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

RECEIVED
OCT 14 2009
NMOCD ARTESIA

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	OGRID Number	Contact
Yates Petroleum Corporation	25575	Robert Asher
Address		Telephone No.
105 South 4th Street, Artesia, NM 88210		575-748-1471
Facility Name	API Number	Facility Type
Amole AMM Battery	30-015-27314	Water Line

Surface Owner	Mineral Owner	Lease No.
State	State	LG-864

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	16	19S	25E	760	South	660	West	Eddy

Latitude 32.65569 **Longitude** 103.49575

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Produced Water	Unknown	4 B/PW
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Water Line	8/25/2009 AM	8/25/2009 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher/NMOCD II	
By Whom? Jerry Fanning/YPC Environmental	Date and Hour 8/26/2009 AM, (voicemail & e-mail)	
Was a Watercourse Reached? ☐ Yes ☒ 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.*
Broken flange on 6" poly water line, flange broke due to expansion of poly, causing release. Vacuum truck called.

Describe Area Affected and Cleanup Action Taken.*
Area approximately 20' X 20', vacuum truck picked up remaining produced water or oil, impacted soils to be excavated and hauled to an approved NMOCD facility. Vertical and horizontal delineation samples were taken (8/26/2009) and analysis ran for TPH & BTEX (chlorides results for documentation) If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. **Depth to Ground Water: 50-99' (approximately 95' per New Mexico Office of the State Engineer), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 10. Based on impacted soils excavated & hauled, enclosed analytical results, 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: Robert Asher

Printed Name: Robert Asher

Title: Environmental Regulatory Agent

E-mail Address: boba@yatespetroleum com

Date: Monday, October 12, 2009 Phone: 575-748-4217

OIL CONSERVATION DIVISION

Approved by District Supervisor: Signed By: Mike Bratcher

Approval Date: NOV 19 2009 Expiration Date: N/A

Conditions of Approval: N/A

Attached ☐

2RP-332

* Attach Additional Sheets If Necessary

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Thursday, November 19, 2009 8:34 AM
To: 'Bob Asher'
Cc: Jerry Fanning; Amanda Trujillo
Subject: RE: Amole AMM Battery/NDDUP #41 (2RP-332)

Bob,

Based on the analytical data presented, your request to backfill the excavation at this site is approved.

Mike Bratcher
NMOCD District 2

From: Bob Asher [mailto:BobA@yatespetroleum.com]
Sent: Wednesday, November 18, 2009 1:31 PM
To: Bratcher, Mike, EMNRD
Cc: Jerry Fanning; Amanda Trujillo
Subject: Amole AMM Battery/NDDUP #41 (2RP-332)

Mike,

A C-141/Final Report, analyticals and a site sample diagram were submitted to your office on October 12, 2009 requesting closure. The surface owner has asked when the open excavation can be backfilled. Yates would like to request closure or permission to backfill upon your review of the closure documents.

If you have any questions, please call me.

Thank you.

Robert Asher
Yates Petroleum Corporation
boba@yatespetroleum.com
575-748-4217 (Office)
575-365-4021 (Cell)
575-748-4662 (Fax)

YATES PETROLEUM CORPORATION
105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

October 12, 2009

Mr. Mike Bratcher
NMOCD District II
1301 West Grand
Artesia, NM 88210

Re: Amole AMM Battery (NDDUP #41)
2RP-332
30-015-27314
Section 16, T19S-R25E
Eddy County, New Mexico

Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on August 25, 2009 (unknown bbls of produced water with 4 bbls recovered). The release was from a broken flange on a 6" poly produced water line. Impacted soils were excavated on 8/25/2009 to a depth of nine (9) feet and taken to an NMOCD approved facility and samples were taken on that same day for delineation per the C-141, Initial Report. Those samples and samples from September 28, 2009 (e-mailed notification of sampling on 9/25/2009), were sent to an OCD approved laboratory for analysis (results are below RRAL's based on the site ranking, chloride results are for documentation). Site ranking is ten (10), with the depth to ground water 50-99'. Yates Petroleum Corporation requests closure. Upon closure approval clean, like soils will be used to backfill the excavation.

