MARTIN YATES, III

FRANK W YATES 1936-1986

S P YATES

Re



105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

JOHN A YATES

JOHN A YATES JR

SCOTT M YATES

JAMES S BROWN CHIEF OPERATING OFFICER

JOHN D PERINI CHIEF FINANCIAL OFFICER

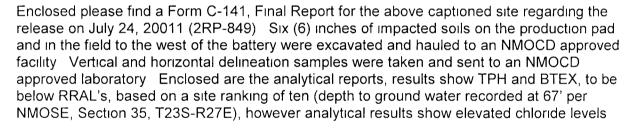
JORGE S MENDOZA
CHIEF ADMINISTRATIVE OFFICER

June 19, 2012

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

> Cigarillo SWD #1 30-015-21643 Section 36, T23S-R27E Eddy County, New Mexico

Dear Mr Bratcher,



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

RECEIVED
JUN 1 9 2012
NMOCD ARTESIA

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

Thank you

YATES PETROLEUM CORPORATION

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
@omp:#/2	Release Area	8/80/2011	Comp/Shovel	Surface.	מא	ND	39.3	89.8	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

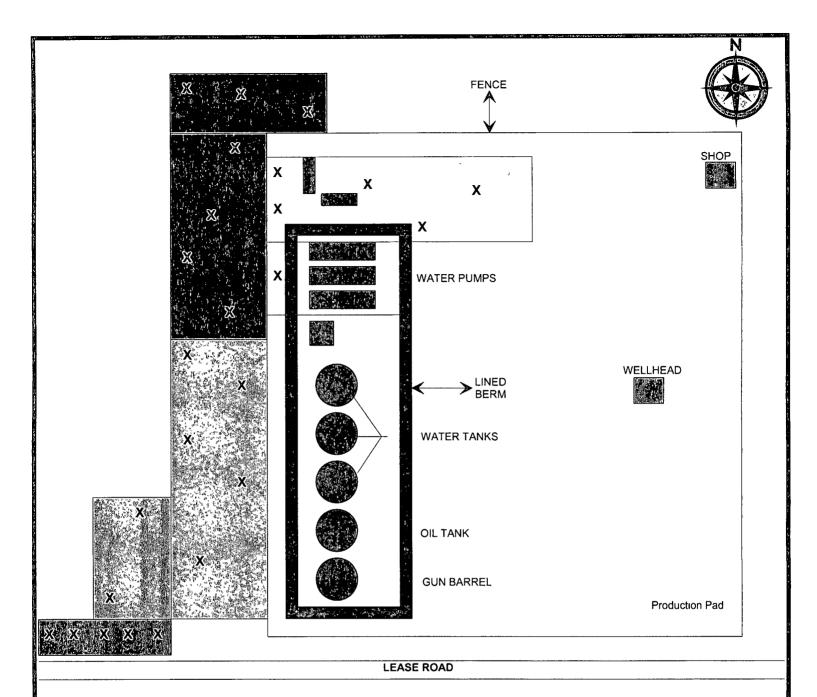
Analytical Report- 430158 & 430159	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Grab 1-1	Release Area	10/24/2011	Grab/Backhoe	1'	ND	ND	ND	ND	7,280
Grab 1-2	Release Area	10/24/2011	Grab/Backhoe	2'	ND	ND	ND	ND	6,510
Grab 1-3	Release Area	10/24/2011	Grab/Backhoe	3'	ND	ND	ND	ND	5,570
. Gab2⊭1-	Release Area	10/24/2011	Grab/Backhoe	ĵ.	NVA	NVA.	ΝA	N/A.	2,700
Grab2±2	Release Area	10/24/2011	Grab/Backhoe	2	nya.	N/A	N/A	N/A	3,7770
Grab 2-3	Release/Area	10/24/2011	Grab/Backhoe	3	NVA	N/A	N/A	NVA	3,830
ິGrab 3-1 - ¹ - ເ	, 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' مع د م ^و	Ņ/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±i	Release Area	11/2/2011	: Grab/Backhoe	4	N/A	N/A	ΝA	žZA	3,890
Grab 2+2 ::	Release Area	111/2/2011	Grab/Backhoe	~ '5' ·	NØA -	NWAY.	N/A	N Z A	1,7/20
Grab 2≓3	Release Area	11//2/2011	Grab/Backhoe	ී	NVA	nma.	NVA	N 7 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	Reléase Area	·* 11/23/2011 ·	Grab/Backhoe:∴	5' + _ [*] ²	N/A	N/A	N/A	N/A	497
, Grab 3-3	Release Area	- 1 <u>1</u> /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





