	39 3	15,700	Excavated
Comp-#3	Release Area	8/30/2011	Comp/Shovel	Surface	ND	ND	802	802	17,700	Excavated
Comp-#4	Release Area	8/30/2011	Comp/Shovel	Surface	ND	ND	745	745	15,300	Excavated

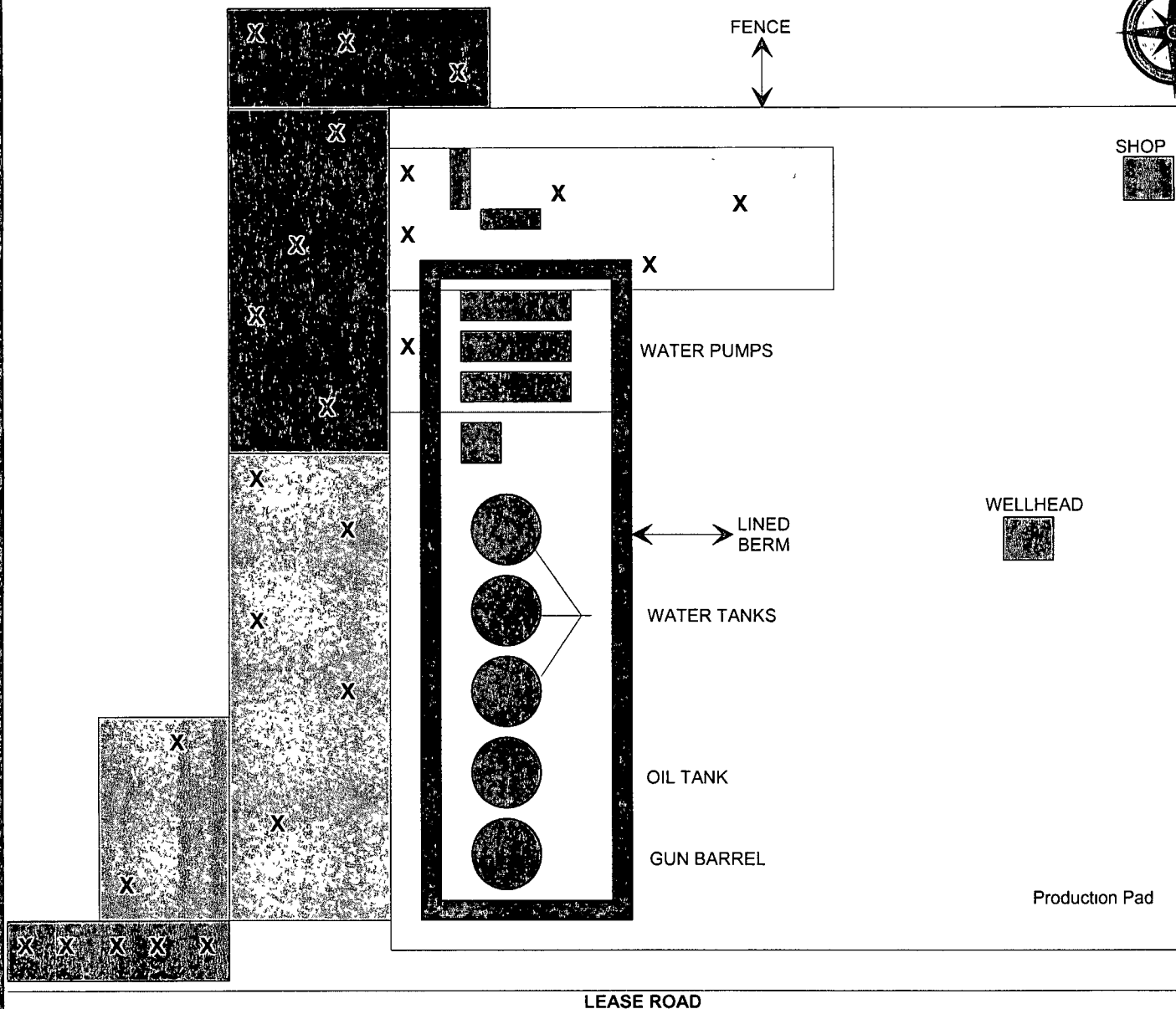
Analytical Report-430158 & 430159	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Grab 1-1	Release Area	10/24/2011	Grab/Backhoe	1'	ND	ND	ND	ND	7,280
Grab 1-2	Release Area	10/24/2011	Grab/Backhoe	2'	ND	ND	ND	ND	6,510
Grab 1-3	Release Area	10/24/2011	Grab/Backhoe	3'	ND	ND	ND	ND	5,570
Grab 2-1	Release Area	10/24/2011	Grab/Backhoe	1'	N/A	N/A	N/A	N/A	2,700
Grab 2-2	Release Area	10/24/2011	Grab/Backhoe	2'	N/A	N/A	N/A	N/A	3,770
Grab 2-3	Release Area	10/24/2011	Grab/Backhoe	3'	N/A	N/A	N/A	N/A	3,830
Grab 3-1	Release Area	10/24/2011	Grab/Backhoe	1'	N/A	N/A	N/A	N/A	1,690
Grab 3-2	Release Area	10/24/2011	Grab/Backhoe	2'	N/A	N/A	N/A	N/A	2,640
Grab 3-3	Release Area	10/24/2011	Grab/Backhoe	3'	N/A	N/A	N/A	N/A	2,220
Grab 4-1	Release Area	10/24/2011	Grab/Backhoe	1'	N/A	N/A	N/A	N/A	1,650
Grab 4-2	Release Area	10/24/2011	Grab/Backhoe	2'	N/A	N/A	N/A	N/A	1,100
Grab 4-3	Release Area	10/24/2011	Grab/Backhoe	3'	N/A	N/A	N/A	N/A	486

