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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October 10, 2011

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

Re:

Loving AIB State #1

30-015-22889

Section 16, T23S-R28E Eddy County, New Mexico

RECEIVED OCT 11 2011 NMOCD ARTESIA

Dear Mr. Bratcher:

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report for the release that occurred on July 17, 2011.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after the week of October 17, 2011.

If you have any questions call me at (575) 748-4111

Thank you.

YATES PETROLEUM CORPROATION

Amber Cannon

Environmental Regulatory Agent

amber Cannon

Enclosure(s)

Yates Petroleum Corporation

Loving AIB State #1 Work Plan

Section 16, T23S-R28E

Eddy County, New Mexico

October 10, 2011

I. Location

The well is located approximately 16 miles southeast of Carlsbad, NM off of County Road 31, as represented by the attached Loving, NM, USGS Quadrangle Map.

II. Background

On July 22, 2011, Yates submitted to the NMOCD District II office a Form C-141 for a release of 50 B/PW with no produced water recovered. The total affected area is approximately 50 feet by 50 feet. Initial delineation samples were taken 8/4/2011 for TPH/BTEX/Chlorides and sent to an NMOCD approved laboratory coming back with high chloride results. Further chloride delineation samples were taken 8/29/2011 and sent to an NMOCD approved laboratory. All sample results are enclosed for review.

III. Surface and Ground Water

Area surface geology is Cenozoic. The nearest groundwater of record is listed on the New Mexico Office of the State Engineer (Section 16, T23S-R28E) shows depth to groundwater approximately 55 feet making the site ranking for this site a twenty (20).

The ranking for this site is twenty (20) based on the as following:

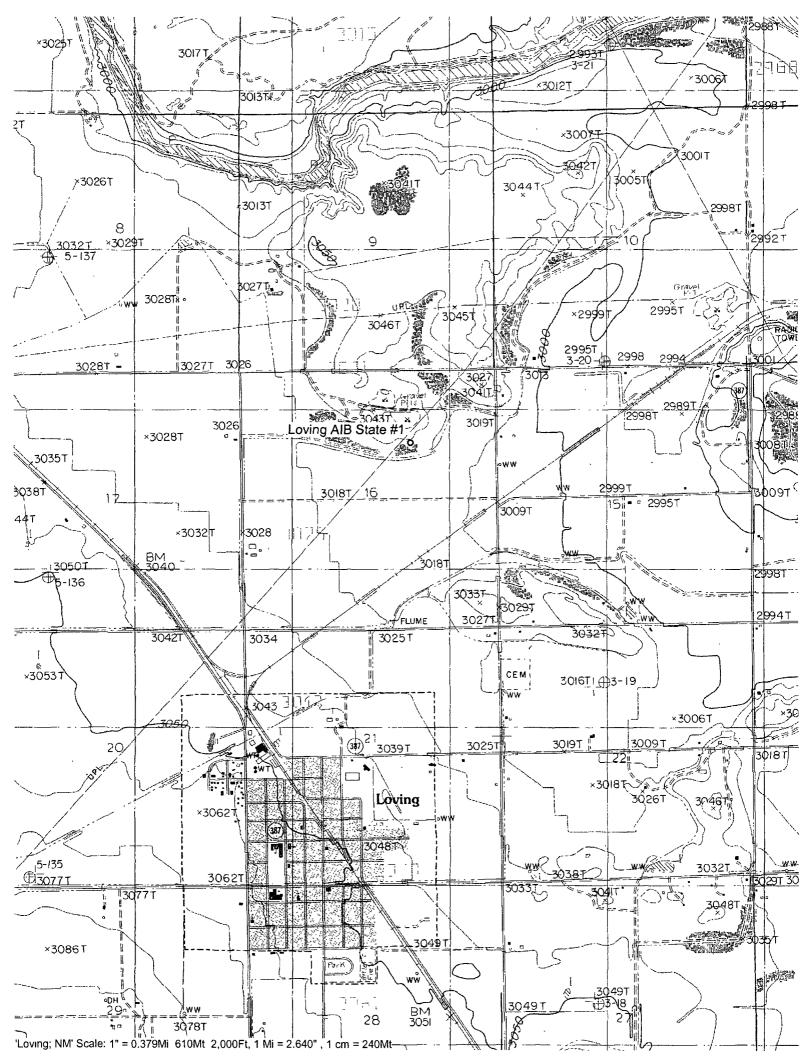
Depth to ground water < 50' Wellhead Protection Area > 1000' Distance to surface water body > 1000'