Cigarillo SWD #1

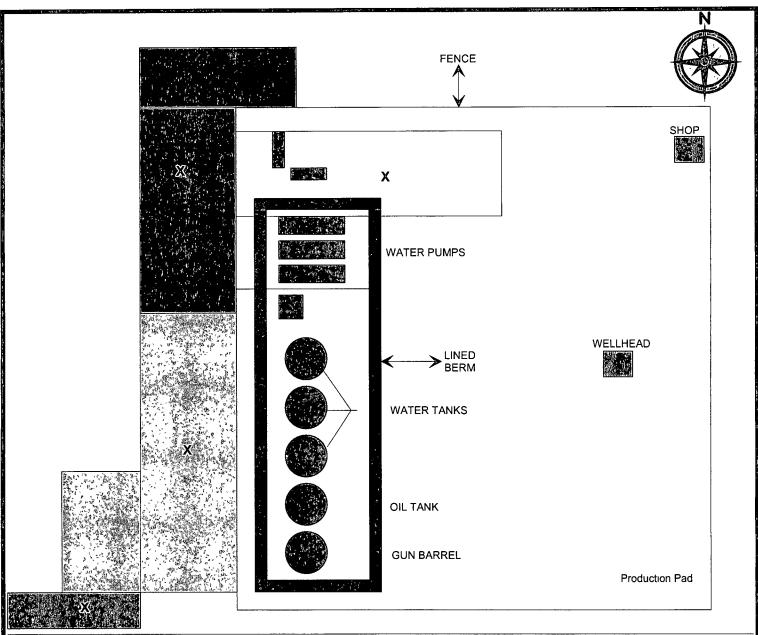
30-015-21643

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



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arızona (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)
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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: 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

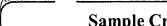
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Sample Cross Reference 426981

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

Final 1 000



Certificate of Analysis Summary 426981

Yates Petroleum Corporation, Artesia, NM





Project Id: 30-015-21643

Project Location: Eddy County

Contact: Amber Cannon

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

Report Date: 08-SEP-11

roject Location: Eddy County											
								Project Mar	ager:	Brent Barron II	
	Lab Id:	426981-0	01	426981-0	02	426981-0	03	426981-0	04		
Analysis Dogwood	Field Id:	Comp-#	1	Comp-#2	2	Comp-#3	3	Comp-#	4		
Analysis Requested	Depth:	2-2 In		2-2 In	i	2-2 In		2-2 In			
	Matrix:	SOIL	ŀ	SOIL		SOIL		SOIL			
	Sampled:	Aug-30-11 (09 33	Aug-30-11 (9 45	Aug-30-11 0	9 55	Aug-30-11	10 06		
Anions by E300	Extracted:										
	Analyzed:	Sep-07-11	19 40	Sep-07-11 1	9 40	Sep-07-11 1	9 40	Sep-07-11 1	9 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 1	0 00	Sep-02-11 1	0 00	Sep-02-11 1	0 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 hability 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 quantiation limit and above the detection limit
- U Analyte was not detected
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analytic. 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