Analytical Report-432252	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Grab 1-1	Release Area	11/2/2011	Grab/Backhoe	4'	N/A	N/A	N/A	N/A	4,730
Grab 1-2	Release Area	11/2/2011	Grab/Backhoe	5'	N/A	N/A	N/A	N/A	4,890
Grab 1-3	Release Area	11/2/2011	Grab/Backhoe	6'	N/A	N/A	N/A	N/A	4,890
Grab 2-1	Release Area	11/2/2011	Grab/Backhoe	4'	N/A	N/A	N/A	N/A	3,890
Grab 2-2	Release Area	11/2/2011	Grab/Backhoe	5'	N/A	N/A	N/A	N/A	1,720
Grab 2-3	Release Area	11/2/2011	Grab/Backhoe	6'	N/A	N/A	N/A	N/A	1,270
Grab 3-1	Release Area	11/23/2011	Grab/Backhoe	4'	N/A	N/A	N/A	N/A	443
Grab 3-2	Release Area	11/23/2011	Grab/Backhoe	5'	N/A	N/A	N/A	N/A	497
Grab 3-3	Release Area	11/23/2011	Grab/Backhoe	6'	N/A	N/A	N/A	N/A	1,620

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 67', Section 35-23S-27E, per NMOSE)

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

Released 380 B/PW, Recovered 367 B/PW Release Date 7/24/2011



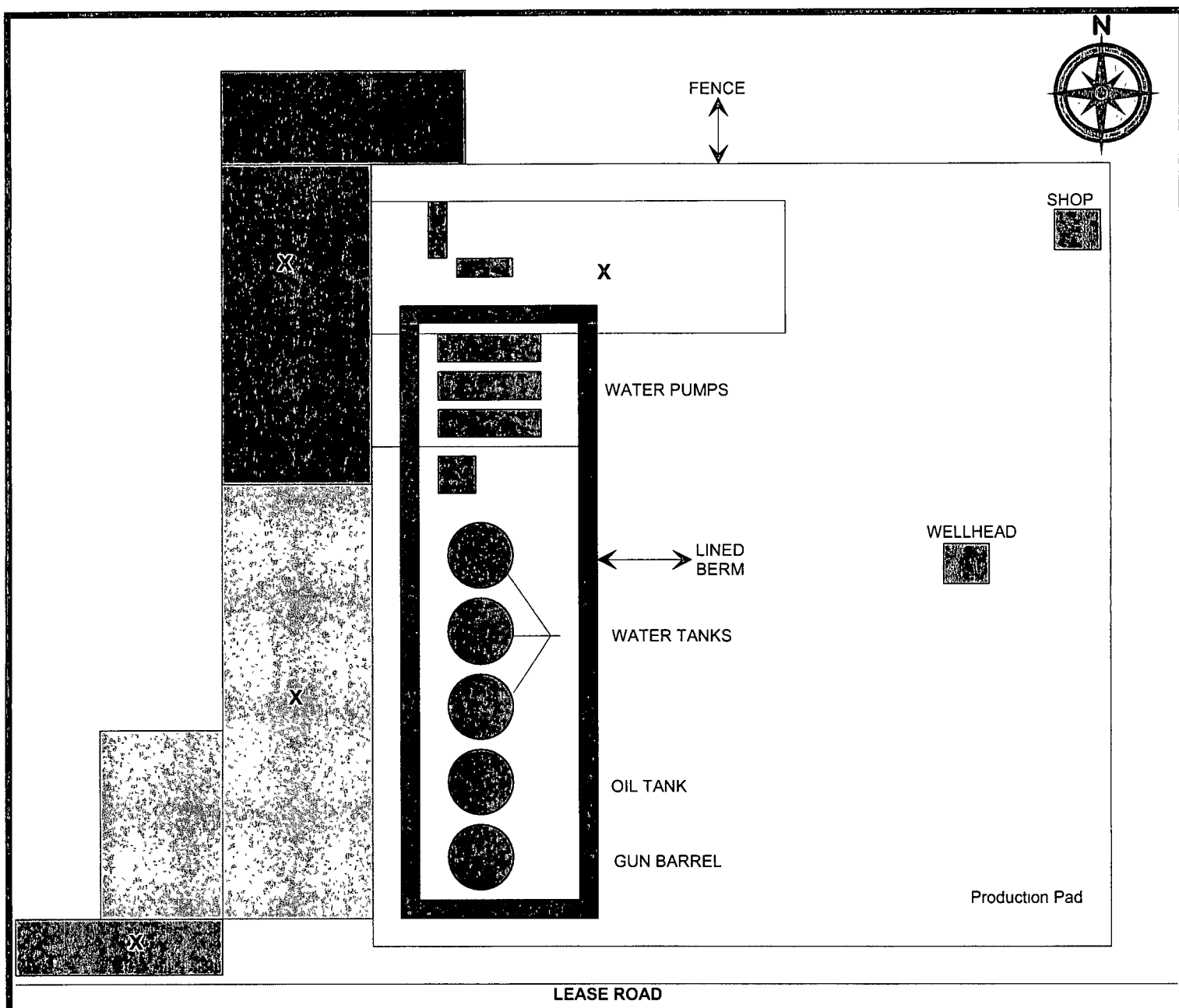
LEASE ROAD



Cigarillo SWD #1
30-015-21643
Section 36, T23S-R27E
Eddy County, NM

SAMPLE DIAGRAM(Not to Scale)

Prepared by Amber Cannon
Environmental Regulatory Agent



Cigarillo SWD #1
30-015-21643
Section 36, T23S-R27E
Eddy County, NM

SAMPLE DIAGRAM(Not to Scale)
Xenco Laboratories# 430158 & 430159 & 432252
Report Date: 11/1/2011 & 12/1/2011
Prepared by Amber Cannon
Environmental Regulatory Agent

Analytical Report 426981

for Yates Petroleum Corporation

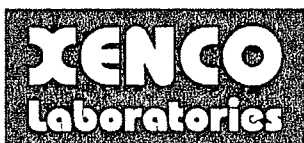
Project Manager: Amber Cannon

Cigarillo SWD #1

30-015-21643

08-SEP-11

Collected By: Client



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12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046):

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

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

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