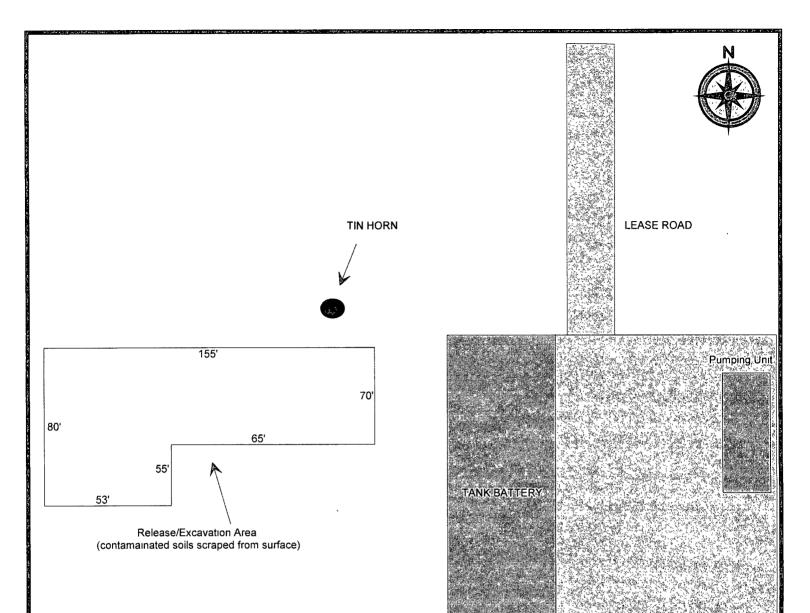
IV. Soils

The area consists of soils that are sand/caliche and interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

V. Scope of Work

Based on analytical results, Yates Petroleum Corporation will have a contractor excavate four (4) feet of impacted soils (total excavation will be 70' long X 65' wide and 80' long X 53' wide X 4' deep), impacted soils will be taken to an NMOCD approved facility for disposal. Upon approval from NMOCD, Yates will then fill the excavation with fresh, clean soils. Yates will re-seed the location to re-establish vegetation using BLM Seed Mixture #3; however due to it being so late in the year, Yates will complete the re-seeding of the location in the summer of 2012.







Loving AIB State #1

30-015-22889

Section 16, T23S-R28E

Eddy County, NM

SAMPLE DIAGRAM(Not to Scale)

Xenco Laboratories# 425337 & 425338 & 426916 Report Date: 8/18/2011 & 9/8/2011

> Prepared by Amber Cannon Environmental Regulatory Agent

LOVING AIB STATE #1

Analytical Report- 425337 & 425338	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-00.5	Release Area	8/4/2011	Comp/Auger	6"	ND	ND	ND	ND	73,900
Comp-01.0	Release Area	8/4/2011	Comp/Auger	1'	0.00121	ND	ND	ND	74,200
Comp-02.0	Release Area	8/4/2011	Comp/Auger	2'	ND	ND	ND	ND	81,600
Analytical Report- 426916	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Grab-03.0	Release Area	8/29/2011	Grab/Backhoe	3'					13,600
Grab-05.0	Release Area	8/29/2011	Grab/Backhoe	5'					2,110
Grab-06.0	Release Area	8/29/2011	Grab/Backhoe	6'					12,300
Grab-07.0	Release Area	8/29/2011	Grab/Backhoe	7'			7		523
Grab-08.0	Release Area	8/29/2011	Grab/Backhoe	8'					3,130
Grab-09.0	Release Area	8/29/2011	Grab/Backhoe	9'					1,040
Grab-10.0	Release Area	8/29/2011	Grab/Backhoe	10'					2,160
Grab-11.0	Release Area	8/29/2011	Grab/Backhoe	11'					921
Grab-12.0	Release Area	8/29/2011	Grab/Backhoe	12'					931

Site Ranking is TWENTY (20). Depth to Ground Water <50' (approx. 55', Section 16-23S-28E, per NMOSE).

