

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

Released to Imaging: 3/25/2022 8:37:54 AM

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

Rep Safety & Environmental Sr.

EOG Resources, Inc.

Chase Settle



March 17, 2022

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EOG Resources, Inc.

Rio Penasco RT Com #1

Closure Report

H-3-19S-25E

Eddy County, New Mexico

March 17, 2022

2RP-492

NMLB1034126733



March 17, 2022

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March 17, 2022

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Appendix AC-141 (Updated Form)

<u>District I</u> 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 875 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

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

Release Notification

| | | | Resp | onsil | ble Party | |
|---|----------------------|---------------------------|---------------------------|---------------------|------------------|---|
| Responsible Party EOG Resources, Inc. | | | OGRID 73 | 77 | | |
| Contact Name Chase Settle | | | Contact Tel | ephone 575-748-1471 | | |
| | | Settle@eogre | sources.com | | Incident # (| assigned by OCD) nMLB1034126733 |
| | | 104 S. 4th Stre | | IM 88 | 3210 | |
| | | | Location | of R | elease So | urce |
| Latitude 32.6 | 9198 | | | | Longitude _ | 104.46566 |
| | | | (NAD 83 in dec | imal deş | grees to 5 decim | al places) |
| Site Name Ric | Penasc | o RT Com #1 | | | Site Type B | attery |
| Date Release I | Discovered . | 11/29/2010 | | | | icable) 30-015-23978 |
| TT '- T | g I | Tr | Danas | | Count | |
| Unit Letter | Section | Township | W1 000000000 | Range County | | y |
| H : | 3 19S 25E Eddy | | | | | |
| Surface Owner: | ☐ State | ☐ Federal ☐ Tr | ibal 🔽 Private (/ | Vame: | |) |
| | | | Nature and | l Vol | lume of F | Release |
| Material(s) Released (Select all that apply and attach calculations or specific j | | volume Recovered (bbls) 2 | | | | |
| ✓ Crude Oil Volume Released (bbls) 14 | | | | | | |
| ☑ Produced Water Volume Released (bbls) 8 | | | Volume Recovered (bbls) 0 | | | |
| Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | | ✓ Yes □ No | | | | |
| Condensate Volume Released (bbls) Volume Recovered (bbls) | | Volume Recovered (bbls) | | | | |
| □ Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) | | Volume Recovered (Mcf) | | | | |
| Other (des | cribe) | Volume/Weight | Released (provide | e units) |) | Volume/Weight Recovered (provide units) |
| Cause of Rele | ^{ase} Pleas | e refer to the | original C-141 | l for o | details of 2 | 2RP-492. |

| 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? ☐ Yes ☑ No | If YES, for what reason(s) does the respons | sible party consider this a major release? |
|--|--|---|
| If YES, was immediate n | otice given to the OCD? By whom? To who | om? When and by what means (phone, email, etc)? |
| | Initial Re | sponse |
| The responsible | party must undertake the following actions immediately | unless they could create a safety hazard that would result in injury |
| ☐ The impacted area ha | ease has been stopped. as been secured to protect human health and to | he environment. kes, absorbent pads, or other containment devices. |
| | ecoverable materials have been removed and | |
| If all the actions describe | ed above have <u>not</u> been undertaken, explain w | rhy: |
| Per 19.15.29.8 B. (4) NM | AAC the responsible party may commence re | mediation immediately after discovery of a release. If remediation |
| | | fforts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation. |
| regulations all operators are public health or the environ failed to adequately investig | e required to report and/or file certain release notifulent. The acceptance of a C-141 report by the Ogate and remediate contamination that pose a threa | lest of my knowledge and understand that pursuant to OCD rules and ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws |
| Printed Name: Chase | Settle | Title: Rep Safety & Environmental Sr |
| Signature: Chase | Settle | Date: 3/17/2022 |
| email: Chase_Settle | @eogresources.com | Telephone: <u>575-748-1471</u> |
| OCD Only | | |
| Received by: | | Date: |

| 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? | ☐ Yes ☑ No | | |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ☑ 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)? | ☐ Yes ☑ No | | |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ☑ 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? | ☐ Yes ☑ No | | |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ☑ No | | |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☑ No | | |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ☑ No | | |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ☑ No | | |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ☑ No | | |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☑ No | | |
| Did the release impact areas not on an exploration, development, production, or storage site? | ☐ Yes ☑ 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 | | | |

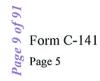
| Characterization Report Checknist. Each of the jouowing tiens must be included in the report. |
|---|
| Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. |
| |
| ✓ Field data |
| ☐ Data table of soil contaminant concentration data |
| ☑ 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.

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

| I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release noti public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a thre addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations. | fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In |
|---|--|
| 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 | | 6 |
|--------------|-------|---|
| Received by: | Date: | _ |



| Incident ID | nMLB1034126733 | |
|----------------|----------------|--|
| 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: |

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

| Incident ID | nMLB1034126733 |
|----------------|----------------|
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| Facility ID | |
| Application ID | |

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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.

| ✓ Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection) | s of the liner integrity if applicable (Note: appropriate OCD District office |
|---|---|
| ☐ Laboratory analyses of final sampling (Note: appropriate OD | C District office must be notified 2 days prior to final sampling) |
| ✓ Description of remediation activities | |
| | |
| and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of | ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in |
| 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 remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and | of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations. |
| Closure Approved by: | Date: _03/25/2022 |
| Printed Name: Jennifer Nobui | Title: Environmental Specialist A |
| | |



March 17, 2022

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Appendix BRemediation 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

RECEIVED DEC 17 2010 NMOCD ARTESIA

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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)

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/hauled 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:

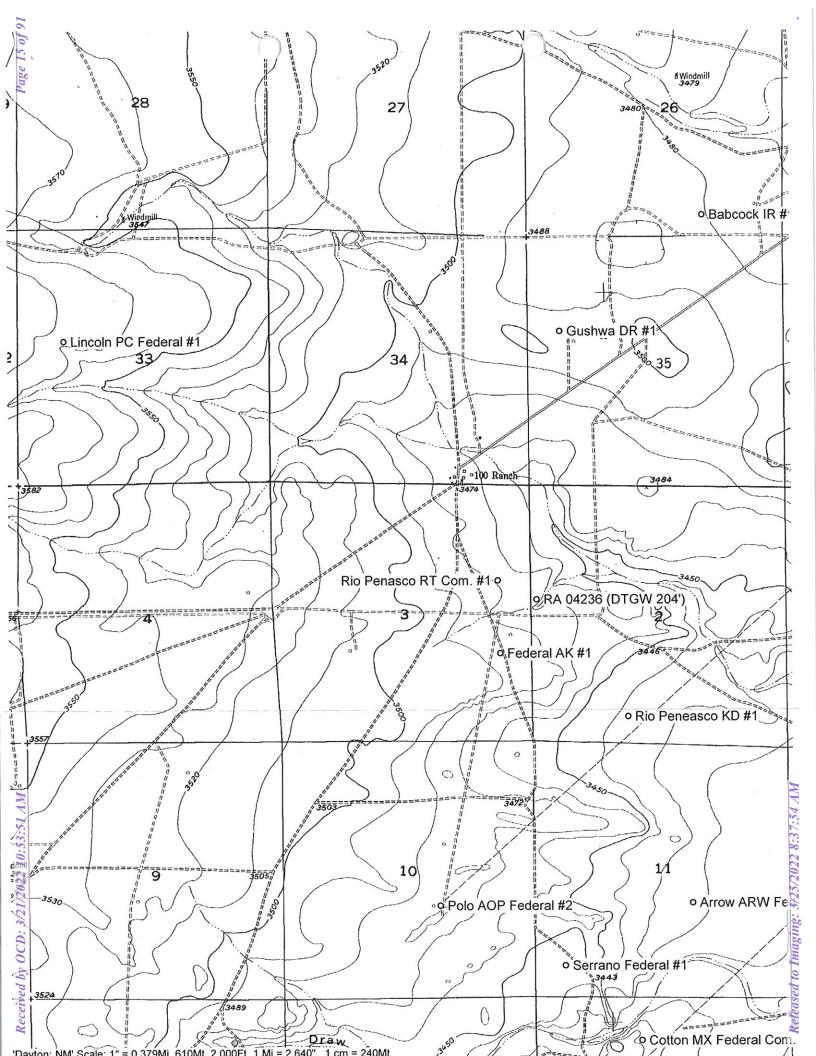
Depth to ground water > 100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

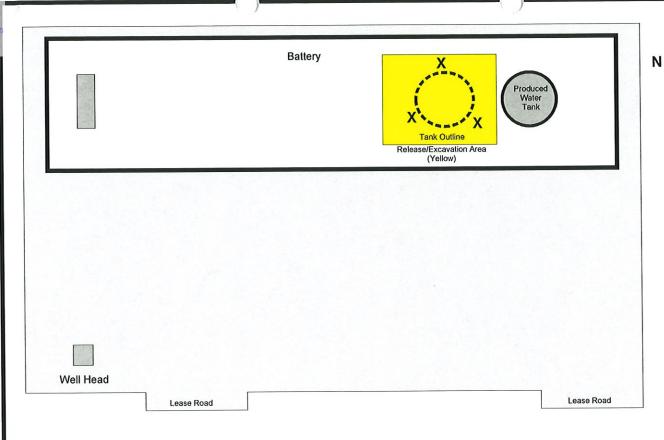
IV. Soils

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 |
|---|-----------|-------------|-------------|-------------|-------|-------|------|------|-------|-----------|
| Ì | 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 39990. 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,

Received by OCD: 3/21/2022 10:53:51 AM

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

Project Id: 30-015-23798 Contact: Robert Asher

Project Location: Eddy County

| | | | - | | | | | | | (,,, |) | _ |
|--|--|------------------------|-----------------------------------|------------|-----------|----------|---------|-----------------|------------|-----------------|-----------|-----------|
| A COOP IN A COOP OF THE COOP O | Date Received in Lab: Thu Dec-09-10 10:03 am | 15-DEC-10 | Brent Barron, II | | | | | | | | | |
| 0 | e Received in Lab: | Report Date: 15-DEC-10 | Project Manager: Brent Barron, II | | | | | | | | | |
| te of Analysis Summary 399990 Petroleum Corporation, Artesia, NM fect Name: Rio Penasco RT Com. #1 | | | | 399990-003 | Comp-02.0 | 24-24 In | SOIL | Dec-08-10 11:09 | . W | Dec-10-10 08:21 | mg/kg RL | 35.1 10.0 |
| icate of Analysis Summary 399 ites Petroleum Corporation, Artesia, NM Project Name: Rio Penasco RT Com. #1 | | | | 399990-002 | Comp-01.5 | 18-18 In | SOIL | Dec-08-10 10:59 | | Dec-10-10 08:21 | mg/kg RL | 953 24.9 |
| Certificate of A. Yates Petroleun Project Name | | | | 399990-001 | Comp-01.0 | 12-12 In | SOIL | Dec-08-10 10:44 | | Dec-10-10 08:21 | mg/kg RL | 802 20.0 |
| Cert | | | | Lab Id: | Field Id: | Depth: | Matrix: | Sampled: | Extracted: | Analyzed: | Units/RL: | |

1.00 1.00

%

 $\mathbb{R}^{\mathbb{L}}$ 1.00

%

16.2

15.8

1.00 R

> 16.1 %

Dcc-10-10 08:25

Dcc-10-10 08:25

Dcc-10-10 08:25

Analyzed: Extracted:

Percent Moisture

Chloride

Anions in Soil By EPA 300.0

Analysis Requested

Units/RL:

Percent Moisture

Brent Barron, II Odessa Laboratory Manager

Final 1.000

Page 5 of 11

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

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.