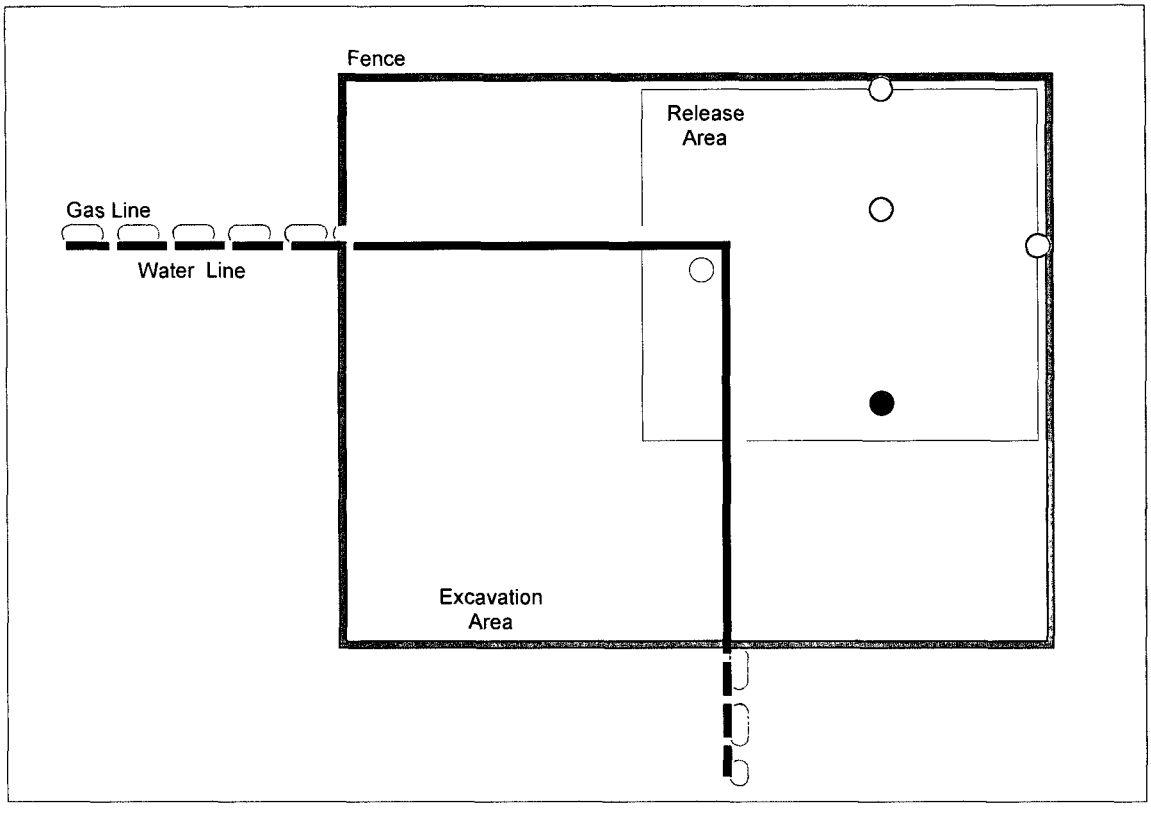
If you have any questions, please call me at 575-748-4217.

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher
Environmental Regulatory Agent

/rca
Enclosure(s)