All results are ppm. Chlorides for documentation.

Released: 50 B/PW; Recovered: 0 B/PW. Release Date: 7/17/2011

Analytical Report 425337

for

Yates Petroleum Corporation

Project Manager: Amber Cannon
Loving AIB State # 1
30-015-22889
18-AUG-11

Collected By: Client



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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)





18-AUG-11

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

Reference: XENCO Report No: 425337

Loving AIB State #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 425337. 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. 425337 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 425337



Yates Petroleum Corporation, Artesia, NM

Loving AIB State # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	08-04-11 10:13	6 - 6 In	425337-001
Comp-01.0	S	08-04-11 10:26	1 - 1 ft	425337-002
Comp-02.0	S	08-04-11 10:42	2 - 2 ft	425337-003

CASE NARRATIVE



Client Name: Yates Petroleum Corporation

Project Name: Loving AIB State # 1



Project ID:

30-015-22889

Work Order Number: 425337

Report Date: 18-AUG-11 Date Received: 08/09/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non-nonformances and comments:

Batch: LBA-866807 TPH By SW8015B Mod

SW8015B_NM

Batch 866807, 1-Chlorooctane, o-Terphenyl recovered above QC limits . Matrix interferences is

suspected; data not confirmed by re-analysis

Samples affected are: 425337-003.

Batch: LBA-867107 BTEX by EPA 8021B

SW8021BM

Batch 867107, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene, Ethylbenzene, Toluene, m_p-Xylenes recovered below QC limits in the

Matrix Spike Duplicate. Samples affected are: 425337-001.

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

within laboratory Control Limits



Certificate of Analysis Summary 425337

Yates Petroleum Corporation, Artesia, NM

Project Name: Loving AIB State #1



Project Id: 30-015-22889

Contact: Amber Cannon Project Location: Eddy County

Date Received in Lab: Tue Aug-09-11 10 15 am

Report Date: 18-AUG-11

								Project Manager:	Brent Barron II	
	Lab Id:	425337-00	01	425337-0)02	425337-0	003			
Analysis Requested	Field Id:	Comp-00	5	Comp-0	1.0	Comp-02	2.0			
Analysis Requesica	Depth:	6-6 In		1-1 ft	Ì	2-2 ft				
	Matrix:	SOIL		SOIL	.	SOIL				
	Sampled:	Aug-04-11 1	0 13	Aug-04-11	10:26	Aug-04-11	10:42			
BTEX by EPA 8021B	Extracted:	Aug-11-11 1	0 40	Aug-11-11	10.47	Aug-11-11	10:47			
	Analyzed:	Aug-12-11 1	1.45	Aug-11-11	17:13	Aug-11-11	17:36			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Benzene		ND	0 00107	ND	0 00108	ND	0 00109			
Toluene		ND	0 00213	ND	0 00215	ND	0 00218			
Ethylbenzene		ND	0 00107	0 00121	0 00108	ND	0 00109			
m_p-Xylenes		ND	0 00213	ND	0 00215	ND	0 00218			
o-Xylene		ND	0 00107	ND	0 00108	ND	0 00109			
Total Xylenes		ND	0 00107	ND	0 00108	ND	0 00109			
Total BTEX		ND	0 00107	0 00121	0 00108	ND	0 00109			
Percent Moisture	Extracted:									
	Analyzed:	Aug-09-11 1	15.35	Aug-09-11	15.35	Aug-09-11	15 35			
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture		7 02	1 00	7.90	1 00	8.92	1.00			
TPH By SW8015B Mod	Extracted:	Aug-09-11 I	4 45	Aug-09-11	14.45	Aug-09-11	14 45			
	Analyzed:	Aug-09-11 2	21.06	Aug-09-11	21.33	Aug-09-11	22.00			
	Units/R1.:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
C6-C10 Gasoline Range Hydrocarbons	The second secon	ND	14 9	ND	15 1	ND	15.0			
C10-C28 Diesel Range Hydrocarbons		ND	14.9	ND	15 1	ND	15.0			
Total TPH		ND	14 9	ND	15.1	ND	15 0			