TOTAL STATE OF STATE OF THE STA

Released to Imaging: 3/25/2022 8:37:54 AM

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

Received by OCD: 3/21/2022 10:53:51 AM

MDL Method Detection Limit

POL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

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BS / BSD Recoveries



Project Name: Rio Penasco RT Com. #1

Work Order #: 399990

Analyst: LATCOR

Lab Batch ID: 835486

Sample: 835486-1-BKS

Date Prepared: 12/10/2010

Batch #: 1

Project ID: 30-015-23798 **Date Analyzed:** 12/10/2010

Matrix: Solid

| Units: mg/kg | | BLAN | SLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY | PIKE / B | LANKS | PIKE DUPL | ICATE F | ECOVE | RY STUD | Y | |
|-----------------------------|-------------------------------|-----------------------|---|-----------------------------|-----------------------|---|-------------------------------|-------|-------------------|---------------------------|------|
| 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 | Control Limits %RPD | Flag |
| Chloride | ND | 10.0 | 9.04 | 06 | 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

Final 1.000





Form 3 - MS Recoveries





Project Name: Rio Penasco RT Com. #1

Work Order #: 399990

Lab Batch #: 835486 Date Analyzed: 12/10/2010

Project ID: 30-015-23798

Date Prepared: 12/10/2010

Analyst: LATCOR

QC-Sample ID: 399968-001 S

Batch #: Matrix: Soil

| Reporting Units: mg/kg | MATI | RIX / MA | TRIX SPIKE | RECO | VERY STU | DΥ |
|---------------------------------------|-----------------------------------|-----------------------|--------------------------------|-----------|-------------------------|------|
| Inorganic Anions by EPA 300 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | %R [D] | Control Limits %R | Flag |
| Chloride | 30600 | 21200 | 47300 | 79 | 75-125 | |

Received by OCD: 3/21/2022 10:53:51 AM

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

BRL - Below Reporting Limit



ample Duplicate Recovery



Project Name: Rio Penasco RT Com. #1

Work Order #: 399990

Lab Batch #: 835486

Date Analyzed: 12/10/2010 08:21

Project ID: 30-015-23798

Date Prepared: 12/10/2010

Analyst: LATCOR

QC- Sample ID: 399968-001 D

Batch #:

Matrix: Soil

| Reporting Units: mg/kg | SAMPLE | SAMPLE | DUPLIC | ATE REC | OVERY |
|--------------------------------------|--------------------------------|--------------------------------------|--------|---------------------------|-------|
| Anions in Soil By EPA 300.0 Analyte | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| 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 | DUPLIC | ATE REC | OVERY |
|---------------------------|--------------------------------|--------------------------------------|--------|---------------------------|--------|
| Percent Moisture Analyte | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Percent Moisture | 3.34 | 3.80 | 13 | 20 | 24 - 7 |

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

Fax: 432-563-1713

Odessa, Texas 79765

Phone: 432-563-1800

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 12600 West I-20 East

Standard TAT × × NPDES TAT (Pre-Schedule) 24, 48, 72 hrs ပ္ Ď Project Name: Rio Penasco RT Com. #1 × × Chlorides × M.A.O.V TRRP RCI Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s) by Sampler/Client Rep. ? by Couner? UPS Temperature Upon Receipt × × BIEX 8021B/2030 ot BIEX 8260 VOCs Free of Headspace? Sample Containers Intact? Laboratory Comments Sample Hand Delivered selitelovimes Analyze Project #: 30-015-23798 Report Format: X Standard Project Loc: Eddy County Nefels: As Ag Ba Cd Cr Pb Hg Se PO #: 105632 TCLP SAR / ESP / CEC Anions (CI, SO4, Alkalinity) Cations (Ca, Mg, Na, K) 60:03 9001 XT 1X 1005 :HdJ Time × Maros Hal 89108 Specify Other 1000 P S S M = Groundwater S=SoitSolid 2-9-10 W=Drinking Water SL=Sludge Date boba@yatespetroleum.com Date Please show ALL results as mg/kg. Thank you Orher (Specify) eOsseN HOBM *os*H HCI 575-748-4662 Misdock ^EONH 90| × × otal #. of Containers beld Filtered Fax No: e-mail: 11:09 AM 10:59 AM 10:44 AM Time Sampled Received by ELOT: TPH: 8015B, BTEX: 8021B & Chlorides. 12/8/2010 12/8/2010 12/8/2010 Received by: Received by Date Sampled 24" 18 12 Ending Depth 2:05 PM Time ime ᆲ 24" 18 12 Beginning Depth Yates Petroleum Corporation 12/08/10 Date Date Date Company Address: 105 South 4th Street Artesia, NM 88210 Ch.lorides 399990 Please put chlorides on separate report 575-748-4217 Robert Asher FIELD CODE Comp-01.0 Comp-01.5 Comp-02.0 Sampler Signature: ORDER#: 399988 Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: Relinquished by: Relinquished by: elinquished by lab use only) Robert Asher (lab use only)



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 | 155 |
|-------------------------|-----|
| Data/Time: 12 -CI - 1() | |
| Lab ID#: 39988 / 399990 | |
| Initials: 🖟 M | |

Sample Receipt Checklist

| 1. Samples on ice? | | Blue | Water | No | |
|---|-----|------------|-------|--------------|-------------------------|
| 2. Shipping container in good condition? | , | Yes | No | None | |
| 3. Custody seals intact on shipping container (cooler) and bottles? | | Yes | No | N/A | |
| 4. Chain of Custody present? | | Yes | No | | |
| 5. Sample instructions complete on chain of custody? | | Yes | No | | |
| 6. Any missing / extra samples? | | Yes | No | | |
| 7. Chain of custody signed when relinquished / received? | | Yes | No | | 4.1 |
| 8. Chain of custody agrees with sample label(s)? | | Yes | No | | 1 10 1 10 |
| 9. Container labels legible and intact? | | Yes | No | | |
| 10. Sample matrix / properties agree with chain of custody? | | Yes | No · | | $Y = \{(x,y), (x,y)\},$ |
| 11. Samples in proper container / bottle? | | Yes | No | | o sainge |
| 12. Samples properly preserved? | | Yes | No | N/A | santassas tan |
| 13. Sample container intact? | 1 1 | Yes | No | | |
| 14. Sufficient sample amount for indicated test(s)? | | Yes | No | | the contract of |
| 15. All samples received within sufficient hold time? | | (Yes-) | No | | Sec. of |
| 16. Subcontract of sample(s)? | | Yes | No | N/A | ec e d'e |
| 17. VOC sample have zero head space? | 3 | Yes | No | N/A | - < |
| 18. Cooler 1 No. Cooler 2 No. Cooler 3 No. | | Cooler 4 N | 0. | Cooler 5 No. | n dest of |
| lbs 1.5 °C lbs °C lbs | °C | lbs | °C | lbs | 0 |

Nonconformance Documentation

| Contact: | Contacted by: | _ Date/Tim | e: | |
|--------------------------|---------------|----------------|----|--|
| 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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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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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 reanalysis. 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

Project Id: 30-015-23798 Contact: Robert Asher

Project Location: Eddy County

Certificate of Analysis Summary 399988 Yates Petroleum Corporation, Artesia, NM

Project Name: Rio Penasco RT Com. #1

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

Project Manager: Brent Barron, II Report Date: 15-DEC-10

| | rap la: | 399988-001 | 399988-002 | 399988-003 | | | |
|------------------------------------|------------|-----------------|-----------------|-----------------|---|-----|----|
| | Field Id: | Comp-01.0 | Comp-01.5 | Comp-02.0 | | 18 | 76 |
| Analysis Kequestea | Depth: | 12-12 In | 18-18 In | 24-24 In | | | × |
| | Matrix: | SOIL | SOIL | SOIL | | 2 | |
| | 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 | | | |
| Benzene | 3 | 1.490 0.6008 | 1.520 0.5986 | 3.992 0.5931 | | | |
| Toluene | | 44.60 1.202 | 73.98 1.197 | 43.78 1.186 | | | |
| Ethylbenzene | | 31.58 0.6008 | 41.32 0.5986 | 47.90 0.5931 | | | |
| m,p-Xylenes | | 164.3 1.202 | 229.3 1.197 | 176.5 1.186 | | | |
| o-Xylene | | 45.18 0.6008 | 65.82 0.5986 | 13.83 0.5931 | | | |
| Xylenes, Total | | 348.7 0.6008 | 493.0 0.5986 | 320.9 0.5931 | | | |
| Total BTEX | | 477.9 0.6008 | 688.2 0.5986 | 482.2 0.5931 | | | |
| Percent Moisture | Extracted: | | | | | | |
| | Analyzed: | Dec-10-10 08:25 | Dec-10-10 08:25 | Dec-10-10 08:25 | 8 | | |
| | Units/RL: | % RL | % RL | % RL | | | |
| Percent Moisture | | 16.1 1.00 | 15.8 1.00 | 16.2 1.00 | | | |
| TPH by SW 8015B | 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 | | 200 | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| C6-C10 Gasoline Range Hydrocarbons | | 3670 179 | 6110 179 | | | | |
| C10-C28 Diesel Range Hydrocarbons | | 1490 179 | 3630 179 | | | | |
| 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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Odessa Laboratory Manager Brent Barron, II

Page 5 of 16

Final 1.000



Flagging Criteria

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- 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.
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1 rm 2 - Surrogate Recoveries

Project Name: Rio Penasco RT Com. #1

Work Orders: 399988,

Sample: 591263-1-BKS / BKS

Project ID: 30-015-23798

Lab Batch #: 835950

Matrix: Solid Batch:

| Units: mg/kg Date Analyzed: 12/14/10 13:50 | SU | SURROGATE RECOVERY STUDY | | | | |
|--|------------------------|--------------------------|----------------|-------------------------|-------|--|
| BTEX by EPA 8021 | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | |
| Analytes | | 2 | [D] | 3 | | |
| 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 | SU | RROGATE R | ECOVERY | STUDY | |
|--|------------------------|-----------------------|-----------------------|-------------------------|-------|
| BTEX by EPA 8021 Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | 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:

Matrix: Solid

| Units: mg/kg Date Analyzed: 12/14/10 14:54 | SU | RROGATE R | ECOVERY S | STUDY | |
|--|------------------------|-----------------------|-----------------------|-------------------------|-------|
| BTEX by EPA 8021 Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | 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:

Matrix: Soil

| Units: mg/kg Date Analyzed: 12/14/10 15:59 | SU | RROGATE R | ECOVERY | STUDY | |
|--|------------------------|-----------------------|-----------------------|-------------------------|-------|
| BTEX by EPA 8021 Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | 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:

Matrix: Soil

| Units: mg/kg | Date Analyzed: 12/15/10 01:15 | SU | RROGATE RI | ECOVERY S | STUDY | s |
|----------------------|-------------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|
| ВТЕ | X by EPA 8021 Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluorobenzene | | 0.0198 | 0.0300 | 66 | 80-120 | ** |
| 4-Bromofluorobenzene | W | 0.0322 | 0.0300 | 107 | 80-120 | |

