



# AE Order Number Banner

## Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



**App Number:** pPAC0726933614

**1RP - 1568**

**YATES PETROLEUM CORPORATION**

MARTIN YATES, III  
1912-1985

FRANK W. YATES  
1936-1986



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210-2118  
TELEPHONE (505) 748-1471

S.P. YATES  
CHAIRMAN EMERITUS  
JOHN A. YATES  
CHAIRMAN OF THE BOARD  
PEYTON YATES  
PRESIDENT  
FRANK YATES, JR.  
EXECUTIVE VICE PRESIDENT  
JOHN A. YATES, JR.  
SENIOR VICE PRESIDENT

June 15, 2007

Mr. Chris Williams  
NMOCD District I  
1625 French Drive  
Hobbs, NM 88240

RE: Lusk AHB Federal #2  
30-025-31042  
Section 20, T12S-R34E  
Lea County, New Mexico

RP# 1568

Dear Mr. Williams,

Enclosed please find analytical report results for the above captioned site for remediation of historical staining. As recommended by Jim Amos/BLM the areas to the north and west of the battery were blended. A sampling event was requested on June 5, 2007, samples were taken and sent to an OCD approve laboratory (enclosed analytical reports and site sample maps), the samples taken pertaining to the release are labeled GS/Comp-009; GS/Comp-010; GS/Comp-011 and GS/Comp-012. Based on the analytical results, no further remediation will be conducted at this site. Yates Petroleum Corporation would like to request closure of the site.

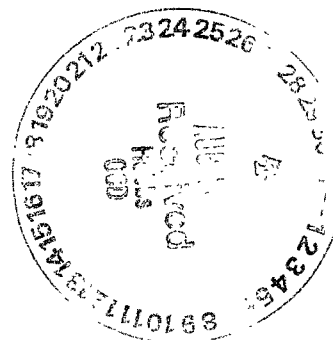
If you have any questions, please call me at 505-748-4217.

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher  
Environmental Regulatory Agent

/rca  
Enclosure(s)



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 <sup>TH</sup> Street		Telephone No. 505-748-1471
Facility Name Lusk AHB Federal #2	API Number 30-025-31042	Facility Type Tank Battery

Surface Owner Federal	Mineral Owner Federal	Lease No. NM-59392
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#### LOCATION OF RELEASE

Unit Letter G	Section 35	Township 19S	Range 32E	Feet from the 1930	North/South Line North	Feet from the 1650	East/West Line East	County Lea
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Latitude 32.61852 Longitude 103.73323

#### NATURE OF RELEASE



Type of Release Crude Oil & Produced Water	Volume of Release 10 B/O & 50 B/PW	Volume Recovered 0 B/O & 25 B/PW
Source of Release Poly Line	Date and Hour of Occurrence 11/17/2006 AM	Date and Hour of Discovery 11/17/2006 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Pat Caperton/OCD via phone and follow up e-mail.	
By Whom? Sherry Bonham/Yates Petroleum Corporation	Date and Hour 11/17/2006 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.\*  
N/A

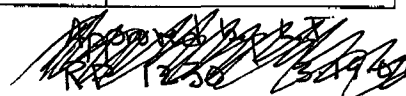
Describe Cause of Problem and Remedial Action Taken.\*  
3" poly line split. Shut valves on water tank and water line. Repaired line.

Describe Area Affected and Cleanup Action Taken.\*  
An approximate area of 30' X 60'. Vacuum truck and crew called in to recover fluids. Affected materials excavated and removed to an OCD approved land facility. Depth to Ground Water: >100', Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. With enclosed information, Yates Petroleum Corporation is requesting closure.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Robert Asher	Approved by District Supervisor: 	
Title: Environmental Regulatory Agent	Approval Date: <u>9/26/07</u>	Expiration Date: <u>9/26/07</u>
E-mail Address: boba@ypcnm.com	Conditions of Approval:	
Date: Friday, June 15, 2007 Phone: 505-748-1471	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary



Sherry Bonham

**From:** Sherry Bonham  
**Sent:** Thursday, January 11, 2007 5:39 PM  
**To:** 'chris.williams@state.nm.us'  
**Subject:** January 10 2006 phone conversation  
**Contacts:** Chris Williams

Chris,

Thank you for taking the time yesterday to talk with me about the following sites. I appreciate your input and guidance. As you requested, I am sending you a brief overview of our conversation:

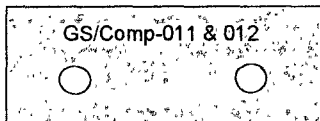
- **SANMAL QUEEN WATERFLOOD 1.** Update for you: Site was sampled on January 4, 2007. We are presently waiting for the analyses. Thaddeus Kostrubala of SLO requested the scheduled site visit of January 17, 2007 be postponed due to him having conflicting scheduled meetings. Mr. Kostrubala also requested to schedule a meeting when sample results are in.
- **GILL BGJ 1 and SANDERS AOU 1** Due to being on fee surface, you suggested to let the rancher know about remediation processes and recommended getting written permission from rancher to proceed.
- **MORTON UNIT 3** Condensate release. Contained within bermed area. Preliminary sampling analyses showed hydrocarbons in C6-C10 range (GRO) above RRALs. I requested that Yates be able to till and fertilize this site. You said you thought this would be fine. We discussed that due to being in the gasoline range once we expose the soil to air, the GRO would flash off. **Chris, I do not have an approval on the work plan already submitted. Additionally, I will send an addendum to the original work plan requesting to till and fertilize site. Would you be able to expedite approval for the work plan and addendum that I can start work on this site?**
- **LUSK AHB 2** Jim Amos of BLM had contacted me regarding historical staining on the west and north side of battery. Mr. Amos recommended scraping the top, flipping over, and blending. You stated that blending will be OK if BLM says it's OK on this historic staining. You also stated that this blending technique would NOT be acceptable for any new release—must handle new releases differently.
- **TENNECO SWD 1:** We discussed how you wanted the paperwork handled on this site. I explained that sample results for the first spill were below RRALs and I was in the process of getting ready for closure. Yates then had another release at this site. You stated that we should close upon remediation of the last release—that the new release and the previous release should be closed at the same time.

If you have any questions, please don't hesitate to contact me and should I not hear from you, I will assume that you are in agreement. Thanks, Chris

Sherry Bonham



Blending Area



Pump Jack

Berm

Separator

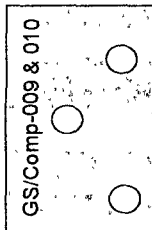
Sample ID	Sample Date	Depth	BTEX	TPH (GRO)	TPH (DRO)	TPH (Total)	Chlorides
GS/Comp-001	6/5/2007	3'	1.82	124	471	595	1190
GS/Comp-002	6/5/2007	3'	12.50	1150	3520	4670	1830
GS/Comp-003	6/5/2007	3'	0.37	98.2	752	850	340
GS/Comp-004	6/5/2007	5'	4.04	541	1420	1960	574
GS/Comp-005	5/22/2007	3'	4.79	251	645	896	1080
GS/Comp-006	6/5/2007	2'	ND	ND	620	620	191
GS/Comp-007	6/5/2007	1'	ND	ND	476	476	42.5
GS/Comp-008	6/5/2007	2'	ND	J	28.3	28.3	276
GS/Comp-009	6/5/2007	1'	ND	ND	2680	2680	42.5
GS/Comp-010	6/5/2007	2'	ND	ND	342	342	21.3
GS/Comp-011	6/5/2007	1'	ND	ND	489	489	181
GS/Comp-012	6/5/2007	2'	ND	ND	235	235	170

Analysis conducted by Environmental Lab of Texas

Results are in ppm. J - Detected but below the Reporting Limit.

SITE RANKING: Zero (0)

Blending Area



H/T

P/W

Oil

Oil

Oil

GS/Comp-006

Excavation

Excavation

GS/Comp-007 & 008

GS/Comp-001

GS/Comp-004

GS/Comp-005

Excavation



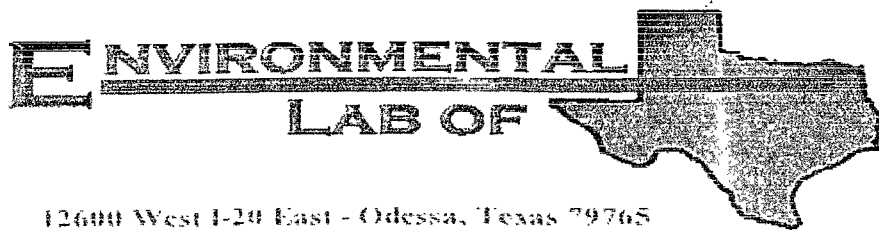
Lusk AHB Federal #2

Section 35, T19S-R23E

Lea County, NM

EXHIBIT

Sample Diagram (Not to Scale)  
Prepared by Robert Asher  
Environmental Regulatory Agent  
June 15, 2007



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

## Analytical Report

**Prepared for:**

Robert Asher

Yates Petroleum Corp.

