

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 TH Street		Telephone No. 575-748-1471
Facility Name Loving AIB State #1	API Number 30-015-22889	Facility Type Battery

Surface Owner Fee	Mineral Owner State	Lease No. V-3346
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LOCATION OF RELEASE

Unit Letter G	Section 16	Township 23S	Range 28E	Feet from the 1550	North/South Line North	Feet from the 1780	East/West Line East	County Eddy
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Latitude 32.08078 Longitude 104.32211

NATURE OF RELEASE


Type of Release Oil & Produced Water	Volume of Release 15 B/O & 100 B/PW	Volume Recovered 13 B/O & 70 B/PW
Source of Release Water Line	Date and Hour of Occurrence 5/1/2013; AM	Date and Hour of Discovery 5/1/2013; AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/NMOCD District II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 5/1/2013; PM	
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.*
Water line failed in tinhorn to cause release. Vacuum trucks called.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 25' X 25' & 5' X 200' (west of battery). Impacted soils scraped up (approximately 12" deep) and taken to an NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 10) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. **Depth to Ground Water: 50-99' (50', ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: > 1000', SITE RANKING IS 10. Based on impacted soils excavated/hailed, sample results and area bermed/lined for any future containment, Yates Petroleum Corporation requests 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: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Robert Asher	Approved by District Supervisor:	
Title: NM Environmental Regulatory Supervisor	Approval Date:	Expiration Date:
E-mail Address: boba@yatespetroleum.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Monday, February 03, 2014 Phone: 575-748-4021	2RP-	

* Attach Additional Sheets If Necessary

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1220 South St. Francis Dr.
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side of form

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☐ Initial Report ☒ Final Report

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Address 104 S. 4 TH Street		Telephone No. 575-748-1471
Facility Name Loving AIB State #1	API Number 30-015-22889	Facility Type Battery

Surface Owner Fee	Mineral Owner State	Lease No. V-3346
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LOCATION OF RELEASE

Unit Letter G	Section 16	Township 23S	Range 28E	Feet from the 1550	North/South Line North	Feet from the 1780	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude 32.08078 Longitude 104.32211


NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 260 B/PW	Volume Recovered 245 B/PW
Source of Release Water Line	Date and Hour of Occurrence 6/4/2013; AM	Date and Hour of Discovery 6/4/2013; AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/NMOCD District II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 6/4/2013; PM	
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.*
Water line failed in tinhorn to cause release. Vacuum trucks called.

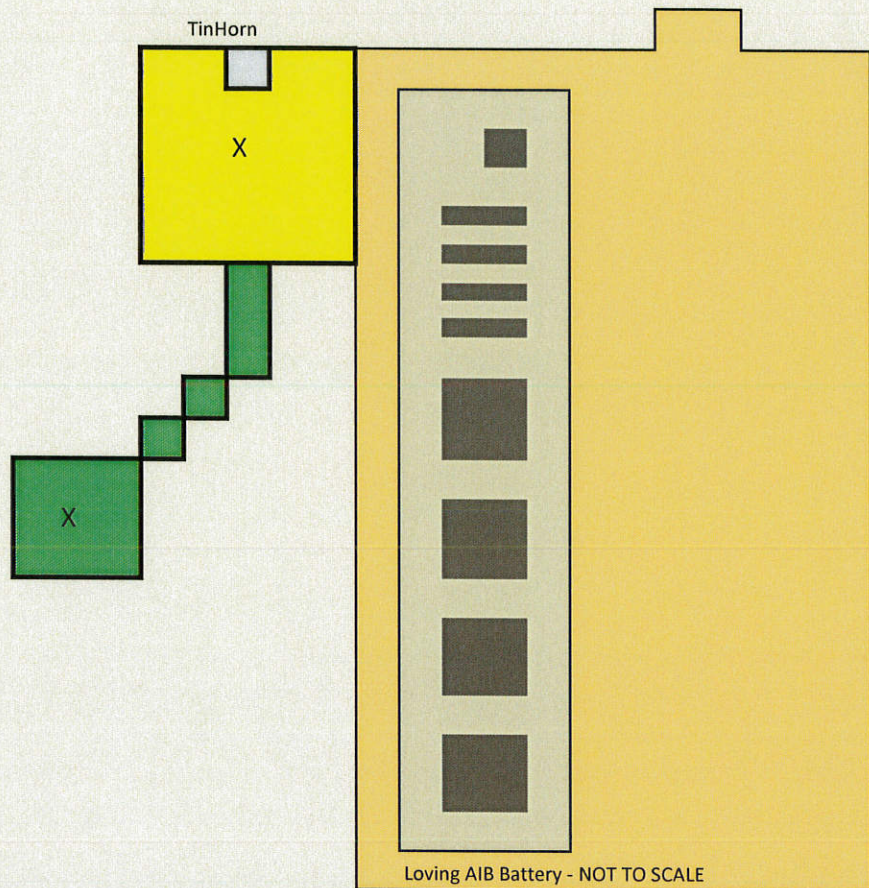
Describe Area Affected and Cleanup Action Taken.*
An approximate area of 25' X 25' & 5' X 200' (west of battery). Impacted soils scraped up (an additional 12" deep, total excavated is approximately 24" including 12" of impacted soils removed from 5/1/2014 release) and taken to an NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 10) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. **Depth to Ground Water: 50-99' (50', ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: > 1000', SITE RANKING IS 10. Based on impacted soils excavated/hailed, sample results and area bermed/lined for any future containment, Yates Petroleum Corporation requests closure.**