08-SEP-11

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

Reference: XENCO Report No: **426981**
Cigarillo SWD #1
Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 426981. 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. 426981 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 426981



Yates Petroleum Corporation, Artesia, NM

Cigarillo SWD #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-#1	S	08-30-11 09:33	2 - 2 In	426981-001
Comp-#2	S	08-30-11 09:45	2 - 2 In	426981-002
Comp-#3	S	08-30-11 09:55	2 - 2 In	426981-003
Comp-#4	S	08-30-11 10:06	2 - 2 In	426981-004



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Cigarillo SWD #1



Project ID. 30-015-21643

Work Order Number: 426981

Report Date: 08-SEP-11

Date Received: 09/02/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 426981

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-21643

Contact: Amber Cannon

Project Location: Eddy County

Project Name: Cigarillo SWD #1

Date Received in Lab: Fri Sep-02-11 08 00 am


Report Date: 08-SEP-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	426981-001	426981-002	426981-003	426981-004		
	Field Id:	Comp-#1	Comp-#2	Comp-#3	Comp-#4		
	Depth:	2-2 In	2-2 In	2-2 In	2-2 In		
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	Aug-30-11 09 33	Aug-30-11 09 45	Aug-30-11 09 55	Aug-30-11 10 06		
Anions by E300	Extracted:						
	Analyzed:	Sep-07-11 19 40	Sep-07-11 19 40	Sep-07-11 19 40	Sep-07-11 19 40		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		27400 852	15700 420	17700 423	15300 423		
Percent Moisture	Extracted:						
	Analyzed:	Sep-02-11 10 00	Sep-02-11 10 00	Sep-02-11 10 00	Sep-02-11 10 00		
	Units/RL:	% RL	% RL	% RL	% RL		
Percent Moisture		1 45 1 00	ND 1 00	ND 1 00	ND 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.