105 S. Fourth St.

Artesia, NM 88210

Project: Lusk AHB Federal #2

Project Number: 30-025-31042

Location: Lea County

Lab Order Number: 7F07003

Report Date: 06/14/07

Yates Petroleum Corp.  
105 S. Fourth St  
Artesia NM, 88210

Project: Lusk AHB Federal #2  
Project Number 30-025-31042  
Project Manager: Robert Asher

Fax (505) 748-4662

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GS/ Comp-001	7F07003-01	Soil	06/05/07 10:20	06-07-2007 10:00
GS/ Comp-002	7F07003-02	Soil	06/05/07 10:35	06-07-2007 10:00
GS/ Comp-003	7F07003-03	Soil	06/05/07 10:50	06-07-2007 10:00
GS/ Comp-004	7F07003-04	Soil	06/05/07 11:07	06-07-2007 10:00
GS/ Comp-005	7F07003-05	Soil	06/05/07 11:24	06-07-2007 10:00
GS/ Comp-006	7F07003-06	Soil	06/05/07 11:45	06-07-2007 10:00
GS/ Comp-007	7F07003-07	Soil	06/05/07 12:00	06-07-2007 10:00
GS/ Comp-008	7F07003-08	Soil	06/05/07 12:11	06-07-2007 10:00
GS/ Comp-009	7F07003-09	Soil	06/05/07 12:25	06-07-2007 10:00
GS/ Comp-0010	7F07003-10	Soil	06/05/07 12:40	06-07-2007 10:00
GS/ Comp-0011	7F07003-11	Soil	06/05/07 12:51	06-07-2007 10:00
GS/ Comp-0012	7F07003-12	Soil	06/05/07 11:59	06-07-2007 10:00

Yates Petroleum Corp.  
105 S. Fourth St.  
Artesia NM, 88210

Project Lusk AHB Federal #2  
Project Number 30-025-31042  
Project Manager, Robert Asher

Fax: (505) 748-4662

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GS/ Comp-001 (7F07003-01) Soil</b>									
Benzene	J [0.00893]	0.0250	mg/kg dry	25	EF70803	06/08/07	06/08/07	EPA 8021B	
Toluene	0.147	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.389	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.922	0.0250	"	"	"	"	"	"	
Xylene (o)	0.358	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		112 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		130 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C10	124	10.0	mg/kg dry	1	EF70703	06/07/07	06/11/07	EPA 8015B	
Carbon Ranges >C10-C28	471	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	595	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		81.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		83.2 %	70-130		"	"	"	"	
<b>GS/ Comp-002 (7F07003-02) Soil</b>									
Benzene	1.99	0.0500	mg/kg dry	50	EF70803	06/08/07	06/08/07	EPA 8021B	
Toluene	2.55	0.0500	"	"	"	"	"	"	
Ethylbenzene	2.78	0.0500	"	"	"	"	"	"	
Xylene (p/m)	3.66	0.0500	"	"	"	"	"	"	
Xylene (o)	1.52	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		140 %	75-125		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		136 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C10	1150	50.0	mg/kg dry	5	EF70703	06/07/07	06/11/07	EPA 8015B	
Carbon Ranges >C10-C28	3520	50.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	4670	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		21.4 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		16.6 %	70-130		"	"	"	"	S-06
<b>GS/ Comp-003 (7F07003-03) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EF70803	06/08/07	06/08/07	EPA 8021B	
Toluene	0.0457	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.0815	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.203	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0394	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.4 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.8 %	75-125		"	"	"	"	
Carbon Ranges C6-C10	98.2	50.0	mg/kg dry	5	EF70703	06/07/07	06/11/07	EPA 8015B	
Carbon Ranges >C10-C28	752	50.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	850	50.0	"	"	"	"	"	"	

Environmental Lab of Texas

A Xenco Laboratories Company

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 14



Yates Petroleum Corp  
105 S. Fourth St  
Artesia NM, 88210

Project: Lusk AHB Federal #2  
Project Number: 30-025-31042  
Project Manager: Robert Asher