POL 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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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														_	Pro	ject	Nan	ne: _	Cig	aril	llo S	<u>W</u>	D#	1_					
	Company Name	Yates Petroleum Corpora	ition													_		Pro	ojeci	t #: _	30-0	115-2	2164	3							
	Company Address.	105 South 4th Street														-	P	roje	ct Lo	oc <u>[</u>	Eddy	Cou	inty								
	City/State/Zip	Artesia, NM 88210						, 								-			PO	#: _1	1032	020									
	Telephone No:	575-748-4111				_ Fax No		575	5-748	3-45	85					R	eport	ı For	mat:	. [×s	itand	ard			TRR	ťΡ		NPI	DES	
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1	2#: 426978/	1426981								>rese	rvation	n & #	of Cr	ontaine	ers	Ma	atrix	85	— []	 T	TOTA	4	1	H						3, 72 hrs	
LAB # (lab use only)		LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Fütered	Total # of Containers	lce	HNO ₃	무	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	Other (Specify)		GW = Groundwater S=Sol/Solid NP=Non-Potable Specify Other	TPH 4181 8015M 8015B	1 [Cations (Ca, Mg. Na, K)	Anions (Ct, SO4, Alkatinity)	SAR / ESP / CEC Metals As An Ba Cd Cr Ph Hr Se	Volatiles	Semivolatiles	BTEX 80218/5030 or BTEX 8260	RCI	NORM	Chlorides		RUSH TAT (Pre-Schedule) 24 48, 72 hrs	Standard TAT
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Special to	ON SEPAR	RATE REPORT TPH: 8015B, B1	TEX: 80	021B	& Chlorides	Please show	 / BT	EX	res	<u>l</u>	as /	no/l	<u></u>	Thar	L V				- 	abc	rato		omm	ents	<u>_</u>			ㅗ	┸		-
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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: Vales				
Date/Time: 9.1-11 8 60				
Lab ID#: 426978/426981-C1				
Initials: XU				
Sample Receipt Che	cklist			
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.	
ibs 4,1 °C lbs °C lbs	°C lbs	°C	lbs	<u>°C</u>
Nonconformance Docur	nentation			
Contact: Contacted by:		Date/Time:_		
Regarding:				
Corrective Action Taken:				
Check all that apply: Cooling process has begun shortly after sample condition acceptable by NELAC 5.5.8.3.1. Initial and Backup Temperature confirm out of the co	a.1. temperature co	•	rature	AV

Analytical Report 426978

for

Yates Petroleum Corporation

Project Manager: Amber Cannon
Cigarillo SWD #1
30-015-21643
08-SEP-11

Collected By Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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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)



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.

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. 426978 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 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

Final 1 000



Project Id: 30-015-21643

Project Location: Eddy County

Contact: Amber Cannon

Certificate of Analysis Summary 426978

Yates Petroleum Corporation, Artesia, NM

, 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

								Project Ma	nager:	Brent Barron II	
	Lab Id:	426978-0	01	426978-0	02	426978-0	003	426978-	004		
Analysis Requested	Field Id:	Comp-#	1	Comp-#	2	Comp-#	13	Comp-	‡ 4		
Anutysis Requesteu	Depth:	2-2 In		2-2 In		2-2 In		2-2 Ir			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Aug-30-11 (9 33	Aug-30-11 (9 45	Aug-30-11	09 55	Aug-30-11	10 06		
BTEX by EPA 8021B	Extracted:	Sep-02-11 1	2 00	Sep-02-11 1	2 00	Sep-02-11	12 00	Sep-02-11	12 00		
	Analyzed:	Sep-03-11 1	4 36	Sep-03-11 0	18 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:								,		
	Analyzed:	Sep-02-11 1	0 00	Sep-02-11 1	0 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 1	4 30	Sep-02-11 1	4 30	Sep-02-11	14 30	Sep-02-11	14 30		
	Analyzed:	Sep-03-11 1	6 11	Sep-03-11 1	6 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	151	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 tepresent 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 hability 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 quantiation limit and above the detection limit.
- U Analyte was not detected
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample
- **BRL** Below Reporting Limit
- **RL** Reporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit

MQL Method Quantitation Limit

LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation

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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								<u> </u>								Р	rojec	t Na	me:	Cig	aril	lo S	W) #	1					
	Company Name	Yates Petroleum	Corporal	tion			· · · · · · · · · · · · · · · · · · ·		-								_	P	rojec	t #:	30-0	15-2	2164	3							
	Company Address	105 South 4th Str	eet				·											Proj	ect L	oc.	Eddy	Cour	nty								
	City/State/Zip	Artesia, NM 882	10						, - -								-		P) #: _.	1032	J20									
	Telephone No:	575-748-4111	,				Fax No		575	-748	3-458	35					Repo	rt Fo	orma	:	× s	tanda	ard	١		TRE	₹P		NPI	DES	
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LAB # (lab use only)	FIEI	LD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Fittered	Total # of Containers	lce	HNO ₃	豆	1250s	Nec Son	None	Other (Specify)	DW≈Drinking Water SL=Studga GW = Groundwater S≈Solt/Solid	TPH 4181 8015M 8015B	TX 1005 TX 10	Cations (Ca, Mg, Na, K)	Anions (Cl. SO4, Alkalinuty)	Metals As Aq Ba Cd Cr Pb Hq Se		Semivolatiles	BTEX 80218/5030 or BTEX 8260	RCI	NORM	Chlorides		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
001	Co	omp-#1		2"	2"	8/30/2011	9 33 AM		1	х			\perp				S	X				\perp			х			x			Х
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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: Vales						
Date/Time: 9-2-11 8 6C						
LADID#: 426978/426981-Cl						
Initials: £U						
Sai	mple Receipt Che	ecklist				
1. Samples on ice?		Blu	ie	Water	No	
2. Shipping container in good condition?		Ye	8	No	None	
3. Custody seals intact on shipping container (coo	ler) and bottles?	(Ye	S	No	N/A	
4. Chain of Custody present?		(Ye	9	No		
5. Sample instructions complete on chain of custo	dy?	(Ye	9	No		
6. Any missing / extra samples?		Ye	s	No		
7. Chain of custody signed when relinquished / red	(Ye	$\frac{1}{2}$	No			
8. Chain of custody agrees with sample label(s)?	Ye	5	No			
9. Container labels legible and intact?	-	Ye	(2)	No		
10. Sample matrix / properties agree with chain of	custody?	Ye	E	No		
11. Samples in proper container / bottle?		Ye	्रिं	No		
12. Samples properly preserved?		Ye	35	No	N/A	
13. Sample container intact?		Ye	(8)	No		
14. Sufficient sample amount for indicated test(s)?)	Ye	5	No		
15. All samples received within sufficient hold time	e?	Ye	rs l	No		
16. Subcontract of sample(s)?		Ye	es	(No)	N/A	
17. VOC sample have zero head space?		Ye	s	No	N/A	
18. Cooler 1 No. Cooler 2 No. C	cooler 3 No.	Coole	r 4 No.		Cooler 5 No.	
lbs 4,1 °C lbs °C	lbs	°C	lbs	°C	lbs	°C
Nonco	onformance Docu	mentatio	on			
Contact: Contacted by:			i	Date/Time:_		
Regarding:						
Corrective Action Taken:						
Check all that apply: ☐ Cooling process has beg condition acceptabe	le by NELAC 5.5.8.3.1	I.a.1.		•	rature	

Final 1 000

□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



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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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)





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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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





Client Name: Yates Petroleum Corporation

Project Name: Cigarillo SWD # 1



Project ID:

30-015-21643

Work Order Number: 430158

Date Received: 10/25/2011

Report Date: 01-NOV-11

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

Page 4 of 15

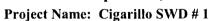
Samples affected are: 430158-003 S,430158-003 SD.

Final 1 000



Certificate of Analysis Summary 430158

Yates Petroleum Corporation, Artesia, NM





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

								Project Manager:	Dicit Dailon II	
	Lab Id.	430158-0	100	430158-0	002	430158-0	003			
Analysis Requested	Field Id:	Grab 1-	.1	Grab 1-	-2	Grab 1-	-3			
Analysis Requesieu	Depth:	1-1 ft		2-2 ft		3-3 ft				
	Matrix:	SOIL		SOIL		SOIL				
	Sampled.	Oct-24-11 (09.30	Oct-24-11	09 35	Oct-24-11	09 40			
BTEX by EPA 8021B	Extracted:	Oct-26-11	15 45	Oct-26-11	15 45	Oct-26-11	15 45			
	Analyzed:	Oct-26-11	22 55	Oct-26-11	23 18	Oct-26-11	23 41			
	Units/RL.	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	Extracted:		·							
	Analyzed:	Oct-25-11	14 35	Oct-25-11	14.35	Oct-25-11	14 35			
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture		10 3	1 00	9 15	1 00	9 62	1 00			
TPH By SW8015B Mod	Extracted:	Oct-27-11	15 45	Oct-27-11	15 45	Oct-27-11	15 45			
	Analyzed:	Oct-27-11 2	20 24	Oct-27-11	20 56	Oct-27-11	21 27			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
C6-C10 Gasoline Range Hydrocarbons		ND	16 7	ND	164	ND	16 6			
C10-C28 Diesel Range Hydrocarbons		ND	167	ND	164	ND	16 6			
Total TPH		ND	16 7	ND	16 4	ND	166			