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Signature: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Robert Asher	Approved by District Supervisor:		
Title: NM Environmental Regulatory Supervisor	Approval Date:	Expiration Date:	
E-mail Address: boba@yatespetroleum.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: Monday, February 03, 2014 Phone: 575-748-4021	2RP-		

* Attach Additional Sheets If Necessary

YATES PETROLEUM CORPORATION
ENVIRONMENTAL DIVISION



Analytical Report-1306B45 (Hall)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
Comp-01.0	Release Area	6/24/2013	Comp/Backhoe	1'	ND	ND	17	10000
Comp-02.0	Release Area	6/24/2013	Comp/Backhoe	2'	ND	ND	ND	2700
Comp-03.0	Release Area	6/24/2013	Comp/Backhoe	3'	ND	ND	ND	250
Comp-01.0	Release Area	6/24/2013	Comp/Backhoe	1'	ND	ND	ND	16000
Comp-02.0	Release Area	6/24/2013	Comp/Backhoe	2'	ND	ND	ND	20000
Comp-03.0	Release Area	6/24/2013	Comp/Backhoe	3'	ND	ND	ND	22000
Analytical Report-1308395 (Hall)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
C04.0	Release Area	8/7/2013	Comp/Backhoe	4'				8000
C05.0	Release Area	8/7/2013	Comp/Backhoe	5'				12000
C06.0	Release Area	8/7/2013	Comp/Backhoe	6'				21000
C07.0	Release Area	8/7/2013	Comp/Backhoe	7'				21000
C08.0	Release Area	8/7/2013	Comp/Backhoe	8'				18000
C09.0	Release Area	8/7/2013	Comp/Backhoe	9'				17000
Analytical Report-H302772 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
c10.0	Release Area	11/7/2013	Comp/Backhoe	10'				5200
c12.0	Release Area	11/7/2013	Comp/Backhoe	12'				14400
c14.0	Release Area	11/7/2013	Comp/Backhoe	14'				4120
c16.0	Release Area	11/7/2013	Comp/Backhoe	16'				2280
c18.0	Release Area	11/7/2013	Comp/Backhoe	18'				384

Site Ranking is Ten(10). DTGW: 50-99' (approx. 50', ChevronTexaco Trend Map). All results are ppm.

Chloride samples for documentation.

Proposed excavation of impacted soil.