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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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.
- A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- 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

SDL Sample Detection Limit MDL Method 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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3725 E Atlanta Ave, Phoenix, AZ 85040	(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														_	Pro	ject	Nar	ne:	LO'	vinç	g All	<u>3 S</u>	tat	e #1	<u></u>				
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	Company Address	105 South 4th Street		····												_	P	roje	ct L	oc:	Edd	y Cou	ınty								
	City/State/Z ₁ p·	Artesia, NM 88210														_			PC) #: <u>1</u>	1032	2020					·				
	Telephone No:	575-748-4111				_ Fax No:	:	<u>575</u>	i- 74 8	8-458	85					_ R	eport	For	rmat	.: [× ;	Stand	tard			TRRI	.P		NP	DES.	3
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LAB # (lab use only)	FIE	LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	lCe	HNO ₃	豆	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃ None	Other (Specify)		GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	418 1 8015M	TX 1005 TX	Σ	Anions (Cl. SO4, Alkalinity)	/ CEC	As Ag Ba Cd Cr Pb	Semivolatiles	X 8021B/5030 or BTEX	RO.	NORM	Chlondes		e-Schedule)	Standard TAT
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XENCO Laboratories

Attanta, Boca Raton, Corpus Christ, 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	, Petroi	eam					•		. 14	
Date/Time: B.	9.11	10:15							•	
Lab ID#: 425	337 /	425	338	 -						
Initials:	AF									
muas.					t. 1	17. £		-		
		5	ample R	eceipt Ci	neck	ist				
1. Samples on ice?						Blue	Water	No		
2. Shipping contains	er in good condi	ion?				(Yes)	No	None		
3. Custody seals into	act on shipping	container (co	ooler) and (otties?		(Yes)	No	N/A		
4. Chain of Custody	present?					(Yes)	No			
5. Sample instructio	ns complete on	chain of cus	tody?			Yes	No			
6. Any missing / ext	ra samples?					Yes	(No)			
7. Chain of custody	signed when rel	inquished / r	eceived?			Yes	No			
8. Chain of custody	agrees with san	ple label(s)?	·			(Yes)	No			
9. Container labels l	egible and intac	t?				(Yes)	No			
10. Sample matrix / p	properties agree	with chain o	of custody?	·		(Yes)	No -			
11. Samples in prop	er container / bo	ttle?				(Yes)	No		1	
12. Samples propert	y preserved?					(Yes)	No	N/A		
13. Sample containe	r intact?					(Yes)	No	_		
14. Sufficient sample	e amount for ind	icated test(s)?	······································		(Yes)	No			
15. Ali samples rece	ived within suffi	cient hold tir	ne?			(Yes)	No			
16. Subcontract of s	ample(s)?					Yes	No	N/A	Xanco-	Hoursler
17. VOC sample hav	e zero head spa	ce?				(Yes)	No	N/A		
18. Cooler 1 No.	Cooler 2 No	o	Cooler 3 N	o.		Cooler 4 No		Cooler 5 No	o	
lbs 2./	°C lbs	°C		lbs	°င	lbs	°c	lb:	Š	°C
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Corrective Action Ta	iken:						· · · · · · · · · · · · · · · · · · ·			
										
										
										
Check all that apply	: Cooling pr	ocess has be	gun shorti	y after san	npling	event and o	ut of tempe	rature		

Final 1.000

condition acceptable by NELAC 5.5.8.3.1.a.1.

