



**EOG Resources, Inc.**  
Artesia Division Office  
104 S. 4<sup>th</sup> Street  
Artesia, N. M. 88210

September 29, 2022

Bradford Billings  
EMNRD  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Re: Gem Dandy BCG State Com #1  
30-015-32666  
L-35-16S-27E  
Eddy County, NM  
Incident # nMLB0716553869

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site which currently has open incident on the NMOCD E-Permitting website. The report is being submitted in reference to the C-141 submitted on January 15, 2007, and the C-141 Final submitted July 19, 2007. EOG Resources, Inc. has included a C-141 Final with the most current form in this Closure Report, and hereby requests closure of the open incident.

If you have any questions, feel free to call me at (575) 748-1471.

Respectfully,

*Chase Settle*

Chase Settle  
Rep Safety & Environmental Sr  
EOG Resources, Inc.

Gem Dandy BCG State Com #1  
Closure Report  
#nMLB0716553869

---



September 29, 2022

**Gem Dandy BCG State Com #1**

**Closure Report**

**30-015-32666**

**L-35-16S-27E**

**Eddy County, NM**

**September 29, 2022**

**nMLB0716553869**

Gem Dandy BCG State Com #1  
Closure Report  
#nMLB0716553869



September 29, 2022

---

**Table of Contents**

I.	Location.....	1
II.	Background.....	1
III.	Scope of Work Completed.....	1
IV.	Closure Request.....	1

**Appendices:**

Appendix A: C-141 Initial

Appendix B: NMOCD E-Permitting Page

Appendix C: Approved Remediation Plan

Appendix D: Original C-141 Final Report

Appendix E: NMOCD Final Report Approval Email

Appendix F: Current C-141 Closure

Gem Dandy BCG State Com #1  
Closure Report  
#nMLB0716553869



September 29, 2022

---

**I. Location**

The site is located in Eddy County, New Mexico approximately 3.75 miles northeast of Riverside.

**II. Background**

On January 15, 2007, Yates Petroleum Corporation (YPC) submitted a C-141 Initial to NMOCD District II for the release of ten (10) barrels of oil with five (5) barrels being recovered (Appendix A). The release occurred due to the overflow of a production tank due to an unexpected increase in production. The area impacted by the release was approximately 20 feet by 25 feet within the berm of the tank battery. After soil sampling was conducted on the impacted soils, a Remediation Plan was submitted to NMOCD District II (Appendix C) on May 18, 2007. NMOCD responded by granting approval of the Remediation Plan on June 14, 2007. The NMOCD approval email is also included in Appendix C as well as being noted in the E-Permitting page that is included as Appendix B.

**III. Scope of Work Completed**

Impacted soil was excavated and hauled to a NMOCD approved disposal facility with analytical results confirming the removal of impacted soil above the NMOCD required thresholds. Soil was excavated to between four (4) feet and six (6) feet below grade surface (bgs) within the impacted area prior to the confirmation sampling being conducted on July 10, 2007. These samples were submitted to Xenco Laboratories for analysis.

On July 19, 2007, a YPC representative (Robert Asher) met with Mike Bratcher at the NMOCD District II Office in Artesia, NM. During this meeting the results of the confirmatory samples and remediation of the site was discussed, and a C-141 Final Report was submitted (Appendix D). At this time, Mike Bratcher provided verbal approval for backfill activities to commence, granting closure of the remediation project. This was followed by a confirmation email (Appendix E) of the approved closure.

**IV. Closure Request**

The release received closure from NMOCD on July 19, 2007, when verbal and email confirmation of the approved closure was provided by Mike Bratcher. However, during a review of the open incidents on the NMOCD E-Permitting website for during the well divestiture process, it was discovered that the incident remained open and that the C-141 Final Report had not been uploaded to the NMOCD Imaging website after the in-person submission.

Based on the completion of the approved Remediation Plan and verbal/email closure approval by NMOCD in July 2007, EOG is submitting the current C-141 Closure Form as Appendix F to officially close Incident #nMLB0716553869.

Gem Dandy BCG State Com #1  
Closure Report  
#nMLB0716553869

---



September 29, 2022

# Appendix A

## C-141 Initial

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brizosa 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-14  
Revised October 10, 200

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

30-05-32666

## Release Notification and Corrective Action

n MLB0716553869

## 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 Gem Dandy BCG State Com. #1	API Number 30-015-32666	Facility Type Battery
Surface Owner Pee	Mineral Owner State	Lease No. VA-1750

## LOCATION OF RELEASE

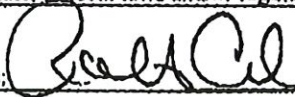


Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	35	16S	27E	1980	South	660	West	Eddy

Latitude 32.87691 Longitude 104.25475

## NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 10 B/O	Volume Recovered 5 B/O
Source of Release Production Tank	Date and Hour of Occurrence 12/31/2006 PM	Date and Hour of Discovery 12/31/2006 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
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.* The well kicked causing tank to overflow. Well shut down, closed all flow line valves going to tank.		
Describe Area Affected and Cleanup Action Taken.* An approximate area of 20' X 25', inside the tank battery. Vacuum truck called to pick up standing fluids, contaminated soils excavated and taken to an OCD approved land disposal facility. Area to be evaluated and a work plan submitted. Depth to Ground Water: < 50', Wellhead Protection Area: No, Distance to Surface Water Body: > 1000', SITE RANKING IS 20.		

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: 	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	Approved by District Supervisor:  by MB	Signed By: 
Title: Environmental Regulatory Agent	Approval Date: JUN 14 2007	Expiration Date:
E-mail Address: boba@ypcnm.com	Conditions of Approval: Remediation per work plan approval 6/14/07	Attached <input type="checkbox"/>
Date: Monday, January 15, 2007	Phone: 505-748-1471	

Gem Dandy BCG State Com #1  
Closure Report  
#nMLB0716553869

---



September 29, 2022

# Appendix B

## NMOCD E-Permitting Page

OCD Permitting

Home    Searches    Incidents    Incident Details

NMLB0716553869 2006 MINOR A OS @ 30-015-32666

General Incident Information

Site Name:			
Well:	<a href="#">[30-015-32666]</a> GEM DANDY BCG STATE #001		
Facility:			
Operator:	<a href="#">[330506]</a> MR NM Operating LLC		
Status:	Closure Not Approved	Severity:	Minor
Type:	Oil Release	Surface Owner:	Private
District:	Artesia	County:	Eddy (15)
Incident Location:	L-35-16S-27E    1980 FSL    660 FWL		
Lat/Long:	32.8770294,-104.2544174 NAD83		
Directions:			

Notes

Source of Referral:	Industry Rep	Action / Escalation:	Referred to Environmental Inspector
Resulted In Fire:	<input type="checkbox"/>	Will or Has Reached Watercourse:	<input type="checkbox"/>
Endangered Public Health:	<input type="checkbox"/>	Property Or Environmental Damage:	<input type="checkbox"/>
Fresh Water Contamination:	<input type="checkbox"/>		

Contact Details

Contact Name:	Contact Title:
---------------	----------------

Event Dates

Date of Discovery:	12/31/2006	OCD Notified of Release:
--------------------	------------	--------------------------

Quick Links

- [General Incident Information](#)
- [Materials](#)
- [Events](#)
- [Orders](#)

Associated Images

- Incident Files (0)
- [Well Files \(21\)](#)

New Searches

- [New Facility Search](#) ↗
- [New Incident Search](#) ↗
- [New Operator Search](#) ↗
- [New Pit Search](#) ↗
- [New Spill Search](#) ↗
- [New Tank Search](#) ↗
- [New Well Search](#) ↗