Released: 15 B/O & 100 B/PW; Recovered: 13 B/O & 70 B/PW. Release Date: 5/1/2013

Released: 260 B/PW; Recovered: 245 B/PW. Release Date: 6/4/2013

Loving AIB Battery
Section 16, T23S-R26E
Eddy County, New Mexico



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 02, 2013

Robert Asher

Yates Petroleum

105 South 4th

Artesia, NM 88210

TEL: (575) 748-4217

FAX

RE: Loving AIB State #1

OrderNo.: 1306B45

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 6 sample(s) on 6/26/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306B45

Date Reported: 7/2/2013

CLIENT: Yates Petroleum

Client Sample ID: Comp-01.0

Project: Loving AIB State #1

Collection Date: 6/24/2013 9:45:00 AM

Lab ID: 1306B45-001

Matrix: SOIL

Received Date: 6/26/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	16000	750		mg/Kg	500	6/28/2013 9:44:06 PM	8142

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1306B45**

Date Reported: 7/2/2013

CLIENT: Yates Petroleum

Client Sample ID: Comp-02.0

Project: Loving AIB State #1

Collection Date: 6/24/2013 9:50:00 AM

Lab ID: 1306B45-002

Matrix: SOIL

Received Date: 6/26/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	20000	750		mg/Kg	500	6/28/2013 9:56:30 PM	8142

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Analytical Report

Lab Order 1306B45

Date Reported: 7/2/2013

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Yates Petroleum**Client Sample ID:** Comp-03.0**Project:** Loving AIB State #1**Collection Date:** 6/24/2013 9:55:00 AM**Lab ID:** 1306B45-003**Matrix:** SOIL**Received Date:** 6/26/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	22000	1500		mg/Kg	1E	6/28/2013 10:08:55 PM	8142

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306B45

Date Reported: 7/2/2013

CLIENT: Yates Petroleum

Client Sample ID: Comp-01.0

Project: Loving AIB State #1

Collection Date: 6/24/2013 10:00:00 AM

Lab ID: 1306B45-004

Matrix: SOIL

Received Date: 6/26/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	10000	750		mg/Kg	500	6/28/2013 10:21:19 PM	8142

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306B45

Date Reported: 7/2/2013

CLIENT: Yates Petroleum

Client Sample ID: Comp-02.0

Project: Loving AIB State #1

Collection Date: 6/24/2013 10:05:00 AM

Lab ID: 1306B45-005

Matrix: SOIL

Received Date: 6/26/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	2700	750		mg/Kg	500	6/28/2013 10:33:44 PM	8142

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306B45

Date Reported: 7/2/2013

CLIENT: Yates Petroleum

Client Sample ID: Comp-03.0

Project: Loving AIB State #1

Collection Date: 6/24/2013 10:10:00 AM

Lab ID: 1306B45-006

Matrix: SOIL

Received Date: 6/26/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	250	150		mg/Kg	100	7/2/2013 4:31:52 AM	8142

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Sample Log-In Check List

Client Name: Yates Petroleum Corporat

Work Order Number: 1306B45

RcptNo: 1

Received by/date: LM 06/26/13

Logged By: Michelle Garcia 6/26/2013 9:00:00 AM *Michelle Garcia*

Completed By: Michelle Garcia 6/27/2013 8:35:14 AM *Michelle Garcia*

Reviewed By: *mg* 06/27/13

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? FedEx

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes			

Client: Yates Petroleum Corporation

Mailing Address: 105 S. Fourth Street

Artesia, NM 88210

Phone #: 575-748-4217

email or Fax#: boba@yatespetroleum.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Date	Time	Matrix	Sample Request ID
6/24/2013	9:45 AM	Soil	Comp-01.0
6/24/2013	9:50 AM	Soil	Comp-02.0
6/24/2013	9:55 AM	Soil	Comp-03.0
6/24/2013	10:00 AM	Soil	Comp-01.0
6/24/2013	10:05 AM	Soil	Comp-02.0
6/24/2013	10:10 AM	Soil	Comp-03.0

Container Type and #
Preservative Type
HEAL No.
13060845

1 - 4oz.	Ice	-061
1 - 4oz.	Ice	-002
1 - 4oz.	Ice	-003
1 - 4oz.	Ice	-004
1 - 4oz.	Ice	-005
1 - 4oz.	Ice	-006

Sample Temperature: 21.6

On Ice: ☒ Yes ☐ No

Sampler: Same

Project Manager: Robert Asher

Project #: 30-015-22889

Project Name: Loving AIB State #1

☒ Standard ☐ Rush

Analysis Request

BTEX + MTBE + TMB's (8021)