☐ Client understands and would like to proceed with analysis

□Initial and Backup Temperature confirm out of temperature conditions

Analytical Report 425338

for Yates Petroleum Corporation

Project Manager: Amber Cannon
Loving AIB State # 1
30-015-22889
18-AUG-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046):

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

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





18-AUG-11

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

Reference: XENCO Report No: 425338

Loving AIB State # 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 425338. 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. 425338 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 425338



Yates Petroleum Corporation, Artesia, NM

Loving AIB State # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	08-04-11 10:13	6 - 6 In	425338-001
Comp-01.0	S	08-04-11 10:26	1 - 1 ft	425338-002
Comp-02.0 .	S	08-04-11 10:42	2 - 2 ft	. \425338-003





Client Name: Yates Petroleum Corporation

Project Name: Loving AIB State # 1



Project ID:

30-015-22889

Work Order Number: 425338

Report Date: 18-AUG-11 Date Received: 08/09/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-867226 Inorganic Anions by EPA 300/300.1

E300

Batch 867226, Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 425338-001, -003, -002.

The Laboratory Control Sample for Chloride is within laboratory Control Limits

Final 1.000



Certificate of Analysis Summary 425338

Yates Petroleum Corporation, Artesia, NM

Project Name: Loving AIB State # 1



Project Id: 30-015-22889

Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Tue Aug-09-11 10.15 am

Report Date: 18-AUG-11

Project Manager: Brent Barron II

								Froject Manager:	Diene Barron II	
	Lab Id:	425338-0	01	425338-0	02	425338-00	03			
Analysis Requested	Field Id:	Comp-00	5	Comp-01	.0	Comp-02.	.0			
Analysis Kequesieu	Depth:	6-6 In		1-1 ft		2-2 ft				
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	Aug-04-11	10:13	Aug-04-11	10:26	Aug-04-11 1	0.42			,
Inorganic Anions by EPA 300/300.1	Extracted:	Aug-14-11	12 04	Aug-14-11	2.22	Aug-14-11 1	2 40			
SUB: E871002	Analyzed:	Aug-14-11	12:04	Aug-14-11	2 22	Aug-14-11 1	2.40			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		73900 D	538	74200 D	543	81600 D	549			
Percent Moisture	Extracted:									
	Analyzed:	Aug-09-11	15.35	Aug-09-11	15.35	Aug-09-11 1	5 35			
	Units/RL:	1/6	RL	%	RL	%	RL			
Percent Moisture		7 02	1 00	7.90	1.00	8 92	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 involved 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 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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9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antomo TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd. Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	

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	Nar	ne: _	Lov	/ing	j All	<u>3 S</u>	tat	e #	1_				
	Company Name	Yates Petroleum Corporat	ion													_		Pro	ojec	t #: _	<u>30-0</u>	15-2	2288	9							
	Company Address	105 South 4th Street				**************************************										_	F	roje	ct L	oc: <u>[</u>	Eddy	Cou	nty								
	City/State/Zip:	Artesia, NM 88210														_			PC) #: _	1032	020									
	Telephone No:	575-748-4111				Fax No:		<u>575</u>	i-748	8-458	85					_ R	teport	For	rmat	: [× s	itand	ard	1		TRR	₹P		NE	DES	3
	Sampler Signature.	amber Cans	non			e-mail:			<u>ac</u>	anr	non	<u>@</u>	<u>vate</u>	<u>∍spe</u>	tro	leur	n.co	m					Analy	E						_	7
(lab use	only)	7																┢			TCL		shary	2610	"	T	\neg	\top	\top	1	
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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	ECNH	HGI	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃ None	Other (Specify)		GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH 4181 8015M 8		Cations (Ca, Mg. Na, K)	Anions (Cf, SO4, Alkalinity)	SAR / ESP / CEC		Semivolatiles	X 8021B/5030 or BTEX	ROI	NORM	Chlorides		RUSH TAT (Pre-Schedule) 24, 48	Standard TAT
<i>O</i> :	Col	mp-00.5	6"	6"	8/4/2011	10:13 AM	L	1	х				\perp		\perp		s	х		_	\perp	_	1		х		_	х		$oldsymbol{\perp}$	х
02		mp-01.0	1'	1'	8/4/2011	10:26 AM	L	1	X				_		\perp		s_	х		_	4	\perp		Ш	х	\dashv	\dashv	x		<u> </u>	Х
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XENCO Laboratories

Attanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadeiphia 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