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



rm 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

Matrix: Soil Batch: 1

| 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 | Control Limits %R | Flags |
| Analytes | | | [D] | | |
| 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 | SUI | RROGATE R | ECOVERY S | STUDY | - N |
|--|------------------------|-----------------------|-----------------------|-------------------------|-------|
| BTEX by EPA 8021 Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 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 Analytes | Amount True Control Found Amount Recovery Limits Fla [A] [B] %R %R [D] | ags |
| 1,4-Difluorobenzene | 0.0283 0.0300 94 80-120 | - 1 |
| 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 Anal | SURROGATE RECOVERY STUDY | | | | | |
|-------------------------|--------------------------|------------------------|-----------------------|-----------------------|-------------------------|-------|
| BTEX by EPA 8 Analytes | 021 | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluorobenzene | 2 1 2 | 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 | | | | | |
|----------------------|-------------------------------|--------------------------|-----------------------|----------------|-------------------------|-------|--|
| вте | X by EPA 8021 | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | |
| 8 | Analytes | | | [D] | | | |
| 1,4-Difluorobenzene | | 0.0210 | 0.0300 | 70 | 80-120 | * | |
| 4-Bromofluorobenzene | 9 | 0.0250 | 0.0300 | 83 | 80-120 | | |

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



rm 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

Matrix: Soil Batch:

| 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 | Control Limits %R | Flags |
| Analytes | | | [D] | | 8 |
| 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:

Matrix: Solid

| SURROGATE RECOVERY STUDY | | | | | |
|--------------------------|------------------------|----------------------------|--|---|--|
| Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | |
| 110 | 99.5 | 111 | 70-135 | | |
| 52.1 | 49.8 | 105 | 70-135 | | |
| | Amount Found [A] | Amount True Amount [A] [B] | Amount True Amount [A] [B] Recovery [D] 110 99.5 111 | Found Amount Recovery Limits %R | |

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 Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | |
| 1-Chlorooctane | 106 | 100 | 106 | 70-135 | | | |
| o-Terphenyl | 48.2 | 50.1 | 96 | 70-135 | 10 10 | | |

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 Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | 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:

Matrix: Soil

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

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



m 2 - Surrogate Recoveries

Project Name: Rio Penasco RT Com. #1

Work Orders: 399988, Lab Batch #: 835272

Sample: 399988-002 / SMP

Project ID: 30-015-23798

Matrix: Soil

Batch:

| Units: mg/kg Date Analyzed: 12/10/10 03:04 | SU | RROGATE RE | COVERY | 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 SURROGATE RECOVERY STUDY Analyzed: 12/10/10 03:34

| Units: mg/kg Date Analyzed: 12/10/10 03:34 | 50 | IIIIO OMILI M | ECO (EICI) | 31021 | |
|--|------------------------|-----------------------|-----------------------|-------------------------|-------|
| TPH by SW 8015B | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| Analytes 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:

Matrix: Soil

| Units: mg/kg Date Analyzed: 12/10/10 04:03 | SU | IRROGATE RE | ECOVERY | STUDY | 95 |
|--|------------------------|-----------------------|-----------------------|-------------------------|-------|
| 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 Recovery [D] = 100 * A / B All results are based on MDL and validated for QC purposes.

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution





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/I | BLANK SPI | KE REC | COVERYS | STUDY |
|------------------------|------------------------|-----------------------|--------------------------|----------------------|-------------------------|-------|
| BTEX by EPA 8021 | Blank Result [A] | Spike Added [B] | Blank Spike Result | Blank Spike %R | Control Limits %R | Flags |
| Analytes | (:-) | 1-1 | [C] | [D] | | |
| 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 | |



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

Matrix: Solid

Project ID: 30-015-23798 Date Analyzed: 12/14/2010

| Units: mg/kg | | BLAN | BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY | PIKE/B | LANKS | PIKE DUPL | ICATE F | ECOVE | RY STUD | χ | |
|------------------|-------------------------------|----------------|---|----------------------|--------|-----------------------------|------------------------|-------|-------------------|---------------------------|------|
| BTEX by EPA 8021 | Blank Sample Result [A] | Spike Added | Blank Spike Result | Blank Spike %R | Spike | Blank Spike Duplicate | Blk. Spk Dup. %R | RPD % | Control Limits | Control Limits %RPD | Flag |
| Analytes | | [B] | [C] | [0] | (E) | Result [F] | <u>5</u> | | | | |
| Benzene | <0.0010 | 0.1008 | 0.1194 | 118 | 0.0992 | 0.0981 | 66 | 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 | 98 | 20 | 71-129 | 35 | |
| m,p-Xylencs | <0.0020 | 0.2016 | 0.2055 | 102 | 0.1984 | 0.1670 | 84 | 21 | 70-135 | 35 | |
| o-Xylene | <0.0010 | 0.1008 | 0901.0 | 105 | 0.0992 | 0.0860 | 87 | 21 | 71-133 | 35 | |

Date Prepared: 12/09/2010

Sample: 590863-1-BKS

Lab Batch ID: 835272

Analyst: BEV

Batch #: 1

Date Analyzed: 12/10/2010 Matrix: Solid

| Units: mg/kg | | BLAN | BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY | PIKE / B | LANKS | PIKE DUPL | ICATE F | RECOVE | RY STUD | X | |
|------------------------------------|-------------------------------|----------|---|----------------------|----------------|-----------------------------|------------------------|--------|-------------------------|---------------------------|------|
| TPH by SW 8015B | Blank Sample Result [A] | Spike | Blank Spike Result | Blank Spike %R | Spike Added | Blank Spike Duplicate | Bik. Spk Dup. %R | RPD | Control Limits %R | Control Limits %RPD | Flag |
| Analytes | | <u>@</u> | [<u>]</u> | [a] | [<u>a</u>] | Kesuit [F] | <u>5</u> | | | | |
| C6-C10 Gasoline Range Hydrocarbons | ND ND | 995 | 862 | 87 | 1000 | 828 | 83 | 4 | 70-135 | 35 | |
| C10-C28 Diesel Range Hydrocarbons | Q. | 995 | 696 | 26 | 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

Page 12 of 16

Final 1.000





Form 3 - MS / MSD Recoveries

Project Name: Rio Penasco RT Com. #1

Work Order #: 399988

Date Analyzed: 12/15/2010 Lab Batch ID: 836030

Reporting Units: mg/kg

Batch #: QC-Sample ID: 400362-001 S

Matrix: Soil

Project ID: 30-015-23798

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY SEE Analyst: Date Prepared: 12/14/2010

| Nepot ung omes, mg ng | | TAT | MAINIA STINE / MAINIA STINE DOLLICATE NECOVENT STUDI | C / INTWITE | MA SELE | E DOI DICA | TE NEC | TUTL | 1771 | | |
|---------------------------|-----------------------------------|-----------------------|--|-------------------------------|-----------------------|--|-----------------------------|-------|-------------------------|---------------------------|------|
| BTEX by EPA 8021 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 |
| Benzene | <0.0011 | 0.1130 | 0.0891 | 79 | 0.1130 | 0.0791 | 10 | 12 | 70-130 | 35 | |
| Toluene | <0.0022 | 0.1130 | 0.0649 | 57 | 0.1130 | 0.0619 | 55 | 5 | 70-130 | 35 | × |
| Ethylbenzene | <0.0011 | 0.1130 | 0.0449 | 40 | 0.1130 | 0.0463 | 41 | 3 | 71-129 | 35 | × |
| m,p-Xylenes | <0.0022 | 0.2260 | 0.0505 | 22 | 0.2260 | 0.0645 | 29 | 24 | 70-135 | 35 | × |
| o-Xylene | <0.0011 | 0.1130 | 0.0526 | 47 | 0.1130 | 0.0503 | 45 | 4 | 71-133 | 35 | × |
| | | | | | | | | | | | |

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

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

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*(C-F)/(C+F)

Page 13 of 16

Final 1.000



Sample Duplicate Recovery



Project Name: Rio Penasco RT Com. #1

Work Order #: 399988

Lab Batch #: 835950

Project ID: 30-015-23798 Analyst: SEE Date Prepared: 12/14/2010

Date Analyzed: 12/14/2010 15:59 QC-Sample ID: 399954-002 D

Batch #:

Matrix: Soil

| Reporting Units: mg/kg | SAMPLE / | SAMPLE | DUPLIC | ATE REC | OVERY |
|---------------------------|--------------------------------|--------------------------------------|--------|---------------------------|-------|
| BTEX by EPA 8021 Analyte | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Benzene | <0.0011 | ND | NC | 35 | |
| Toluene | <0.0021 | ND | NC | 35 | |
| Ethylbenzene | <0.0011 | ND | NC | 35 | 0. |
| 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

| - reporting our | | DIMIT ZZ, | 5111111 22 | 201210 | | 0 1 2 1 1 1 |
|------------------|---------------------------------------|--------------------------------|--------------------------------------|--------|---------------------------|-------------|
| | Percent Moisture Analyte | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| 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 | DUPLIC | ATE REC | OVERY |
|------------------------------------|--------------------------------|--------------------------------------|--------|---------------------------|-------|
| TPH by SW 8015B Analyte | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| 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

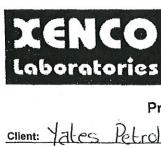
XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Phone: 432-563-1800

12600 West I-20 East Odessa, Texas 79765

Fax: 432-563-1713

TAT brebnet × × NPDES TAT (Pre-Schedule) 24, 48, 72 hrs i Project Name: Rio Penasco RT Com. #1 × × Chlorides TRRP M.R.O.V SCI Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. ? イップ () A SS Temperature Upon Receipt /OCs Free of Headspace? BIEX 8021B/5030 or BIEX 8260 × Sample Containers Intact? selitelovimes Analyze Project #: 30-015-23798 Report Format: X Standard Project Loc: Eddy County Netals: As Ag Ba Cd Cr Pb Hg Se PO #: 105632 TCLP SARIESPICEC Anions (Cl. SO4, Alkalinity) Cations (Ca, Mg, Na, K) 10:03 9001 XT 3001 XT :HdJ Time × 89108 M2108 1.814 :H9T Specify Other Matrix 1000 P S S 2-9-10 W=Drinking Water SL=Sludge Date boba@yatespetroleum.com Date Please show ALL results as mg/kg. Thank you. Other (Specify) HONE Na₂S₂O₃ HOBM *os*H HCI 575-748-4662 hirdock €ОИН × fotal #. of Containers ield Fillered e-mail: Fax No: 10:59 AM 11:09 AM 10:44 AM Time Sampled Received by ELOT: on separate report TPH: 8015B, BTEX: 8021B & Chlorides. 12/8/2010 12/8/2010 12/8/2010 Received by: Received by: Date Sampled 24" 18 Ending Depth 12 2:05 PM ime Time ıme 18" 24" 12" Beginning Depth Yates Petroleum Corporation 12/08/10 Date Date Date Company Address: 105 South 4th Street Artesia, NM 88210 Chilorides 399990 Please put chlorides 575-748-4217 Robert Asher Comp-01.0 Comp-01.5 Comp-02.0 FIELD CODE Sampler Signature: ORDER #: 399978 Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: Relinquished by: Relinquished by: lab use only) (Ylno esu del) # 8A.



