



EOG Resources, Inc.
Artesia Division Office
104 S. 4th Street
Artesia, N. M. 88210

March 17, 2022

NMOCD
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Rio Penasco RT Com #1
30-015-23978
H-3-19S-25E
Eddy County, New Mexico
2RP-492
NMLB1034126733

Mr. Billings,

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site. The plan is being submitted accompanying the C-141 Closure on the most recent form.

The original Closure Report was submitted January 11, 2011, EOG Resources, Inc. hereby again submits the Closure Report for above referenced site.

Included with this Closure Report request is the Remediation Plan and Closure Report originally submitted for the site in 2010 and 2011, and the approval email from NMOCD for backfill to be commenced due to imminent Closure approval.

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.

EOG Resources, Inc.
Rio Penasco RT Com #1
Closure Report
H-3-19S-25E
Eddy County, New Mexico
March 17, 2022
2RP-492
NMLB1034126733

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Appendix A

C-141 (Updated Form)

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	nMLB1034126733
District RP	2RP-492
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) nMLB1034126733
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.69198 Longitude -104.46566
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Rio Penasco RT Com #1	Site Type Battery
Date Release Discovered 11/29/2010	API# (if applicable) 30-015-23978

Unit Letter	Section	Township	Range	County
H	3	19S	25E	Eddy

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

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) 14	Volume Recovered (bbls) 2
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 8	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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 2RP-492.

State of New Mexico
Oil Conservation Division

Incident ID	nMLB1034126733
District RP	2RP-492
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 & Environmental Sr</u>
Signature: <u>Chase Settle</u>	Date: <u>3/17/2022</u>
email: <u>Chase_Settle@eogresources.com</u>	Telephone: <u>575-748-1471</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nMLB1034126733
District RP	2RP-492
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	204 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	nMLB1034126733
District RP	2RP-492
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Application ID	

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: Chase Settle Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 03/17/2022

email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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District RP	2RP-492
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nMLB1034126733
District RP	2RP-492
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: 03/17/2022

email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

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: Jennifer Nobui Date: 03/25/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

Appendix B

Remediation Plan

ARTIN YATES, III

1912-1985

FRANK W. YATES

1936-1986

S.P. YATES

1914-2008



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

JOHN A. YATES
CHAIRMAN OF THE BOARD

JOHN A. YATES JR.
PRESIDENT

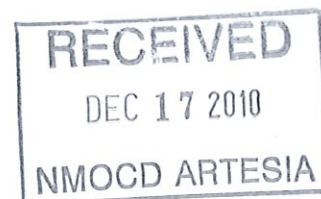
SCOTT M. YATES
VICE PRESIDENT

JAMES S. BROWN
CHIEF OPERATING OFFICER

JOHN D. PERINI
CHIEF FINANCIAL OFFICER

December 17, 2010

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



Re: Rio Penasco RT Com. #1
2RP-492
30-015-23978
Section 3, T19S-R25E
Eddy County, New Mexico

Dear Mr. Bratcher:

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated December 6, 2010.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after the week of December 20, 2010.

If you have any questions call me at (575) 748-4217

Thank you.

YATES PETROLEUM CORPROATION

Robert Asher
Environmental Regulatory Agent

Enclosure(s)

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER

RECEIVED
DEC 17 2010
NMOCD ARTESIA

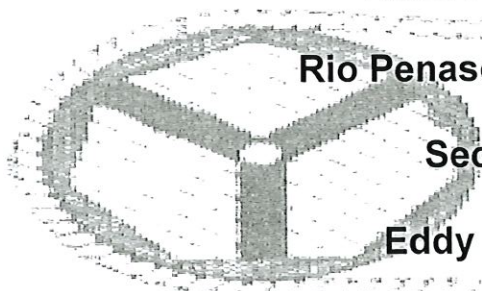
Yates Petroleum Corporation

Rio Penasco RT Com. #1 Work Plan

Section 3, T19S-R25E

Eddy County, New Mexico

December 17, 2010



I. Location

The well is located approximately 14 miles southwest of Artesia, NM and 1.5 miles south of Kincaid Ranch Road (CR 39), as represented by the attached 'Dayton, NM', USGS Quadrangle Map.

II. Background

On December 6, 2010, Yates submitted to the NMOCD District II office a Form C-141 for a release of 14 B/O & 8 B/PW with 2 B/O & 0 B/PW recovered. The total affected area is approximately 15 feet by 30 feet area. Initial delineation samples were taken (12/8/2010) and sent to an NMOCD approved laboratory (12/15/2010 results enclosed). Based on results with elevated BTEX levels, three (3) feet of impacted soils have been excavated/hailed to an NMOCD approved facility to help prevent any deeper vertical migration of contaminants.

III. Surface and Ground Water

Area surface geology is Cenozoic. The nearest groundwater of record is listed on the New Mexico Office of the State Engineer (Section 2, T19S-R25E) shows depth to groundwater approximately 204 feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

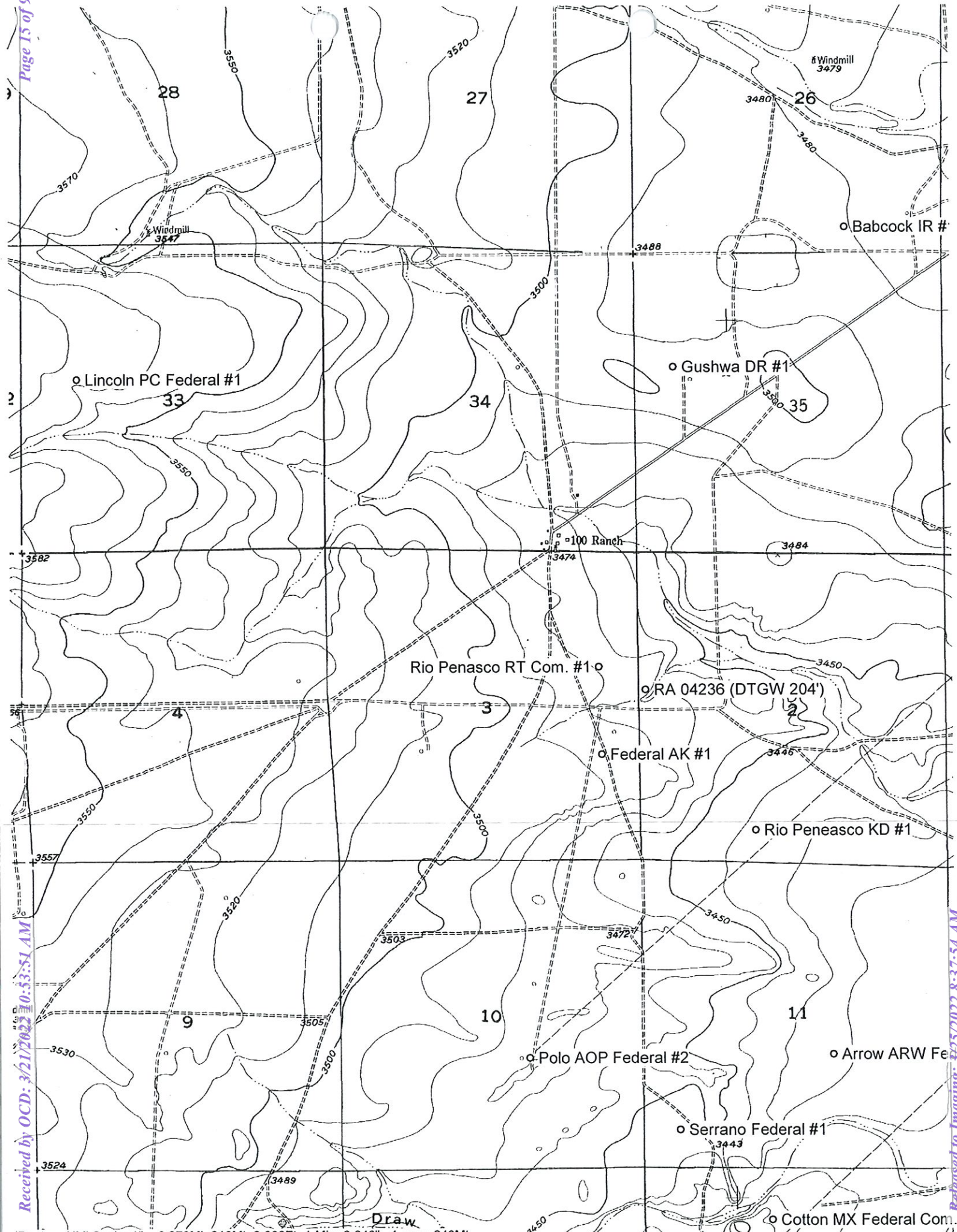
Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