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



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- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
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- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
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- J The target analyte was positively identified below the quantiation limit and above the detection limit.
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- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
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- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample
- * 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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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 Can	non														-	Pro	ject	Nar	ne.	Cig	ari	llo	SV	ND	#1	<u> </u>					
	Company Name	Yates Petro	leum Corpora	ition													_		Pre	ojec	t#	30-()15-	216	43								
	Company Address.	105 South 4	Ith Street														_	P	roje	ct L	oc.	Eddy	/ Co	unty	-								
	City/State/Zip	Artesia, NM	88210																	PC)#:	1032	2020										
	Telephone No:	575-748-41	11				Fax No		575	5-74	8-45	85					_	Report	For	mat	:	X ,	Stand	dard		Ε]	TRRI	P] NF	DES	 S
	Sampler Signature:	(Înri	/)	an	10 Cl	^	e-mail						(A)	/ate	esn	etro	- Jei	ım.co	m														
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lab use	1120.00	2/11/21	NIGO																			TOT		士	士	士	\exists					2 thrs	
ORDE	R#: 400 2	2/42	11911		т -	7		_	_		Prese	rvatic	n & #	of Co	ontair	ers	F	Matrix	8015B	9			1	g Se	T	7	260					1 48. 72 hr	<u> </u> -
AB # (lab use only)	FIELI	D CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	aol	HNO3	면	H ₂ SO ₄	NaOH	Na ₂ S ₂ U ₃	Other (Specify)	DW=Drinking Water St.=Studge	GW = Groundwater S=Soil/Sold NP=Non-Potable Specify Other	TPH 4181 8015M 8	TPH TX 1005 TX 1006	Cations (Ca, Mg Na K)	Amons (Ci, SO4, Alkalinity)	/ CEC	Metals As Ag Ba Cd Cr Pb Hg	Volatiles	ł	BTEX 80218/5030 or BTEX 8260	RCI	NORM	Chlorides		RUSH TAT (Pre-Schedule) 24	Standard TAT
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\mathcal{B}	Gra	ab 1-2		2'	2'	10/24/2011	9 [.] 35 AM		1	х			\perp	\perp	\downarrow	_	_	S	х		_	_	_	_	\downarrow	_ ։	x	4	;	x	\downarrow	_	×
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elinguist Mainguist	wind ann	.O.\	Date 10/24/11 Date	35	ne tiP	Received by									T		ate		Fime		Labe Cust Cust	ls oi ody : ody :	o cor seals	ntaine s on e s on e s on e	er(s con coo	s) itain oler(s	َّ , ier(s	;})	: z (2) z	
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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: Vates	Petrole	ım				•		
Date/Time: 10	24TT 15	,,	E 18.35.11 3	40				•
Lab ID#: 4301	53 / 4	301	57					r
Initials:	W2//	E						;
		s	ample Receipt Cl	necki	ist			
1. Samples on ice?					Blue	Water	No	
2. Shipping container i	n good condition?				Yes	No	None	1
3. Custody seals intact			poler) and bottles?		Yes	No	N/A	
4. Chain of Custody pr					Yes	No		f
5. Sample instructions	complete on chair	of cus	tody?		Yes	No		1
6. Any missing / extra	samples?				Yes	No)		<u> </u>
7. Chain of custody sig	ned when relinqui	shed / r	received?		Yes	No		:
8. Chain of custody ag	rees with sample la	bel(s)?	<u> </u>		< Yes>	No		
9. Container labels leg	ible and intact?				(Yes)	No		
10. Sample matrix / pro	perties agree with	chain d	of custody?		Yes	No		
11. Samples in proper	container / bottle?		· · · · · · · · · · · · · · · · · · ·		Yes	No		
12. Samples properly p	oreserved?				(Yes)	No	N/A	
13. Sample container i	ntact?				Yes	No		·
14. Sufficient sample a	mount for indicate	d test(s	:)?		< Yes	No		
15. All samples receive	ed within sufficient	hold ti	me?		Yes	No No		; ;
16. Subcontract of san	nple(s)?				Yes	No	N/A	1
17. VOC sample have a	ero head space?				(Yes)	No	N/A	
18. Cooler 1 No.	Cooler 2 No.		Cooler 3 No.		Cooler 4 No).	Cooler 5 No.	
lbs 30 °	C ibs	°C	lbs	°c	lbs	°C	lbs	۰,
		Nonc	onformance Doc	ume	ntation			;
Contact:	Conta	acted b	v:			Date/Time:		!