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 / 399990 | |
| Initials: XM | |

Sample Receipt Checklist

| 1. Samples on ice? | Blue | (Water) | No | |
|---|-------------|---------|--------------|---------------|
| 2. Shipping container in good condition? | Yes | No | None | |
| 3. Custody seals intact on shipping container (cooler) and bottles? | Yes | No | N/A | |
| 4. Chain of Custody present? | Yes | No | | |
| 5. Sample instructions complete on chain of custody? | Yes | No | | |
| 6. Any missing / extra samples? | Yes | (No) | | |
| 7. Chain of custody signed when relinquished / received? | Yes | No | | |
| 8. Chain of custody agrees with sample label(s)? | Yes | No | | 111 |
| 9. Container labels legible and intact? | (Yes) | No | | |
| 10. Sample matrix / properties agree with chain of custody? | Yes | No . | 1000 | an Martin Con |
| 11. Samples in proper container / bottle? | Yes | No | | 1 |
| 12. Samples properly preserved? | Yes | No | N/A | or the second |
| 13. Sample container intact? | (Yes.) | No | | |
| 14. Sufficient sample amount for indicated test(s)? | Yes | Nó | 1 | La participa |
| 15. All samples received within sufficient hold time? | (Yes) | No | 100 % | |
| 16. Subcontract of sample(s)? | Yes | (No) | N/A | |
| 17. VOC sample have zero head space? | Yes | No | N/A | |
| 18. Cooler 1 No. Cooler 2 No. Cooler 3 No. | Cooler 4 No | 0. | Cooler 5 No. | 1.1.1. |
| lbs 1.5 °C lbs °C lbs °C | lbs | °c | lbs | °c |

Nonconformance Documentation

| Contact: | Contacted by: | Date/Time: |
|------------------------|--|--------------------------------------|
| Regarding: | | |
| | | |
| Corrective Action Take | en: | |
| | | |
| | | |
| Check all that apply: | □Cooling process has begun shortly after s | ampling 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 1
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

OMLS 1034126733
Name of Company
Yates Petroleum Corporation

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

Released to Imaging: 3/25/2022 8:37:54 AM

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

| | 42.40.744.202 | Spirite (14) (principle) | | | - | C, INIVIOIS | | | | | VATH-THE | New James 12 11 11 11 11 11 11 11 11 11 11 11 11 |
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| | | | Rele | ease Notific | catio | n and Co | rrective A | ction | ı | | | |
| omes10 | 34126 | 733 | | O | PERA | ATOR | | | ⊠ Initia | l Report | | Final Report |
| Name of Co | ompány | | | OGRID Nur | nber | Contact | | | | | 1 | |
| Yates Petro | leum Corp | oration | | 25575 | | Robert Ash | | | | | | |
| Address 104 S. 4 TH | Straat | | | | | Telephone N | | | | | • | |
| Facility Na | | | | API Number | - | 575-748-14 Facility Typ | | | | | | |
| Rio Penasc | | #1 | | 30-015-2397 | | Battery | NJ | | | | | |
| | | | | | | | | | | | | |
| Surface Ow Fee | ner | | • | Mineral (|)wner | | | | Lease 1 | No. | | |
| ree | | | | Fee | | | | | | | | |
| | | | 6 | | | N OF RE | LEASE | | ej. | | | |
| Unit Letter | Section | Township | Range | Feet from the | North | /South Line | Feet from the | | West Line | County | | · · · · · · · · · · · · · · · · · · · |
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| Type of Rela | | | | | | Volume of | | | | Recovered | | Man. |
| Source of Re | | | | | 1 72 | Date and I | lour of Occurrent | na : | | OB/PW | | |
| Production to | | | | | | 11/29/2010 | 11/29/2010, PM 11/29/2010, PM 140 180 V | | | | | |
| Was Immedi | iate Notice (| | | 134 (134.8) | Land, | If YES, To | | | | who are | dinu, | datic cuseur |
| D. 11/1 0 | | | Yes L | No Not R | equirea | | | | | | | |
| | | | | | | | the Chart | | W 124 | | | |
| Was a Water | rcourse Read | ched? | | | | | olume Impacting | the Wat | ercourse. | | 364 (1) 1 2 - 31 (| C Programme. |
| , | | | Yes 🗵 | No | | N/A | - Inputing | | | | | |
| | urse was Im | pacted, Descr | ibe Fully. | • | | | 54 | | | 1. 1 | 4 5 50 | n barr |
| N/A Describe Ca | use of Probl | em and Reme | dial Actio | n Taken * | - | | | | | | | |
| Hole in botte | om of produ | ction tank. Va | cuum truc | ck and roustabout | crew ca | alled. | 3 | | | | | |
| Describe Ar | ea Affected | and Cleanup. | Action Ta | ken.* | | | | | | 110 0 10 0 | 1650 | Contract of |
| conduct vert | nate area of tical/horizon | 15' X 15'. V | acuum tru n to detern | ck recovered sma | II amou | int of oil but n | o produced water will be tested for | Was rec | overed. Pr | oduction to | ink pul | led and will |
| initial analyt | tical results | for TPH & BT | ΓEX are un | nder RRAL's a Fi | inal Rer | oort, C-141 wi | II be submitted to | the OC | D requestir | ng closure. | If the | analytical |
| results are a | bove the RR | AL a work pl | an will be | submitted to the | OCD. I | Depth to Grou | und Water: >100 | " (appr | ox. 204', L | Init Letter | E, Sec | tion 2, T1898- |
| IS 0. | New Mexico | Office of the | e State En | gineer), Wellher | d Prot | ection Area: 1 | No, Distance to S | urface | Water Boo | ly: >1000'. | SITE | RANKING |
| I hereby cert | tify that the | information g | iven abov | e is true and com | olete to | the best of my | knowledge and i | understa | nd that pur | suant to Ni | MOCD | rules and |
| regulations a | all operators | are required (| lo report a | nd/or file certain | release | notifications a | nd perform corre | clive acl | ions for rel | leases whic | h may | endanger |
| should their | operations l | ronment. The | adequately adequately | ce of a C-141 rep | ort by (I remedia | ne NMOCD m | narked as "Final Fion that pose a the | (eport" (| does not rel | lieve the op | erator | of liability |
| or the enviro | onment. In a | addition, NM(| OCD acce | ptance of a C-141 | report | does not reliev | e the operator of | respons | ibility for o | compliance | with a | ny other |
| federal, state | a or local la | ws and/or reg | ulations, | | | - | | | | | | |
| | | | | | 1 | | OIL CON | SERV | ATION | DIVISI | ON | |
| Signature: | 1 | A () | U | | | | a: | 41 | 1. K | | | |
| D | | | | 22 | 77 | Approved by | Signed By District Supervis | SOF: | 14 201 | MITHER | | - |
| Printed Nan | ie: Robert A | sher | | | | | | | | | | |
| Title: Enviro | onmental Re | gulatory Ager | nl | | | Approval Da | te:DEC 07 | 2010 | Expiration | Date: | | |
| Famail Add | naser hohosa | yatespetrpole | un com | | | | | | | | | |
| 14-11411 / LQUI | 235, 17004(I) | Attraliet hous | HII-COIII | | | Conditions o | | | .1 | Attache | d 🗆 | |
| Date: Mond | | | | Phone: 575-748- | 1217 | . REMED | IATION per C | CD Ru | lies and | | | |
| * Attach Add | itional She | ets If Neces | sary | | | | s. <u>SUBMIT RE</u> | | | JRA | 0_1 | 192 |
| | | | | | | PROPOSA | LBY: 1/1/ | 201 | 11 1 | V/ // | , | tid |
| | | | | | | | (' / | / | | | | |

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

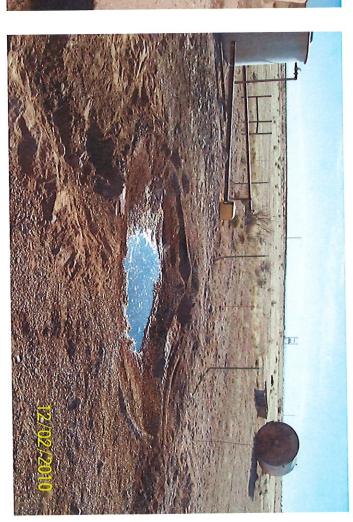
Release Notification and Corrective Action

| | | | | OH | PERA | ATOR | | \triangleright | Initia | l Report | П | Final Report |
|-----------------------------|---------------|-----------------|-------------|--|----------------------|-----------------|--------------------|------------------|--------------|--------------|-----------|---------------|
| Name of Co | | | | OGRID Num | ber | Contact | | | | | | |
| Yates Petro | leum Corp | oration | | 25575 | | Robert Ash | er | | | | | |
| Address | | | | | | Telephone 1 | | | | | | |
| 104 S. 4 TH S | | | | | | 575-748-14 | | | | | | |
| Facility Na | | | | API Number | | Facility Typ | e | | | | | |
| Rio Penasco | o RT Com. | #1 | | 30-015-23978 | 3 | Battery | | | | | | |
| Surface Ow | ner | | | Mineral O | wner | | | | Lease N | Jo | | 1 |
| Fee | | | | Fee | WIICI | | | | Lease I | NO. | | |
| | | | | | | | | | | | | |
| · · · · · | | Service 1744/68 | | | | N OF RE | LEASE | | | | | |
| Unit Letter | Section | Township | Range | Feet from the | North | /South Line | Feet from the | | est Line | County | | |
| Н | 3 | 198 | 25E | 1980 | | North | 660 | Ea | ast | Eddy | | |
| L | | | | | | | | | | | | |
| | | | | Latitude 32.0 | 59198 | _ Longitude | 104.46566 | | | | | |
| | | | | NAT | HDE | OF REL | EACE | | | | | |
| Type of Rele | ase | | | NAI | UKE | Volume of | | | V-1 r | | | |
| Oil & Produc | | | | | | 14 B/O & | | | 2 B/O & (| Recovered | | |
| Source of Re | | | | | | | Iour of Occurrence | | | Hour of Di | scovery | , |
| Production to | | | | | | 11/29/2010 |), PM | | 11/29/201 | 0, PM | , | |
| Was Immedia | ate Notice (| | | | | If YES, To | | | | | | |
| | | X | Yes [| No Not Re | quired | Mike Brate | cher/NMOCD Art | tesia | | | | |
| By Whom? | amon . | | | | | Date and F | | | | | | |
| Robert Asher Was a Water | | | | | | |), PM (e-mail) | | | | | |
| was a water | course Reac | ned? | Yes 🗵 | 1 No | | N/A | olume Impacting t | the Water | course. | | | |
| If a Watercou | ırse was Im | | | | | IN/A | | | | | | |
| N/A | | | • | | | | | | | | | |
| Describe Cau | ise of Proble | em and Reme | dial Actio | n Taken.* | | 6060 BS | | | | | | |
| Hole in botto | m of produc | ction tank. Va | cuum truc | k and roustabout o | crew ca | ılled. | | | | | | |
| Describe Are | a Affected a | and Cleanup A | Action Tak | cen.* | . 2021 | | 1 1 | | | | | |
| conduct verti | cal/horizont | al delineation | to determ | ck recovered small sine extent of impa | amoui | nt or on but no | o produced water | was recov | vered. Pro | oduction tai | ak pulle | ed and will |
| initial analyti | cal results f | or TPH & BT | EX are ur | ider RRAL's a Fin | al Rep | ort, C-141 wil | l be submitted to | the OCD | requestin | g closure. | If the a | nalytical |
| results are ab | ove the RR | AL a work pla | an will be | submitted to the C | CD. I | Depth to Grou | ind Water: >100 | ' (approx | k. 204', U | nit Letter | E. Secti | ion 2, T189S- |
| R25E, per N | ew Mexico | Office of the | State En | gineer), Wellhead | l Prote | ection Area: N | No, Distance to S | urface W | ater Bod | y: >1000', | SITE I | RANKING |
| IS 0. | fy that the i | nformation a | van ahava | is two and samul | 242 42 4 | h - h - + - C | 11.11 | 1 . | 1.1. | >D | 10.00 | |
| regulations a | ll operators | are required t | o report at | is true and compl nd/or file certain re | ele to t elease r | ne best of my | Knowledge and u | inderstand | that purs | suant to NN | IOCD r | ules and |
| public health | or the envir | onment. The | acceptano | ce of a C-141 repo | rt by th | ne NMOCD m | arked as "Final R | eport" do | es not reli | eve the one | erator of | fliability |
| should their of | perations h | ave failed to a | adequately | investigate and re | emediat | te contaminati | on that pose a thr | eat to gro | und water | . surface w | ater, hu | ıman health |
| or the environ | nment. In a | ddition, NMC | CD accep | tance of a C-141 i | eport o | loes not reliev | e the operator of | responsib | ility for co | ompliance | with an | • / |
| federal, state, | or local lav | vs and/or regu | ilations. | | | | OH GOVE | GEDY | - Trons | DIVITAL | | |
| | | | | | | | OIL CON | SERV <i>E</i> | ATION | DIVISIO | <u> </u> | |
| Signature: | 6 | ex) | 人。 | | | | | | | | | |
| | | | | | | Approved by | District Supervise | or: | | | | |
| Printed Name | e: Robert As | sher | | | | | District Supervis | ···· | | | | |
| Title: Enviro | nmental Day | nulatoru Agar | | | | A | | | | | | |
| THIC. EHVIIO | micinal Reg | guiatory Ager | ıı | | \rightarrow | Approval Dat | e: | Ex | xpiration | Date: | | |
| E-mail Addre | ess: boba@y | atespetrpolei | in.com | | | Conditions of | f Approval: | | | | _ | ļ |
| 3 | | • | | | | | -FF | | | Attached | i 🗌 | |
| Date: Monda | | | | Phone: 575-748-42 | 217 | 2RP- | | | | | | |
| Attach Addi | tional Shee | ets If Necess | ary | | | | | | | | | |
| 5 | | | | | | | | | | | | |