Date/Time: B 1 1 10 15 ab ID#: 125337	client Vates Petroleum	•				
ab ID #: \\ \frac{1}{2} \text{S33} \\ \text{A533} \	0011 106					
Sample Receipt Checklist 1. Samples on ice? 2. Shipping container in good condition? 3. Custody seals intact on shipping container (cooler) and cottles? 4. Chain of Custody present? 5. Sample instructions complete on chain of custody? 6. Any missing / extra samples? 7. Chain of custody signed when relinquished / received? 8. Chain of custody signed when relinquished / received? 8. Chain of custody agrees with sample label(s)? 9. Container labels legible and intact? 10. Sample matrix / properties agree with chain of custody? 11. Samples in proper container / bottle? 12. Samples properly preserved? 13. Sample container intact? 14. Sufficient sample amount for indicated test(s)? 15. All samples received within sufficient hold time? 16. Subcontract of sample(s)? 17. VCC sample have zero head space? 18. Cooler 1 No. Cooler 2 No. Cooler 3 No. Cooler 4 No. Cooler 5 No. Nonconformance Documentation Contacted by: Date/Time: Regarding:	1176227 / 1126220					
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15. All samples received within sufficient hold time? 16. Subcontract of sample(s)? 17. VCC sample have zero head space? 18. Cooler 1 No. Cooler 2 No. Cooler 3 No. Cooler 4 No. Cooler 5 No. lbs		Yes	No			ĺ
16. Subcontract of sample(s)? 17. VCC sample have zero head space? 18. Cooler 1 No. Cooler 2 No. Cooler 3 No. Cooler 4 No. Cooler 5 No. Ibs	14. Sufficient sample amount for indicated test(s)?	Yes	No			
17. VCC sample have zero head space? 18. Cooler 1 No. Cooler 2 No. Cooler 3 No. Cooler 4 No. Cooler 5 No. 18. Cooler 1 No. Cooler 2 No. Cooler 5 No. 18. Cooler 1 No. Cooler 5 No. 18. Cooler 2 No. Cooler 5 No. Nonconformance Documentation Contact: Contacted by: Date/Time: Regarding:	15. All samples received within sufficient hold time?	(Yes)	No			
18. Cooler 1 No. Cooler 2 No. Cooler 3 No. Cooler 4 No. Cooler 5 No. Ibs 2 °C Ibs °C Ibs	16. Subcontract of sample(s)?	Yes	No	N/A	Xarro-Ha	rskx
Ibs °C	17. VCC sample have zero head space?	(Yes)	No	N/A		ĺ
Nonconformance Documentation Contact: Contacted by: Date/Time: Regarding:		Cooler 4 No).	Cooler 5 No.	•	
Contact: Contacted by: Date/Time:	iles 2 / °C lbs °C lbs °C	ibs	ာင	[bs	°c	
Regarding:	Nonconformance Docume	entation				
	Contact: Contacted by:		Date/Time:_			
Corrective Action Taken:	Regarding:		·			-
	Corrective Action Taken:					- -
				1		-
			<u></u>			-
Check all that apply: Cooling process has begun shortly after sampling event and out of temperature		······································				-

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 426916

for

Yates Petroleum Corporation

Project Manager: Amber Cannon Loving AIB State #1 30-015-22889 08-SEP-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)





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

Reference: XENCO Report No: 426916

Loving AIB State #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 426916. 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. 426916 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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SCALL COMMISSION CONTROL OF CARGO AND AND CARGO AND AND CARGO CONTROL OF CARGO CONTROL OF CARGO CONTROL OF CARGO C





Sample Cross Reference 426916

Yates Petroleum Corporation, Artesia, NM

Loving AIB State #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Grab 03.0	S	08-29-11 09:10	3 - 3 ft	426916-001
Grab 05.0	S	08-29-11 09:15	5 - 5 ft	426916-002
Grab 06.0	S	08-29-11 09:20	6 - 6 ft	426916-003
Grab 07.0	S	08-29-11 09:25	7 - 7 ft	426916-004
Grab 08.0	S	08-29-11 09:30	8 - 8 ft	426916-005
Grab 09.0	S	08-29-11 09.35	9 - 9 ft	426916-006
Grab 10.0	S	08-29-11 09:40	10 - 10 ft	426916-007
Grab 11.0	S	08-29-11 09:45	11 - 11 ft	426916-008
Grab 12.0	S	08-29-11 09:50	12 - 12 ft	426916-009