Sample ID	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
GS/Comp-001	Bottom #1	8/26/2009	Grab/Auger	9'	0.300	<10.0	<10.0	<20.0	624
GS/Comp-002	Under Pipes	8/27/2009	Grab/Auger	7'	0.300	<10.0	<10.0	<20.0	992
GS/Comp-003	East Sidewall	8/26/2009	Grab/Auger	7'	0.361	<10.0	<10.0	<20.0	352
GS/Comp-004	North Sidewall	8/27/2009	Grab/Auger	7'	0.300	<10.0	<10.0	<20.0	256
GS/Comp-005	Bottom #2	8/27/2009	Grab/Auger	9'	0.300	<10.0	<10.0	<20.0	496
Sample ID	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
GS/Comp-001	Bottom #1	9/28/2009	Grab/Auger	9'	ND	ND	ND	ND	197
GS/Comp-002	Under Pipes	9/28/2009	Grab/Auger	7'	ND	ND	ND	ND	568
GS/Comp-003	East Sidewall	9/28/2009	Grab/Auger	7'	ND	ND	ND	ND	437
GS/Comp-004	North Sidewall	9/28/2009	Grab/Auger	7'	ND	ND	ND	ND	157
GS/Comp-005	Bottom #2	9/28/2009	Grab/Auger	9'	ND	ND	ND	ND	228

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 95', per New Mexico State Engineer Office).
All results are ppm. Chloride results are for documentation.

YATES PETROLEUM CORPORATION

Amole AMM Battery (NDDUP #41)

Section 16, T19S-R25E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)
Cardinal Laboratories: #Hi8146
Report Date: 9/1/2009
Xenco Laboratories: #346329 & 346330
Report Date: 10/5/2009
Prepared by Robert Asher
Environmental Regulatory Agent

Analytical Report 346329

for

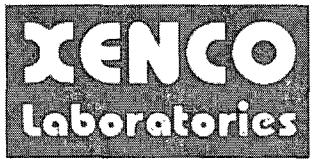
Yates Petroleum Corporation

Project Manager: Robert Asher

Amole AMM Battery

30-015-27314

05-OCT-09



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-08-TX), Arizona (AZ0738), 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 (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87428), 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 (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)

05-OCT-09

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

Reference: XENCO Report No: **346329**
Amole AMM Battery
Project Address: Eddy County

Robert Asher:

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 346329. 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. 346329 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

Sample Cross Reference 346329

Yates Petroleum Corporation, Artesia, NM

Amole AMM Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS / Comp-001	S	Sep-28-09 10:31	9 - 10 ft	346329-001
GS / Comp-002	S	Sep-28-09 10:44	7 - 8 ft	346329-002
GS / Comp-003	S	Sep-28-09 10:56	7 - 7 ft	346329-003
GS / Comp-004	S	Sep-28-09 11:07	7 - 7 ft	346329-004
GS / Comp-005	S	Sep-28-09 11:15	9 - 10 ft	346329-005

CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Amole AMM Battery

Project ID: 30-015-27314 | *Report Date:* 05-OCT-09
Work Order Number: 346329 | *Date Received:* 09/29/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-774737 BTEX-MTBE EPA 8021B
SW8021BM

Batch 774737, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 346329-005.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Batch: LBA-774760 Percent Moisture
None

Batch: LBA-774935 BTEX-MTBE EPA 8021B
SW8021BM

Batch 774935, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 346329-003, -004, -001, -002.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Batch: LBA-775342 TPH by SW 8015B
None

Certificate of Analysis Summary 346329

Yates Petroleum Corporation, Artesia, NM

Project Name: Amole AMM Battery

Project Id: 30-015-27314
Contact: Robert Asher
Project Location: Eddy County

Date Received in Lab: Tue Sep-29-09 09:55 am
Report Date: 05-OCT-09
Project Manager: Brent Barron, II