Regarding:								
							····	,
Corrective Action Take	en:							i
								}
Check all that apply:	□Cooling process	s has h	egun shortly after san	nling	event and o	ut of temper	rature	,
oncon un diac appi).	condition	accept	able by NELAC 5.5.8.3	.1.a.1.		-		1

 \Box 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), Arızona (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)







Yates Petroleum Corporation, Artesia, NM

Cigarıllo 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

Final 1 000



Certificate of Analysis Summary 430159

Yates Petroleum Corporation, Artesia, NM

Project Name: Cigarillo SWD # 1



Project Id: 30-015-21643

Project Location: Eddy County

Contact: Amber Cannon

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

Report Date: 01-NOV-11

Project Manager: Brent Barron II

										Jient Barren			
	Lab Id:	430159-0	01	430159-0	02	430159-0	03	430159-0	04	430159-0	05	430159-0	06
Anghain Bannastad	Field Id.	Grab 1-	1	Grab 1-2	2	Grab 1-	3	Grab 2-	1	Giab 2-	2	Grab 2-3	3
Analysis Requested	Depth:	1-1 ft		2-2 ft		3-3 ft		1-1 ft		2-2 ft	ĺ	3-3 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL.	
	Sampled:	Oct-24-11 (9 30	Oct-24-11 0	9 35	Oct-24-11 (9 40	Oct-24-11 (9 45	Oct-24-11 (9 50	Oct-24-11 0	9 55
Anions by E300	Extracted:												
	Analyzed:	Oct-26-11	11 50	Oct-26-11 1	1 50	Oct-26-11 1	11 50	Oct-26-11	1 50	Oct-26-11	1 50	Oct-26-11 1	1 50
	Units/RL:	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	Extracted:												
	Analyzed:	Oct-25-11	14 35	Oct-25-11 1	4 35	Oct-25-11 I	14.35	Oct-25-11 1	5 50	Oct-25-11	5 50	Oct-25-11 1	5 50
	Units/RL:	%	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



Project Id: 30-015-21643

Project Location: Eddy County

Contact: Amber Cannon

Certificate of Analysis Summary 430159

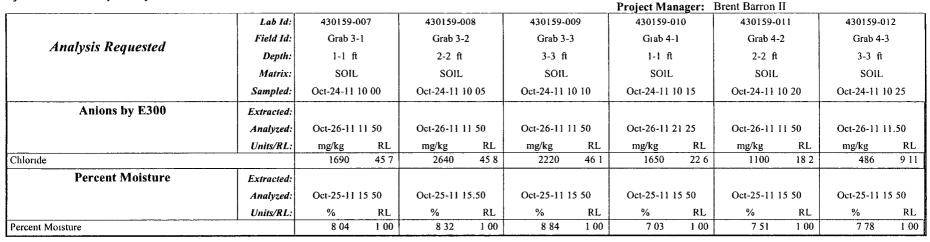
Yates Petroleum Corporation, Artesia, NM

Project Name: Cigarillo SWD #1

roject Name: Cigarmo SWD # 1

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

Report Date: 01-NOV-11



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Brent Barron II Odessa Laboratory Manager