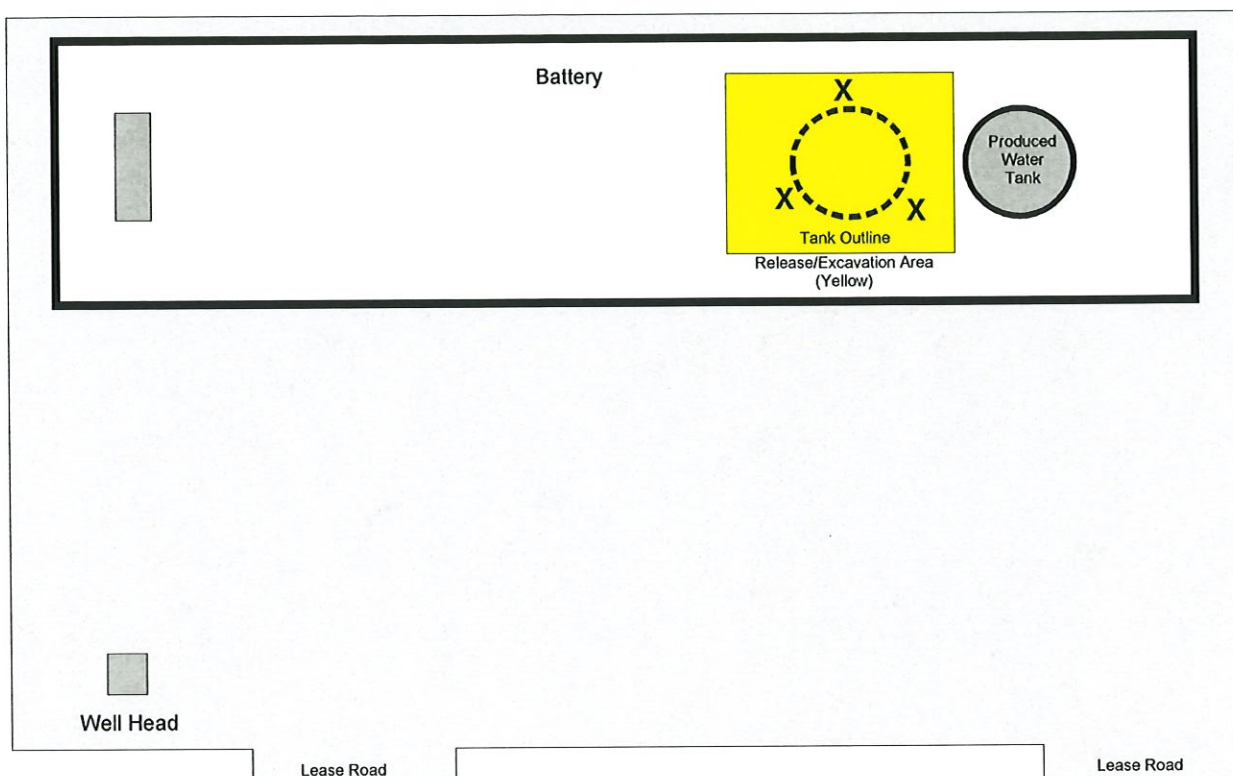
IV. Soils

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

V. Scope of Work

Based on analytical results, Yates Petroleum Corporation had a contractor excavate three (3) feet of impacted soils (total excavation will be approximately 20' X 30' X 3' deep), impacted soils were taken to an NMOCD approved facility for disposal. Delineation samples will then be taken, if analytical results are within the RRAL's for BTEX, TPH (chlorides for documentation) for the Total Ranking Score of zero (0), then no further excavation work will be conducted. If the RRAL's are above limits, additional impacted soils will be excavated and hauled to an NMOCD approved facility. Delineation samples will again be taken. When analytical results are below the RRAL's, Yates Petroleum Corporation will submit a C-141, Final Report, analytical results (all analytical results being submitted to the NMOCD will be analyzed by a NMOCD approved laboratory) and a site sample diagram and request closure of the site. Upon Final C-141 approval the excavation will be backfilled with clean, like materials.



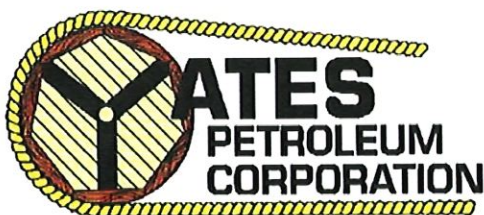


Sample ID	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-01.0	Tank Bottom	12//2010	Comp/Auger	1'	477.9	3670	1490	5160	802
Comp-01.5	Tank Bottom	9/29/2010	Comp/Auger	1.5'	688.2	6110	3630	9740	953
Comp-02.0	Tank Bottom	9/29/2010	Comp/Auger	2'	482.2	2130	265	2395	35

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 204, per New Mexico State Engineer Office).

All results are ppm. X - Sample Points. Approximately 3' of impacted soils removed (12/16/2010)

Released: 14 B/O & 8 B/PW; Recovered: 2 B/O & 0 B/PW. Release Date: 11/29/2010



Rio Penasco RT Com. #1

30-015-23978

Section 3, T18S-R25E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)

Xenco Report #:399988 & 399990
Report Date: 12/15/2010

Prepared by Robert Asher
Environmental Regulatory Agent

Analytical Report 399990

for
Yates Petroleum Corporation

Project Manager: Robert Asher

Rio Penasco RT Com. #1

30-015-23798

15-DEC-10



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

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

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)

North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



15-DEC-10

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

Reference: XENCO Report No: **399990**
Rio Penasco RT 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 399990. 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. 399990 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

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 - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 399990



Yates Petroleum Corporation, Artesia, NM
Rio Penasco RT Com. #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01.0	S	Dec-08-10 10:44	12 - 12 In	399990-001
Comp-01.5	S	Dec-08-10 10:59	18 - 18 In	399990-002
Comp-02.0	S	Dec-08-10 11:09	24 - 24 In	399990-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Rio Penasco RT Com. #1



Project ID: 30-015-23798

Work Order Number: 399990

Report Date: 15-DEC-10

Date Received: 12/09/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None



Certificate of Analysis Summary 399990

Yates Petroleum Corporation, Artesia, NM

Project Name: Rio Penasco RT Com. #1

Project Id: 30-015-23798

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Dec-09-10 10:03 am

Report Date: 15-DEC-10

Project Manager: Brent Barron, II



Analysis Requested	Lab Id:	399990-001	399990-002	399990-003	
	Field Id:	Comp-01.0	Comp-01.5	Comp-02.0	
	Depth:	12-12 In	18-18 In	24-24 In	
	Matrix:	SOIL	SOIL	SOIL	
	Sampled:	Dec-08-10 10:44	Dec-08-10 10:59	Dec-08-10 11:09	
Anions in Soil By EPA 300.0	Extracted:				
	Analyzed:	Dec-10-10 08:21	Dec-10-10 08:21	Dec-10-10 08:21	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	
Percent Moisture	Extracted:				
	Analyzed:	Dec-10-10 08:25	Dec-10-10 08:25	Dec-10-10 08:25	
	Units/RL:	% RL	% RL	% RL	
Percent Moisture	Extracted:				
	Analyzed:	Dec-10-10 08:25	Dec-10-10 08:25	Dec-10-10 08:25	
	Units/RL:	% RL	% RL	% RL	
Percent Moisture	Extracted:				
	Analyzed:	Dec-10-10 08:25	Dec-10-10 08:25	Dec-10-10 08:25	
	Units/RL:	% RL	% RL	% RL	

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.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL and above the SQL.
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
 - JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- MDL** Method Detection Limit
- PQL** Practical Quantitation Limit
- * Outside XENCO's scope of NELAC Accreditation.

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5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



BS / BSD Recoveries



Project Name: Rio Penasco RT Com. #1

Work Order #: 399990

Analyst: LATCOR

Lab Batch ID: 835486

Sample: 835486-1-BKS

Units: mg/kg

Project ID: 30-015-23798

Date Analyzed: 12/10/2010

Matrix: Solid

Date Prepared: 12/10/2010

Batch #: 1

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Units: mg/kg											
Anions in Soil By EPA 300.0	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	ND	10.0	9.04	90	10	9.00	90	0	75-125	20	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$
Blank Spike Recovery [D] = $100 * (C)/[B]$
Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$
All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Rio Penasco RT Com. #1

Work Order #: 399990

Lab Batch #: 835486

Date Analyzed: 12/10/2010

Date Prepared: 12/10/2010

Project ID: 30-015-23798

Analyst: LATCOR

QC- Sample ID: 399968-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	30600	21200	47300	79	75-125	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
 Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Rio Penasco RT Com. #1

Work Order #: 399990

Lab Batch #: 835486

Project ID: 30-015-23798

Date Analyzed: 12/10/2010 08:21

Date Prepared: 12/10/2010

Analyst: LATCOR

QC- Sample ID: 399968-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions in Soil By EPA 300.0	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	30600	27200	12	20	

Lab Batch #: 835275

Date Analyzed: 12/10/2010 08:25

Date Prepared: 12/10/2010

Analyst: JLG

QC- Sample ID: 399951-001 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	3.34	3.80	13	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

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

BRL - Below Reporting Limit


XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas
Houston, Miami, Odessa, Philadelphia
Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates Petroleum
Date/Time: 12-9-10
Lab ID #: 399988 / Chlorides
399990
Initials: XM