Analysis Requested										
	Lab Id:	346329-001		346329-002		346329-003		346329-004		346329-005	
	Field Id:	GS / Comp-001		GS / Comp-002		GS / Comp-003		GS / Comp-004		GS / Comp-005	
	Depth:	9-10 ft		7-8 ft		7-7 ft		7-7 ft		9-10 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-28-09 10 31		Sep-28-09 10 44		Sep-28-09 10 56		Sep-28-09 11 07		Sep-28-09 11 15	
BTEX by EPA 8021B	*Extracted:*	Sep-30-09 10 00		Sep-30-09 10 00		Sep-30-09 10 00		Sep-30-09 10 00		Sep-29-09 12 00	
	Analyzed:	Oct-01-09 09 05		Oct-01-09 09 26		Oct-01-09 09 47		Oct-01-09 10 08		Sep-29-09 20 28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0 0011	ND	0 0011	ND	0 0011	ND	0 0011	ND	0 0011
Toluene		ND	0 0022	ND	0 0022	ND	0 0023	ND	0 0022	ND	0 0022
Ethylbenzene		ND	0 0011	ND	0 0011	ND	0 0011	ND	0 0011	ND	0 0011
m,p-Xylenes		ND	0 0022	ND	0 0022	ND	0 0023	ND	0 0022	ND	0 0022
o-Xylene		ND	0 0011	ND	0 0011	ND	0 0011	ND	0 0011	ND	0 0011
Total Xylenes		ND	0 0011	ND	0 0011	ND	0 0011	ND	0 0011	ND	0 0011
Total BTEX		ND	0 0011	ND	0 0011	ND	0 0011	ND	0 0011	ND	0 0011
Percent Moisture	*Extracted:*										
	Analyzed:	Sep-30-09 08 38		Sep-30-09 08 38		Sep-30-09 08 38		Sep-30-09 08 38		Sep-30-09 08 38	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		10 5	1 00	8 31	1 00	13 7	1 00	8 04	1 00	8 03	1 00
TPH By SW8015B Mod	*Extracted:*	Oct-01-09 23 15		Oct-01-09 23 15		Oct-01-09 23 15		Oct-01-09 23 15		Oct-01-09 23 15	
	Analyzed:	Oct-02-09 01 49		Oct-02-09 02 15		Oct-02-09 02 40		Oct-02-09 03 06		Oct-02-09 03 32	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		ND	16 8	ND	16 4	ND	17 4	ND	16 3	ND	16 3
C10-C28 Diesel Range Hydrocarbons		ND	16 8	ND	16 4	ND	17 4	ND	16 3	ND	16 3
Total TPH		ND	16 8	ND	16 4	ND	17 4	ND	16 3	ND	16 3

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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.

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

* Outside XENCO's scope of NELAC Accreditation.

XENCO-Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Robert Asher　　Cooler #: YPC-002
Company Name: Yates Petroleum Corporation
Company Address: 105 South 4th Street
City/State/Zip: Artesia NM 88210
Telephone No: 505-748-4217　　Fax No: 505-748-4662
Sampler Signature: (signature)　　e-mail: boba@yatespetroleum.com

Project Name: Amole AMM Battery
Project #: 30-015-27314
Project Loc: Eddy County
PO #: 105632
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 346329 / 346330

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (DW=Drinking Water, SL=Sludge, GW=Groundwater, S=Soil/Solid, NP=Non-Potable, Specify Other)	TPH 418.1 8015M 8015B	TPH TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	GS/Comp-001	9'	10'	9/28/2009	10:31 AM		1	X								S	X								X			X				X
02	GS/Comp-002	7'	8'	9/28/2009	10:44 AM		1	X								S	X								X			X				X
03	GS/Comp-003	7'	7'	9/28/2009	10:56 AM		1	X								S	X								X			X				X
04	GS/Comp-004	7'	7'	9/28/2009	11:07 AM		1	X								S	X								X			X				X
05	GS/Comp-005	9'	10'	9/28/2009	11:15 AM		1	X								S	X								X			X				X
	PLEASE PUT CHLORIDES																															
	ON SEPARATE REPORT																															

(Analyze For: TCLP / TOTAL)

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

Relinquished by	Date	Time	Received by	Date	Time
Robert Asher (signature)	09/28/09	1:58 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Fedex	Date	Time	Received by ELOT: (signature)	9-29-09	9:55

Laboratory Comments:
Sample Containers Intact? (Y) N
VOCs Free of Headspace? (Y) N
Labels on container(s) (Y) N
Custody seals on container(s) (Y) N
Custody seals on cooler(s) (Y) N
Sample Hand Delivered: (Y) N
by Sampler/Client Rep.? Y N
by Courier? UPS DHL (FedEx) Lone Star
402914055
Temperature Upon Receipt: 3.6 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Yates Petroleum