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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 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

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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	

**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-InClient: YatesDate/Time: 9-2-11 8:00Lab ID #: 426978 / 426981-C1Initials: SM**Sample Receipt Checklist**

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 4.1 °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 426978

for Yates Petroleum Corporation

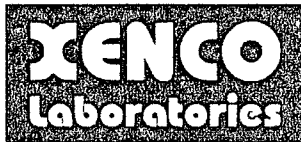
Project Manager: Amber Cannon

Cigarillo SWD #1

30-015-21643

08-SEP-11

Collected By: Client



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

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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)



08-SEP-11

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

Reference: XENCO Report No: **426978**
Cigarillo SWD #1
Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 426978. 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 426978



Yates Petroleum Corporation, Artesia, NM

Cigarillo SWD #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-#1	S	08-30-11 09:33	2 - 2 In	426978-001
Comp-#2	S	08-30-11 09:45	2 - 2 In	426978-002
Comp-#3	S	08-30-11 09:55	2 - 2 In	426978-003
Comp-#4	S	08-30-11 10:06	2 - 2 In	426978-004



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Cigarillo SWD #1



Project ID: 30-015-21643

Work Order Number: 426978

Report Date: 08-SEP-11

Date Received: 09/02/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-869210 BTEX by EPA 8021B
SW8021BM

Batch 869210, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 426978-004, -002, -001, -003.

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

Batch: LBA-869330 TPH By SW8015B Mod
SW8015B_NM

Batch 869330, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 426978-004, -002, -001, -003.

The Laboratory Control Sample for C6-C10 Gasoline Range Hydrocarbons is within laboratory Control Limits



Certificate of Analysis Summary 426978

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-21643

Contact: Amber Cannon

Project Location: Eddy County

Project Name: Cigarillo SWD #1

Date Received in Lab: Fri Sep-02-11 08 00 am


Report Date: 08-SEP-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	426978-001	426978-002	426978-003	426978-004		
	Field Id:	Comp-#1	Comp-#2	Comp-#3	Comp-#4		
	Depth:	2-2 In	2-2 In	2-2 In	2-2 In		
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	Aug-30-11 09 33	Aug-30-11 09 45	Aug-30-11 09 55	Aug-30-11 10 06		
BTEX by EPA 8021B	Extracted:	Sep-02-11 12 00	Sep-02-11 12 00	Sep-02-11 12 00	Sep-02-11 12 00		
	Analyzed:	Sep-03-11 14 36	Sep-03-11 08 52	Sep-03-11 09 15	Sep-03-11 09 38		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		ND 0 00101	ND 0 000992	ND 0 00101	ND 0 00100		
Toluene		ND 0 00201	ND 0 00198	ND 0 00201	ND 0 00200		
Ethylbenzene		0 00286 0 00101	ND 0 000992	ND 0 00101	ND 0 00100		
m_p-Xylenes		0 0168 0 00201	ND 0 00198	ND 0 00201	ND 0 00200		
o-Xylene		0 00732 0 00101	ND 0 000992	ND 0 00101	ND 0 00100		
Total Xylenes		0 0241 0 00101	ND 0 000992	ND 0 00101	ND 0 00100		
Total BTEX		0 0270 0 00101	ND 0 000992	ND 0 00101	ND 0 00100		
Percent Moisture	Extracted:	Sep-02-11 10 00	Sep-02-11 10 00	Sep-02-11 10 00	Sep-02-11 10 00		
	Analyzed:	Sep-02-11 10 00	Sep-02-11 10 00	Sep-02-11 10 00	Sep-02-11 10 00		
	Units/RL:	% RL	% RL	% RL	% RL		
Percent Moisture		1 45 1 00	ND 1 00	ND 1 00	ND 1 00		
TPH By SW8015B Mod	Extracted:	Sep-02-11 14 30	Sep-02-11 14 30	Sep-02-11 14 30	Sep-02-11 14 30		
	Analyzed:	Sep-03-11 16 11	Sep-03-11 16 42	Sep-03-11 17 13	Sep-03-11 17 44		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
C6-C10 Gasoline Range Hydrocarbons		30 7 15 1	ND 15 0	ND 15 1	ND 15 1		
C10-C28 Diesel Range Hydrocarbons		1500 15 1	39 3 15 0	802 15 1	745 15 1		
Total TPH		1530 15 1	39 3 15 0	802 15 1	745 15 1		