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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 Can	Cannon													•	Pro	ject	Nan	ne: <u>(</u>	<u> Zig</u>	aril	lo S	W	D #	1						
	Company Name	Yates Petro	leum Corpora	lion													-		Pre	oject	# 3	0-0	15-2	164	3							
	Company Address.	105 South 4	th Street														_	P	roje	ct L	oc <u>E</u>	ddy	Cour	nty								
	City/State/Zip	Artesia, NM	88210			····											-			PO	# _1	0320	20									
	Telephone No	575-748-41	11				Fax No		57£	5-748	3-4 <u>5</u> 8	35					R	port	For	mat	[s	tanda	ard	1	<u></u>	TRRE	>] NPD	ES	
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AB # (lab use only)	FIEL	LD CODE		Seginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	fotal # of Containers	e51	HNO ₃	HC!	H ₂ SO ₄	NaOH	None	Other (Specify)	DW=Drinking Water SL=Sludge	တ ၊	TPH 4181 8015M	01 XT 7005 XT H9T		Anions (Cl. SO4 Alkalinity)	Sa Ca		Semvolatiles	BTEX 80218/5030 or BTEX 8260	RCI NO B M	Chlorides			KUSH I A! (Pre-Schadule)	Standard TAT
01	 	rab 1-1		1'	1'	10/24/2011	9:30 AM			×		1			T		- 5		Х			I			-	х		×	7			X
8	Gi	rab 1-2		2'	2'	10/24/2011	9 [,] 35 AM		1	х									Х							х	l	X	٢_	Ц	1	X
03	G	rab 1-3		3'	3'	10/24/2011	9.40 AM	L	1	X					1	_		3	х			1	\perp		Ш	x	\perp	>	4	Ц	1	X
Q	G	rab 2-1		1'	1'	10/24/2011	9 45 AM	<u> </u>	1	X	_	\perp	\perp	1	\perp	L		3			\perp		ļ.,		Ц		_ _	_ >	4	igspace	4	X
05	Gi	rab 2-2		2'	2'	10/24/2011	9 50 AM		1	Х		_		_	1_	L		3		_	\perp	_	_			_	4	_ ×	<u> </u>	$\sqcup \!\!\! \perp$	1	X
00	Gr	rab 2-3		3'	3,	10/24/2011	9.55 AM		1	X	_	4	\perp		ļ	L		<u> </u>			_	_ _	\perp				4	X	4	44	4	X
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lelinquish	ea by		Date	Tin	ne	Received by ELC	D/Culin	ni	u						10		ie 5-//	08		1-	emp	erati	Tre L	pan	Rece	eipt		_	7	20°	3	



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

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Client: 19178	12 40	Jeum)						
Date/Time: 10	2411	15:31	E 16.35.	11 3 40	ク			i
Lab 10#: 4301	<u>58 /</u>	4301	57	_				
Initials:	WZ	/ NE		_				1
		s	ample Rece	ipt Check	list			*
1. Samples on ice?					Blue	Water	No	
2. Shipping container in	good condi	tion?			Yes	No	None	t *
3. Custody seals intact	on shipping	container (co	ooler) and bottl	es?	Yes>	No	N/A	
4. Chain of Custody pre	sent?				Yes	No		
5. Sample instructions	complete on	chain of cus	tody?		Yes	No		1
6. Any missing / extra s	amples?		·		Yes	(No)		<u> </u>
7. Chain of custody sig	ned when rel	inquished / r	eceived?		Yes	No		
8. Chain of custody agr	ees with sam	pie label(s)?			ر Yes>	No		
9. Container labels legi	ble and intac	t?		· · · · · · · · · · · · · · · · · · ·	¿Yes	No		
10. Sample matrix / pro	perties agree	with chain o	of custody?		Yes	No		ı
11. Samples in proper	container / bo	ttle?			Yes	No		
12. Samples property p	reserved?				(Yes)	No	N/A	
13. Sample container ir	tact?				Yes	No		
14. Sufficient sample a	mount for ind	licated test(s)?		∠Yes	No		
15. All samples receive	d within suffi	cient hold tir	me?		(Yes)	No		
16. Subcontract of sam	ple(s)?				Yes	No	(N/A	,
17. VOC sample have z	ero head spa	ce?			Yes	No	NA	
18. Cooler 1 No.	Cooler 2 No	o	Cooler 3 No.		Cooler 4 No)	Cooler 5 No.	İ
ibs 30 °	C Ibs	°C	ltIt	os °C	lbs	°c	lbs	°ر
		Nonc	onformance	e Docume	ntation			1
Contact:	(Contacted by	/:			Date/Time:_		
Regarding:	· · · · · · · · · · · · · · · · · · ·		······································					
Corrective Action Take	n:							:
								
Check all that apply:			egun shortly af			ut of temper	ature	!