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Incidents Materials

Cause	Source	Material	Volume				Units
			Unk.	Released	Recovered	Lost	
Overflow - Tank, Pit, Etc.	Production Tank	Crude Oil	<input type="checkbox"/>	10	5	5	BBL

Incident Events

Date	Detail
06/14/2007	C-141 rec'd 1/15/07. Cause of release listed as "Well kicked causing tank to overflow". Remediation work plan proposal rec'd 5/18/07. Approved 6/13/07

Orders

No Orders Found

Gem Dandy BCG State Com #1  
Closure Report  
#nMLB0716553869

---



September 29, 2022

# Appendix C

## Approved Remediation Plan

**Bob Asher**

---

**From:** Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]  
**Sent:** Thursday, June 14, 2007 11:17 AM  
**To:** Bob Asher  
**Cc:** Jerry Fanning  
**Subject:** RE: Work Plan

Bob,

The remediation proposal presented for clean up of a release of produced fluids that occurred at the referenced well site on 12/31/06 is approved. Please notify the OCD District 2 office 24 hours prior to obtaining confirmation samples. Submit a closure report and C-141 Final Report upon satisfactory completion of project. Project is to be completed and closure documentation filed no later than August 14, 2007.

This approval does not relieve Yates Petroleum Corporation (Yates) of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, approval does not relieve Yates for compliance with any other federal, state, local laws and/or regulations.

Sincerely,

Mike Bratcher  
NMOCD District 2  
1301 W. Grand Ave.  
Artesia, NM 8810  
505-748-1283 Ext. 108  
505-626-0857  
[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)

---

**From:** Bob Asher [mailto:boba@YPCNM.COM]  
**Sent:** Wednesday, June 13, 2007 3:57 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Jerry Fanning  
**Subject:** Work Plan

Mike,

Per our telephone conversation this afternoon, Yates requests verbal approval of the May 18, 2007 work plan for the following location.

Gem Dandy BCG State Com. #1  
30-015-32666  
Section 35, T16S-R27E  
Eddy County, New Mexico

Thank you.

**Robert Asher**  
Yates Petroleum Corporation  
505-748-4217 (Office)

6/14/2007

Yates Petroleum Corporation  
505-748-4217 (Office)  
505-748-4662 (Fax)  
505-365-4021 (Cell)

---

This inbound email has been scanned by the MessageLabs Email Security System.

---

6/14/2007

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

May 18, 2007



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

Re: Gem Dandy BCG State Com. #1  
30-015-32666  
Section 35, T16S-R27E  
Eddy County, New Mexico

Dear Mr. Bratcher:

Yates Petroleum Corporation would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 dated January 12, 2007. Scope of work described in the plan will be conducted as soon as the work plan is approved.

If you have any questions call me at (505) 748-4217.

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher  
Environmental Regulatory Agent

Enclosure(s)

RANDY G. PATTERSON  
VICE PRESIDENT

DAVID L. LANNING  
ASSISTANT VICE PRESIDENT

DENNIS G. KINSEY  
TREASURER

**Yates Petroleum Corporation**  
**Gem Dandy BCG State Com. #1 Work Plan**  
**Section 35, T16S-R27E**  
**Eddy County, New Mexico**  
**May 18, 2007**

**I. Location**

The well is located approximately 9 miles east-northeast of Artesia, NM north of U.S. Highway 82, as represented by the attached Artesia NE, NM, USGS Quadrangle Map.

**II. Background**

On January 15, 2007, Yates Petroleum Corporation submitted a C-141 for a release of 10 barrels of crude oil; the well kicked and caused the production tank to overflow. The affected area is approximately 20 feet by 25 feet, all contained within the bermed area of the battery. A vacuum truck was called and 5 barrels of fluid recovered.

**III. Surface and Ground Water**

Area surface geology is Paleozoic. The nearest groundwater of record is listed on the Eddy County Depth to Ground Water Map shows depth to groundwater approximately 35 feet (Section 35, T16S-R27E) making the site ranking for this site a twenty (20). Watercourses in the area are dry except for infrequent flows in response to major precipitation events; approximately 1,200' to the north of the location is an intermittent perennial arroyo.

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

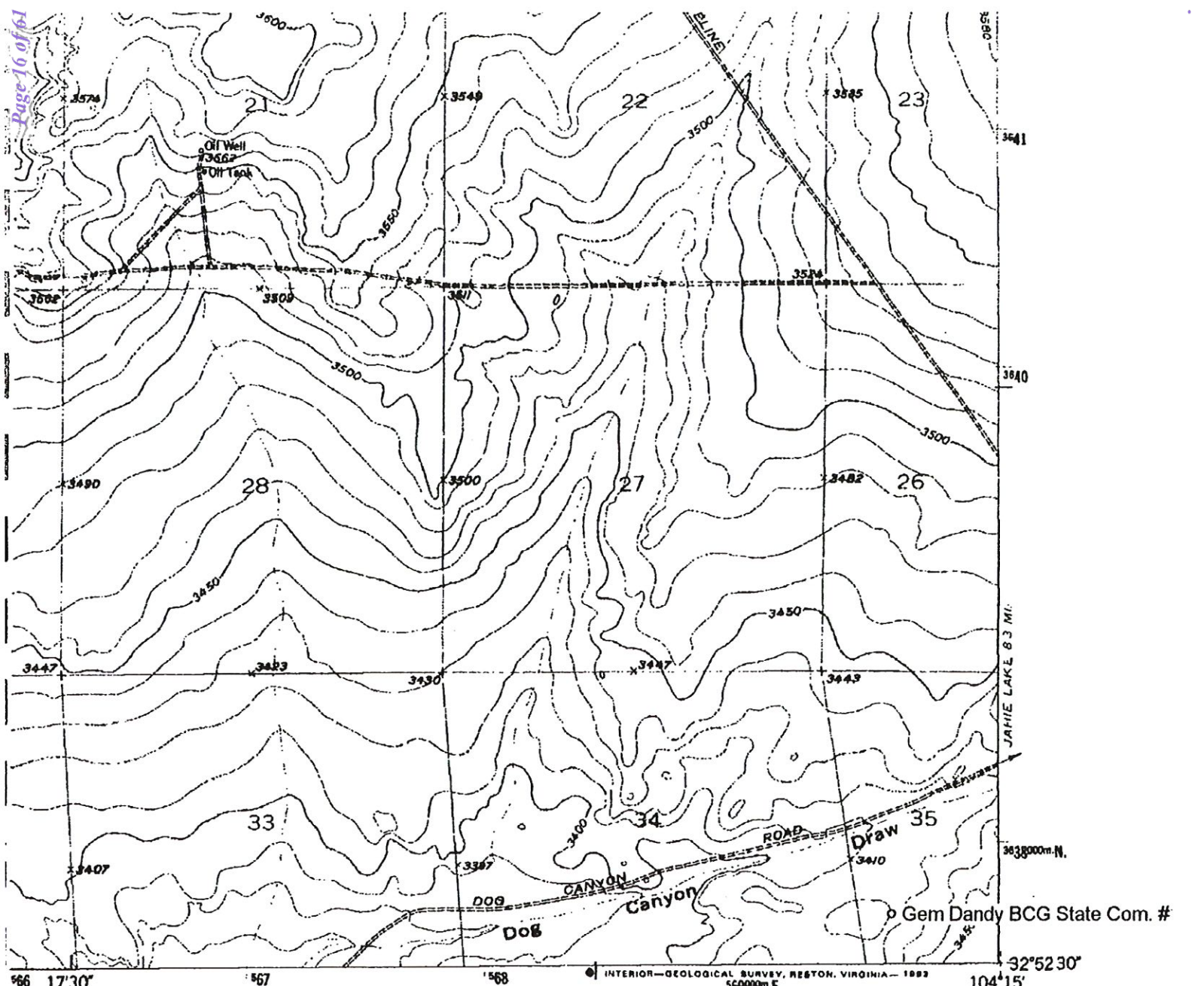
Depth to ground water	< 50'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

**IV. Soils**

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

**V. Scope of Work**

Yates Petroleum Corporation has excavated contaminated soils contacted by release. Contaminated material has been removed and taken to an OCD approved land facility. Yates will take soil samples within the effected area to determine vertical and horizontal delineation. These samples will be analyzed for BTEX and TPH. Based on the Total Ranking Score of twenty (20), RRAL's for BTEX is 50 ppm and TPH is 100 ppm. If results are above OCD guidelines, then further remediation (excavation work) will be implemented to attain the acceptable limits. If lab analysis reflects closure levels then Yates will contact the Oil Conservation Division to give opportunity to witness a final sampling event. A final C-141 and attached analytical results will be submitted to the OCD requesting closure. After closure approval clean soils will be brought in to replace excavated soils.