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

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Brent Barron II
Odessa Laboratory Manager



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference Dilution factors are included in the final results The result is from a diluted sample.
- E** The data exceeds the upper calibration limit, therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte The department supervisor and QA Director reviewed data The samples were either reanalyzed or flagged as estimated concentrations
- H** The LCS data for this analytical batch was reported above the laboratory control limits Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample

BRL Below Reporting Limit

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation

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 5757 NW 158th St, Miami Lakes, FL 33014
 12600 West I-20 East, Odessa, TX 79765
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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	

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: Amber Cannon

Project Name: Cigarillo SWD #1

Company Name: Yates Petroleum Corporation

Project #: 30-015-21643

Company Address: 105 South 4th Street

Project Loc: 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 Cannon

e-mail: acannon@yatespetroleum.com

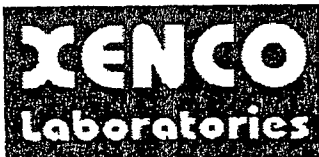
(lab use only)		Analyze For	
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth
001	Comp-#1	2"	2"
002	Comp-#2	2"	2"
003	Comp-#3	2"	2"
004	Comp-#4	2"	2"
PLEASE PUT CHLORIDES ON SEPARATE REPORT			

TCLP TOTAL		Matrix	
TPH 418.1	TPH 1005	TPH 1006	TPH 1007
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X

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

Relinquished by	Date	Time	Received by	Date	Time
<u>Amber Cannon</u>	09/01/11	3:30 PM			

Laboratory Comments:
 Sample Containers Intact? Y
 VOCs Free of Headspace? Y
 Labels on container(s) Y
 Custody seals on container(s) Y
 Custody seals on cooler(s) Y
 Sample Hand Delivered by Sampler/Client Rep? Y
 by Courier? UPS DHL FedEx Lone Star
 Temperature Upon Receipt 4.1 °C



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
Date/Time: 9-2-11 8:00
Lab ID #: 426978/426981-C1
Initials: SL

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>4.1</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 430158

for Yates Petroleum Corporation

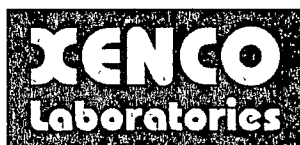
Project Manager: Amber Cannon

Cigarillo SWD # 1

30-015-21643

01-NOV-11

Collected By: Client



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Xenco-Houston (EPA Lab code: TX00122):

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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)

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)



01-NOV-11

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

Reference: XENCO Report No: **430158**
Cigarillo SWD # 1
Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 430158. 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. 430158 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 430158



Yates Petroleum Corporation, Artesia, NM

Cigarillo SWD # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Grab 1-1	S	10-24-11 09:30	1 - 1 ft	430158-001
Grab 1-2	S	10-24-11 09:35	2 - 2 ft	430158-002
Grab 1-3	S	10-24-11 09:40	3 - 3 ft	430158-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Cigarillo SWD # 1



Project ID: 30-015-21643
Work Order Number: 430158

Report Date: 01-NOV-11
Date Received: 10/25/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-873287 BTEX by EPA 8021B
SW8021BM

Batch 873287, Benzene, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 430158-003, -001, -002.

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

Batch: LBA-873378 TPH By SW8015B Mod
SW8015B_NM

Batch 873378, C6-C10 Gasoline Range Hydrocarbons recovered slightly below QC limits in the Blank Spike and Duplicate.

Samples affected are: 430158-003, -001, -002. This is most likely due to an analyst spiking error. The Matrix Spike sample for this batch was within QC limits, therefore the data are reported as analyzed.

SW8015B_NM

Batch 873378, o-Terphenyl recovered below QC limits Data not confirmed by re-analysis.

Samples affected are: 613303-1-BSD.

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

Samples affected are: 430158-003 S, 430158-003 SD.