Fax: (505) 748-4662

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GS/ Comp-003 (7F07003-03) Soil</b>									
Surrogate: 1-Chlorooctane		15.7 %	70-130		EF70703	06/07/07	06/11/07	EPA 8015B	S-06
Surrogate: 1-Chlorooctadecane		16.5 %	70-130		"	"	"	"	S-06
<b>GS/ Comp-004 (7F07003-04) Soil</b>									
Benzene	0.633	0.0250	mg/kg dry	25	EF70803	06/08/07	06/08/07	EPA 8021B	
Toluene	1.16	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.754	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.939	0.0250	"	"	"	"	"	"	
Xylene (o)	0.554	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		137 %	75-125		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		146 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C10	541	50.0	mg/kg dry	.5	EF70703	06/07/07	06/11/07	EPA 8015B	
Carbon Ranges >C10-C28	1420	50.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	1960	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		20.0 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		16.2 %	70-130		"	"	"	"	S-06
<b>GS/ Comp-005 (7F07003-05) Soil</b>									
Benzene	0.753	0.0250	mg/kg dry	25	EF70803	06/06/07	06/06/07	EPA 8021B	
Toluene	0.972	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.804	0.0250	"	"	"	"	"	"	
Xylene (p/m)	1.80	0.0250	"	"	"	"	"	"	
Xylene (o)	0.463	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		136 %	75-125		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		141 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C10	251	50.0	mg/kg dry	5	EF70703	06/07/07	06/11/07	EPA 8015B	
Carbon Ranges >C10-C28	645	50.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	896	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		17.2 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		16.6 %	70-130		"	"	"	"	S-06

Environmental Lab of Texas

A Xenco Laboratories Company

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Page 3 of 14

Yates Petroleum Corp.  
105 S Fourth St.  
Artesia NM, 88210

Project: Lusk AHB Federal #2  
Project Number 30-025-31042  
Project Manager: Robert Asher

Fax: (505) 748-4662

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GS/ Comp-006 (7F07003-06) Soil</b>									
Benzene	ND	0.00200	mg/kg dry	2	BF70803	06/08/07	06/08/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		77.0 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		66.4 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C10	ND	100	mg/kg dry	10	EF70703	06/07/07	06/11/07	EPA 8015B	
Carbon Ranges >C10-C28	620	100	"	"	"	"	"	"	
Total Carbon Range C6-C28	620	100	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		7.74 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		8.22 %	70-130		"	"	"	"	S-06
<b>GS/ Comp-007 (7F07003-07) Soil</b>									
Benzene	ND	0.00200	mg/kg dry	2	BF70803	06/08/07	06/08/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.0 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		67.0 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C10	ND	50.0	mg/kg dry	5	EF70703	06/07/07	06/11/07	EPA 8015B	
Carbon Ranges >C10-C28	476	50.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	476	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		16.2 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		16.8 %	70-130		"	"	"	"	S-06
<b>GS/ Comp-008 (7F07003-08) Soil</b>									
Benzene	ND	0.00200	mg/kg dry	2	EF70803	06/08/07	06/08/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.4 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.6 %	75-125		"	"	"	"	
Carbon Ranges C6-C10	J [7.25]	10.0	mg/kg dry	1	EF70703	06/07/07	06/11/07	EPA 8015B	I
Carbon Ranges >C10-C28	28.3	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	28.3	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

A Xenco Laboratories Company

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Yates Petroleum Corp.  
105'S. Fourth St.  
Artesia NM, 88210

Project: Lusk AHB Federal #2  
Project Number: 30-025-31042  
Project Manager: Robert Asher

Fax: (505) 748-4662

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**GS/ Comp-008 (7F07003-08) Soil**

Surrogate: 1-Chlorooctane		77.0 %	70-130		EF70703	06/07/07	06/11/07	EPA 8015B	
Surrogate: 1-Chlorooctadecane		81.8 %	70-130		"	"	"	"	

**GS/ Comp-009 (7F07003-09) Soil**

Benzene	ND	0.0250	mg/kg dry	25	EF70803	06/08/07	06/08/07	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		105 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	75-125		"	"	"	"	
Carbon Ranges C6-C10	ND	100	mg/kg dry	10	EF70703	06/07/07	06/11/07	EPA 8015B	
Carbon Ranges >C10-C28	2680	100	"	"	"	"	"	"	
Total Carbon Range C6-C28	2680	100	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		7.74 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		8.28 %	70-130		"	"	"	"	S-06