BTEX + MTBE + TPH (Gas only)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)

Relinquished by: [Signature]

Date: 6/25/2013

Time: 3:19 PM

Received by: [Signature]

Date: 6/26/2013

Time: 1:30 PM

Remarks: Please put chloride results on separate report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 02, 2013

Robert Asher
Yates Petroleum
105 South 4th
Artesia, NM 88210
TEL: (575) 748-4217
FAX

RE: Loving AIB State #1

OrderNo.: 1306B45

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 6 sample(s) on 6/26/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306B45

Date Reported: 7/2/2013

CLIENT: Yates Petroleum

Client Sample ID: Comp-01.0

Project: Loving AIB State #1

Collection Date: 6/24/2013 9:45:00 AM

Lab ID: 1306B45-001

Matrix: SOIL

Received Date: 6/26/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/28/2013 5:31:52 PM	8095
Surr: DNOP	101	63-147		%REC	1	6/28/2013 5:31:52 PM	8095
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/28/2013 4:05:49 PM	8141
Surr: BFB	92.3	80-120		%REC	1	6/28/2013 4:05:49 PM	8141
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.098		mg/Kg	1	6/28/2013 4:05:49 PM	8141
Benzene	ND	0.049		mg/Kg	1	6/28/2013 4:05:49 PM	8141
Toluene	ND	0.049		mg/Kg	1	6/28/2013 4:05:49 PM	8141
Ethylbenzene	ND	0.049		mg/Kg	1	6/28/2013 4:05:49 PM	8141
Xylenes, Total	ND	0.098		mg/Kg	1	6/28/2013 4:05:49 PM	8141
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	6/28/2013 4:05:49 PM	8141

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306B45

Date Reported: 7/2/2013

CLIENT: Yates Petroleum

Client Sample ID: Comp-02.0

Project: Loving AIB State #1

Collection Date: 6/24/2013 9:50:00 AM

Lab ID: 1306B45-002

Matrix: SOIL

Received Date: 6/26/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	17	9.9		mg/Kg	1	6/28/2013 5:53:46 PM	8095
Surr: DNOP	104	63-147		%REC	1	6/28/2013 5:53:46 PM	8095
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/28/2013 5:36:28 PM	8141
Surr: BFB	96.4	80-120		%REC	1	6/28/2013 5:36:28 PM	8141
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	6/28/2013 5:36:28 PM	8141
Benzene	ND	0.048		mg/Kg	1	6/28/2013 5:36:28 PM	8141
Toluene	ND	0.048		mg/Kg	1	6/28/2013 5:36:28 PM	8141
Ethylbenzene	ND	0.048		mg/Kg	1	6/28/2013 5:36:28 PM	8141
Xylenes, Total	ND	0.095		mg/Kg	1	6/28/2013 5:36:28 PM	8141
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	6/28/2013 5:36:28 PM	8141

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306B45

Date Reported: 7/2/2013

CLIENT: Yates Petroleum

Client Sample ID: Comp-03.0

Project: Loving AIB State #1

Collection Date: 6/24/2013 9:55:00 AM

Lab ID: 1306B45-003

Matrix: SOIL

Received Date: 6/26/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/28/2013 6:15:35 PM	8095
Surr: DNOP	102	63-147		%REC	1	6/28/2013 6:15:35 PM	8095
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/28/2013 6:06:56 PM	8141
Surr: BFB	93.5	80-120		%REC	1	6/28/2013 6:06:56 PM	8141
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096		mg/Kg	1	6/28/2013 6:06:56 PM	8141
Benzene	ND	0.048		mg/Kg	1	6/28/2013 6:06:56 PM	8141
Toluene	ND	0.048		mg/Kg	1	6/28/2013 6:06:56 PM	8141
Ethylbenzene	ND	0.048		mg/Kg	1	6/28/2013 6:06:56 PM	8141
Xylenes, Total	ND	0.096		mg/Kg	1	6/28/2013 6:06:56 PM	8141
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	6/28/2013 6:06:56 PM	8141