Certificate of Analysis Summary 430158

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-21643

Contact: Amber Cannon

Project Location: Eddy County

Project Name: Cigarillo SWD # 1

Date Received in Lab: Tue Oct-25-11 08 40 am

Report Date: 01-NOV-11

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	430158-001	430158-002	430158-003			
	<i>Field Id:</i>	Grab 1-1	Grab 1-2	Grab 1-3			
	<i>Depth:</i>	1-1 ft	2-2 ft	3-3 ft			
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Oct-24-11 09:30	Oct-24-11 09:35	Oct-24-11 09:40			
BTEX by EPA 8021B	<i>Extracted:</i>	Oct-26-11 15:45	Oct-26-11 15:45	Oct-26-11 15:45			
	<i>Analyzed:</i>	Oct-26-11 22:55	Oct-26-11 23:18	Oct-26-11 23:41			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		ND 0.00111	ND 0.00109	ND 0.00110			
Toluene		ND 0.00223	ND 0.00218	ND 0.00220			
Ethylbenzene		ND 0.00111	ND 0.00109	ND 0.00110			
m_p-Xylenes		ND 0.00223	ND 0.00218	ND 0.00220			
o-Xylene		ND 0.00111	ND 0.00109	ND 0.00110			
Total Xylenes		ND 0.00111	ND 0.00109	ND 0.00110			
Total BTEX		ND 0.00111	ND 0.00109	ND 0.00110			
Percent Moisture	<i>Extracted:</i>	Oct-25-11 14:35	Oct-25-11 14:35	Oct-25-11 14:35			
	<i>Analyzed:</i>	Oct-25-11 14:35	Oct-25-11 14:35	Oct-25-11 14:35			
	<i>Units/RL:</i>	% RL	% RL	% RL			
Percent Moisture		10.3 1.00	9.15 1.00	9.62 1.00			
TPH By SW8015B Mod	<i>Extracted:</i>	Oct-27-11 15:45	Oct-27-11 15:45	Oct-27-11 15:45			
	<i>Analyzed:</i>	Oct-27-11 20:24	Oct-27-11 20:56	Oct-27-11 21:27			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C10 Gasoline Range Hydrocarbons		ND 16.7	ND 16.4	ND 16.6			
C10-C28 Diesel Range Hydrocarbons		ND 16.7	ND 16.4	ND 16.6			
Total TPH		ND 16.7	ND 16.4	ND 16.6			

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 **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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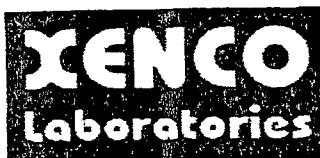
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(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

**XENCO Laboratories**

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

Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client:

Yates Petroleum

Date/Time:

10-24-11 15:30 10-25-11 8:40

Lab ID #:

430158 / 430159

Initials:

WR / NE**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	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 30 °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 430159

for Yates Petroleum Corporation

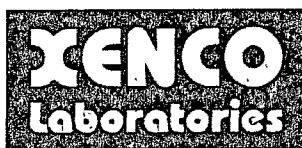
Project Manager: Amber Cannon

Cigarillo SWD # 1

30-015-21643

01-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)



Sample Cross Reference 430159



Yates Petroleum Corporation, Artesia, NM

Cigarillo SWD # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Grab 1-1	S	10-24-11 09:30	1 - 1 ft	430159-001
Grab 1-2	S	10-24-11 09:35	2 - 2 ft	430159-002
Grab 1-3	S	10-24-11 09:40	3 - 3 ft	430159-003
Grab 2-1	S	10-24-11 09:45	1 - 1 ft	430159-004
Grab 2-2	S	10-24-11 09:50	2 - 2 ft	430159-005
Grab 2-3	S	10-24-11 09:55	3 - 3 ft	430159-006
Grab 3-1	S	10-24-11 10:00	1 - 1 ft	430159-007
Grab 3-2	S	10-24-11 10:05	2 - 2 ft	430159-008
Grab 3-3	S	10-24-11 10:10	3 - 3 ft	430159-009
Grab 4-1	S	10-24-11 10:15	1 - 1 ft	430159-010
Grab 4-2	S	10-24-11 10:20	2 - 2 ft	430159-011
Grab 4-3	S	10-24-11 10:25	3 - 3 ft	430159-012



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Cigarillo SWD # 1



Project ID: 30-015-21643

Work Order Number: 430159

Report Date: 01-NOV-11

Date Received: 10/25/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 430159