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
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		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 1.5 °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
 - ☐ Initial and Backup Temperature confirm out of temperature conditions
 - ☐ Client understands and would like to proceed with analysis

Analytical Report 399988

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Rio Penasco RT Com. #1

30-015-23798

15-DEC-10



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12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
 Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
 New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
 Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

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

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
 North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



15-DEC-10

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

Reference: XENCO Report No: **399988**
Rio Penasco RT 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 399988. 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. 399988 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

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Sample Cross Reference 399988



Yates Petroleum Corporation, Artesia, NM
Rio Penasco RT Com. #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01.0	S	Dec-08-10 10:44	12 - 12 In	399988-001
Comp-01.5	S	Dec-08-10 10:59	18 - 18 In	399988-002
Comp-02.0	S	Dec-08-10 11:09	24 - 24 In	399988-003

**CASE NARRATIVE***Client Name: Yates Petroleum Corporation**Project Name: Rio Penasco RT Com. #1**Project ID: 30-015-23798**Work Order Number: 399988**Report Date: 15-DEC-10**Date Received: 12/09/2010***Sample receipt non conformances and Comments:**

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-835950 BTEX by EPA 8021
SW8021BM

Batch 835950, 1,4-Difluorobenzene recovered below QC limits. Sample Data confirmed by re-analysis. Samples affected are: 591263-1-BLK, 399954-002 D, 399988-003. Surrogate failures in QC analysis are not confirmed.

4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 399988-001.

Batch: LBA-836030 BTEX by EPA 8021



Certificate of Analysis Summary 399988

Yates Petroleum Corporation, Artesia, NM

Project Name: Rio Penasco RT Com. #1

Project Id: 30-015-23798

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Dec-09-10 10:03 am

Report Date: 15-DEC-10

Project Manager: Brent Barron, II



Analysis Requested		Lab Id:	399988-001	399988-002	399988-003	
	Field Id:	Comp-01.0	12-12 In	Comp-01.5	18-18 In	Comp-02.0
	Depth:	SOIL		SOIL		SOIL
	Matrix:					
	Sampled:	Dec-08-10 10:44	Dec-08-10 10:59	Dec-08-10 11:09		
BTX by EPA 8021	Extracted:	Dec-14-10 12:20	Dec-14-10 14:10	Dec-14-10 12:20		
	Analyzed:	Dec-15-10 02:19	Dec-15-10 08:40	Dec-15-10 01:15		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL		
		1.490 0.6008	1.520 0.5986	3.992 0.5931		
		44.60 1.202	73.98 1.197	43.78 1.186		
Percent Moisture		31.58 0.6008	41.32 0.5986	47.90 0.5931		
		164.3 1.202	229.3 1.197	176.5 1.186		
		45.18 0.6008	65.82 0.5986	13.83 0.5931		
		348.7 0.6008	493.0 0.5986	320.9 0.5931		
		477.9 0.6008	688.2 0.5986	482.2 0.5931		
TPH by SW 8015B	Extracted:	Dec-10-10 08:25	Dec-10-10 08:25	Dec-10-10 08:25		
	Analyzed:	% RL	% RL	% RL		
	Units/RL:	16.1 1.00	15.8 1.00	16.2 1.00		
C6-C10 Gasoline Range Hydrocarbons	Extracted:	Dec-09-10 13:00	Dec-09-10 13:00	Dec-09-10 13:00		
	Analyzed:	Dec-10-10 02:35	Dec-10-10 03:04	Dec-10-10 03:34		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL		
		3670 179	6110 179	2130 89.1		
		1490 179	3630 179	265 89.1		
Total TPH		5160 179	9740 179	2395 89.1		

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

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Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL and above the SQL.
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
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- BRL** Below Reporting Limit.
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- MDL** Method Detection Limit
- PQL** Practical Quantitation Limit
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842 Cantwell Lane, Corpus Christi, TX 78408	(432) 563-1800	(432) 563-1713
	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Rio Penasco RT Com. #1

Work Orders : 399988,

Project ID: 30-015-23798

Lab Batch #: 835950

Sample: 591263-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg	Date Analyzed: 12/14/10 13:50	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0296	0.0300	99	80-120
4-Bromofluorobenzene		0.0331	0.0300	110	80-120

Lab Batch #: 835950

Sample: 591263-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg	Date Analyzed: 12/14/10 14:11	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0252	0.0300	84	80-120
4-Bromofluorobenzene		0.0277	0.0300	92	80-120

Lab Batch #: 835950

Sample: 591263-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg	Date Analyzed: 12/14/10 14:54	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0224	0.0300	75	80-120 *
4-Bromofluorobenzene		0.0295	0.0300	98	80-120

Lab Batch #: 835950

Sample: 399954-002 D / MD

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 12/14/10 15:59	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0225	0.0300	75	80-120 *
4-Bromofluorobenzene		0.0300	0.0300	100	80-120

Lab Batch #: 835950

Sample: 399988-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 12/15/10 01:15	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0198	0.0300	66	80-120 **
4-Bromofluorobenzene		0.0322	0.0300	107	80-120

* Surrogate outside of Laboratory QC limits

** 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: Rio Penasco RT Com. #1

Work Orders : 399988,

Project ID: 30-015-23798

Lab Batch #: 835950

Sample: 399988-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/15/10 02:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0342	0.0300	114	80-120	
4-Bromofluorobenzene	0.0544	0.0300	181	80-120	**

Lab Batch #: 836030

Sample: 591321-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 12/15/10 03:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0313	0.0300	104	80-120	

Lab Batch #: 836030

Sample: 591321-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 12/15/10 05:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0247	0.0300	82	80-120	

Lab Batch #: 836030

Sample: 400362-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/15/10 05:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0264	0.0300	88	80-120	
4-Bromofluorobenzene	0.0247	0.0300	82	80-120	

Lab Batch #: 836030

Sample: 400362-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/15/10 06:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0210	0.0300	70	80-120	*
4-Bromofluorobenzene	0.0250	0.0300	83	80-120	

* Surrogate outside of Laboratory QC limits

** 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: Rio Penasco RT Com. #1

Work Orders : 399988,

Project ID: 30-015-23798

Lab Batch #: 836030

Sample: 399988-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/15/10 08:40		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0269	0.0300	90	80-120
4-Bromofluorobenzene		0.0342	0.0300	114	80-120

Lab Batch #: 835272

Sample: 590863-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/10/10 01:07		SURROGATE RECOVERY STUDY			
TPH by SW 8015B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		110	99.5	111	70-135
o-Terphenyl		52.1	49.8	105	70-135

Lab Batch #: 835272

Sample: 590863-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/10/10 01:36		SURROGATE RECOVERY STUDY			
TPH by SW 8015B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		106	100	106	70-135
o-Terphenyl		48.2	50.1	96	70-135

Lab Batch #: 835272

Sample: 590863-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg Date Analyzed: 12/10/10 02:06		SURROGATE RECOVERY STUDY			
TPH by SW 8015B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		107	100	107	70-135
o-Terphenyl		52.3	50.1	104	70-135

Lab Batch #: 835272

Sample: 399988-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 12/10/10 02:35		SURROGATE RECOVERY STUDY			
TPH by SW 8015B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1-Chlorooctane		134	100	134	70-135
o-Terphenyl		56.2	50.0	112	70-135

* Surrogate outside of Laboratory QC limits

** 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.



I m 2 - Surrogate Recoveries

Project Name: Rio Penasco RT Com. #1

Work Orders : 399988,

Project ID: 30-015-23798

Lab Batch #: 835272

Sample: 399988-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/10/10 03:04

SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.9	101	79	70-135	
o-Terphenyl	51.7	50.3	103	70-135	

Lab Batch #: 835272

Sample: 399988-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/10/10 03:34

SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	121	99.6	121	70-135	
o-Terphenyl	54.0	49.8	108	70-135	

Lab Batch #: 835272

Sample: 399988-003 D / MD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/10/10 04:03

SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	99.6	130	70-135	
o-Terphenyl	59.6	49.8	120	70-135	

* Surrogate outside of Laboratory QC limits

** 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: Rio Penasco RT Com. #1

Work Order #: 399988

Project ID:

30-015-23798

Lab Batch #: 836030

Sample: 591321-1-BKS

Matrix: Solid

Date Analyzed: 12/15/2010

Date Prepared: 12/14/2010

Analyst: SEE

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	<0.0010	0.0996	0.1100	110	70-130	
Toluene	<0.0020	0.0996	0.0969	97	70-130	
Ethylbenzene	<0.0010	0.0996	0.0971	97	71-129	
m,p-Xylenes	<0.0020	0.1992	0.1910	96	70-135	
o-Xylene	<0.0010	0.0996	0.0971	97	71-133	