Final 1.000

CASE NARRATIVE



Client Name: Yates Petroleum Corporation

Project Name: Loving AIB State #1



Project ID:

30-015-22889

Work Order Number: 426916

Report Date: 08-SEP-11

Date Received: 09/01/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 426916

Yates Petroleum Corporation, Artesia, NM

Project Name: Loving AIB State #1

Project Id: 30-015-22889

Project Location: Eddy County

Contact: Amber Cannon

Date Received in Lab: Thu Sep-01-11 11.55 am

Report Date: 08-SEP-11

Project Manager: Brent Barron II

								I Toject Mai	lages. L	of the Darron	. 1			
	Lah Id:	426916-0	01	426916-0	02	426916-0	003	426916-0	04	426916-0	05	426916-0	06	
Analysis Requested	Field Id:	Grab 03	0	Grab 05	0	Grab 06.	.0	Grab 07	0	Grab 08	0	Grab 09 0		
	Depth:	3-3 ft		5-5 ft		6-6 ft		7-7 ft		8-8 ft		9-9 ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Aug-29-11 09.10		Aug-29-11 (9 15	Aug-29-11 (09 20	Aug-29-11 (09 25	Aug-29-11	9 30	Aug-29-11	09 35	
Anions by E300	Extracted:									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	Analyzed: Sep-02-11 11 00		11 00	Sep-02-11 1	1 00	Sep-02-11	11.00	Sep-07-11	19 40	Sep-02-11	1 00	Sep-02-11 11 00		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		13600	183	2110	23.4	12300	179	523	4 55	3130	44.9	1040	22.7	
Percent Moisture	Extracted:													
	Analyzed: Sep-01-11 12.20		12.20	Sep-01-11 1	2.20	Sep-01-11	12.20	Sep-01-11	12.20	Sep-01-11	2.20	Sep-01-11 12 20		
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL	
Percent Moisture		8 04	1.00	10 3	1 00	6 08	1 00	7.66	1.00	6 50	1 00	7 55	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



Certificate of Analysis Summary 426916

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-22889

Project Location: Eddy County

Contact: Amber Cannon

Date Received in Lab: Thu Sep-01-11 11:55 am

Report Date: 08-SEP-11

Project Manager: Brent Barron II

								Project Manager:	DICIR Danon II	
	Lab Id:	426916-0	007	426916-0	08	426916-0	09			
Analysis Requested	Field Id:	Grab 10.0		Grab 11	0	Grab 12.	.0			
Analysis Requesica	Depth:	10-10 ft		11-11 ft		12-12 ft				
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	Aug-29-11 09 40		Aug-29-11 (09 45	Aug-29-11 (09·50			
Anions by E300	Extracted:	,								
	Analyzed:	Sep-02-11	11 00	Sep-02-11 1	11 00	Sep-02-11 1	11:00			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		2160	45 2	921	46 6	931	24 1			
Percent Moisture	Extracted:				1					
	Analyzed: Sep-01-11 12:20		12.20	Sep-01-11 12.20		Sep-01-11 12 20				
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture		7 15	1 00	9.93	1 00	12.9	1.00			

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Odessa Laboratory Manager

Brent Barron II



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.
- 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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> Final 1.000 Page 7 of 12

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West 1-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