Yates Petroleum Corporation, Artesia, NM

Project Name: Cigarillo SWD # 1



Project Id: 30-015-21643

Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Tue Oct-25-11 08:40 am

Report Date: 01-NOV-11

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	430159-001	430159-002	430159-003	430159-004	430159-005	430159-006
	<i>Field Id:</i>	Grab 1-1	Grab 1-2	Grab 1-3	Grab 2-1	Grab 2-2	Grab 2-3
	<i>Depth:</i>	1-1 ft	2-2 ft	3-3 ft	1-1 ft	2-2 ft	3-3 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Oct-24-11 09 30	Oct-24-11 09 35	Oct-24-11 09 40	Oct-24-11 09 45	Oct-24-11 09 50	Oct-24-11 09 55
Anions by E300	<i>Extracted:</i>	Oct-26-11 11 50	Oct-26-11 11 50	Oct-26-11 11 50	Oct-26-11 11 50	Oct-26-11 11 50	Oct-26-11 11 50
	<i>Analyzed:</i>	Oct-26-11 11 50	Oct-26-11 11 50	Oct-26-11 11 50	Oct-26-11 11 50	Oct-26-11 11 50	Oct-26-11 11 50
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		7280 187	6510 185	5570 92 9	2700 46 5	3770 46 9	3830 46 8
Percent Moisture	<i>Extracted:</i>	Oct-25-11 14 35	Oct-25-11 14 35	Oct-25-11 14.35	Oct-25-11 15 50	Oct-25-11 15 50	Oct-25-11 15 50
	<i>Analyzed:</i>	Oct-25-11 14 35	Oct-25-11 14 35	Oct-25-11 14.35	Oct-25-11 15 50	Oct-25-11 15 50	Oct-25-11 15 50
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		10 3 1 00	9 15 1 00	9 60 1 00	9 74 1 00	10 5 1 00	10 3 1 00

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Brent Barron II
Odessa Laboratory Manager



Certificate of Analysis Summary 430159

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-21643

Contact: Amber Cannon

Project Location: Eddy County

Project Name: Cigarillo SWD # 1

Date Received in Lab: Tue Oct-25-11 08 40 am

Report Date: 01-NOV-11

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	430159-007	430159-008	430159-009	430159-010	430159-011	430159-012
	<i>Field Id:</i>	Grab 3-1	Grab 3-2	Grab 3-3	Grab 4-1	Grab 4-2	Grab 4-3
	<i>Depth:</i>	1-1 ft	2-2 ft	3-3 ft	1-1 ft	2-2 ft	3-3 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Oct-24-11 10 00	Oct-24-11 10 05	Oct-24-11 10 10	Oct-24-11 10 15	Oct-24-11 10 20	Oct-24-11 10 25
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-26-11 11 50	Oct-26-11 11 50	Oct-26-11 11 50	Oct-26-11 21 25	Oct-26-11 11 50	Oct-26-11 11 50
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1690 45 7	2640 45 8	2220 46 1	1650 22 6	1100 18 2	486 9 11
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-25-11 15 50	Oct-25-11 15 50	Oct-25-11 15 50	Oct-25-11 15 50	Oct-25-11 15 50	Oct-25-11 15 50
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		8 04 1 00	8 32 1 00	8 84 1 00	7 03 1 00	7 51 1 00	7 78 1 00

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Brent Barron II
Odessa Laboratory Manager



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time
- JN** A combination of the "N" and the "J" qualifier The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

* 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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 12600 West I-20 East, Odessa, TX 79765
 6017 Financial Drive, Norcross, GA 30071
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(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: Cigarillo SWD #1

Company Name Yates Petroleum Corporation

Project #: 30-015-21643

Company Address. 105 South 4th Street

Project Loc 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

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										RUSH TAT (Pre-Schedule) 24, 48, 72 hrs									
ORDER #: 430158/430159																																																																							

**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

Prelog / Nonconformance Report - Sample Log-In

Client:

Yates Petroleum

Date/Time:

10-24-11 15:30 10-25-11 8:40

Lab ID #:

430158 / 430159

Initials:

WR / NE**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 30 °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 432252

for
Yates Petroleum Corporation

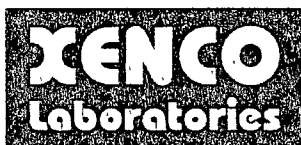
Project Manager: Amber Cannon

Cigarillo SWD # 1

30-015-21643

01-DEC-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)