41LE

ROAD CLASSIFICATION

Heavy-duty ————— Light-duty - - - - -  
Medium-duty ————— Unimproved dirt - - - - -  
○ U. S. Route ○ State Route



ARTESIA NE, N. MEX.

32104-H3-TF-024

1955

DMA 5149 IV NE-SERIES V881

Gem Dandy BCG State Com #1  
Closure Report  
#nMLB0716553869

---



September 29, 2022

# Appendix D

## Original C-141 Final Report

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

July 19, 2007

JUL 19 2007

OCD-ARTESIA

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

RE: Gem Dandy BCG State Com. #1  
30-015-32666  
Section 35, T16S-R27E  
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 December 31, 2006 (10 B/O with 5 B/O recovered), inside the bermed battery. A vacuum truck picked up oil released and contaminated soils were excavated and taken to an OCD approved land facility. Site ranking is twenty (20), with the depth to ground water < 50' (approximately 35'). Samples were taken on April 17, 2007 and July 10, 2007 (enclosed results and sample diagram). Based on the remedial and cleanup actions taken (oil recovered, soils excavated), analytical reports and that any remaining contaminants will not pose a threat to fresh water, public health and the environment in the release area, Yates Petroleum Corporation requests no further remediation and site closure.

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher  
Environmental Regulatory Agent

Enclosure(s)  
/rca

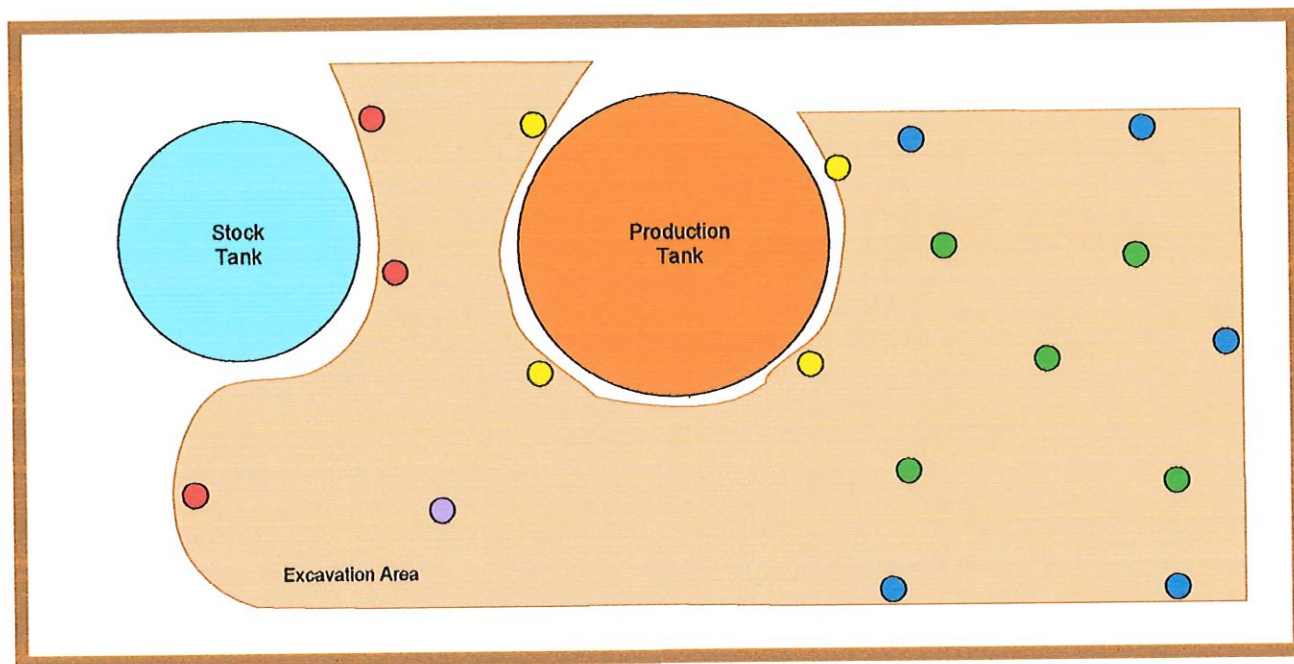
RANDY G. PATTERSON  
VICE PRESIDENT

DAVID L. LANNING  
ASSISTANT VICE PRESIDENT

DENNIS G. KINSEY  
TREASURER



Berm



Sample ID	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TPH TOTAL
GS/Comp-001	7/10/2007	Grab/Auger	4'	0.0744	14.3	50.9	64.2
GS/Comp-002	7/10/2007	Grab/Auger	4'	ND	ND	17.0	17.0
GS/Comp-003	7/10/2007	Grab/Auger	4'	ND	ND	34.2	34.2
GS/Comp-004	7/10/2007	Grab/Auger	6'	ND	ND	ND	ND
GS/7.0-002	4/17/2007	Grab/Auger	7'	ND	ND	50.1	50.1
GS/8.0-003	4/17/2007	Grab/Auger	8'	ND	ND	ND	ND
GS/9.0-004	4/17/2007	Grab/Auger	9'	ND	ND	ND	ND

Site Ranking is Twenty (20). Depth to Ground Water < 50' (approx. 35')

All results are ppm.



**Gem Dandy BCG  
State Com. #1**

**Section 35, T16S-R27E**

**Eddy County, NM**

**EXHIBIT  
Sample Diagram (Not to Scale)**

**Prepared by Robert Asher  
Environmental Agent  
July 18, 2007**

Page 20 of 61  
Received by @CD: 9/30/2022 10:43:16 AM  
Released to Imaging: 2/6/2023 12:34:02 PM

District I  
625 N. French Dr., Hobbs, NM 88240  
District II  
301 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 Gem Dandy BCG State Com. #1	API Number 30-015-32666	Facility Type Battery
Surface Owner Fee	Mineral Owner State	Lease No. VA-1750

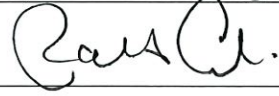
LOCATION OF RELEASE

Unit Letter L	Section 35	Township 16S	Range 27E	Feet from the 1980	North/South Line South	Feet from the 660	East/West Line West	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	----------------------	------------------------	----------------