	Project Manager: Amber Cannon											Project Name: Loving AIB State #1																			
	Company Name Yates Petroleum Corporation												Project #: 30-015-22889																		
	Company Address: 105 South 4th Street													Project Loc: Eddy County																	
	City/State/Zip:	Artesia, NM 88210											-			•			PO	#: 1	032	020								_	_
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	Telephone No	575-748-4111			<u> </u>	Fax No:		575-								•	eport		mat	: L	٤	itano	ard		ш	IKK	P	L	N	PDES	,
	Sampler Signature:	amberla	mm	η_		e-mail.		<u> </u>	aça	nn	ioni	<u>@</u> y	<u>rate</u>	spe	trol	eum	<u>.co</u>	m					Analy	ze F	or		—			Т	ı
(lab use o	only)																				TCL TOTA			\Box	П	П	Т	\top	\top	٦,	
ORDER	1#: 426916								Pr	eser	vation	1 & #	of Co	ntaine	rs	Ma	trix	28	1	\neg	T	+	9,	+-	2					48, 72 1	L
LAB # (lab use only)	FIEI	LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total ⊭ of Containers	lce	HNO3	HCI	H2SO4	NaOH Na-5-0,	None	Other (Specify)	DW=Drinking Water St_Shidge	v2	TPH 4181 8015M 801	TPH- TX 1005 TX 1008	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkatinity)	2	Metals As Ag Ge Cd Cr Pb Hg S	Semivolatiles	BTEX 8021B/5030 or BTEX 8260		NORM	Chiorides		RUSH TAT (Pre-Schadule) 24, 48, 72 hrs	Standard TAT
001	Gr	ab 03.0	3'	3'	8/29/2011	9:10 AM	-	1								Ş	3			\exists	\top							х	\Box	${\mathbb T}$	Х
002	Gr	ab 05 0	- 5'	5'	8/29/2011	9:15 AM		1									3											х			X
003	Gr	ab 06.0	6'	6'	8/29/2011	9.20 AM		1		\perp	\perp	\perp		\perp		5	3			\bot							$ \bot $	х		\perp	X
CO4	Gr	ab 07.0	7'	7'	8/29/2011	9:25 AM		1					\perp			5	<u> </u>											х		\perp	X
005	Gr	ab 08.0	8'	8'	8/29/2011	9.30 AM		1									3											х		\perp	Х
006	Gr	ab 09.0	9'	9'	8/29/2011	9:35 AM		1								5	3									\Box	$ \bot $	х		\perp	×
007	Gra	ab 10.0	10'	10'	8/29/2011	9:40 AM		1								5	3											x		\perp	X
CO3	Gr	ab 11.0	11'	11'	8/29/2011	9:45 AM		1								Ş	S							$oxed{oxed}$		1		x		1	X
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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: Yat	<u>es</u>							
Date/Time: 9-1-11	11 55							
Lab ID#: 424	59162							
Initials: 🏑	UI							
		s	ample Receip	t Checki	list			
1. Samples on ice?					Blue	Water	No	
2. Shipping container in	good condition?	(Yes)	No	None				
3. Custody seals intact	on shipping contain	ner (co	ooler) and bottles	?	Yes	No	NIA	
4. Chain of Custody pre	sent?	,			Yes	No		
5. Sample instructions	complete on chain	of cus	tody?		Yes	No		·
6. Any missing / extra s	amples?				Yes	No		
7. Chain of custody sig	ned when relinquis	hed / r	eceived?		Yes	No		
8. Chain of custody agr	ees with sample lat	bel(s)?			Yes	No		
9. Container labels legi	ble and intact?				Yes	No		
10. Sample matrix / pro	perties agree with o		(Yes)	No				
11. Samples in proper o	ontainer / bottle?		Yes	No				
12. Samples properly p	reserved?	Yes	No	N/A				
13. Sample container in	tact?		Yes	No				
14. Sufficient sample a	nount for indicated		Yes	No				
15. All samples receive	d within sufficient h	old tir	ne?		Yes	No		
16. Subcontract of sam	ple(s)?				Yes	No	(N/A)	
17. VOC sample have z	ero head space?				Yes	No	N/A	
18. Cooler 1 No.	Cooler 2 No.		Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
lbs 25.1 °c	lbs lbs	°C	lbs	°C	lbs	°c	lbs	°C
	!	Nonc	onformance	Documei	ntation			
Contact:	Contac	ted by	r=			Date/Time:_		
Regarding:								_
Corrective Action Take	n:							
1	□ Cooling process I condition ac □ Initial and Backup	ccepta o Temp	ble by NELAC 5. perature confirm	5.8.3.1.a.1. out of tem	perature con		ature	