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

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

BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: Rio Penasco RT Com. #1

Work Order #: 399988

Analyst: SEE

Lab Batch ID: 835950

Sample: 591263-1-BKS

Date Prepared: 12/14/2010

Batch #: 1

Project ID: 30-015-23798

Date Analyzed: 12/14/2010

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021												
Analytes												
Benzene		<0.0010	0.1008	0.1194	118	0.0992	0.0981	99	20	70-130	35	
Toluene		<0.0020	0.1008	0.1046	104	0.0992	0.0861	87	19	70-130	35	
Ethylbenzene		<0.0010	0.1008	0.1044	104	0.0992	0.0851	86	20	71-129	35	
m,p-Xylenes		<0.0020	0.2016	0.2055	102	0.1984	0.1670	84	21	70-135	35	
o-Xylene		<0.0010	0.1008	0.1060	105	0.0992	0.0860	87	21	71-133	35	

Date Analyzed: 12/10/2010

Matrix: Solid

Date Prepared: 12/09/2010

Batch #: 1

Lab Batch ID: 835272

Sample: 590863-1-BKS

Analyst: BEV

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/kg		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH by SW 8015B												
Analytes												
C6-C10 Gasoline Range Hydrocarbons		ND	995	862	87	1000	828	83	4	70-135	35	
C10-C28 Diesel Range Hydrocarbons		ND	995	969	97	1000	918	92	5	70-135	35	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C/[B])$

Blank Spike Duplicate Recovery [G] = $100 * (F/[E])$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Rio Penasco RT Com. #1

Work Order #: 399988

Project ID: 30-015-23798

Lab Batch ID: 836030

Batch #: 1 Matrix: Soil

Date Analyzed: 12/15/2010

QC- Sample ID: 400362-001 S

Date Prepared: 12/14/2010 Analyst: SEE

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
BTEX by EPA 8021											
Benzene	<0.0011	0.1130	0.0891	79	0.1130	0.0791	70	12	70-130	35	
Toluene	<0.0022	0.1130	0.0649	57	0.1130	0.0619	55	5	70-130	35	X
Ethylbenzene	<0.0011	0.1130	0.0449	40	0.1130	0.0463	41	3	71-129	35	X
m,p-Xylenes	<0.0022	0.2260	0.0505	22	0.2260	0.0645	29	24	70-135	35	X
o-Xylene	<0.0011	0.1130	0.0526	47	0.1130	0.0503	45	4	71-133	35	X

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

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: Rio Penasco RT Com. #1

Work Order #: 399988

Lab Batch #: 835950

Project ID: 30-015-23798

Date Analyzed: 12/14/2010 15:59

Date Prepared: 12/14/2010

Analyst: SEE

QC- Sample ID: 399954-002 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY					
BTEX by EPA 8021	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Benzene	<0.0011	ND	NC	35	
Toluene	<0.0021	ND	NC	35	
Ethylbenzene	<0.0011	ND	NC	35	
m,p-Xylenes	<0.0021	ND	NC	35	
o-Xylene	<0.0011	ND	NC	35	

Lab Batch #: 835275

Date Analyzed: 12/10/2010 08:25

Date Prepared: 12/10/2010

Analyst: JLG

QC- Sample ID: 399951-001 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	3.34	3.80	13	20	

Lab Batch #: 835272

Date Analyzed: 12/10/2010 04:03

Date Prepared: 12/09/2010

Analyst: BEV

QC- Sample ID: 399988-003 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TPH by SW 8015B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
C6-C10 Gasoline Range Hydrocarbons	2130	2290	7	35	
C10-C28 Diesel Range Hydrocarbons	265	303	13	35	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

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

BRL - Below Reporting Limit



XENCO Laboratories
 Atlanta, Boca Raton, Corpus Christi, Dallas
 Houston, Miami, Odessa, Philadelphia
 Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates Petroleum
 Date/Time: 12-9-10
 Lab ID #: 399988 / Chlorides
 Initials: XM

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
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		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>1.5</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that apply: ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
☐ Initial and Backup Temperature confirm out of temperature conditions
☐ Client understands and would like to proceed with analysis

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

MLB/1034/26733

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 TH Street	Telephone No. 575-748-1471	
Facility Name Rio Penasco RT Com. #1	API Number 30-015-23978	Facility Type Battery
Surface Owner Fee	Mineral Owner Fee	Lease No.

LOCATION OF RELEASE

Unit Letter H	Section 3	Township 19S	Range 25E	Feet from the 1980	North/South Line North	Feet from the 660	East/West Line East	County Eddy
------------------	--------------	-----------------	--------------	-----------------------	---------------------------	----------------------	------------------------	----------------

Latitude 32.69198 Longitude 104.46566

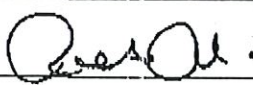
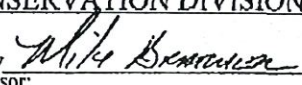
NATURE OF RELEASE

Type of Release Oil & Produced Water	Volume of Release 14 B/O & 8 B/PW	Volume Recovered 2 B/O & 0 B/PW
Source of Release Production tank	Date and Hour of Occurrence 11/29/2010, PM	Date and Hour of Discovery 11/29/2010, PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/NMOCD Artesia	
By Whom? Robert Asher/YPC Environmental	Date and Hour 11/29/2010, PM (e-mail)	
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.*
Hole in bottom of production tank. Vacuum truck and roustabout crew called.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 15' X 15'. Vacuum truck recovered small amount of oil but no produced water was recovered. Production tank pulled and will conduct vertical/horizontal delineation to determine extent of impacted soils. Samples will be tested for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. Depth to Ground Water: >100' (approx. 204', Unit Letter E, Section 2, T189S-R25E, per New Mexico Office of the State Engineer), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.

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	Signed By  Approved by District Supervisor:	
Title: Environmental Regulatory Agent	Approval Date: DEC 07 2010	Expiration Date:
E-mail Address: boba@yatespetroleum.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Monday, December 06, 2010 Phone: 575-748-4217	REMEDATION per OCD Rules and Guidelines. SUBMIT REMEDIATION PROPOSAL BY: 1/7/2011	

* Attach Additional Sheets If Necessary

2RP-492

Page 45 of 91
Received by: OGD: 3/21/2022 10:53:51 AM
Released to Imaging: 3/25/2022 8:37:54 AM

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

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 TH Street	Telephone No. 575-748-1471	
Facility Name Rio Penasco RT Com. #1	API Number 30-015-23978	Facility Type Battery
Surface Owner Fee	Mineral Owner Fee	Lease No.


LOCATION OF RELEASE

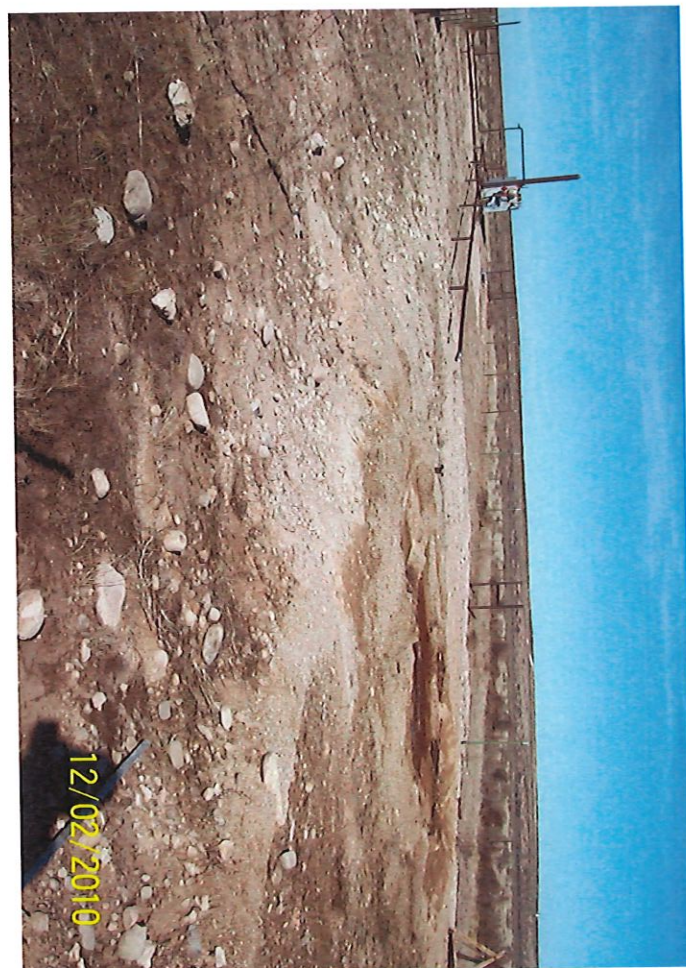
Unit Letter H	Section 3	Township 19S	Range 25E	Feet from the 1980	North/South Line North	Feet from the 660	East/West Line East	County Eddy
------------------	--------------	-----------------	--------------	-----------------------	---------------------------	----------------------	------------------------	----------------

Latitude 32.69198 Longitude 104.46566

NATURE OF RELEASE

Type of Release Oil & Produced Water	Volume of Release 14 B/O & 8 B/PW	Volume Recovered 2 B/O & 0 B/PW
Source of Release Production tank	Date and Hour of Occurrence 11/29/2010, PM	Date and Hour of Discovery 11/29/2010, PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/NMOCD Artesia	
By Whom? Robert Asher/YPC Environmental	Date and Hour 11/29/2010, PM (e-mail)	
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.* Hole in bottom of production tank. Vacuum truck and roustabout crew called.		
Describe Area Affected and Cleanup Action Taken.* An approximate area of 15' X 15'. Vacuum truck recovered small amount of oil but no produced water was recovered. Production tank pulled and will conduct vertical/horizontal delineation to determine extent of impacted soils. Samples will be tested for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. Depth to Ground Water: >100' (approx. 204', Unit Letter E, Section 2, T189S-R25E, per New Mexico Office of the State Engineer), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.		
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@yatespetrpolun.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: Monday, December 06, 2010 Phone: 575-748-4217		2RP-	
Attach Additional Sheets If Necessary			





Bob Asher

From: Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]
Sent: Wednesday, December 01, 2010 6:37 AM
Subject: Read: Release (Rio Penasco RT Com. #1)



ATT00001 (743 B)

Your message

To: Bratcher, Mike, EMNRD
Cc: Jerry Fanning
Subject: Release (Rio Penasco RT Com. #1)
Sent: Mon, 29 Nov 2010 16:54:50 -0700

was read on Wed, 1 Dec 2010 06:36:53 -0700

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.