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Analytical ReportLab Order **1306B45**

Date Reported: 7/2/2013

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Yates Petroleum**Client Sample ID:** Comp-01.0**Project:** Loving AIB State #1**Collection Date:** 6/24/2013 10:00:00 AM**Lab ID:** 1306B45-004**Matrix:** SOIL**Received Date:** 6/26/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/28/2013 6:37:27 PM	8095
Surr: DNOP	103	63-147		%REC	1	6/28/2013 6:37:27 PM	8095
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/28/2013 6:37:14 PM	8141
Surr: BFB	88.7	80-120		%REC	1	6/28/2013 6:37:14 PM	8141
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	6/28/2013 6:37:14 PM	8141
Benzene	ND	0.047		mg/Kg	1	6/28/2013 6:37:14 PM	8141
Toluene	ND	0.047		mg/Kg	1	6/28/2013 6:37:14 PM	8141
Ethylbenzene	ND	0.047		mg/Kg	1	6/28/2013 6:37:14 PM	8141
Xylenes, Total	ND	0.095		mg/Kg	1	6/28/2013 6:37:14 PM	8141
Surr: 4-Bromofluorobenzene	98.1	80-120		%REC	1	6/28/2013 6:37:14 PM	8141

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306B45

Date Reported: 7/2/2013

CLIENT: Yates Petroleum

Client Sample ID: Comp-02.0

Project: Loving AIB State #1

Collection Date: 6/24/2013 10:05:00 AM

Lab ID: 1306B45-005

Matrix: SOIL

Received Date: 6/26/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/28/2013 6:59:06 PM	8095
Surr: DNOP	79.0	63-147		%REC	1	6/28/2013 6:59:06 PM	8095
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/28/2013 7:07:21 PM	8141
Surr: BFB	90.8	80-120		%REC	1	6/28/2013 7:07:21 PM	8141
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096		mg/Kg	1	6/28/2013 7:07:21 PM	8141
Benzene	ND	0.048		mg/Kg	1	6/28/2013 7:07:21 PM	8141
Toluene	ND	0.048		mg/Kg	1	6/28/2013 7:07:21 PM	8141
Ethylbenzene	ND	0.048		mg/Kg	1	6/28/2013 7:07:21 PM	8141
Xylenes, Total	ND	0.096		mg/Kg	1	6/28/2013 7:07:21 PM	8141
Surr: 4-Bromofluorobenzene	99.8	80-120		%REC	1	6/28/2013 7:07:21 PM	8141

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Analytical ReportLab Order **1306B45**

Date Reported: 7/2/2013

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Yates Petroleum**Client Sample ID:** Comp-03.0**Project:** Loving AIB State #1**Collection Date:** 6/24/2013 10:10:00 AM**Lab ID:** 1306B45-006**Matrix:** SOIL**Received Date:** 6/26/2013 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/28/2013 7:20:50 PM	8095
Surr: DNOP	73.0	63-147		%REC	1	6/28/2013 7:20:50 PM	8095
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/28/2013 7:37:39 PM	8141
Surr: BFB	89.4	80-120		%REC	1	6/28/2013 7:37:39 PM	8141
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.092		mg/Kg	1	6/28/2013 7:37:39 PM	8141
Benzene	ND	0.046		mg/Kg	1	6/28/2013 7:37:39 PM	8141
Toluene	ND	0.046		mg/Kg	1	6/28/2013 7:37:39 PM	8141
Ethylbenzene	ND	0.046		mg/Kg	1	6/28/2013 7:37:39 PM	8141
Xylenes, Total	ND	0.092		mg/Kg	1	6/28/2013 7:37:39 PM	8141
Surr: 4-Bromofluorobenzene	97.9	80-120		%REC	1	6/28/2013 7:37:39 PM	8141

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1306B45

02-Jul-13

Client: Yates Petroleum
Project: Loving AIB State #1

Sample ID	MB-8095	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	8095	RunNo:	11523					
Prep Date:	6/25/2013	Analysis Date:	6/25/2013	SeqNo:	326782	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.5		10.00		85.3	63	147			