Latitude 32.87691 Longitude 104.25475

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 10 B/O	Volume Recovered 5 B/O
Source of Release Production Tank	Date and Hour of Occurrence 12/31/2006 PM	Date and Hour of Discovery 12/31/2006 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
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.* The well kicked causing tank to overflow. Well shut down, closed all flow line valves going to tank.		
Describe Area Affected and Cleanup Action Taken.* An approximate area of 20' X 25', inside the tank battery. Vacuum truck called to pick up standing fluids, contaminated soils excavated and taken to an OCD approved land disposal facility. Area to be evaluated and a work plan submitted. <b>Depth to Ground Water: &lt; 50', Wellhead Protection Area: No, Distance to Surface Water Body: &gt;1000', SITE RANKING IS 20. With enclosed information, Yates Petroleum Corporation is requesting closure.</b>		
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: 	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	Approved by District Supervisor:	
Title: Environmental Regulatory Agent	Approval Date:	Expiration Date:
E-mail Address: boba@ypcnm.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Thursday, July 19, 2007	Phone: 505-748-1471	

Attach Additional Sheets If Necessary

# **Analytical Report 285837**

**for**

## **Yates Petroleum Corporation**

**Project Manager: Robert Asher**

**Gem Dandy BCG State Com. # 1**

**30-015-32666**

**18-JUL-07**



**12600 West I-20 East Odessa, Texas 79765**

**A Xenco Laboratories Company**

NELAC certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

18-JUL-07

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

Reference: XENCO Report No: **285837**  
**Gem Dandy BCG State Com. # 1**  
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 285837. 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. 285837 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**

Odessa Laboratory Director

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



# Certificate of Analysis Summary 285837

Yates Petroleum Corporation, Artesia, NM  
Project Name: Gem Dandy BCG State Com. # 1



Project Id: 30-015-32666  
Contact: Robert Asher  
Project Location: Eddy County


Date Received in Lab: Thu Jul-12-07 12:00 pm  
Report Date: 18-JUL-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:		285837-001		285837-002		285837-003		285837-004	
	Field Id:	Depth:	GS/Comp-001	4.4 ft	GS/Comp-002	4.4 ft	GS/Comp-003	4.4 ft	GS/Comp-004	6-6 ft
	Matrix:		SOIL		SOIL		SOIL		SOIL	
	Sampled:		Jul-10-07 13:53		Jul-10-07 14:08		Jul-10-07 14:23		Jul-10-07 14:42	
BTEX by EPA 8021B	Extracted:		Jul-13-07 14:56		Jul-13-07 14:56		Jul-13-07 14:56		Jul-13-07 14:56	
	Analyzed:		Jul-14-07 07:13		Jul-14-07 07:34		Jul-14-07 07:55		Jul-14-07 08:15	
	Units/RL:		mg/kg RL		mg/kg RL		mg/kg RL		mg/kg RL	
			ND 0.0274		ND 0.0290		ND 0.0022		ND 0.0023	
			ND 0.0274		ND 0.0290		ND 0.0022		ND 0.0023	
Percent Moisture			0.0744		0.0581		ND 0.0044		ND 0.0047	
			ND 0.0274		ND 0.0290		ND 0.0022		ND 0.0023	
			0.0744		ND		ND		ND	
			0.0744		ND		ND		ND	
TPH by SW 8015B	Extracted:		Jul-12-07 17:35		Jul-12-07 17:40		Jul-12-07 17:45		Jul-12-07 17:50	
	Analyzed:		% RL		% RL		% RL		% RL	
	Units/RL:		8.63		13.9		9.82		14.5	
			Jul-12-07 12:24		Jul-12-07 12:24		Jul-12-07 12:24		Jul-12-07 12:24	
			Jul-13-07 00:53		Jul-13-07 01:21		Jul-13-07 10:51		Jul-13-07 11:18	
C6-C10 Gasoline Range Hydrocarbons			mg/kg RL		mg/kg RL		mg/kg RL		mg/kg RL	
			14.3 10.9		ND 11.6		ND 11.1		ND 11.7	
			50.9 10.9		17.0 11.6		34.2 11.1		ND 11.7	
C10-C28 Diesel Range Hydrocarbons										

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work, order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

  
Brent Barron  
Odessa Laboratory Director



## 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.

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

11381 Meadowglen Lane Suite I, Houston, Tx 77082-2647  
 9701 Harry Hines Blvd , Dallas, TX 75220  
 5332 Blackberry Drive, Suite 104, San Antonio, TX 78238  
 2505 N. Falkenburg Rd., Tampa, FL 33619  
 5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



# Form 2 - Surrogate Recoveries



Project Name: Gem Dandy BCG State Com. # 1

Work Order #: 285837

Project ID: 30-015-32666

Lab Batch #: 700420

Sample: 285837-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0472	0.0500	94	75-125	

Lab Batch #: 700420

Sample: 285837-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0554	0.0500	111	75-125	

Lab Batch #: 700420

Sample: 285837-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0419	0.0500	84	75-125	

Lab Batch #: 700420

Sample: 285837-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0383	0.0500	77	75-125	

Lab Batch #: 700420

Sample: 285839-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0286	0.0500	57	75-125	*

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries



Project Name: Gem Dandy BCG State Com. # 1

Work Order #: 285837

Project ID: 30-015-32666

Lab Batch #: 700420

Sample: 285839-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0256	0.0500	51	75-125	*

Lab Batch #: 700420

Sample: 497192-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0753	0.1000	75	80-120	

Lab Batch #: 700420

Sample: 497192-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

## SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0415	0.0500	83	80-120	

Lab Batch #: 700263

Sample: 285803-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

## SURROGATE RECOVERY STUDY

TPH by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	42.4	50.0	85	70-135	
1-Chlorooctane	70.0	50.0	140	70-135	*

Lab Batch #: 700263

Sample: 285803-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

## SURROGATE RECOVERY STUDY

TPH by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	48.0	50.0	96	70-135	
1-Chlorooctane	76.5	50.0	153	70-135	*

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.



# Dom 2 - Surrogate Recoveries



Project Name: Gem Dandy BCG State Com. # 1

Work Order #: 285837

Project ID: 30-015-32666

Lab Batch #: 700263

Sample: 285837-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

## SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	39.7	50.0	79	70-135	
1-Chlorooctane	37.0	50.0	74	70-135	

Lab Batch #: 700263

Sample: 285837-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

## SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	43.1	50.0	86	70-135	
1-Chlorooctane	39.6	50.0	79	70-135	

Lab Batch #: 700263

Sample: 285837-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

## SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	34.0	50.0	68	70-135	**
1-Chlorooctane	31.7	50.0	63	70-135	**

Lab Batch #: 700263

Sample: 285837-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

## SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	38.6	50.0	77	70-135	
1-Chlorooctane	35.9	50.0	72	70-135	

Lab Batch #: 700263

Sample: 497005-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

## SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	34.0	50.0	68	70-135	*
1-Chlorooctane	37.4	50.0	75	70-135	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] – 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries



Project Name: Gem Dandy BCG State Com. # 1

Work Order #: 285837

Project ID: 30-015-32666

Lab Batch #: 700263

Sample: 497005-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

## SURROGATE RECOVERY STUDY

TPH by SW 8015B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	39.9	50.0	80	70-135	
1-Chlorooctane	36.6	50.0	73	70-135	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] –  $100 * A / B$

All results are based on MDL and validated for QC purposes.