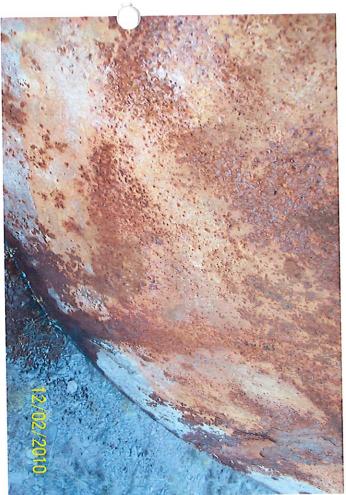






Received by OCD: 3/21/2022 10:53:51 AM





From:

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

Sent: Subject: Wednesday, December 01, 2010 6:37 AM Read: Release (Rio Penasco RT Com. #1)



ATT00001 (743 B)

Your message

To:

Bratcher, Mike, EMNRD

Cc:

Jerry Fanning

Sent:

Subject: Release (Rio Penasco RT Com. #1) 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.

Released to Imaging: 3/25/2022 8:37:54 AM

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

'(mike.bratcher@state.nm.us)'

Jerry Fanning

Read: 11/29/2010 6:27 PM

Read

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

Rio Penasco RT Com #1 Closure Report 2RP-492 NMLB1034126733



March 17, 2022

Released to Imaging: 3/25/2022 8:37:54 AM

Appendix C NMOCD Approval Email

Released to Imaging: 3/25/2022 8:37:54 AM

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

Rio Penasco RT Com #1 Closure Report 2RP-492 NMLB1034126733



March 17, 2022

Released to Imaging: 3/25/2022 8:37:54 AM

Appendix D Closure Report

District I
1025 N. French Dr., Hobbs, NM 88240
District II
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

| Name of Company Yates Petroleum Corporation Address Telephone No. 104 S. 4 TH Street Facility Name OGRID Number Robert Asher Telephone No. 575-748-1471 Facility Type | | | | | | | |
|---|---------|--|--|--|--|--|--|
| Address Telephone No. 104 S. 4 TH Street 575-748-1471 | | | | | | | |
| 104 S. 4 TH Street 575-748-1471 | | | | | | | |
| | | | | | | | |
| Facility Name API Number Facility Type | | | | | | | |
| | 1 | | | | | | |
| Rio Penasco RT Com. #1 30-015-23978 Battery | | | | | | | |
| Surface Owner Mineral Owner Lease No. | | | | | | | |
| Fee Fee Fee | | | | | | | |
| Tee Tee | | | | | | | |
| LOCATION OF RELEASE | | | | | | | |
| Unit Letter Section Township Range Feet from the H 3 19S 25E 1980 North Feet from the East/West Line County Eddy | | | | | | | |
| H 3 19S 25E 1980 North 660 East Eddy | | | | | | | |
| | | | | | | | |
| Latitude 32.69198 Longitude 104.46566 | | | | | | | |
| NATURE OF RELEASE | | | | | | | |
| Type of Release Volume of Release Volume Recovered Oil & Produced Water 14 B/O & 8 B/PW 2 B/O & 0 B/PW | | | | | | | |
| Oil & Produced Water 14 B/O & 8 B/PW 2 B/O & 0 B/PW Source of Release Date and Hour of Occurrence Date and Hour of Discovery | | | | | | | |
| Production tank 11/29/2010, PM 11/29/2010, PM | | | | | | | |
| Was Immediate Notice Given? If YES, To Whom? | | | | | | | |
| ∑ Yes ☐ Not Required Mike Bratcher/NMOCD Artesia | | | | | | | |
| By Whom? Date and Hour | | | | | | | |
| Robert Asher/YPC Environmental 11/29/2010, PM (e-mail) | | | | | | | |
| Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. | | | | | | | |
| Yes ⊠ No N/A RECEN | ED | | | | | | |
| If a Watercourse was Impacted, Describe Fully.* | | | | | | | |
| N/A Describe Cause of Problem and Remedial Action Taken.* | .011 | | | | | | |
| II-1- in 1-44-m of any dustion touls. We come truck and remark out grow colled | | | | | | | |
| 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 an | will | | | | | | |
| conduct vertical/horizontal delineation to determine extent of impacted soils. Samples will be tested for TPH & BTEX (chlorides for documentation) | on). 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 analytic 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 RAN | KING | | | | | | |
| IS 0. Based on impacted soils excavated/hauled, 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 endan 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 liab | ger | | | | | | |
| 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 | er | | | | | | |
| Gederal, state, or local laws and/or regulations. | | | | | | | |
| OIL CONSERVATION DIVISION | | | | | | | |
| | | | | | | | |
| Signature: Land . | | | | | | | |
| Approved by District Supervisor: | | | | | | | |
| Printed Name: Robert Asher | | | | | | | |
| Stitle: Environmental Regulatory Agent Approval Date: Expiration Date: | | | | | | | |
| | | | | | | | |
| E-mail Address: boba@yatespetrpoleun.com Conditions of Approval: Attached | 15 | | | | | | |
| Date: Tuesday, January 11, 2011 Phone: 575-748-4217 2RP-492 | | | | | | | |
| Date: Tuesday, January 11, 2011 Phone: 575-748-4217 2RP-492 | | | | | | | |

MARTIN YATES, III 1912-1985 FRANK W. YATES 1936-1986

S.P. YATES



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

JOHN A. YATES
CHAIRMAN OF THE BOARD

JOHN A. YATES JR.

SCOTT M. YATES

JAMES S. BROWN

JOHN D. PERINI
CHIEF FINANCIAL OFFICER

G

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.

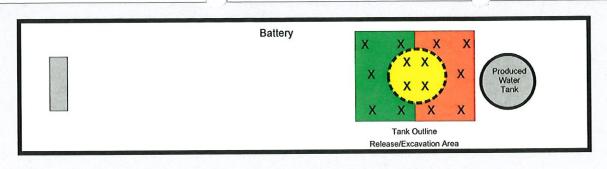
YATES PETROLEUM CORPORATION

Our Ce

Robert Asher
Environmental Regulatory Agent

/rca Enclosure(s)







Well Head

Lease Road

Lease Road

| 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



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 (LA000312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALII), 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

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

Received by OCD: 3/21/2022 10:53:51 AM



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 |

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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 Action the Mains Shale and limits in the Matrix Spike and Matrix Spike Duplicate. Suggested affected a x 14079. Samples affected are: 402939-002, -001, -003. The Laboratory Control Sample for Toluene, m,p-Xylenes, Benzene, Ethylbenzene, o-Xylene is along 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.

Project Id: 30-015-23798 Contact: Robert Asher

Project Location: Eddy County

Certificate of Analysis Summary 402939

Yates Petroleum Corporation, Artesia, NM

Project Name: Rio Penasco RT Com. #1

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

Project Manager: Brent Barron, II

Report Date: 10-JAN-11

| | Lab Id: | 402939-001 | 402939-002 | 402939-003 | 8 |
|------------------------------------|------------|-----------------|----------------------|-----------------|---|
| | Field Id: | Comp-08.0 TB | Comp-06.0 N | Comp-06.0 S | |
| Analysis Kequesied | 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 11:40 | |
| | Units/RL: | mg/kg RL | mg/ | mg/kg RL | |
| Benzene | | ND 0.0010 | | ND 0.0011 | |
| Toluene | | 0.0043 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 | |
| Percent Moisture | 55 | 4.50 1.00 | 6.67 .: 1.00 | 8.17 1.00 | |
| 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 5: 161 | ND 16.3 | |
| C10-C28 Diesel Range Hydrocarbons | - | 180 15.7 | 489 : 161 | ND 16.3 | |
| Total TPH | | 180 15.7 | 489 161 | ND 16.3 | |

William Charles Summy Journal when Comportation, 350 or

5 (E.M. 6.7.889.2.4 (C.))

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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Odessa Laboratory Manager Breff Barron, II

Page 5 of 15.

Final 1.001



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
- POL Practical Quantitation Limit
- * Outside XENCO's scope of NELAC Accreditation.