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

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



01-DEC-11

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

Reference: XENCO Report No: **432252**
Cigarillo SWD # 1
Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 432252. 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. 432252 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 432252



Yates Petroleum Corporation, Artesia, NM

Cigarillo SWD # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Grab 1-4	S	11-02-11 09:00	4 - 4 ft	432252-001
Grab 1-5	S	11-02-11 09:05	5 - 5 ft	432252-002
Grab 1-6	S	11-02-11 09:10	6 - 6 ft	432252-003
Grab 2-4	S	11-02-11 09:15	4 - 4 ft	432252-004
Grab 2-5	S	11-02-11 09:20	5 - 5 ft	432252-005
Grab 2-6	S	11-02-11 09:25	6 - 6 ft	432252-006
Grab 3-4	S	11-23-11 09:20	4 - 4 ft	432252-007
Grab 3-5	S	11-23-11 09:25	5 - 5 ft	432252-008
Grab 3-6	S	11-23-11 09:30	6 - 6 ft	432252-009



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Cigarillo SWD # 1

Project ID: 30-015-21643

Work Order Number: 432252

Report Date: 01-DEC-11

Date Received: 11/29/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 432252

Yates Petroleum Corporation, Artesia, NM

Project Name: Cigarillo SWD # 1



Project Id: 30-015-21643

Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Tue Nov-29-11 12.15 pm

Report Date: 01-DEC-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	432252-001	432252-002	432252-003	432252-004	432252-005	432252-006
	Field Id:	Grab 1-4	Grab 1-5	Grab 1-6	Grab 2-4	Grab 2-5	Grab 2-6
	Depth:	4-4 ft	5-5 ft	6-6 ft	4-4 ft	5-5 ft	6-6 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-02-11 09 00	Nov-02-11 09 05	Nov-02-11 09 10	Nov-02-11 09 15	Nov-02-11 09 20	Nov-02-11 09.25
Anions by E300	Extracted:						
	Analyzed:	Nov-29-11 17 45	Nov-29-11 17 45	Nov-29-11 17 45	Nov-29-11 17 45	Nov-29-11 17 45	Nov-29-11 17 45
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		4730 92 9	4890 92 7	4890 92 6	3890 47 2	1720 23 4	1270 19 2
Percent Moisture	Extracted:						
	Analyzed:	Nov-29-11 14 55	Nov-29-11 14 55	Nov-29-11 14 56	Nov-29-11 14 56	Nov-29-11 14 56	Nov-29-11 14 56
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		9 60 1 00	9 40 1 00	9 32 1 00	11 0 1 00	10 3 1 00	12 3 1 00

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Brent Barron II
Odessa Laboratory Manager



Certificate of Analysis Summary 432252

Yates Petroleum Corporation, Artesia, NM

Project Name: Cigarillo SWD # 1



Project Id: 30-015-21643

Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Tue Nov-29-11 12 15 pm

Report Date: 01-DEC-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	432252-007	432252-008	432252-009			
	Field Id:	Grab 3-4	Grab 3-5	Grab 3-6			
	Depth:	4-4 ft	5-5 ft	6-6 ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Nov-23-11 09 20	Nov-23-11 09 25	Nov-23-11 09 30			
Anions by E300	Extracted:						
	Analyzed:	Nov-29-11 17 45	Nov-29-11 17 45	Nov-29-11 17 45			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		443 18 6	497 51 3	1620 49 2			
Percent Moisture	Extracted:						
	Analyzed:	Nov-29-11 14 56	Nov-29-11 14 56	Nov-29-11 14 56			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		9 57 1 00	18 1 1 00	14 6 1 00			

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Brent Barron II
Odessa Laboratory Manager

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. **Cigarillo SWD #1**

Company Name Yates Petroleum Corporation

Project #: 30-015-21643

Company Address 105 South 4th Street

Project Loc. Eddy County

City/State/Zip Artesia, NM 88210

PO # 1032020

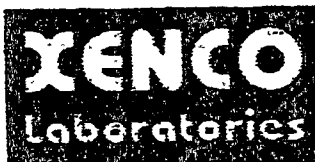
Telephone No 575-748-4111 Fax No 575-748-4585

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Ann

e-mail: acannon@yatespetroleum.com

[illegible]



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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: 11/29/11 12:15
Lab ID #: 432252
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 14.5	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