# Blank Spike Recovery



Project Name: Gem Dandy BCG State Com. # 1

Work Order #: 285837

Project ID:

30-015-32666

Lab Batch #: 700420

Sample: 497192-1-BKS

Matrix: Solid

Date Analyzed: 07/14/2007

Date Prepared: 07/13/2007

Analyst: CELKEE

Reporting Units: mg/kg

Batch #: 1

## BLANK/BLANK SPIKE RECOVERY STUDY

BTEX by EPA 8021B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Benzene	ND	0.1000	0.0846	85	70-130	
Toluene	ND	0.1000	0.0853	85	70-130	
Ethylbenzene	ND	0.1000	0.0893	89	71-129	
m,p-Xylene	ND	0.2000	0.1580	79	70-135	
o-Xylene	ND	0.1000	0.0864	86	71-133	

Lab Batch #: 700263

Sample: 497005-1-BKS

Matrix: Solid

Date Analyzed: 07/12/2007

Date Prepared: 07/12/2007

Analyst: SHE

Reporting Units: mg/kg

Batch #: 1

## BLANK/BLANK SPIKE RECOVERY STUDY

TPH by SW 8015B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
C6-C10 Gasoline Range Hydrocarbons	ND	500	481	96	70-135	
C10-C28 Diesel Range Hydrocarbons	ND	500	387	77	70-135	

Blank Spike Recovery [D] =  $100 \times [C]/[B]$

All results are based on MDL and validated for QC purposes.



# Form 3 - MS / MSD Recoveries



Project Name: Gem Dandy BCG State Com. # 1

Work Order #: 285837

Project ID: 30-015-32666

Lab Batch ID: 700420

QC- Sample ID: 285839-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/16/2007

Date Prepared: 07/13/2007

Analyst: CELKEE

Reporting Units: mg/kg

Reporting Units: mg/kg												
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY												
Analytes	BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Benzene	ND	0.1120	0.0896	80	0.1120	0.0860	77	4	70-130	35	
	Toluene	ND	0.1120	0.0792	71	0.1120	0.0755	67	6	70-130	35	X
	Ethylbenzene	ND	0.1120	0.0734	66	0.1120	0.0683	61	8	71-129	35	X
	m,p-Xylene	ND	0.2241	0.1265	56	0.2241	0.1179	53	6	70-135	35	X
	o-Xylene	ND	0.1120	0.0678	61	0.1120	0.0624	56	9	71-133	35	X

Lab Batch ID: 700263

QC- Sample ID: 285803-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/13/2007

Date Prepared: 07/12/2007

Analyst: SHE

Reporting Units: mg/kg

Reporting Units: mg/kg											
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	776	552	1450	122	552	1470	126	3	70-135	35	
C10-C28 Diesel Range Hydrocarbons	766	552	1350	106	552	1470	128	19	70-135	35	

Matrix Spike Percent Recovery  $[D] = 100 \times (C-A)/B$   
Relative Percent Difference  $RPD = 200 \times (D-G)/(D+G)$

Matrix Spike Duplicate Percent Recovery  $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable, N = See Narrative, EQL = Estimated Quantitation Limit



# Sample Duplicate Recovery



Project Name: Gem Dandy BCG State Com. # 1

Work Order #: 285837

Lab Batch #: 700244

Project ID: 30-015-32666

Date Analyzed: 07/12/2007

Date Prepared: 07/12/2007

Analyst: JLG

QC- Sample ID: 285822-010 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	9.91	10.2	3	20	

Spike Relative Difference RPD  $200 * |(B-A)/(B+A)|$   
All Results are based on MDL and validated for QC purposes.

## Environmental Lab of Texas

**CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**

12600 West I-20 East  
Odessa, Texas 79765

Phone: 432-553-1800  
Fax: 432-560-1713

**Project Manager:** Robert Asher

Company Name	Yates Petroleum Corporation
Address	10000 W. 9th Ave., Suite 100 Denver, CO 80231-7600
Phone Number	(303) 755-1000
Fax Number	(303) 755-1000
E-mail Address	yates@yatespetroleum.com
Website	www.yatespetroleum.com
Product Line	Crude Oil Refining
Business Type	Refining
Market Segment	Industrial
Primary Market	Transportation
Secondary Market	Manufacturing
Tertiary Market	Agriculture
Quadrant	Southwest
Region	West
State	Colorado
County	Adams
City	Denver
Zip Code	80231
Latitude	39.7392
Longitude	-104.9903
Altitude	5280
Population	725,000
Area	100
Time Zone	MST
Daylight Savings Time	No
Language	English
Currency	Dollar
Unit of Measure	Gallon
Weight Unit	Pound
Volume Unit	Cubic Foot
Temperature Unit	Fahrenheit
Pressure Unit	Psi
Energy Unit	Btu
Power Unit	Horsepower
Speed Unit	Mph
Distance Unit	Mile
Area Unit	Square Foot
Volume Unit	Cubic Yard
Weight Unit	Ton
Volume Unit	Barrel
Energy Unit	Kilowatt Hour
Power Unit	Kilowatt
Speed Unit	Kmph
Distance Unit	Km
Area Unit	Square Meter
Volume Unit	Cubic Meter
Weight Unit	Kilogram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt
Speed Unit	Mps
Distance Unit	Meter
Area Unit	Square Kilometer
Volume Unit	Liter
Weight Unit	Gram
Temperature Unit	Celsius
Pressure Unit	Kpa
Energy Unit	Kilojoule
Power Unit	Kilowatt

Company Address: 105 South 4th Street

City: 816/674-2710

Telephone No: 555 555 5555

Complete Case Studies

---

ORDER #: 285837

[illegible]

Released to Imaging: 2/6/2023 12:34:02 PM

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

Received by OCD: 9/30/2022 10:43:16 AM

## Environmental Lab of Texas

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

Client: Yates

Date/ Time: 7-12-07 12:00

Lab ID #: 285837

Initials: al

### Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>0.0</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 ELOT?	<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



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: Gem Dandy BCG State Com. #1

Project Number: 30-015-32666

Location: Eddy County

Lab Order Number: 7D19005

Report Date: 04/25/07

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

Project: Gem Dandy BCG State Com. #1  
Project Number: 30-015-32666  
Project Manager: Robert Asher

Fax: (505) 748-4662

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GS/6.0-001	7D19005-01	Soil	04/17/07 14:02	04-19-2007 10:10
GS/7.0-002	7D19005-02	Soil	04/17/07 14:15	04-19-2007 10:10
GS/8.0-003	7D19005-03	Soil	04/17/07 14:23	04-19-2007 10:10
GS/9.0-004	7D19005-04	Soil	04/17/07 14:30	04-19-2007 10:10
GS/1.0-005	7D19005-05	Soil	04/17/07 15:00	04-19-2007 10:10
GS/2.0-006	7D19005-06	Soil	04/17/07 15:05	04-19-2007 10:10
GS/3.0-007	7D19005-07	Soil	04/17/07 15:28	04-19-2007 10:10

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

Project: Gem Dandy BCG State Com. #1  
Project Number: 30-015-32666  
Project Manager: Robert Asher

Fax: (505) 748-4662

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

Analytic	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>GS/6.0-001 (7D19005-01) Soil</b>									
Benzene	ND	0.00200	mg/kg dry	2	ED71905	04/19/07	04/19/07	EPA 8021B	
Toluene	0.00291	0.00200	"	"	"	"	"	"	
Ethylbenzene	0.0102	0.00200	"	"	"	"	"	"	
Xylene (p/m)	0.0182	0.00200	"	"	"	"	"	"	
Xylene (o)	0.0269	0.00200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.2 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	75-125		"	"	"	"	
Carbon Ranges C6-C10	24.5	10.0	mg/kg dry	1	ED71914	04/19/07	04/24/07	EPA 8015B	
Carbon Ranges >C10-C28	238	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	262	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.6 %	70-130		"	"	"	"	
<b>GS/7.0-002 (7D19005-02) Soil</b>									
Benzene	ND	0.00200	mg/kg dry	2	ED71905	04/19/07	04/20/07	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		90.4 %	75-125		"	"	"	"	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	ED71914	04/19/07	04/24/07	EPA 8015B	
Carbon Ranges >C10-C28	50.1	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	50.1	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		94.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.4 %	70-130		"	"	"	"	
<b>GS/8.0-003 (7D19005-03) Soil</b>									
Benzene	ND	0.00200	mg/kg dry	2	ED71905	04/19/07	04/20/07	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		82.4 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.8 %	75-125		"	"	"	"	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	ED71914	04/19/07	04/24/07	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	ND	10.0	"	"	"	"	"	"	