Sample ID	LCS-8095		SampType:	LCS		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	8095		RunNo:	11523				
Prep Date:	6/25/2013		Analysis Date:	6/25/2013		SeqNo:	326783		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	10	50.00	0	92.1	77.1	128				
Surr: DNOP	4.4		5.000		88.3	63	147				

Sample ID	MB-8058	SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	8058		RunNo:	11523				
Prep Date:	6/21/2013	Analysis Date:	6/25/2013		SeqNo:	327121		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		89.0	63	147			

Sample ID	LCS-8058		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 8058		RunNo: 11523					
Prep Date:	6/21/2013		Analysis Date: 6/25/2013		SeqNo: 327122		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.0	63	147			

Sample ID	MB-8150		SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 8150		RunNo: 11622					
Prep Date:	6/28/2013		Analysis Date: 6/28/2013		SeqNo: 330163		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		107	63	147			

Sample ID	LCS-8150		SampType:	LCS		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	8150		RunNo:	11622				
Prep Date:	6/28/2013		Analysis Date:	6/28/2013		SeqNo:	330219		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	5.7		5.000		114	63	147				

Qualifiers:

- | | |
|--|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1306B45

02-Jul-13

Client: Yates Petroleum
Project: Loving AIB State #1

Sample ID	MB-8141	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R11638	RunNo:	11638					
Prep Date:	6/27/2013	Analysis Date:	6/28/2013	SeqNo:	330852	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	880		1000		88.4	80	120			

Sample ID	LCS-8141	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R11638	RunNo:	11638					
Prep Date:	6/27/2013	Analysis Date:	6/28/2013	SeqNo:	330853	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		97.4	80	120			

Sample ID	MB-8141	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	8141	RunNo:	11638					
Prep Date:	6/27/2013	Analysis Date:	6/28/2013	SeqNo:	330854	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.4	80	120			

Sample ID	LCS-8141	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	8141	RunNo:	11638					
Prep Date:	6/27/2013	Analysis Date:	6/28/2013	SeqNo:	330855	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	114	62.6	136			
Surr: BFB	970		1000		97.4	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2 for VOA and TOC only.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1306B45

02-Jul-13

Client: Yates Petroleum
Project: Loving AIB State #1

Sample ID	MB-8141		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	8141		RunNo:	11638			
Prep Date:	6/27/2013		Analysis Date:	6/28/2013		SeqNo:	330866		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID	LCS-8141		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	8141		RunNo:	11638			
Prep Date:	6/27/2013		Analysis Date:	6/28/2013		SeqNo:	330867		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	1.1	0.10	1.000	0	110	80	120			
Benzene	0.95	0.050	1.000	0	94.6	80	120			
Toluene	0.92	0.050	1.000	0	91.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

- | | |
|--|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |

Sample Log-In Check List

Client Name: Yates Petroleum Corporat

Work Order Number: 1306B45

RcptNo: 1

Received by/date: LM 06/26/13

Logged By: **Michelle Garcia** 6/26/2013 9:00:00 AM *Michelle Garcia*

Completed By: **Michelle Garcia** 6/27/2013 8:35:14 AM *Michelle Garcia*

Reviewed By: *mg* 06/27/13

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? FedEx

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Client: Yates Petroleum Corporation						
Mailing Address: 105 S. Fourth Street Artesia, NM 88210						
Phone #: 575-748-4217						
email or Fax#: boba@yatespetroleum.com						
QA/QC Package: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)						
Accreditation: <input type="checkbox"/> NELAP <input type="checkbox"/> Other _____ <input type="checkbox"/> EDD (Type) _____						
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
6/24/2013	9:45 AM	Soil	Comp-01.0	1 - 4oz.	Ice	-061
6/24/2013	9:50 AM	Soil	Comp-02.0	1 - 4oz.	Ice	-002
6/24/2013	9:55 AM	Soil	Comp-03.0	1 - 4oz.	Ice	-003
6/24/2013	10:00 AM	Soil	Comp-01.0	1 - 4oz.	Ice	-004
6/24/2013	10:05 AM	Soil	Comp-02.0	1 - 4oz.	Ice	-005
6/24/2013	10:10 AM	Soil	Comp-03.0	1 - 4oz.	Ice	-006
Date:	Time:	Relinquished by:	Received by:			
6/25/2013	3:19 PM	[Signature]	[Signature] Date Time			
Date:	Time:	Relinquished by:	Received by:			
			Date Time			