Date/ Time: 9.29.09 9:55

Lab ID #: 346329 | 346330

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	3.6 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	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

Analytical Report 346330

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Amole AMM Battery

30-015-27314

05-OCT-09

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-08-TX), Arizona (AZ0738), 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 (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87428), 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 (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)

05-OCT-09

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

Reference: XENCO Report No: **346330**
Amole AMM Battery
Project Address: Eddy County

Robert Asher:

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 346330. 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. 346330 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

Sample Cross Reference 346330

Yates Petroleum Corporation, Artesia, NM

Amole AMM Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS / Comp-001	S	Sep-28-09 10:31	9 - 10 ft	346330-001
GS / Comp-002	S	Sep-28-09 10:44	7 - 8 ft	346330-002
GS / Comp-003	S	Sep-28-09 10:56	7 - 7 ft	346330-003
GS / Comp-004	S	Sep-28-09 11:07	7 - 7 ft	346330-004
GS / Comp-005	S	Sep-28-09 11:15	9 - 10 ft	346330-005

CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Amole AMM Battery

Project ID: 30-015-27314 *Report Date:* 05-OCT-09
Work Order Number: 346330 *Date Received:* 09/29/2009

Sample receipt non conformances and Comments:
None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-774760 Percent Moisture
None

Batch: LBA-774806 Inorganic Anions by EPA 300
None

Batch: LBA-774812 Inorganic Anions by EPA 300
E300MI

Batch 774812, Chloride recovered below QC limits in the Matrix Spike.
Samples affected are: 346330-005, -003, -002, -004.
The Laboratory Control Sample for Chloride is within laboratory Control Limits

Certificate of Analysis Summary 346330

Yates Petroleum Corporation, Artesia, NM

Project Name: Amole AMM Battery

Project Id: 30-015-27314
Contact: Robert Asher
Project Location: Eddy County

Date Received in Lab: Tue Sep-29-09 09:55 am
Report Date: 05-OCT-09
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	346330-001		346330-002		346330-003		346330-004		346330-005	
	Field Id:	GS / Comp-001		GS / Comp-002		GS / Comp-003		GS / Comp-004		GS / Comp-005	
	Depth:	9-10 ft		7-8 ft		7-7 ft		7-7 ft		9-10 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-28-09 10 31		Sep-28-09 10 44		Sep-28-09 10 56		Sep-28-09 11 07		Sep-28-09 11 15	
Anions by E300	*Extracted:*										
	Analyzed:	Sep-29-09 19 48		Sep-30-09 01 06		Sep-30-09 01 06		Sep-30-09 01 06		Sep-30-09 01 06	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		197	9 39	568	18 3	437	19 5	157	22 8	228	9 13
Percent Moisture	*Extracted:*										
	Analyzed:	Sep-30-09 08 38		Sep-30-09 08 38		Sep-30-09 08 38		Sep-30-09 08 38		Sep-30-09 08 38	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		10 5	1 00	8 31	1 00	13 7	1 00	8 04	1 00	8 03	1 00

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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.

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

* Outside XENCO's scope of NELAC Accreditation.

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: Robert Asher
Cooler #: YPC-02
Company Name: Yates Petroleum Corporation
Company Address: 105 South 4th Street
City/State/Zip: Artesia, NM 88210
Telephone No: 505-748-4217
Fax No: 505-748-4682
Sampler Signature: (signature)
e-mail: boba@yatespetroleum.com

Project Name: Amole AMM Battery
Project #: 30-015-27314
Project Loc: Eddy County
PO #: 105632
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 346329 / 346330

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	GS/Comp-001	9'	10'	9/28/2009	10:31 AM		1	X								S	X								X			X				X
02	GS/Comp-002	7'	8'	9/28/2009	10:44 AM		1	X								S	X								X			X				X
03	GS/Comp-003	7'	7'	9/28/2009	10:56 AM		1	X								S	X								X			X				X
04	GS/Comp-004	7'	7'	9/28/2009	11:07 AM		1	X								S	X								X			X				X
05	GS/Comp-005	9'	10'	9/28/2009	11:15 AM		1	X								S	X								X			X				X
	PLEASE PUT CHLORIDES																															
	ON SEPARATE REPORT																															