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 11

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

Project: Gem Dandy BCG State Com. #1  
Project Number: 30-015-32666  
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/8.0-003 (7D19005-03) Soil</b>									
Surrogate: 1-Chlorooctane		94.2 %	70-130		ED71914	04/19/07	04/24/07	EPA 8015B	
Surrogate: 1-Chlorooctadecane		89.0 %	70-130		"	"	"	"	
<b>GS/9.0-004 (7D19005-04) Soil</b>									
Benzene	ND	0.00200	mg/kg dry	2	ED71905	04/19/07	04/20/07	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		80.6 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.2 %	75-125		"	"	"	"	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	ED71914	04/19/07	04/24/07	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		87.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		86.6 %	70-130		"	"	"	"	
<b>GS/1.0-005 (7D19005-05) Soil</b>									
Benzene	3.42	0.0500	mg/kg dry	50	ED72008	04/20/07	04/24/07	EPA 8021B	
Toluene	31.6	0.0500	"	"	"	"	"	"	
Ethylbenzene	29.0	0.0500	"	"	"	"	"	"	
Xylene (p/m)	47.4	0.0500	"	"	"	"	"	"	
Xylene (o)	20.1	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		274 %	75-125		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		183 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C10	2580	50.0	mg/kg dry	5	ED71914	04/19/07	04/24/07	EPA 8015B	
Carbon Ranges >C10-C28	5030	50.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	7610	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		40.2 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		30.8 %	70-130		"	"	"	"	S-06

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 3 of 11

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

Project: Gem Dandy BCG State Com. #1  
Project Number: 30-015-32666  
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/2.0-006 (7D19005-06) Soil</b>									
Benzene	3.59	0.100	mg/kg dry	100	ED72008	04/20/07	04/24/07	EPA 8021B	
Toluene	30.6	0.100	"	"	"	"	"	"	
Ethylbenzene	27.7	0.100	"	"	"	"	"	"	
Xylene (p/m)	47.7	0.100	"	"	"	"	"	"	
Xylene (o)	20.3	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		214 %	75-125		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		148 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C10	2920	50.0	mg/kg dry	5	ED71914	04/19/07	04/24/07	EPA 8015B	
Carbon Ranges >C10-C28	5180	50.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	8100	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		47.0 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		20.0 %	70-130		"	"	"	"	S-06
<b>GS/3.0-007 (7D19005-07) Soil</b>									
Benzene	1.87	0.100	mg/kg dry	100	ED72008	04/20/07	04/24/07	EPA 8021B	
Toluene	25.8	0.100	"	"	"	"	"	"	
Ethylbenzene	33.1	0.100	"	"	"	"	"	"	
Xylene (p/m)	59.1	0.100	"	"	"	"	"	"	
Xylene (o)	25.9	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		189 %	75-125		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		159 %	75-125		"	"	"	"	S-04
Carbon Ranges C6-C10	3860	100	mg/kg dry	10	ED71914	04/19/07	04/24/07	EPA 8015B	
Carbon Ranges >C10-C28	7550	100	"	"	"	"	"	"	
Total Carbon Range C6-C28	11400	100	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		33.0 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		9.38 %	70-130		"	"	"	"	S-06

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 4 of 11

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

Project: Gem Dandy BCG State Com. #1  
Project Number: 30-015-32666  
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/6.0-001 (7D19005-01) Soil</b>									
% Moisture	8.7	0.1	%	1	ED72005	04/19/07	04/19/07	% calculation	
<b>GS/7.0-002 (7D19005-02) Soil</b>									
% Moisture	7.2	0.1	%	1	ED72005	04/19/07	04/19/07	% calculation	
<b>GS/8.0-003 (7D19005-03) Soil</b>									
% Moisture	15.6	0.1	%	1	ED72005	04/19/07	04/19/07	% calculation	
<b>GS/9.0-004 (7D19005-04) Soil</b>									
% Moisture	15.3	0.1	%	1	ED72005	04/19/07	04/19/07	% calculation	
<b>GS/1.0-005 (7D19005-05) Soil</b>									
% Moisture	10.8	0.1	%	1	ED72005	04/19/07	04/19/07	% calculation	
<b>GS/2.0-006 (7D19005-06) Soil</b>									
% Moisture	6.2	0.1	%	1	ED72005	04/19/07	04/19/07	% calculation	
<b>GS/3.0-007 (7D19005-07) Soil</b>									
% Moisture	8.1	0.1	%	1	ED72005	04/19/07	04/19/07	% calculation	

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 5 of 11

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

Project: Gem Dandy BCG State Com. #1  
Project Number: 30-015-32666  
Project Manager: Robert Asher

Fax: (505) 748-4662

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%RHC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch ED71905 - EPA 5030C (GC)</b>										
<b>Blank (ED71905-BLK1)</b>										
Prepared & Analyzed: 04/19/07										
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	53.3		ug/kg	50.0		107	75-125			
Surrogate: 4-Bromofluorobenzene	47.5		"	50.0		95.0	75-125			
<b>LCS (ED71905-BS1)</b>										
Prepared & Analyzed: 04/19/07										
Benzene	0.0507	0.00100	mg/kg wet	0.0500		101	80-120			
Toluene	0.0512	0.00100	"	0.0500		102	80-120			
Ethylbenzene	0.0547	0.00100	"	0.0500		109	80-120			
Xylene (p/m)	0.101	0.00100	"	0.100		101	80-120			
Xylene (o)	0.0558	0.00100	"	0.0500		112	80-120			
Surrogate: a,a,a-Trifluorotoluene	52.6		ug/kg	50.0		105	75-125			
Surrogate: 4-Bromofluorobenzene	50.4		"	50.0		101	75-125			
<b>LCS Dup (ED71905-BS1)</b>										
Prepared: 04/19/07 Analyzed: 04/20/07										
Benzene	0.0535	0.00100	mg/kg wet	0.0500		107	80-120	5.77	20	
Toluene	0.0536	0.00100	"	0.0500		107	80-120	4.78	20	
Ethylbenzene	0.0564	0.00100	"	0.0500		113	80-120	3.60	20	
Xylene (p/m)	0.104	0.00100	"	0.100		104	80-120	2.93	20	
Xylene (o)	0.0575	0.00100	"	0.0500		115	80-120	2.64	20	
Surrogate: a,a,a-Trifluorotoluene	55.0		ug/kg	50.0		110	75-125			
Surrogate: 4-Bromofluorobenzene	52.2		"	50.0		104	75-125			
<b>Calibration Check (ED71905-CCV1)</b>										
Prepared: 04/19/07 Analyzed: 04/20/07										
Benzene	55.0		ug/kg	50.0		110	80-120			
Toluene	53.3		"	50.0		107	80-120			
Ethylbenzene	55.0		"	50.0		110	80-120			
Xylene (p/m)	99.8		"	100		99.8	80-120			
Xylene (o)	55.8		"	50.0		112	80-120			
Surrogate: a,a,a-Trifluorotoluene	53.1		"	50.0		106	75-125			
Surrogate: 4-Bromofluorobenzene	48.3		"	50.0		96.6	75-125			

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 6 of 11

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

Project: Gem Dandy BCG State Com. #1  
Project Number: 30-015-32666  
Project Manager: Robert Asher

Fax: (505) 748-4662

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch ED71905 - EPA 5030C (GC)**