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| 842 Cantwell Lane, Corpus Christi, TX 78408 | (361) 884-0371 | (361) 884-9116 |

XENCO-Environmental Lab of Texas

Project Name: Rio Penasco RT Com. #1 Phone: 432-563-1800 Fax: 432-563-1713 CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 12600 West I-20 East Odessa, Texas 79765

| | Project Manager: Robert Asher | | | | | | 1 | | | 1 | | | | | | • | | I | | | | | | | | | | |
|----------------------------------|--|---------------|-----------------|-----------------|--|----------------|-----------------|-----------------------|------------------|-----------|--------------------------------|----------|---|------------------|---|---|----------------------|--|------------------------------|--|---|--|-----------|------------|------------|--------|-----------------------------|---------------|
| | Company Name Yates Petroleum Corporation | m Corporatio | ٥ | | | | 17 | | | | | | | | | ď | oject | ∯ # | 9 | Project #: 30-015-23798 | 3798 | | | | | | | I |
| | Company Address: 105 South 4th Street | Street | | | | | + | | | | | 1 | | | | Project Loc: Eddy County | ct Lo | ijĮ | g | Coun | ≥ | 1 | | | 1 | 1 | | 1 |
| | OLC 38 MM Signey A. 1.0 | 8210 | | | | | | | | | | | | | 2 | | P0 | PO #: 105632 | 563 | 7 | | 1 | | | - 1 | - 1 | | 1 |
| | | 2.70 | | | | No. | " | E7E. 748.4669 | 87.87 | 69 | | | | | Reno | Report Format: | mat: | | 1 1 | x Standard | ġ | | TRRP | <u>o</u> . | | NPDES | DES | |
| | Telephone No: 575-748-4217 | | | | | - av 140. | - 1 | 5 | <u>.</u> | 1 | | | - | | | | | | 1 | | ı | | ı | | | | | |
| | Sampler Signature: (| 7 | | | | e-mail: | | 1 | gog | (g | boba@yatespetroleum.com | pet | l Sen | E | اع | L | | | 1 | 4 | Anstyle | i c | | | | Γ | | |
| | P | ۱ | | | | | | | | | | | | | | | | 1 | TOL | 1 | - J | 1 | | 1 | \vdash | T | | |
| (lab use only) | | | | | | | | | | | | | | | | | | ٢ | TOTAL | - | \vdash | - | _ | _ | _ | | sıy ö | |
| ORDER # | # Un 10351 | | | | | | | Ч | Pres | ervati | Preservation & # of Containers | Ö | ontaine | Sign | Matrix | 88 | | \vdash | - | as | | 09 | | _ | _ | | . L '81 | Γ |
| (Vino seu dsi) # 8A | | | Beginning Depth | Ending Depth | Date Sampled | bəlqms2 əmiT | Field Filtered, | Total # of Containers | HNO ³ | HCI . | °OS²H | HOBN | vo ₂ S ₂ O ₃ | Other (Specify) | DW=Drinking Water SL=Skudge GW= Groundwater SL=Skudge | NP=Non-Potable Specify Other TPH: 418.1 8015M 801 | 8001 XT 8001 XT :H9T | Cations (Ca, Mg, Na, K) Anions (Cl, SO4, Alkalinity) | SAR / ESP / CEC | Metals. As Ag Ba Cd Cr Pb Hg | salueloV | Semivolatiles BTEX 8021B/5030 or BTEX 82 | всі | M.R.O.N | Chlorides | | RUSH TAT (Pre-Schedule) 24. | TAT bisbrist2 |
| Ī | Comp-08.0 TB | | œ | ∞ | 1/6/2011 | 1:43 PM | :7: | × | | | | \dashv | \dashv | 1 | S | × | _ | \dashv | + | \Box | \dashv | Ä | | + | + | \Box | × | T |
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| | RUSH TAT - 24 HRS PLEASE. | ASE. | | | | | \exists | + | 4 | \perp | \pm | + | + | 4 | | \dashv | 士 | + | + | 1 | + | + | 1 | + | + | T | | Τ |
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| Special | Special Instructions: TPH: 8 | 8015B, BTI | EX: 8(|)21B. | TPH: 8015B, BTEX: 8021B. Please show ALL results | ALL results as | Ĕ: | as mg/kg. | V 10 | Thank you | you. | | 10 | | | | | Samp /OCs | le C | ontair e of F | Laboratory Comments. Sample Containers Intact? VOCs Free of Headspace? | ntact pace | . ~ | | 300 | | zzz | |
| Relinquished by: | hed by: | Date 01/06/11 | 2:48 | Time 2:48 PM | Received by: | 1 | | | | | | | | ػ | Date | Time | | Susto Susto | S on S on S on S on | contraction of the contraction o | Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) | s) ntaint oler(s | er(s) | | BEEK | | zzz | |
| Robert Asher Relinquished by: | 2 | Date | Ē | Time | Received by: | 2 | | | [7] | | | | | ă | Date | Time | 100 | Samp by by | Sar Sor | and L npler/ rrier? | Sample Hand Delivered by Sampler/Client Rep. 7 | P & G | , L | (Ē) | (B) K | , Å | N one Star | |
| Relinquished by | ihed by: | Date | <u> </u> | Time | Repeived by ELC | OT. GOA | 3 | 7 | 1 | | | | = | Date | | Time . C.Y. | | Lemp | Zerati | Casa G | 7 02 9(4) SS Temperature Upon Receipt: | | Ħ | ., | (V) | _ | ပ္ | |
| _ | くろう | | | | イグイグト | 7 | إ | $\frac{1}{2}$ | | | | | 1 | 1 | 1 | 1 | ţ | 1 | 1 | 1 | | 1 | - | 1 | 1 | | | 1 |



XENCO Laboratories

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

| Document Title: | Sample Receipt Check | ķ |
|-----------------|-----------------------|---|
| DOONING INC. | Official Consider and | |

Document No.: SYS-SRC

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

Effective Date: 6/1/2010

Prelogin / Nonconformance Report - Sample Log-In

| ites letvi | deum | |
|------------|------------------------|-------------------------------|
| 1.7.11 | 11:50 | • |
| 40 | 12939 | |
| | ME | |
| | 1.7.11 1.7.11 40 | 11-7-11 11:50 402939 AE |

Sample Receipt Checklist

| 1. Samples on ice? | Blue . | Water | No | |
|---|------------|-------|-------------|--------------|
| 2. Shipping container in good condition? | Yes | No | None | |
| 3. Custody seeks intact on shipping container (cooler) and bottles? | (Yes) | No | N/A | |
| 4. Chain of Custody present? | Yes | No | | |
| 5. Sample instructions complete on chain of custody? | Yes | No | | |
| 6. Any missing / extra samples? | Yes | (No) | | |
| 7. Chain of custody signed when relinquished / received? | (Y98) | No | | |
| 8. Chain of custody agrees with sample label(s)? | (Yes) | No | 12 | |
| 9. Container labels legible and infact? | (Yes) | No | • | 1.2 |
| 10. Sample matrix / properties agree with chain of custody? | (Yes) | No | 11.0 | Single water |
| 11. Samples in proper container / bottle? | Yes | No | lit. | A CONTRACT |
| 12. Samples properly preserved? | Yes | No | N/A | Jan Strain |
| 13. Sample container intact? | Yes | No | (1) | Todama |
| 14. Sufficient sample amount for indicated test(s)? | Yes | No | 13.5 | 1000 AC |
| 15. All samples received within sufficient hold time? | Yas | No | 1 17 | |
| 16. Subcontract of sample(s)? | Yes | No | (NA) | |
| 17. VOC sample have zero head space? | Yes) | No | NA | |
| 18. Cooler 1 No. Cooler 2 No. Cooler 3 No. | Cooler 4 N | o. | Cooler 5 No | •• |
| Hos 3, 1 °C Hos °C Hos ° | C lbs | 00 | lbs | 0 |

Nonconformance Documentation

| Contact: | Contacted by: | Date/Time: | |
|--------------------------|---------------|------------|--|
| Regarding: | | | |
| Corrective Action Taken: | | | |
| | | | |
| | | | |

Received by OCD: 3/21/2022 10:53:51 AM

Check all that apply: Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.2.1.

- □ 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



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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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 (AALII), 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,

Received by OCD: 3/21/2022 10:53:51 AM

Brent Barron, II

Odessa Laboratory Manager

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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 |

XENCO Laboratories

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

Final 1.000

Project Id: 30-015-23798 Contact: Robert Asher

Project Location: Eddy County

Certificate of Analysis Summary 402129

Yates Petroleum Corporation, Artesia, NM

Project Name: Rio Penasco RT Com. #1

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

Report Date: 04-JAN-11

Project Manager: Brent Barron, II

| | Lab Id: | 402129-001 | 402129-002 | 402129-003 | 7 | |
|------------------------------------|------------|-----------------|-----------------|-----------------|---|---|
| | Field Id: | Comp-8.0 TB | Comp-06.0 N | Comp-06.0 S | | |
| Analysis Kequestea | 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 | | , |
| | Analyzed: | Dec-30-10 15:04 | Dec-30-10 16:14 | Dec-30-10 17:25 | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | |
| Benzene | | ND 0.0011 | ND 0.0011 | ND 0.0011 | | |
| Toluene | | 0.0054 0.0022 | 0.0101 0.0022 | ND 0.0022 | | |
| Ethylbenzene | | 0.0029 0.0011 | 0.0087 0.0011 | ND 0.0011 | | |
| m,p-Xylenes | | 0.0275 0.0022 | 0.0712 0.0022 | 0.0061 0.0022 | | |
| o-Xylene | | 0.0115 0.0011 | 0.0290 0.0011 | 0.0027 0.0011 | | |
| Xylenes, Total | | 0.0390 0.0011 | 0.1002 0.0011 | 0.0088 0.0011 | | |
| Total BTEX | | 0.0473 0.0011 | 0.1190 0.0011 | 0.0088 0.0011 | | - |
| Percent Moisture | Extracted: | | | | | |
| | Analyzed: | Dec-30-10 11:00 | Dec-30-10 11:00 | Dec-30-10 11:00 | | |
| | Units/RL: | % RL | % RL | | | |
| Percent Moisture | | 9.62 1.00 | 8.01 1.00 | 9.50 1.00 | | |
| TPH by SW 8015B | Extracted: | Jan-03-11 12:00 | Jan-03-11 12:00 | Jan-03-11 12:00 | | |
| | Analyzed: | Jan-03-11 19:42 | Jan-04-11 08:23 | Jan-03-11 20:45 | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | |
| C6-C10 Gasoline Range Hydrocarbons | | ND 16.5 | 20.9 16.3 | ND 16.6 | | |
| C10-C28 Diesel Range Hydrocarbons | | 36.2 16.5 | 119 16.3 | 29.7 16.6 | 0 | |
| Total TPH | | 36.2 16.5 | 140 16.3 | 29.7 16.6 | | |

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

COLORS WHILLIAN The state of the s

Odessa Laboratory Manager Brent Barron, II

Page 5 of 15

Final 1.000



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

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MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

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XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Phone: 432-563-1800 Odessa, Texas 79765