Bob Asher

From: Bob Asher
Sent: Monday, November 29, 2010 4:55 PM
To: '(mike.bratcher@state.nm.us)'
Cc: Jerry Fanning
Subject: Release (Rio Penasco RT Com. #1)

Tracking:	Recipient	Read
	'(mike.bratcher@state.nm.us)'	
	Jerry Fanning	Read: 11/29/2010 6:27 PM

Yates Petroleum Corporation is reporting a release at the following location that occurred today.

Rio Penasco RT Com. #1
30-015-23978
Section 3, T19S-R25E
Eddy County, New Mexico

Released: 14 B/C & 11 B/PW

Release was from a hole in the bottom of the tank, vacuum truck called. Complete information will be submitted with a C-141 report.

Thank you.

Robert Asher

Yates Petroleum Corporation

Office: (575) 748-4217

Cell: (575) 365-4021

Fax: (575) 748-4662

boba@yatespetroleum.com

11/30/2010

Appendix C

NMOCD Approval Email

Bob Asher

From: Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]

Sent: Tuesday, January 11, 2011 8:59 AM

To: Bob Asher

Subject: RE: Rio Penasco RT Com. #1

Bob,

Based on the analytical data provided, backfilling at this site may commence.

Mike Bratcher
NMOCD District 2
1301 W. Grand Ave.
Artesia, NM 88210
575-748-1283 Ext.108
575-626-0857
mike.bratcher@state.nm.us

From: Bob Asher [mailto:BobA@yatespetroleum.com]

Sent: Tuesday, January 11, 2011 8:27 AM

To: Bratcher, Mike, EMNRD

Subject: Rio Penasco RT Com. #1

Mike,

Per our conversation this morning, Yates would like to request permission to begin backfilling excavation and rebuilding the battery.

Rio Penasco RT Com. #1
2RP-492
30-015-23978
Section 3, T18S-R25E
Eddy County, New Mexico

Thank you.

Robert Asher

Yates Petroleum Corporation

Office: (575) 748-4217

Cell: (575) 365-4021

Fax: (575) 748-4662

boba@yatespetroleum.com

1/11/2011

Appendix D

Closure Report

Received by OGD: 3/25/2022 10:53:51 AM
Released to Imaging: 3/25/2022 8:37:54 AM

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

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

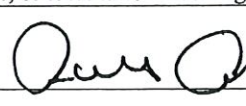
Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 TH Street	Telephone No. 575-748-1471	
Facility Name Rio Penasco RT Com. #1	API Number 30-015-23978	Facility Type Battery
Surface Owner Fee	Mineral Owner Fee	Lease No.

LOCATION OF RELEASE

Unit Letter H	Section 3	Township 19S	Range 25E	Feet from the 1980	North/South Line North	Feet from the 660	East/West Line East	County Eddy
------------------	--------------	-----------------	--------------	-----------------------	---------------------------	----------------------	------------------------	----------------

Latitude 32.69198 Longitude 104.46566

NATURE OF RELEASE

Type of Release Oil & Produced Water	Volume of Release 14 B/O & 8 B/PW	Volume Recovered 2 B/O & 0 B/PW
Source of Release Production tank	Date and Hour of Occurrence 11/29/2010, PM	Date and Hour of Discovery 11/29/2010, PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/NMOCD Artesia	
By Whom? Robert Asher/YPC Environmental	Date and Hour 11/29/2010, PM (e-mail)	
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.* Hole in bottom of production tank. Vacuum truck and roustabout crew called.		
Describe Area Affected and Cleanup Action Taken.* An approximate area of 15' X 15'. Vacuum truck recovered small amount of oil but no produced water was recovered. Production tank pulled and will conduct vertical/horizontal delineation to determine extent of impacted soils. Samples will be tested for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. Depth to Ground Water: >100' (approx. 204', Unit Letter E, Section 2, T189S-R25E, per New Mexico Office of the State Engineer), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. Based on impacted soils excavated/hailed, analytical results and battery to be lined with a 20 mil liner, Yates Petroleum Corporation requests closure.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
OIL CONSERVATION DIVISION		
Signature: 	Approved by District Supervisor:	
Printed Name: Robert Asher		
Title: Environmental Regulatory Agent	Approval Date:	Expiration Date:
E-mail Address: boba@yatespetroleum.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Tuesday, January 11, 2011 Phone: 575-748-4217	2RP-492	

RECEIVED
JAN 11 2011
NMOCD ARTESIA

*Attach Additional Sheets If Necessary

MARTIN YATES, III

1912-1985

FRANK W. YATES

1936-1986

S.P. YATES

1914-2008



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

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CHIEF FINANCIAL OFFICER

January 11, 2011

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

Re: Rio Penasco RT Com. #1
2RP-492
30-015-23978
Section 3, T18S-R25E
Eddy County, New Mexico

Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on November 29, 2010 (14 bbls of oil and 8 bbls of produced water with 2 bbls of oil and no produced water being recovered). The release was from a hole in the production tank. Vertical/horizontal delineation samples were taken (analyzed for BTEX/TPH and chlorides for documentation) and sent to an NMOCD approved laboratory, based on results BTEX/TPH were above limits for the site ranking of zero. Impacted soils were excavated to a depth of three (3) feet and taken to an NMOCD approved facility. Delineation sampling (field tested) and excavation of impacted soils continued to depths of six (6) feet and at eight (8) feet where the production tank originally sat. Samples were taken on 12/29/2010 and 1/6/2011; these were sent to an OCD approved laboratory for analysis. Analytical results show TPH & BTEX below RRAL's for the site ranking of (0) zero, (enclosed sample diagram and results). Based on impacted soils being excavated, all analytical results and liner to be installed, Yates Petroleum Corporation requests closure. Upon closure approval Yates will backfill with clean, like soils, re-berm and install a 20 mil. liner within the battery before setting production tank(s). **Yates Petroleum Corporation would like to request permission to begin backfilling, liner installation and rebuild the containment berm/battery. The well is currently shut in and Yates wants to get the well back online and into production.**

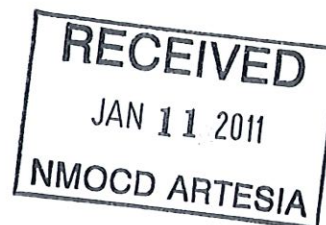
If you have any questions, please call me at 575-748-4217.

Thank you.