Remarks: Please put chloride results on separate report.

if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 16, 2013

Robert Asher
Yates Petroleum
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4217
FAX

RE: Loving AIB Battery

OrderNo.: 1308395

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/9/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1308395

Date Reported: 8/16/2013

CLIENT: Yates Petroleum
Project: Loving AIB Battery

Lab Order: 1308395

Lab ID: 1308395-001

Collection Date: 8/5/2013 9:45:00 AM

Client Sample ID: c04.0

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	8000	750		mg/Kg	500	8/14/2013 10:30:59 PM	8834

Lab ID: 1308395-002

Collection Date: 8/5/2013 9:50:00 AM

Client Sample ID: c05.0

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	12000	750		mg/Kg	500	8/14/2013 10:43:23 PM	8834

Lab ID: 1308395-003

Collection Date: 8/5/2013 9:55:00 AM

Client Sample ID: c06.0

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	21000	1500		mg/Kg	1E	8/14/2013 10:55:48 PM	8834

Lab ID: 1308395-004

Collection Date: 8/5/2013 10:00:00 AM

Client Sample ID: c07.0

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	21000	1500		mg/Kg	1E	8/14/2013 11:08:13 PM	8834

Lab ID: 1308395-005

Collection Date: 8/5/2013 10:05:00 AM

Client Sample ID: c08.0

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	18000	750		mg/Kg	500	8/14/2013 11:20:38 PM	8834

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1308395

Date Reported: 8/16/2013

CLIENT: Yates Petroleum
Project: Loving AIB Battery

Lab Order: 1308395

Lab ID: 1308395-006

Collection Date: 8/5/2013 10:10:00 AM

Client Sample ID: c09.0

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							
Chloride	17000	1500		mg/Kg	1E	8/14/2013 11:33:02 PM	8834

Analyst: JRR

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308395

16-Aug-13

Client: Yates Petroleum

Project: Loving AIB Battery

Sample ID	MB-8834	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	8834	RunNo:	12612					
Prep Date:	8/13/2013	Analysis Date:	8/13/2013	SeqNo:	359095	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-8834	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	8834	RunNo:	12612					
Prep Date:	8/13/2013	Analysis Date:	8/13/2013	SeqNo:	359096	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Yates Petroleum Corporat

Work Order Number: 1308395

RcptNo: 1

Received by/date:

LM

08/09/13

Logged By: Michelle Garcia

8/9/2013 9:25:00 AM

Michelle Garcia

Completed By: Michelle Garcia

8/9/2013 9:38:03 AM

Michelle Garcia

Reviewed By:

IO

08/09/13

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA
5. Were all samples received at a temperature of, >0° C to 6.0°C Yes ☐ No ☒ NA
6. Sample(s) in proper container(s)? Not required
Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH:
(<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted?
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

eMail

Phone

Fax

In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	22.3	Good	Not Present			



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

November 19, 2013

ROBERT ASHER

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: LOVING AIB BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/13/13 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 ROBERT ASHER
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 11/13/2013
 Reported: 11/19/2013
 Project Name: LOVING AIB BATTERY
 Project Number: 103632
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/07/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: C10.0 (H302772-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	11/15/2013	ND	416	104	400	3.92	

Sample ID: C12.0 (H302772-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14400	16.0	11/15/2013	ND	416	104	400	3.92	

Sample ID: C14.0 (H302772-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	11/15/2013	ND	416	104	400	3.92	

Sample ID: C16.0 (H302772-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	11/15/2013	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

YATES PETROLEUM CORPORATION
ROBERT ASHER
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 11/13/2013
Reported: 11/19/2013
Project Name: LOVING AIB BATTERY
Project Number: 103632
Project Location: EDDY COUNTY, NM

Sampling Date: 11/07/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: C18.0 (H302772-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/15/2013	ND	416	104	400	3.92	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