**GS/ Comp-0010 (7F07003-10) Soil**

Benzene	ND	0.00200	mg/kg dry	2	EF70803	06/08/07	06/08/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.6 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		75.6 %	75-125		"	"	"	"	
Carbon Ranges C6-C10	ND	50.0	mg/kg dry	5	EF70703	06/07/07	06/11/07	EPA 8015B	
Carbon Ranges >C10-C28	342	50.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	342	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		15.2 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		16.1 %	70-130		"	"	"	"	S-06

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Yates Petroleum Corp.  
105 S. Fourth St.  
Artesia NM, 88210

Project: Lusk AHB Federal #2  
Project Number: 30-025-31042  
Project Manager: Robert Asher

Fax: (505) 748-4662

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GS/ Comp-0011 (7F07003-11) Soil</b>									
Benzene	ND	0.00200	mg/kg dry	2	EF70803	06/08/07	06/08/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		80.8 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		79.4 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C10	ND	50.0	mg/kg dry	5	EF70703	06/08/07	06/11/07	EPA 8015B	
Carbon Ranges >C10-C28	489	50.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	489	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		15.3 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		16.3 %	70-130		"	"	"	"	S-06
<b>GS/ Comp-0012 (7F07003-12) Soil</b>									
Benzene	ND	0.00200	mg/kg dry	2	EF70803	06/08/07	06/08/07	EPA 8021B	
Toluene	ND	0.00200	"	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00200	"	"	"	"	"	"	
Xylene (o)	ND	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		83.2 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		75.0 %	75-125		"	"	"	"	
Carbon Ranges C6-C10	ND	50.0	mg/kg dry	5	EF70703	06/08/07	06/11/07	EPA 8015B	
Carbon Ranges >C10-C28	235	50.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	235	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		15.7 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		16.3 %	70-130		"	"	"	"	S-06

Environmental Lab of Texas

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Yates Petroleum Corp.  
105 S. Fourth St.  
Artesia NM, 88210

Project Lusk AHB Federal #2  
Project Number 30-025-31042  
Project Manager Robert Asher

Fax. (505) 748-4662

**General Chemistry Parameters by EPA / Standard Methods  
Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GS/ Comp-001 (7F07003-01) Soil</b>									
Chloride	1190	20.0	mg/kg Wet	2	EF71107	06/11/07	06/11/07	SW 846 9253	
% Moisture	15.4	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
<b>GS/ Comp-002 (7F07003-02) Soil</b>									
Chloride	1830	20.0	mg/kg Wet	2	EF71107	06/11/07	06/11/07	SW 846 9253	
% Moisture	8.6	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
<b>GS/ Comp-003 (7F07003-03) Soil</b>									
Chloride	340	20.0	mg/kg Wet	2	EF71107	06/11/07	06/11/07	SW 846 9253	
% Moisture	12.0	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
<b>GS/ Comp-004 (7F07003-04) Soil</b>									
Chloride	574	20.0	mg/kg Wet	2	EF71107	06/11/07	06/11/07	SW 846 9253	
% Moisture	10.4	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
<b>GS/ Comp-005 (7F07003-05) Soil</b>									
Chloride	1080	20.0	mg/kg Wet	2	EF71107	06/11/07	06/11/07	SW 846 9253	
% Moisture	14.1	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
<b>GS/ Comp-006 (7F07003-06) Soil</b>									
Chloride	191	20.0	mg/kg Wet	2	EF71107	06/11/07	06/11/07	SW 846 9253	
% Moisture	7.1	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
<b>GS/ Comp-007 (7F07003-07) Soil</b>									
Chloride	42.5	20.0	mg/kg Wet	2	EF71107	06/11/07	06/11/07	SW 846 9253	
% Moisture	7.4	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
<b>GS/ Comp-008 (7F07003-08) Soil</b>									
Chloride	276	20.0	mg/kg Wet	2	EF71107	06/11/07	06/11/07	SW 846 9253	
% Moisture	11.7	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	

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Yates Petroleum Corp.  
105 S. Fourth St.  
Artesia NM, 88210

Project: Lusk AHB Federal #2  
Project Number 30-025-31042  
Project Manager: Robert Asher