YATES PETROLEUM CORPORATION

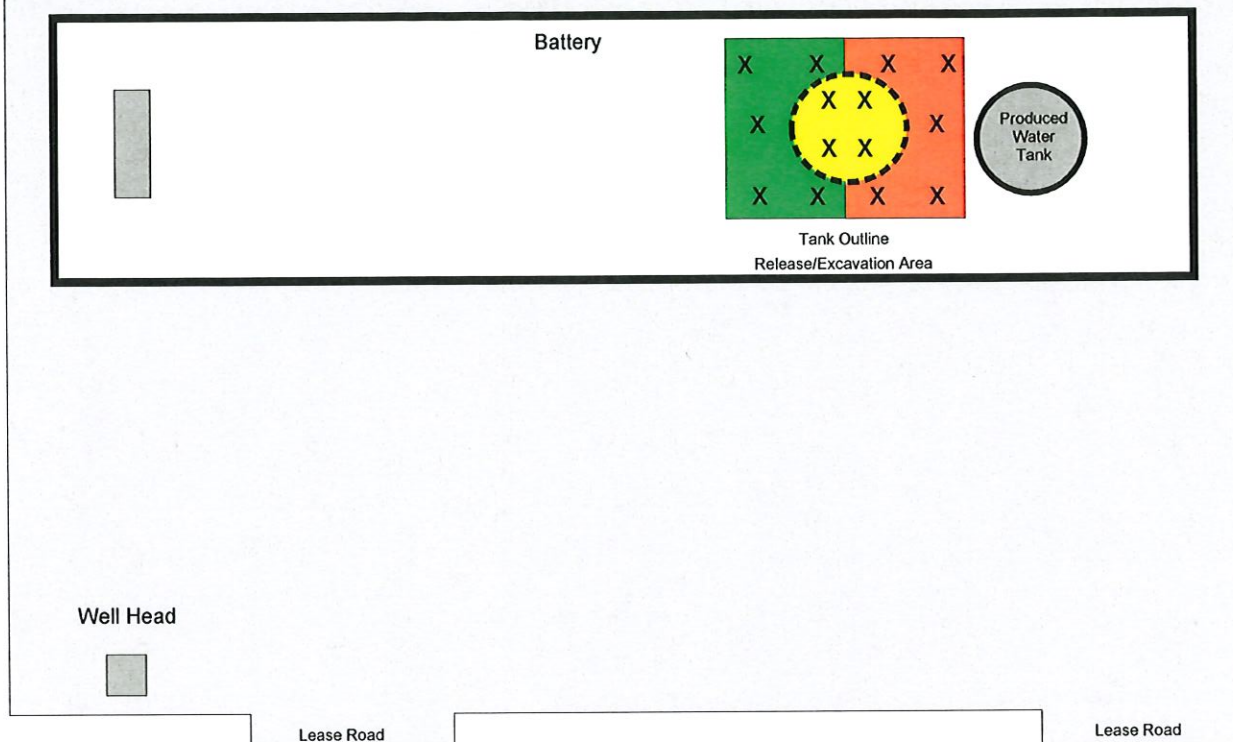
Robert Asher
Environmental Regulatory Agent

/rca
Enclosure(s)



KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER



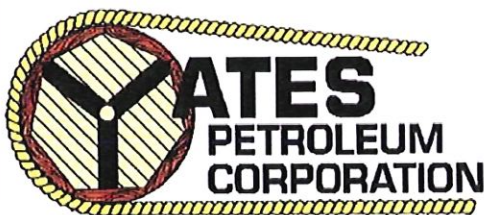
Sample ID	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-01.0	Release Area	12/15/2010	Comp/Auger	1'	477.9	3670	1490	5160	802
Comp-01.5	Release Area	12/15/2010	Comp/Auger	1.5'	688.2	6110	3630	9740	953
Comp-02.0	Release Area	12/15/2010	Comp/Auger	2'	482.2	2130	265	2395	35
Sample ID	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-08.0 TB	Tank Bottom	12/29/2010	Comp/Shovel	8'	0.0473	ND	36.2	36.2	
Comp-06.0 N	North 1/2	12/29/2010	Comp/Shovel	6'	0.1190	20.9	119	140	
Comp-06.0 S	South 1/2	12/29/2010	Comp/Shovel	6'	0.0088	ND	29.7	29.7	
Sample ID	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-08.0 TB	Tank Bottom	1/6/2011	Comp/Shovel	8'	0.1048	ND	180	180	
Comp-06.0 N	North 1/2	1/6/2011	Comp/Shovel	6'	0.1089	ND	489	489	
Comp-06.0 S	South 1/2	1/6/2011	Comp/Shovel	6'	0.0155	ND	ND	ND	

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 204, per New Mexico State Engineer Office).

All results are ppm. X - Sample Points. Approximately 3' of impacted soils removed (12/16/2010)

Approximately 6' & 8' of impacted soils removed (12/27/2010)

Released: 14 B/O & 8 B/PW; Recovered: 2 B/O & 0 B/PW. Release Date: 11/29/2010



Rio Penasco RT Com. #1

30-015-23978

Section 3, T18S-R25E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)

Xenco Report #:399988 & 399990

Report Date: 12/15/2010

Xenco Report #:402129

Report Date: 1/4/2011

Xenco Report #:402939

Report Date: 1/10/2011

Prepared by Robert Asher
Environmental Regulatory Agent

Analytical Report 402939

for
Yates Petroleum Corporation

Project Manager: Robert Asher

Rio Penasco RT Com. # 1

30-015-23798

10-JAN-11



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12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

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

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



10-JAN-11

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

Reference: XENCO Report No: **402939**
Rio Penasco RT 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 402939. 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. 402939 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 402939



Yates Petroleum Corporation, Artesia, NM
Rio Penasco RT Com. # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-08.0 TB	S	Jan-06-11 13:43	8 - 8 ft	402939-001
Comp-06.0 N	S	Jan-06-11 13:53	6 - 6 ft	402939-002
Comp-06.0 S	S	Jan-06-11 14:03	6 - 6 ft	402939-003

**CASE NARRATIVE***Client Name: Yates Petroleum Corporation**Project Name: Rio Penasco RT Com. # 1*

Project ID: 30-015-23798
Work Order Number: 402939

Report Date: 10-JAN-11
Date Received: 01/07/2011

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-838964 BTEX by EPA 8021
SW8021BM

Batch 838964, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 402939-002.

SW8021BM

Batch 838964, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 402939-002, -001, -003.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Benzene, Ethylbenzene, o-Xylene isatory Control Sample within laboratory Control Limits

Batch: LBA-838975 TPH by SW 8015B
SW8015B_NM

Batch 838975, 1-Chlorooctane, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 402939-002.



Certificate of Analysis Summary 402939

Yates Petroleum Corporation, Artesia, NM

Project Name: Rio Penasco RT Com. # 1

Project Id: 30-015-23798

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Fri Jan-07-11 11:50 am

Report Date: 10-JAN-11

Project Manager: Brent Barron, II



Analysis Requested	Lab Id:	402939-001	402939-002	402939-003	
	Field Id:	Comp-08.0 TB	Comp-06.0 N	Comp-06.0 S	
	Depth:	8-8 ft	6-6 ft	6-6 ft	
	Matrix:	SOIL	SOIL	SOIL	
	Sampled:	Jan-06-11 13:43	Jan-06-11 13:53	Jan-06-11 14:03	
BTEX by EPA 8021	Extracted:	Jan-07-11 14:00	Jan-07-11 14:00	Jan-07-11 14:00	
	Analyzed:	Jan-08-11 10:54	Jan-08-11 11:17	Jan-08-11 11:40	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	
	Benzene	ND 0.0010	ND 0.0011	ND 0.0011	
	Toluene	0.0043 0.0021	0.0034 0.0021	0.0026 0.0022	
	Ethylbenzene	0.0092 0.0010	0.0631 0.0011	0.0013 0.0011	
	m,p-Xylenes	0.0635 0.0021	0.0151 0.0021	0.0054 0.0022	
	o-Xylene	0.0278 0.0010	0.0273 0.0011	0.0022 0.0011	
	Xylenes, Total	0.0913 0.0010	0.0424 0.0011	0.0076 0.0011	
	Total BTEX	0.1048 0.0010	0.1089 0.0011	0.0115 0.0011	
Percent Moisture	Extracted:				
	Analyzed:	Jan-07-11 17:00	Jan-07-11 17:00	Jan-07-11 17:00	
	Units/RL:	% RL	% RL	% RL	
TPH by SW 8015B	Extracted:	Jan-07-11 12:15	Jan-07-11 12:15	Jan-07-11 12:15	
	Analyzed:	Jan-08-11 03:54	Jan-08-11 04:24	Jan-08-11 04:53	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C10 Gasoline Range Hydrocarbons		ND 15.7	ND 161	ND 16.3	
		180 15.7	489 161	ND 16.3	
		180 15.7	489 161	ND 16.3	
Total TPH					

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

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Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL and above the SQL.
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
 - JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- MDL** Method Detection Limit
- PQL** Practical Quantitation Limit
- * Outside XENCO's scope of NELAC Accreditation.

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 5332 Blackberry Drive, San Antonio TX 78238
 2505 North Falkenburg Rd, Tampa, FL 33619
 5757 NW 158th St, Miami Lakes, FL 33014
 12600 West I-20 East, Odessa, TX 79765
 842 Cantwell Lane, Corpus Christi, TX 78408

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

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

Project Manager: Robert Asher

Project Name: RIO FELASCO RI Coll. #1

Company Name

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

Project #: 30-015-23798

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 105632

Telephone No: 575-748-4217

Fax No: 575-748-4662

Sampler Signature: [Signature]

boba@yatespetroleum.com

Report Format:

☐ TRRP

☐ NPDES

Sampler Signature:

e-mail: boba@yatespetroleum.com[illegible]



XENCO Laboratories
 Atlanta, Boca Raton, Corpus Christi, Dallas
 Houston, Miami, Odessa, Philadelphia
 Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates Petroleum
 Date/Time: 1-7-11 11:50
 Lab ID #: 402939
 Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
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		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	<u>N/A</u>	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>3.1</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
 - ☐ Initial and Backup Temperature confirm out of temperature conditions
 - ☐ Client understands and would like to proceed with analysis

Analytical Report 402129

for
Yates Petroleum Corporation

Project Manager: Robert Asher

Rio Penasco RT Com. # 1

30-015-23798

04-JAN-11



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12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

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

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



04-JAN-11

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

Reference: XENCO Report No: 402129
Rio Penasco RT 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 402129. 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. 402129 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 402129



Yates Petroleum Corporation, Artesia, NM
Rio Penasco RT Com. # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-8.0 TB	S	Dec-29-10 10:43	8 - 8 ft	402129-001
Comp-06.0 N	S	Dec-29-10 10:53	6 - 6 ft	402129-002
Comp-06.0 S	S	Dec-29-10 11:03	6 - 6 ft	402129-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Rio Penasco RT Com. # 1



Project ID: 30-015-23798
 Work Order Number: 402129

Report Date: 04-JAN-11
 Date Received: 12/30/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-838209 BTEX by EPA 8021
 SW8021BM

Batch 838209, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis
 Samples affected are: 402129-002, 402129-001.