Final 1 000

□ 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



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arızona (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)



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

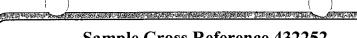
Odessa Laboratory Manager

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Sample Cross Reference 432252

Yates Petroleum Corporation, Artesia, NM

Cıgarıllo 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



Project Id: 30-015-21643

Project Location: Eddy County

Contact: Amber Cannon

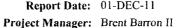
Certificate of Analysis Summary 432252

Yates Petroleum Corporation, Artesia, NM

Project Name: Cigarillo SWD #1

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

Report Date: 01-DEC-11



								I toject mai					
	Lab Id:	432252-0	001	432252-0	02	432252-0	03	432252-0	04	432252-0	05	432252-0	06
Analysis Requested	Field Id:	Grab 1-	4	Giab 1-	5	Grab 1-	6	Grab 2-	4	Grab 2-	5	Grab 2-	6
Analysis Requesieu	Depth:	4-4 ft		5-5 ft	l	6-6 ft		4-4 ft		5-5 ft		6-6 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	1	SOIL	
	Sampled:	Nov-02-11	09 00	Nov-02-11 (9 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	7 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 1	4 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	110	1 00	10 3	1 00	12 3	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



Certificate of Analysis Summary 432252

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-21643 Contact: Amber Cannon Project Name: Cigarillo SWD # 1

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

Report Date: 01-DEC-11 Project Location: Eddy County

Project Manager: Brent Barron II

								Troject Manager.	- Breitt Burton 11	,
	Lab Id:	432252-0	07	432252-0	08	432252-0	09			
Analysis Requested	Field Id:	Grab 3-	4	Grab 3-	5	Grab 3-6	5			
Anuiysis Nequesieu	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 (9 30			
Anions by E300	Extracted.									
	Analyzed:	Nov-29-11	17 45	Nov-29-11	17 45	Nov-29-11 I	7.45			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		443	18 6	497	513	1620	49 2			
Percent Moisture	Extracted:									
	Analyzed:	Nov-29-11	14 56	Nov-29-11	14 56	Nov-29-11 1	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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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

A CONTRACTOR STANDS OF THE PROPERTY OF THE PARTY OF THE P

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

	Project Manager	Amber Cannor	n				,,										_	Pro	ject	Nar	ne.	Cig	aril	llo S	<u>3W</u>	D#	1					
	Company Name	Yates Petroleu	ım Corporati	ion													_		Pr	ojec	t # _	30-0	15-	2164	13							
	Company Address	105 South 4th	Street														_	F	roje	ct L	oc. j	ddy	Cou	inty								
	City/State/Zip	Artesia, NM 8	88210																	PC)#	1032	020									
	Telephone No	575-748-4111					Fax No		575	-748	-458	15					· F	Report	t For	rmat	. [x s	Stand	ard			TRE	RP		□NP	DES	š
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Ö	f	rab 1-4		4	4'	11/2/2011	9.00 AM	<u> </u>	1		7	寸	7	7	十	T	+	S	٦		Ĭ	Ì	7	Ť	Ť				x	土	$\dot{\Gamma}$	×
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09	Gi	rab 3-6		6'	6'	11/23/2011	9:30 AM	_	1	_		4	-	4	\bot	<u> </u>	_	s	_		_	_	4	1	ot	\sqcup	\dashv	_	x	4	 _	×
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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 29 11 12:15				
Lab ID#: 432252				
Initials:	* - 4			
Sample Receipt Checki	ist			
	Blue	Water	No	
1. Samples on ice?	Yes	No	None	
2. Shipping container in good condition?	Yes	No	N/A	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	NGA .	
4. Chain of Custody present? 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	j	Cooler 5 No.	
lbs 4,5c lbs °c lbs °c	lbs	•℃	lbs	°c
Nonconformance Docume	ntation	-		
Contact: Contacted by:		Date/Time:_		
•		_		
Regarding:				
/				
Corrective Action Taken:				
Check all that apply: Cooling process has begun shortly after sampling	event and	out of tempe	rature	
condition acceptable by NELAC 5.5.8.3.1.a.1 □ Initial and Backup Temperature confirm out of ten	•	-		

☐ Client understands and would like to proceed with analysis