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

Relinquished by:	Date	Time	Received by:	Date	Time
Robert Asher (signature)	09/28/09	1:58 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Fedex	Date	Time	Received by ELOT: (signature)	9/29/09	9:55

Laboratory Comments:
Sample Containers Intact? (Y) N
VOCs Free of Headspace? (Y) N
Labels on container(s) (Y) N
Custody seals on container(s) (Y) N
Custody seals on cooler(s) (Y) N
Sample Hand Delivered Y N
by Sampler/Client Rep.? Y N
by Courier? UPS DHL (FedEx) Lone Star
4027896075
Temperature Upon Receipt: 3.6 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Yates Petroleum

Date/ Time: 9.29.09 9:55

Lab ID #: 346329 | 346330

Initials: AL

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	(Yes)	No	3.6 °C	
#2 Shipping container in good condition?	(Yes)	No		
#3 Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5 Chain of Custody present?	(Yes)	No		
#6 Sample instructions complete of Chain of Custody?	(Yes)	No		
#7 Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8 Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11 Containers supplied by ELOT?	(Yes)	No		
#12 Samples in proper container/ bottle?	(Yes)	No	See Below	
#13 Samples properly preserved?	(Yes)	No	See Below	
#14 Sample bottles intact?	(Yes)	No		
#15 Preservations documented on Chain of Custody?	(Yes)	No		
#16 Containers documented on Chain of Custody?	(Yes)	No		
#17 Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18 All samples received within sufficient hold time?	(Yes)	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20 VOC samples have zero headspace?	(Yes)	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

CARDINAL LABORATORIES

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

September 10, 2009

Amanda Trujillo
Yates Petroleum Corporation
105 South 4th Street
Artesia, NM 88210

Re: Amole AMM Battery

Enclosed are the results of analyses for sample number H18146, received by the laboratory on 09/01/09 at 9:53 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.

CARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR
YATES PETROLEUM CORPORATION
ATTN: AMANDA TRUJILLO
105 SOUTH 4TH STREET
ARTESIA, NM 88210

Receiving Date: 09/01/09
Reporting Date 09/10/09
Project Number 30-015-27314
Project Name: AMOLE AMM BATTERY
Project Location. DAGGER DRAW - ROCKIN R. RED ROAD

Sampling Date. 08/26/09 & 08/27/09
Sample Type. SOIL
Sample Condition: INTACT @ 14.5°C
Sample Received By: ML
Analyzed By: AB/ZL/HM/CK

LAB NO SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE:	09/02/09	09/02/09	09/03/09	09/03/09	09/03/09	09/03/09	09/03/09
H18146-1 GS/COMP 001-BOTTOM #1	<10 0	<10 0	<0 100	<0 100	<0 100	<0 300	624
H18146-2 GS/COMP 002-UNDER PIPES	<10 0	<10 0	<0.100	<0.100	<0 100	<0 300	992
H18146-3 GS/COMP 003-SIDEWALL EAST	<10.0	<10 0	<0 050	0 172	0 218	0.361	352
H18146-4 GS/COMP 004-SIDEWALL NORTH	<10 0	<10.0	<0 050	0.092	0 094	<0 300	256
H18146-5 GS/COMP 005-BOTTOM #2	<10 0	<10 0	<0 100	<0 100	<0.100	<0 300	496
Quality Control	445	464	0.030	0.030	0 029	0.084	500
True Value QC	500	500	0.025	0 025	0 025	0 075	500
% Recovery	89.0	92.8	120	120	116	112	100
Relative Percent Difference	5.2	8.4	1.9	1 9	2 1	2 5	< 0 1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M, BTEX - SW-846 8260B, Cl-. Std Methods 4500-Cl-B
*Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.
TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES Not accredited for GRO/DRO and Chloride

Lab Director

09/10/09
Date

H18146TBCL YATES