SW8021BM

Batch 838209, Ethylbenzene, Toluene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
 Samples affected are: 402129-001, -003, -002.
 The Laboratory Control Sample for Toluene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Batch: LBA-838307 TPH by SW 8015B
 SW8015B_NM

Batch 838307, o-Terphenyl recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
 Samples affected are: 402132-001 S. o-Terphenyl recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 402132-001 SD.

SW8015B_NM

Batch 838307, C10-C28 Diesel Range Hydrocarbons, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
 Samples affected are: 402129-001, -003, -002.
 The Laboratory Control Sample for C6-C10 Gasoline Range Hydrocarbons , C10-C28 Diesel Range Hydrocarbons is within laboratory Control Limits



Certificate of Analysis Summary 402129

Yates Petroleum Corporation, Artesia, NM

Project Name: Rio Penasco RT Com. # 1



Project Id: 30-015-23798

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Dec-30-10 09:30 am

Report Date: 04-JAN-11

Project Manager: Brent Barron, II

Analysis Requested		Lab Id:	402129-001	402129-002	402129-003	
		Field Id:	Comp-8.0 TB	Comp-06.0 N	Comp-06.0 S	
		Depth:	8-8 ft	6-6 ft	6-6 ft	
		Matrix:	SOIL	SOIL	SOIL	
		Sampled:	Dec-29-10 10:43	Dec-29-10 10:53	Dec-29-10 11:03	
BTEX by EPA 8021	Extracted:	Dec-30-10 11:59	Dec-30-10 11:59	Dec-30-10 11:59	Dec-30-10 11:59	
	Analyzed:	Dec-30-10 15:04	Dec-30-10 16:14	Dec-30-10 17:25	Dec-30-10 17:25	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
		ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011	
		0.0054 0.0022	0.0101 0.0022	ND 0.0022	ND 0.0022	
Percent Moisture			0.0029 0.0011	0.0087 0.0011	ND 0.0011	
			0.0275 0.0022	0.0712 0.0022	0.0061 0.0022	
			0.0115 0.0011	0.0290 0.0011	0.0027 0.0011	
			0.0390 0.0011	0.1002 0.0011	0.0088 0.0011	
			0.0473 0.0011	0.1190 0.0011	0.0088 0.0011	
TPH by SW 8015B	Extracted:	Dec-30-10 11:00	Dec-30-10 11:00	Dec-30-10 11:00	Dec-30-10 11:00	
	Analyzed:	Jan-03-11 12:00	Jan-03-11 12:00	Jan-03-11 12:00	Jan-03-11 12:00	
	Units/RL:	% RL	% RL	% RL	% RL	
		9.62 1.00	8.01 1.00	9.50 1.00	9.50 1.00	
		Jan-03-11 12:00	Jan-03-11 12:00	Jan-03-11 12:00	Jan-03-11 12:00	
C6-C10 Gasoline Range Hydrocarbons	Extracted:	Jan-03-11 19:42	Jan-04-11 08:23	Jan-03-11 20:45	Jan-03-11 20:45	
	Analyzed:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
	Units/RL:	ND 16.5	20.9 16.3	ND 16.6	ND 16.6	
		36.2 16.5	119 16.3	29.7 16.6	29.7 16.6	
		36.2 16.5	140 16.3	29.7 16.6	29.7 16.6	
Total TPH						

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

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Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F RPD exceeded lab control limits.
 - J The target analyte was positively identified below the MQL and above the SQL.
 - U Analyte was not detected.
 - L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- * Outside XENCO's scope of NELAC Accreditation.

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(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



XENCO Laboratories
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Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates Petroleum
 Date/Time: 12-30-10 9:30
 Lab ID #: 402179
 Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
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		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	<u>N/A</u>	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 3.6 °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
 - ☐ Initial and Backup Temperature confirm out of temperature conditions
 - ☐ Client understands and would like to proceed with analysis

Analytical Report 399990

for
Yates Petroleum Corporation

Project Manager: Robert Asher

Rio Penasco RT Com. #1

30-015-23798

15-DEC-10



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12600 West I-20 East Odessa, Texas 79765

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Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

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

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



15-DEC-10

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

Reference: XENCO Report No: 399990
Rio Penasco RT 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 399990. 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. 399990 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 399990



Yates Petroleum Corporation, Artesia, NM
Rio Penasco RT Com. #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01.0	S	Dec-08-10 10:44	12 - 12 In	399990-001
Comp-01.5	S	Dec-08-10 10:59	18 - 18 In	399990-002
Comp-02.0	S	Dec-08-10 11:09	24 - 24 In	399990-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Rio Penasco RT Com. #1



Project ID: 30-015-23798

Report Date: 15-DEC-10

Work Order Number: 399990

Date Received: 12/09/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None



Certificate of Analysis Summary 399990

Yates Petroleum Corporation, Artesia, NM

Project Name: Rio Penasco RT Com. #1

Project Id: 30-015-23798

Contact: Robert Asher

Project Location: Eddy County



Date Received in Lab: Thu Dec-09-10 10:03 am

Report Date: 15-DEC-10

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:		399990-001		399990-002		399990-003	
	Field Id:	Depth:	Comp-01.0	12-12 In	Comp-01.5	18-18 In	Comp-02.0	24-24 In
	Matrix:		SOIL		SOIL		SOIL	
	Sampled:		Dec-08-10 10:44		Dec-08-10 10:59		Dec-08-10 11:09	
Anions in Soil By EPA 300.0	Extracted:							
	Analyzed:		Dec-10-10 08:21		Dec-10-10 08:21		Dec-10-10 08:21	
	Units/RL:		mg/kg	RL	mg/kg	RL	mg/kg	RL
			802	20.0	953	24.9	35.1	10.0
Percent Moisture	Extracted:							
	Analyzed:		Dec-10-10 08:25		Dec-10-10 08:25		Dec-10-10 08:25	
	Units/RL:		%	RL	%	RL	%	RL
			16.1	1.00	15.8	1.00	16.2	1.00
Percent Moisture								

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

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Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

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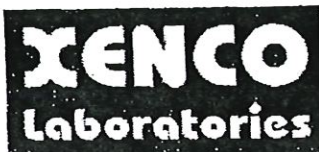
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XENCO Laboratories
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Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates Petroleum
 Date/Time: 12-9-10
 Lab ID #: 399988 / 399990
 Initials: XM

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
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		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 1.5 °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply: ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
☐ Initial and Backup Temperature confirm out of temperature conditions
☐ Client understands and would like to proceed with analysis

Analytical Report 399988

for
Yates Petroleum Corporation

Project Manager: Robert Asher

Rio Penasco RT Com. #1

30-015-23798

15-DEC-10



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Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

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

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



15-DEC-10

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

Reference: XENCO Report No: 399988
Rio Penasco RT 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 399988. 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. 399988 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 399988



Yates Petroleum Corporation, Artesia, NM
Rio Penasco RT Com. #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01.0	S	Dec-08-10 10:44	12 - 12 In	399988-001
Comp-01.5	S	Dec-08-10 10:59	18 - 18 In	399988-002
Comp-02.0	S	Dec-08-10 11:09	24 - 24 In	399988-003

**CASE NARRATIVE***Client Name: Yates Petroleum Corporation**Project Name: Rio Penasco RT Com. #1**Project ID: 30-015-23798**Work Order Number: 399988**Report Date: 15-DEC-10**Date Received: 12/09/2010***Sample receipt non conformances and Comments:**

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-835950 BTEX by EPA 8021
SW8021BM

Batch 835950, 1,4-Difluorobenzene recovered below QC limits. Sample Data confirmed by re-analysis. Samples affected are: 591263-1-BLK, 399954-002 D, 399988-003. Surrogate failures in QC analysis are not confirmed.

4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 399988-001.