Matrix Spike (ED71905-MS1)		Source: 7D13016-09		Prepared: 04/19/07		Analyzed: 04/20/07				
Benzene	0.129	0.00200	mg/kg dry	0.130	ND	99.2	80-120			
Toluene	0.126	0.00200	"	0.130	ND	96.9	80-120			
Ethylbenzene	0.133	0.00200	"	0.130	ND	102	80-120			
Xylene (p/m)	0.229	0.00200	"	0.260	ND	88.1	80-120			
Xylene (o)	0.126	0.00200	"	0.130	ND	96.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	47.2		ug/kg	50.0		94.4	75-125			
Surrogate: 4-Bromofluorobenzene	44.9		"	50.0		89.8	75-125			

**Batch ED71914 - Solvent Extraction (GC)**

Blank (ED71914-BLK1)				Prepared: 04/19/07		Analyzed: 04/24/07				
Carbon Ranges C6-C10	ND	10.0	mg/kg wet							
Carbon Ranges >C10-C28	ND	10.0	"							
Total Carbon Range C6-C28	ND	10.0	"							
Surrogate: 1-Chlorooctane	39.5		mg/kg	50.0		79.0	70-130			
Surrogate: 1-Chlorooctadecane	43.6		"	50.0		87.2	70-130			

LCS (ED71914-BS1)				Prepared: 04/19/07		Analyzed: 04/24/07				
Carbon Ranges C6-C10	601	10.0	mg/kg wet	500		120	75-125			
Carbon Ranges >C10-C28	464	10.0	"	500		92.8	75-125			
Total Carbon Range C6-C28	1060	10.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102	70-130			
Surrogate: 1-Chlorooctadecane	43.8		"	50.0		87.6	70-130			

Calibration Check (ED71914-CCV1)				Prepared: 04/19/07		Analyzed: 04/25/07				
Carbon Ranges C6-C10	232		mg/kg	250		92.8	80-120			
Carbon Ranges >C10-C28	238		"	250		95.2	80-120			
Total Carbon Range C6-C28	470		"	500		94.0	80-120			
Surrogate: 1-Chlorooctane	57.6		"	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	58.6		"	50.0		117	70-130			

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 7 of 11

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

Project: Gem Dandy BCG State Com. #1  
Project Number: 30-015-32666  
Project Manager: Robert Asher

Fax: (505) 748-4662

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch ED71914 - Solvent Extraction (GC)**

Matrix Spike (ED71914-MS1)		Source: 7D19005-04		Prepared: 04/19/07		Analyzed: 04/24/07				
Carbon Ranges C6-C10	624	10.0	mg/kg dry	590	ND	106	75-125			
Carbon Ranges >C10-C28	617	10.0	"	590	ND	105	75-125			
Total Carbon Range C6-C28	1240	10.0	"	1180	ND	105	75-125			
Surrogate: 1-Chlorooctane	59.7		mg/kg	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	56.9		"	50.0		114	70-130			
Matrix Spike Dup (ED71914-MSD1)		Source: 7D19005-04		Prepared: 04/19/07		Analyzed: 04/25/07				
Carbon Ranges C6-C10	622	10.0	mg/kg dry	590	ND	105	75-125	0.321	20	
Carbon Ranges >C10-C28	604	10.0	"	590	ND	102	75-125	2.13	20	
Total Carbon Range C6-C28	1230	10.0	"	1180	ND	104	75-125	0.810	20	
Surrogate: 1-Chlorooctane	59.5		mg/kg	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	55.4		"	50.0		111	70-130			

**Batch ED72008 - EPA 5030C (GC)**

Blank (ED72008-BLK1)		Prepared: 04/20/07		Analyzed: 04/23/07						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	53.0		ug/kg	50.0		106	75-125			
Surrogate: 4-Bromofluorobenzene	50.6		"	50.0		101	75-125			
LCS (ED72008-BS1)		Prepared: 04/20/07		Analyzed: 04/23/07						
Benzene	0.0535	0.00100	mg/kg wet	0.0500		107	80-120			
Toluene	0.0539	0.00100	"	0.0500		108	80-120			
Ethylbenzene	0.0572	0.00100	"	0.0500		114	80-120			
Xylene (p/m)	0.106	0.00100	"	0.100		106	80-120			
Xylene (o)	0.0580	0.00100	"	0.0500		116	80-120			
Surrogate: a,a,a-Trifluorotoluene	53.1		ug/kg	50.0		106	75-125			
Surrogate: 4-Bromofluorobenzene	53.1		"	50.0		106	75-125			

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 8 of 11

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

Project: Gem Dandy BCG State Com. #1  
Project Number: 30-015-32666  
Project Manager: Robert Asher

Fax: (505) 748-4662

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch ED72008 - EPA 5030C (GC)</b>										
<b>Calibration Check (ED72008-CCV1)</b>				Prepared: 04/20/07 Analyzed: 04/24/07						
Benzene	54.3		ug/kg	50.0		109	80-120			
Toluene	54.9		"	50.0		110	80-120			
Ethylbenzene	58.2		"	50.0		116	80-120			
Xylene (p/m)	105		"	100		105	80-120			
Xylene (o)	58.8		"	50.0		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	49.8		"	50.0		99.6	75-125			
Surrogate: 4-Bromofluorobenzene	52.4		"	50.0		105	75-125			
<b>Matrix Spike (ED72008-MS1)</b>				Source: 7D20008-02 Prepared: 04/20/07 Analyzed: 04/24/07						
Benzene	0.0985	0.00200	mg/kg dry	0.106	ND	92.9	80-120			
Toluene	0.0926	0.00200	"	0.106	ND	87.4	80-120			
Ethylbenzene	0.0880	0.00200	"	0.106	ND	83.0	80-120			
Xylene (p/m)	0.171	0.00200	"	0.211	ND	81.0	80-120			
Xylene (o)	0.0918	0.00200	"	0.106	ND	86.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.4		ug/kg	50.0		78.8	75-125			
Surrogate: 4-Bromofluorobenzene	38.3		"	50.0		76.6	75-125			
<b>Matrix Spike Dup (ED72008-MSD1)</b>				Source: 7D20008-02 Prepared: 04/20/07 Analyzed: 04/24/07						
Benzene	0.0966	0.00200	mg/kg dry	0.106	ND	91.1	80-120	1.96	20	
Toluene	0.0909	0.00200	"	0.106	ND	85.8	80-120	1.85	20	
Ethylbenzene	0.0932	0.00200	"	0.106	ND	87.9	80-120	5.73	20	
Xylene (p/m)	0.174	0.00200	"	0.211	ND	82.5	80-120	1.83	20	
Xylene (o)	0.0913	0.00200	"	0.106	ND	86.1	80-120	0.579	20	
Surrogate: a,a,a-Trifluorotoluene	40.8		ug/kg	50.0		81.6	75-125			
Surrogate: 4-Bromofluorobenzene	40.0		"	50.0		80.0	75-125			

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 9 of 11

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713



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

Project: Gem Dandy BCG State Com. #1  
Project Number: 30-015-32666  
Project Manager: Robert Asher

Fax: (505) 748-4662

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch ED72005 - General Preparation (Prep)</b>										
<b>Blank (ED72005-BLK1)</b>				<b>Prepared &amp; Analyzed: 04/19/07</b>						
% Solids	100		%							
<b>Duplicate (ED72005-DUP1)</b>				<b>Source: 7D19006-01      Prepared &amp; Analyzed: 04/19/07</b>						
% Solids	85.4		%		82.9			2.97	20	

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 10 of 11

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

Project: Gem Dandy BCG State Com. #1  
Project Number: 30-015-32666  
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.