Standard TAT COOOD STATE OF STATE NPDES RUSH TAT (Pic-Schedule) 24, 48, 72 hrs 3. Project Name: Rio Penasco RT Com. #1 Sabinold TRRP M.A.O.M. BCI Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s) 7 02 4 1755 Temperature Upon Receipt VOCs Free of Headspace? STEX 8021B/5030 or BTEX 8260 Sample Containers Intact? Sample Hand Delivered by Sampler/Client Rep. by Couner? UPS aboratory Comments: Project #: 30-015-23798 x Standard Project Loc: Eddy County Metals: As Ag Ba Cd Cr Pb Hg Se PO #: 105632 TCLP Anions (CI, SO4, Alkalinity) Cations (Ca. Mg, Na. K) Report Format: 9001 XT 2001 XT :Hq1 9.8 Time × × 89108 M3108 1.814 .HqT Specify Other Matrix S S J1.05.21 DW=Drinking Waler SL=Studge boba@yatespetroleum.com Date Other (Specify) Preservation & # of Containers Na₂S₂O₃ HOBN *OS*H Thank you нсі 575-748-4662 HNO3 mil 901 × TPH: 8015B, BTEX: 8021B. Please show ALL results as mg/kg. otal #. of Containers eld Filtered Fax No: e-mail: 10:43 AM 10:53 AM 11:03 AM Time Sampled 12/29/2010 12/29/2010 12/29/2010 Received by: Received by: Date Sampled Ending Depth ŏ ٥ ō 1:47 PM Ime Time Time Beginning Depth ŵ ō ò Yates Petroleum Corporation 12/29/10 Date Date Date Company Address: 105 South 4th Street Artesia, NM 88210 RUSH TAT - 72 HRS PLEASE. 575-748-4217 Robert Asher Comp-08.0 TB Comp-06.0 N Comp-06.0 S FIELD CODE UNTING Sampler Signature: Project Manager: Company Name PORIT Telephone No: City/State/Zip: pecial Instructions: elinquished byelinquished by elinquished by lab use only) ORDER #: Robert Asher (<u>;</u> 5 (klno esu dal) # 8A

Final 1.000



XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas

Phoenix, San Antonio, Tampa

| Document Title: | Sample Receipt Checklist |
|-----------------|--------------------------|

Document No.: SYS-SRC

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

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

Prelogin / Nonconformance Report - Sample Log-In

| . Client: | lates | Petrole | UM7 | |
|------------|-------|---------|------|---|
| Date/Time: | .12 | 30.10 | 9:30 | ٠ |
| Lab ID#: | | 40.21 | 79 | |
| Initials: | | -At | ٧ | |

Sample Receipt Checklist

| . Samples on ice? | Blue . | (Water) | No | |
|---|----------|---------|-------------|-------------------------|
| 2. Shipping container in good condition? | Yes | No | None | |
| t. Custody seals intact on shipping container (cooler) and bottles? | (Yes) | No | NA | |
| I. Chain of Custody present? | Yes | No | | |
| 5. Sample instructions complete on chain of custody? | (Yes) | No | | |
| 6. Any missing / extra samples? | Yes | No | , | |
| 7. Chain of custody signed when relinquished / received? | (Yes) | No | | |
| 8. Chain of custody agrees with sample label(s)? | (Yes) | No | | · |
| 9. Container labels legible and intact? | Yes | No | | 90 |
| 10. Sample matrix / properties agree with chain of custody? | (Yes) | No | 1971 | * , en (* 1.47 5 5 1.49 |
| 11. Samples in proper container / bottle? | (Yes) | No | 1, 11 | Section 1 |
| 12. Samples properly preserved? | Yes | No | N/A | |
| 13. Sample container intact? | (Yes) | No | | 2 1 32 No 30 € |
| 14. Sufficient sample amount for indicated test(s)? | Yes | No | | |
| 15. All samples received within sufficient hold time? | Yes | No | | |
| 16. Subcontract of sample(s)? | Yes | No | (NA) | |
| 17. VOC sample have zero head space? | Yes | No | NA | 1 - 1 - 20 1. |
| 18. Cooler 1 No. Cooler 2 No. Cooler 3 No. | Cooler 4 | ło. | Cooler 5 No | ų· |
| ibs 3.0°c ibs °c ibs | °C Ib | 9 | lbs | |

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



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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Xenco-Houston (EPA Lab code: TX00122):

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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)

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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 |

Received by OCD: 3/21/2022 10:53:51 AM

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:

Sample receipt Non Conformances and Comments per Sample:

None

Project Id: 30-015-23798 Contact: Robert Asher

Project Location: Eddy County

Certificate of Analysis Summary 399990

Yates Petroleum Corporation, Artesia, NM

Project Name: Rio Penasco RT Com. #1

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

Project Manager: Brent Barron, II

Report Date: 15-DEC-10

| | Lab Id: | 399990-001 | 399990-002 | 39990-003 | |
|-----------------------------|------------|-----------------|-----------------|-----------------|---|
| | Field Id: | Comp-01.0 | Comp-01.5 | Comp-02.0 | |
| Analysis Kequestea | 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 | |
| Chloride | | 802 20.0 | 953 24.9 | 35.1 10.0 | |
| Percent Moisture | Extracted: | | i i | | |
| | Analyzed: | Dcc-10-10 08:25 | Dcc-10-10 08:25 | Dec-10-10 08:25 | |
| | Units/RL: | % RL | % RL | % RL | |
| Percent Moisture | | 16.1 1.00 | 15.8 1.00 | 16.2 1.00 | |
| | | | | | |

Odessa Laboratory Manager Brent Barron, II

Page 5 of 11

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37550000 CX 511 0 -

Final 1.000

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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.
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BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Odessa, Texas 79765

12600 West I-20 East

Received by OCD: 3/21/2022 10:53:51 AM

XENCO-Environmental Lab of Texas

Standard TAT NPDES RUSH TAT (Pre-Schedule) 24, 48, 72 hrs 5 ¥ Chlorides Project Name: Rio Penasco RT Com. M.A.O.N TRRP Labels on container(s)
Custody seals on confainer(s)
Custody seals on cooler(s)
Sample Hand Delivered
by Sampler/Client Rep. ?
by Courier?
UPS DH BCI イロン くいるいこと Temperature Upon Receipt × × VOCs Free of Headspace? B1EX 8021B/2030 of B1EX 8260 Sample Containers Intact? Analyze For Project #: 30-015-23798 X Standard Project Loc: Eddy County Metals: As Ag Ba Cd Cr Pb Hg Se PO #: 105632 SARIESPICEC Inions (CI. SO4, Alkalinity) Cations (Ca. Mg. Na, K) Report Format: 50:00 3001 XT **TX 1005** :Hd1 1.814 :HaI × × 89108 M2108 Specify Other S S S W=Drinking Water SL=Sludge Date Date boba@yatespetroleum.com Please show ALL results as mg/kg. Thank you Other (Specify) Na₂S₂O₃ HOBN OSEH нсі 575-748-4662 Visdock 4иО3 90| × otal #. of Containers eld Fillered e-mail: Fax No: 10:44 AM 10:59 AM 11:09 AM Time Sampled Received by ELOT: TPH: 8015B, BTEX: 8021B & Chlorides. 12/8/2010 12/8/2010 12/8/2010 Received by: Date Sampled 24" 12" 18" Ending Depth 2:05 PM Time lime 24" 12" 18 Beginning Depth Yates Petroleum Corporation 12/08/10 Date Date 105 South 4th Street Artesia, NM 88210 Chlorides 399990 Please put chlorides on separate report 575-748-4217 Robert Asher Comp-01.5 FIELD CODE Comp-02.0 Comp-01.0 Company Address: Sampler Signature: ORDER #: 399988 Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: Relinquished by: Robert Asher Relinquished by: Relinquished by: lab use only (Ylno əsu del) # 8A

2-9-10





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

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

| | Prelogin / Nonc | onformance F | Report | - Sample | e Log-In | | |
|-----------------------------|---------------------------|---------------------|--------|------------|-------------|--------------|----|
| client: Yales Pet | roleiim | | | | • | | |
| Data/Time: 12 -Cr. 1C | 20 | | | | | | |
| Lab ID#: 39988/ | 1 Chlorides 399990 | | | | | | |
| Initials: 🖟 M | | | | | | | |
| | S | ample Receipt | Checki | ist | | | |
| 1. Samples on ice? | | | | Blue | Water | No | |
| 2. Shipping container in g | good condition? | | | Yes | No | None | |
| 3. Custody seals intact on | | ooler) and bottles? | | Yes | No | N/A | |
| 4. Chain of Custody prese | ent? | | | Yes | No | | |
| 5. Sample instructions co | mplete on chain of cus | tody? | 7 | Yes | No | | |
| 6. Any missing / extra san | mples? | (A) (A) (A) (A) | | Yes | No | | |
| 7. Chain of custody signe | ed when relinquished / I | eceived? | | Yes | No | | |
| 8. Chain of custody agree | es with sample label(s)? | · | | Yes | No | | |
| 9. Container labels legible | e and intact? | | | Yes | . No | 1 | |
| 10. Sample matrix / prope | erties agree with chain | of custody? | | Yes | No · | | |
| 11. Samples in proper co | ntainer / bottle? | Yes | No | | | | |
| 12. Samples properly pre | served? | Yes | No | N/A | * ***** | | |
| 13. Sample container inta | ict? | | | Yes | No | | |
| 14. Sufficient sample amo | ount for indicated test(s | ;)? | | Yes | No | | |
| 15. All samples received | within sufficient hold ti | me? | | (Yes-) | No | | |
| 16. Subcontract of sampl | le(s)? | | | Yes | No | N/A | |
| 17. VOC sample have zer | o head space? | | | Yes | No | (N/A) | |
| 18. Cooler 1 No. | Cooler 2 No. | Cooler 3 No. | | Cooler 4 N | 0. | Cooler 5 No. | |
| lbs 1.5 °c | lbs °C | lbs | °C | lbs | °c | lbs | °C |
| | None | conformance D | ocume | ntation | | | |
| Contact: | Contacted b | y: | | | Date/Time:_ | | |
| Regarding: | | | | | | | |
| | | | | | | | |
| Corrective Action Taken | <u> </u> | | | | | | |
| | | | | | | | |
| | | | | | | | |

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



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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Xenco-Houston (EPA Lab code: TX00122):

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Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALII), 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 reanalysis. 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

Project Id: 30-015-23798 Contact: Robert Asher

Project Location: Eddy County

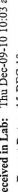
Certificate of Analysis Summary 399988

Yates Petroleum Corporation, Artesia, NM

Project Name: Rio Penasco RT Com. #1

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

Project Manager: Brent Barron, II Report Date: 15-DEC-10



| Analysis Requested Field Id: Depth: Matrix: Sampled: BTEX by EPA 8021 Extracted: Analyzed: | Comp-01.0 | Comp-01 5 | | | | |
|--|-----------------|-----------------|-----------------|---|---|--|
| Depth: Matrix: Sampled: Extracted: Analyzed: | | Crro dimo | Comp-02.0 | | 2 | |
| Matrix: Sampled: Extracted: Analyzed: | 12-12 In | 18-18 In | 24-24 In | | | |
| Sampled: Extracted: Analyzed: | SOIL | SOIL | SOIL | 7 | | |
| Extracted: Analyzed: | Dec-08-10 10:44 | Dec-08-10 10:59 | Dec-08-10 11:09 | | | |
| | Dec-14-10 12:20 | Dec-14-10 14:10 | Dec-14-10 12:20 | - | | |
| | 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 | | | |
| Benzene | 1.490 0.6008 | 1.520 0.5986 | 3.992 0.5931 | | | |
| Toluene | 44.60 1.202 | 73.98 1.197 | 43.78 1.186 | | | |
| Ethylbenzene | 31.58 0.6008 | 41.32 0.5986 | 47.90 0.5931 | | | |
| m,p-Xylenes | 164.3 1.202 | 229.3 1.197 | 176.5 1.186 | | | |
| o-Xylenc | 45.18 0.6008 | 65.82 0.5986 | 13.83 0.5931 | | | |
| Xylenes, Total | 348.7 0.6008 | 493.0 0.5986 | 320.9 0.5931 | | | |
| Total BTEX | 477.9 0.6008 | 688.2 0.5986 | 482.2 0.5931 | | | |
| Percent Moisture Extracted: | | 1 | | | | |
| Analyzed: | Dec-10-10 08:25 | Dec-10-10 08:25 | Dec-10-10 08:25 | | | |
| Units/RL: | % RL | % RL | % RL | | | |
| Percent Moisture | 16.1 1.00 | 15.8 1.00 | 16.2 1.00 | | | |
| TPH by SW 8015B 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 | | | |
| C6-C10 Gasoline Range Hydrocarbons | 3670 179 | 6110 179 | 2130 89.1 | | | |
| C10-C28 Diesel Range Hydrocarbons | 1490 179 | 3630 179 | | | | |
| 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 interpertations and results expressed throughout this manifyidial report represent the best judgmen 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.