Batch: LBA-836030 BTEX by EPA 8021



Certificate of Analysis Summary 399988

Yates Petroleum Corporation, Artesia, NM

Project Name: Rio Penasco RT Com. #1

Project Id: 30-015-23798

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Dec-09-10 10:03 am

Report Date: 15-DEC-10

Project Manager: Brent Barron, II



Analysis Requested	Lab Id:		399988-001		399988-002		399988-003	
	Field Id:	Depth:	Comp-01.0	12-12 In	Comp-01.5	18-18 In	Comp-02.0	24-24 In
	Matrix:		SOIL		SOIL		SOIL	
	Sampled:		Dec-08-10 10:44		Dec-08-10 10:59		Dec-08-10 11:09	
BTEX by EPA 8021	Extracted:		Dec-14-10 12:20		Dec-14-10 14:10		Dec-14-10 12:20	
	Analyzed:		Dec-15-10 02:19		Dec-15-10 08:40		Dec-15-10 01:15	
	Units/RL:		mg/kg RL		mg/kg RL		mg/kg RL	
			1.490 0.6008		1.520 0.5986		3.992 0.5931	
			44.60 1.202		73.98 1.197		43.78 1.186	
Percent Moisture			31.58 0.6008		41.32 0.5986		47.90 0.5931	
			164.3 1.202		229.3 1.197		176.5 1.186	
			45.18 0.6008		65.82 0.5986		13.83 0.5931	
			348.7 0.6008		493.0 0.5986		320.9 0.5931	
			477.9 0.6008		688.2 0.5986		482.2 0.5931	
TPH by SW 8015B	Extracted:		Dec-10-10 08:25		Dec-10-10 08:25		Dec-10-10 08:25	
	Analyzed:		Dec-09-10 13:00		Dec-09-10 13:00		Dec-09-10 13:00	
	Units/RL:		mg/kg RL		mg/kg RL		mg/kg RL	
			3670 179		6110 179		2130 89.1	
			1490 179		3630 179		265 89.1	
Total TPH			5160 179		9740 179		2395 89.1	

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.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit
- PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

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(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

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

Project Manager: Robert Asher

Project Name: KIO Penasco RI Com. #1

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

Project #: 30-015-23798

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 105632

Telephone No: 575-748-4217

Fax No: 575-748-4662

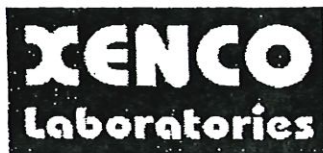
Sampler Signature:

boba@yatespetroleum.com

(lab use only)

Chlorides
(lab use only)
ORDER #: 399988/399990

[illegible]



XENCO Laboratories
Atlanta, Boca Raton, Corpus Christi, Dallas
Houston, Miami, Odessa, Philadelphia
Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
Document No.: SYS-SRC
Revision/Date: No. 01, 5/27/2010
Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates Petroleum
Date/Time: 12-9-10
Lab ID #: 399988 / Chlorides
Initials: XM

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
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		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 1.5 °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

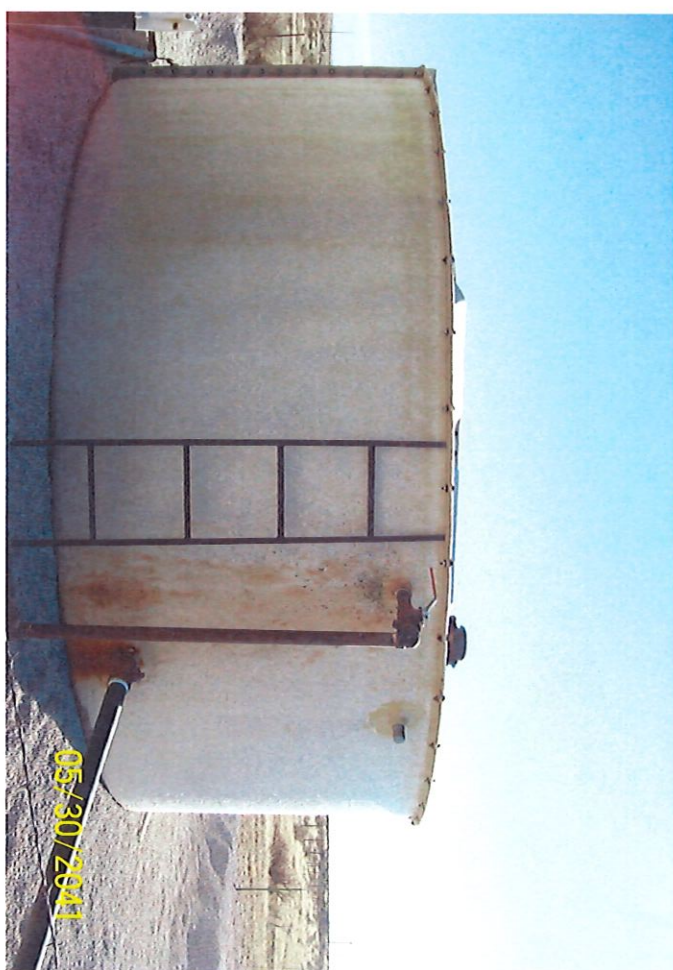
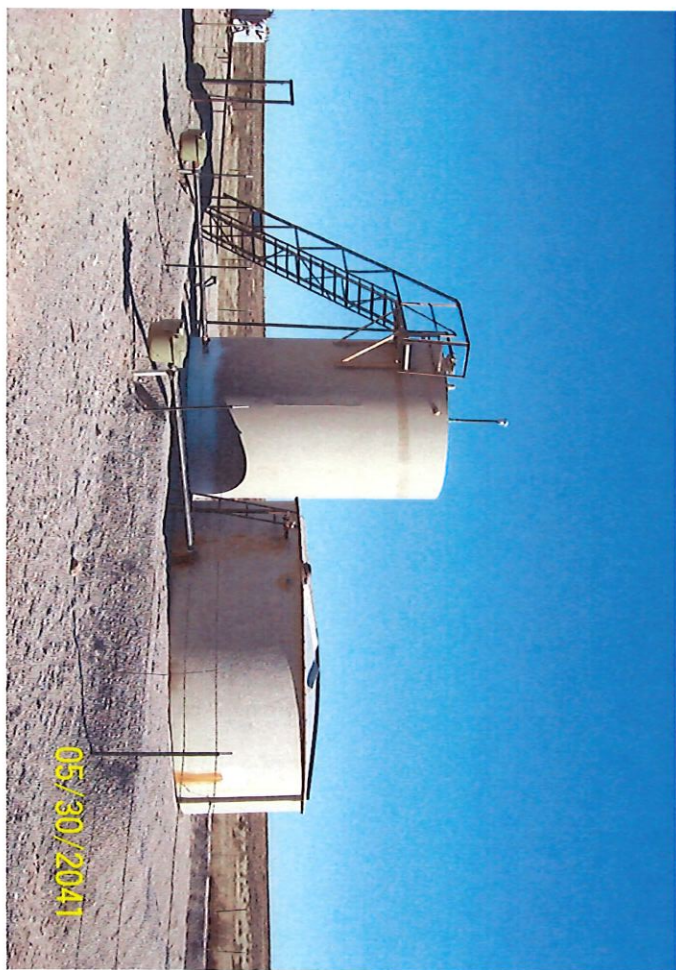
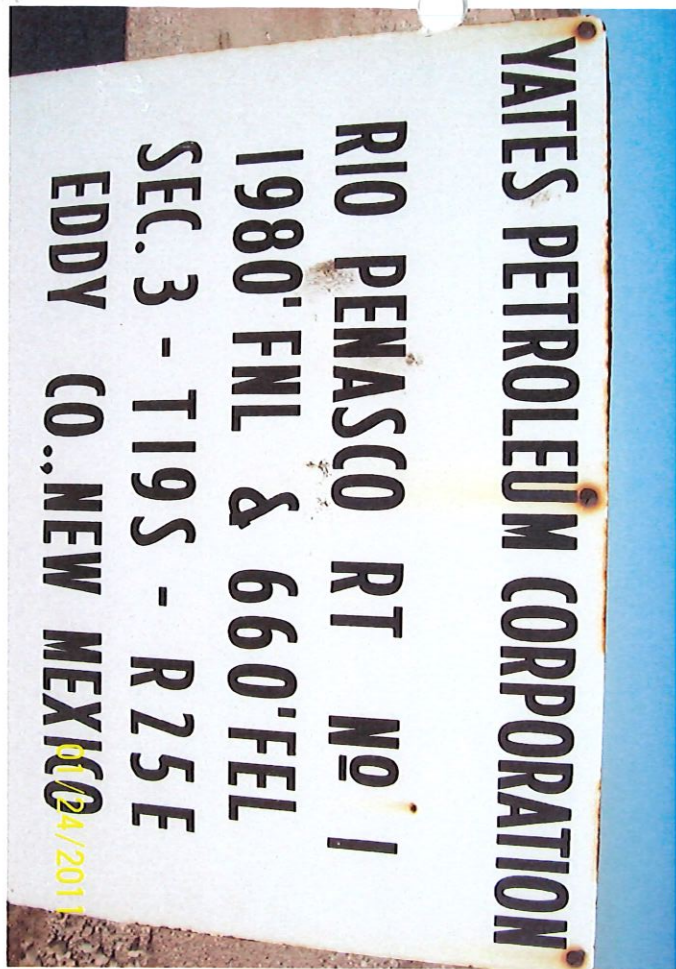
Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that apply: ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
☐ Initial and Backup Temperature confirm out of temperature conditions
☐ Client understands and would like to proceed with analysis







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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 91550

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 91550
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	3/25/2022