DET 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:

4/25/2007

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

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

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 11 of 11

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

## 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

Project Name: Gem Dandy BCG State Com. #1

Company Name: Yates Petroleum Corporation

Project #: 30-015-32686

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 105632

Telephone No: 505-748-4217

Fax No: 505-748-4662

Report Format: ☒ Standard ☐ TRRP ☐ NPDESSampler Signature: *Robert Asher*

e-mail: boba@yppcnm.com

(lab use only)

ORDER #: 7D19005

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Special Instructions: TPH: 8015B BTEX: 8021B. Show BTEX results in mg/kg. Thank you.

Relinquished by:		Date	Time	Received by:		Date	Time
Robert Asher		04/18/07	3:21 PM				
Relinquished by:		Date	Time	Received by:		Date	Time
FedEx 902975599341		4-17-07	10:10	Andrea Ram		4-19-07	10:10

## Laboratory Comments:

Sample Containers Intact? ☒ YES ☐ NO  
 VOCs Free of Headspace? ☒ YES ☐ NO  
 Labels on container(s) ☒ YES ☐ NO  
 Custody seals on container(s) ☒ YES ☐ NO  
 Custody seals on cooler(s) ☒ YES ☐ NO  
 Sample Hand Delivered by Sampler/Client Rep. ? ☒ YES ☐ NO  
 by Courier? ☐ UPS ☐ DHL ☒ FedEx Lone Star  
 Temperature Upon Receipt: 40.25 <sup>14.55</sup> 3.0 °C

## Environmental Lab of Texas

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

Client: Yates Petroleum Corp.  
 Date/ Time: 4-19-07 10:10  
 Lab ID #: 7D19005  
 Initials: AL

## Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	3.0 °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 ELOT?	<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	Not Applicable	
#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

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

Project: Gem Dandy BCG State Com. #1  
Project Number: 30-015-32666  
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.

DET 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: 4/25/07

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

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

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 11 of 11

**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

**Project Name:** Gem Dandy BCG State Com. #1

Company Name	Yates Petroleum Corporation
--------------	-----------------------------

Project #: 30-015-32666

Company Address: 105 South 4th Street

**Project Loc:** Eddy County

City/State/Zip: Artesia, NM 88210

**PO #: 105632**

Telephone No: 505-748-4217

Fax No: 505-748-4662

**Sampler Signature:**

[boba@ypcnm.com](mailto:boba@ypcnm.com)

[illegible]

## Environmental Lab of Texas

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

Client: Yates Petroleum Corp.  
 Date/ Time: 4-19-07 10:10  
 Lab ID #: 7D19005  
 Initials: AL

## Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	3.0 °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 ELOT?	<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

04/18/07  
Man# 3  
SHPR: BOB ASHER DV:  
FEXP PO Base Chrg: 45.44  
WT: 16.6 lbs Total Chrgs: 45.44

Sent To: ENVIRONMENTAL LA  
Trk# 902975599341

# 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

MD 20:43:21 6/20/2022/9/2: gunguij of pasvawj Released

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  
Fax No: 505-748-4662  
Sampler Signature: [Signature]  
e-mail: boba@ypcnm.com  
Project Name: Germ Dandy BCG State Com. #1  
Project #: 30-015-32666  
Project Loc: Eddy County  
PO #: 105632  
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 3015B TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 3021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
	GS/6.0-001	6'	6'	4/17/2007	2:02 PM		1	X								S	X													X
	GS/7.0-002	7'	7'	4/17/2007	2:15 PM		1	X								S	X													X
	GS/8.0-003	8'	8'	4/17/2007	2:23 PM		1	X								S	X													X
	GS/9.0-004	9'	9'	4/17/2007	2:30 PM		1	X								S	X													X
	GS/1.0-005	1'	1'	4/17/2007	3:00 PM		1	X								S	X													X
	GS/2.0-006	2'	2'	4/17/2007	3:05 PM		1	X								S	X													X
	GS/3.0-007	3'	3'	4/17/2007	3:28 PM		1	X								S	X													X

Special Instructions: TPH: 8015B BTEX: 8021B. Show BTEX results in mg/kg. Thank you.

Relinquished by:	Date	Time	Received by:	Date	Time
Robert Asher	04/18/07	3:21 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Relinquished by: [Signature]

Temperature Upon Receipt: \_\_\_\_\_ °C

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  
Sample Hand Delivered ☐ Y ☐ N  
by Sampler/Client Rep.? ☐ Y ☐ N  
by Courier? ☐ UPS ☐ DHL ☐ FedEx ☐ Lone Star

Gem Dandy BCG State Com #1  
Closure Report  
#nMLB0716553869

---



September 29, 2022

# Appendix E

## NMOCD Final Report Approval Email

**Bob Asher**

---

**From:** Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]  
**Sent:** Thursday, July 19, 2007 11:16 AM  
**To:** Bob Asher  
**Subject:** RE: Gem Dandy BCG State Com. #1

Bob,

Based on analytical data presented, this site is approved to commence back fill operations.

This approval does not relieve Yates Petroleum of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, this approval does not relieve Yates Petroleum of responsibility for compliance with any other federal, state, local laws and/or regulations.

Sincerely,

Mike Bratcher  
NMOCD District 2

---

**From:** Bob Asher [mailto:boba@YPCNM.COM]  
**Sent:** Thursday, July 19, 2007 8:34 AM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** Gem Dandy BCG State Com. #1

Mike,

Per our conversation this morning, Yates would like to request verbal permission to begin back fill work at the above location to allow production operations to restart. I have called the dirt contractor; they will begin work on Friday, July 20, 2007.

Thank you for your assistance with this project.

Robert Asher  
Yates Petroleum Corporation  
505-748-4217 (Office)  
505-748-4662 (Fax)  
505-365-4021 (Cell)

---

This inbound email has been scanned by the MessageLabs Email Security System.

---

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient (s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

7/24/2007

Gem Dandy BCG State Com #1  
Closure Report  
#nMLB0716553869

---



September 29, 2022

# Appendix F

## Current C-141 Closure

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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 Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	nMLB0716553869
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	EOG Resources, Inc.	OGRID	7377
Contact Name	Chase Settle	Contact Telephone	575-748-1471
Contact email	Chase_Settle@eogresources.com	Incident # (assigned by OCD)	nMLB0716553869
Contact mailing address	104 S. 4th Street, Artesia, NM 88210		

### Location of Release Source

Latitude 32.87691 Longitude -104.25475  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Gem Dandy BCG State Com #1	Site Type	Battery
Date Release Discovered	12/31/2006	API# (if applicable)	30-015-32666

Unit Letter	Section	Township	Range	County
L	35	16S	27E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: COG Operating)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) <u>10</u>	Volume Recovered (bbls) <u>5</u>
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Please refer to the original C-141 for details of nMLB0716553869.

## Oil Conservation Division

Incident ID	nMLB0716553869
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?          
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?          	

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:          	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.	
Printed Name: <u>Chase Settle</u>	Title: <u>Rep Safety &amp; Environmental Sr</u>
Signature: <u>Chase Settle</u>	Date: <u>09/29/2022</u>
email: <u>Chase_Settle@eogresources.com</u>	Telephone: <u>575-748-1471</u>
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>09/30/2022</u>

Incident ID	nMLB0716553869
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr  
Signature: Chase Settle Date: 09/29/2022  
email: Chase\_Settle@eogresources.com Telephone: 575-748-1471

**OCD Only**

Received by: Jocelyn Harimon Date: 09/30/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Ashley Maxwell Date: 2/06/2023  
Printed Name: Ashley Maxwell Title: Environmental Specialist

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 147802

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 147802
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/6/2023