Fax: (505) 748-4662

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GS/ Comp-009 (7F07003-09) Soil</b>									
Chloride	42.5	20.0	mg/kg Wet	2	EF71107	06/11/07	06/11/07	SW 846 9253	
% Moisture	3.7	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
<b>GS/ Comp-0010 (7F07003-10) Soil</b>									
Chloride	21.3	20.0	mg/kg Wet	2	EF71107	06/11/07	06/11/07	SW 846 9253	
% Moisture	4.0	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
<b>GS/ Comp-0011 (7F07003-11) Soil</b>									
Chloride	181	20.0	mg/kg Wet	2	EF71107	06/11/07	06/11/07	SW 846 9253	
% Moisture	5.1	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	
<b>GS/ Comp-0012 (7F07003-12) Soil</b>									
Chloride	170	20.0	mg/kg Wet	2	EF71107	06/11/07	06/11/07	SW 846 9253	
% Moisture	6.7	0.1	%	1	EF70801	06/07/07	06/08/07	% calculation	

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Yates Petroleum Corp.  
105-S, Fourth St.  
Artesia NM, 88210

Project: Lusk AHB Federal #2  
Project Number: 30-025-31042  
Project Manager: Robert Asher

Fax: (505) 748-4662

### Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-10 LCS/LCSD were analyzed in place of MS/MSD.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag)

DEI Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By.



Date:

6/14/2007

Brent Barron, Laboratory Director/Corp. Technical Director  
Celey D. Keene, Org. Tech Director  
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer  
Jeanne Mc Murrey, Inorg. Tech Director

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Environmental Lab of Texas

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# 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 Robert Asher  
Company Name Yates Petroleum Corporation  
Company Address 105 South 4th Street  
City/State/Zip Artesia, NM 88210  
Telephone No: 505-748-4217  
Sampler Signature [Signature]

Project Name Lusk AHB Federal #2  
Project # 30-025-31042  
Project Loc Lea County  
PO # 105632  
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Fax No. 505-748-4662  
e-mail boba@ypcnm.com

(lab use only)

ORDER #:

7F07003

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Entered	Total # of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S O <sub>4</sub>	None	Other ( Specify )	CW=Drinking Water SL=Shedde GW = Groundwater SS=Soil/Sed NP=Non-Pointe Specify Other	TPH 418 1 8015M 8815M	TPH TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkaline, )	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg Mn Ni Pb Se V Zn	Volatiles	Semivolatiles	RTEX B02 =B0300 or BTEX 1282X	RCI	NORM	Chlorides	RUSH TAT (Pro-Schedule) 24 48	Standard TAT	
07	GS/Comp-007	1'	1'	6/5/2007	12:00 PM		1	X								S	X							X							X
08	GS/Comp-008	2'	2'	6/5/2007	12:11 PM		1	X								S	X							X							X
09	GS/Comp-009	1'	1'	6/5/2007	12:25 PM		1	X								S	X							X							X
10	GS/Comp-0010	2'	2'	6/5/2007	12:40 PM		1	X								S	X							X							X
11	GS/Comp-011	1'	1'	6/5/2007	12:51 PM		1	X								S	X							X							X
12	GS/Comp-012	2'	2'	6/5/2007	12:59 PM		1	X								S	X							X							X
		</																													

Special Instructions:

TPH, 8015B BTEX, 8021B and Chlorides. Show BTEX results in mg/kg Thank you

Laboratory Comments:

Sample Containers Intact? ☒ N  
VOCs Free of Headspace? ☒ N  
Labels on container(s) ☒ N  
Custody seals on container(s) ☒ N  
Custody seals on cooler(s) ☒ N  
Sample Hand Delivered ☒ N  
by Sampler/Client Rep? ☒ N  
by Courier? ☒ UPS DHL FedEx Lone Star  
Temperature Upon Receipt 45 °C

Relinquished by	Date	Time	Received by	Date	Time
Robert Asher <u>RCA/UPC</u>	06/06/07	2:08 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
FedEx <u>791310113368</u>			<u>Andrea Lamm</u>	6-7-07	10:00

# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client Yates  
 Date/ Time 6/07/10 00  
 Lab ID # 7F07003  
 Initials AL

### Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>4.5</u> °C	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont / Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by ELDT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	<u>Yes</u>	No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

### Variance Documentation

Contact \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time \_\_\_\_\_

Regarding \_\_\_\_\_

Corrective Action Taken

- Check all that Apply.
- ☐ See attached e-mail/ fax
  - ☐ Client understands and would like to proceed with analysis
  - ☐ Cooling process had begun shortly after sampling event