Charles Canadas Samana Carlos

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

Odessa Laboratory Manager Brent Barron, II

Page 5 of 16

Final 1.000



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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XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
12600 West I-20 East Phone: 432-563-1800
Odessa, Texas 79765

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| Project Name: Rio Penasco KI Com. #1 | | | | RP | | | | | м.я.о.и | | | | | | | | | # | # | # | 1 | 1 | 1 | J | 00 | ہ ج | ' |
| <u>z</u> | | | | TRRP | | ö. | П | 097 | B1EX 8021B/5030 or B1EX 82 | × | × | × | | | | | | \pm | \pm | | † | \pm | \exists | ict? | Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) | Sp. 7 | Sist Seipt: |
| 3800 | 798 | | | _ | | Analyze For | \mathbb{H} | | Volatiles Semivolatiles | + | - | | | - | - | + | \dashv | + | + | + | + | + | | Laboratory Comments. Sample Containers Intact? VOCs Free of Headspace? | ner(s) n coole | Sample Hand Delivered by Sampler/Client Rep. ? by Counier | イックラン Cinestante UpontReceipt: |
| Pens | Project #: 30-015-23798 | Project Loc: Eddy County | 2 | X Standard | | | 61.1 | θS | Metals: As Ag Ba Cd Cr Pb Hg | | | | | | | | 1 | 1 | | ‡ | # | # | | ontaine ontaine | contai eals or | and De mpler/C urier? | ure Up |
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| Pro | | ш. | | Report Format: | ε | | | Matrix | DW=Drinking Water SL=SoiVSoid GW = Groundwater S=SoiVSoid HP=Non-Polable Specify Other | S | S | S | | | | | | | | | | | | j | al a | e e | 5 |
| | | | | - | boba@yatespetroleum.com | | | ers | None Other (Specify) | | | | | | | | | \Box | | - | 7 | \exists | 7 | Thank you. | Date | Date | Date (|
| | | | | | troleu | | | Proservation & # of Containers | €O _s S _s BN | | | | | | | | | | 1 | \pm | \pm | \pm | | | - | | - |
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| - | | | | 8-466 | oba(| | | Proser | *ONH | | | | | | | | | | | | | | | sta . | 1 | | lock |
| 1 | | | | 575-748-4662 | Ω | | | Ц | 100 | × | × | - | - | - | _ | | | - | - | 1 | + | 4 | \dashv | . es | 1 | | 2 |
| | 1 | 1 | | 12 | | | | - | Field Filtered | - | - | - | \vdash | \vdash | | \vdash | | | \dashv | \dashv | + | \dashv | \dashv | , AL | 1 | | Misa |
| | | | | Fax No: | e-mail: | <u>.</u> | | | Time Sampled | 10:44 AM | 10:59 AM | 11:09 AM | | | | | | a contract desired | | | | | | Please show ALL results as mg/kg. | | | Lin 1 |
| | | | | | | | | | Dsfe Sampled | 12/8/2010 | 12/8/2010 | 12/8/2010 | | | | | | and the second of the second o | 1.0 | | | | | & Chlorides. | Received by: | Received by: | Received by ELOT |
| | | | | | | | | | nding Depth | 12" | 200 | 14 | | | | | | | | | | | | B | Time :05 PM | e. | Time |
| | ion | | | | , | | | | չ թ ցյուրյոց Depth | 12" | 181 | 24" | | | | | | | | | | | | IEX: 80 | Time 2:05 PM | Time | <u> </u> |
| | eum Corporat | n Street | 88210 | (| 7 | | Sap | 0 | | | | | | | | | | | | | | Se | t | TPH: 8015B, BTEX: 8021 | Date 12/08/10 | Date | Date |
| Project Manager: Robert Asher | Company Name Yates Petroleum Corporation | Company Address: 105 South 4th Street | ate/Zip: Artesia, NM 88210 | | | sampler signature: | sapivolyo , | ORDER#: 399988/399990 | 1 - | Comp-010 | 2.00 gmo | Comp-01.3 | 0.50-0.00 | | | | | | | - | | Please put chlorides | on separate report | | 0001100 | No. no. | |
| Project | Compa | Compa | City/State/Zip: | Teleph | | Sample | (Aluo | R#: 3 | > | | | | | | 1 | | | | | | | | | Special Instructions: | | Robert Asher Relinquished by: | Relinquished by: |
| | | | | | | | (lab use only) | ORDE | ₽В # (Isp nse only) | ٦ | | | | | | | | | | | | | | Special | Relinqui | Relinqui | Relinqui |



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| Document Ti | tle. Sam | nole Rem | aint Checklie |
| Document 11 | uc. Can | Thic I tech | TIPE Officering |

Document No.: SYS-SRC

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

Effective Date: 6/1/2010

Prelogin / Nonconformance Report - Sample Log-In

| client: Yates Petroleum | |
|--------------------------|--|
| Date/Time: [2 - 4 - 10 | |
| Lab ID#: 399988 / 399990 | |
| Initials: 🗶 M | |

Sample Receipt Checklist

| 1. Samples on ice? | Blue | (Water) | No | |
|---|-------------|---------|--------------|------------------|
| 2. Shipping container in good condition? | Yes | No | None | |
| 3. Custody seals intact on shipping container (cooler) and bottles? | Yes | No | N/A | |
| 4. Chain of Custody present? | Yes | No | | |
| 5. Sample instructions complete on chain of custody? | Yes | No | | |
| 6. Any missing / extra samples? | Yes | (No) | | |
| 7. Chain of custody signed when relinquished / received? | Yes | No | | |
| 8. Chain of custody agrees with sample label(s)? | Yes | No | | |
| 9. Container labels legible and intact? | (Yes) | : No | | · · · i design |
| 10. Sample matrix / properties agree with chain of custody? | Yes | . No | . (11, 5, | r (jile malije e |
| 11. Samples in proper container / bottle? | Yes | Nò | 11, % | 20.80.14 digit |
| 12. Samples properly preserved? | Yes | No | | 19:15 (19:19) |
| 13. Sample container intact? | (Yes.) | No | | i e s signi. |
| 14. Sufficient sample amount for indicated test(s)? | Yes | No | | 1 4 |
| 15. All samples received within sufficient hold time? | (Yes-) | No | | |
| 16. Subcontract of sample(s)? | Yes | (No) | N/A | |
| 17. VOC sample have zero head space? | Yes | No | (N/A) | - |
| 18. Cooler 1 No. Cooler 2 No. Cooler 3 No. | Cooler 4 No | 0. | Cooler 5 No. | |
| lbs 1.5 °c lbs °c lbs °c | lbs | °c | lbs | °C |

Nonconformance Documentation

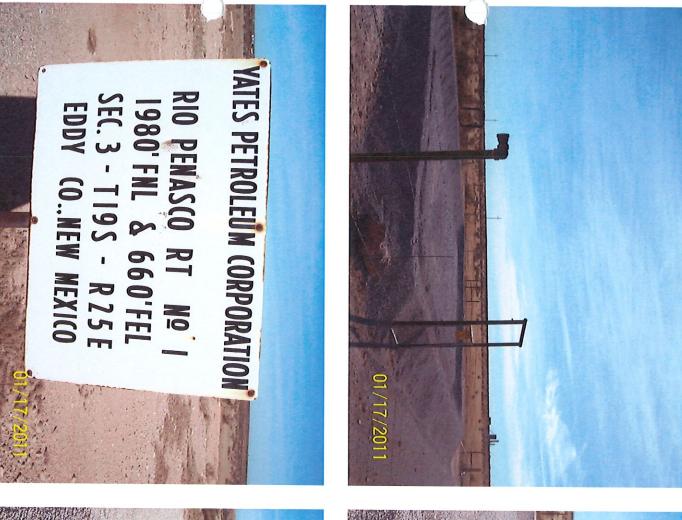
| Contact: | Contacted by: | Date/Time: |
|----------|---------------|------------|
| | | |
| | | |
| | | |
| | | |

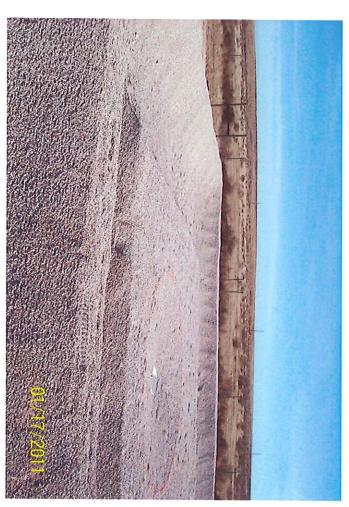
Check all that apply:

□ 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

 \Box Client understands and would like to proceed with analysis

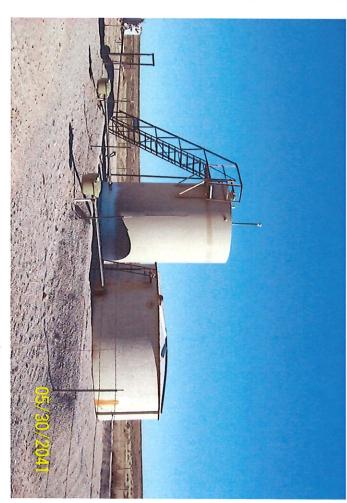


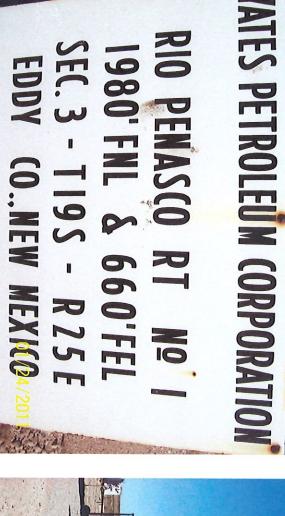


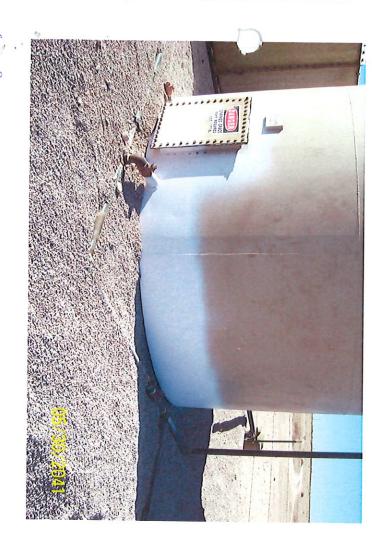












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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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: | OGRID: |
|------------------------------------|---|
| EOG RESOURCES INC | 7377 |
| P.O. Box 2267 Midland, TX 79702 | Action Number: 91550 |
| Wildiand, 1X 79702 | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

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