

MARTIN YATES, III  
1912-1985

FRANK W. YATES  
1936-1986

S.P. YATES  
1914-2008



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

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August 26, 2011

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

Re: Cohiba BPY State #1  
2RP-817  
30-015-33999  
Section 1, T25S-R27E  
Eddy County, New Mexico



Dear Mr. Bratcher:

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated June 16, 2011.

**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 August 29, 2011.**

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

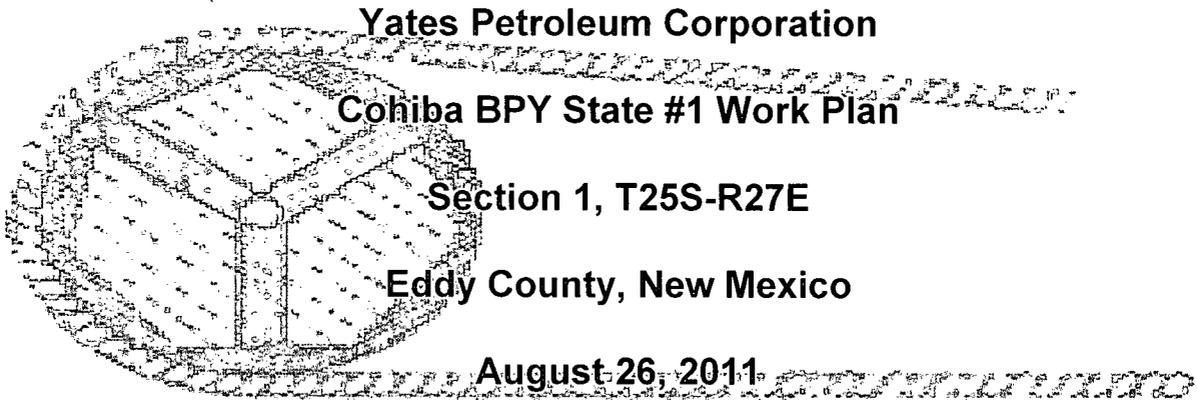
Thank you.

YATES PETROLEUM CORPROATION

Robert Asher  
Senior Environmental Regulatory Agent

Enclosure(s)

**RECEIVED**  
AUG 26 2011  
NMOCD ARTESIA



**Yates Petroleum Corporation**

**Cohiba BPY State #1 Work Plan**

**Section 1, T25S-R27E**

**Eddy County, New Mexico**

**August 26, 2011**

**I. Location**

The well is located approximately 8 miles southwest of Malaga, NM and 0.5 miles west of Roadrunner Road (CR 774), as represented by the attached Bond Draw, NM, USGS Quadrangle Map.

**II. Background**

On June 16, 2011, Yates submitted to the NMOCD District II office a Form C-141 for a release of 5 B/PW with 4 B/PW recovered. The total affected area is approximately 100 feet by 120 feet area (off of the southwest side of the battery). The release was from a ploy line riser that failed due to possible line pressure increase. A contractor scraped up approximately 6" of impacted soils; those impacted soils were taken to an NMOCD approved facility. Initial delineation samples were taken (7/20/2011) and sent to an NMOCD approved laboratory (7/27/2011, results enclosed).

**III. Surface and Ground Water**

Area surface geology ranges from Cenozoic to Paleozoic. The nearest groundwater of record is listed on the New Mexico Office of the State Engineer (Section 22, T24S-R27E) shows depth to groundwater approximately 70 feet making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is ten (10) based on the as following:

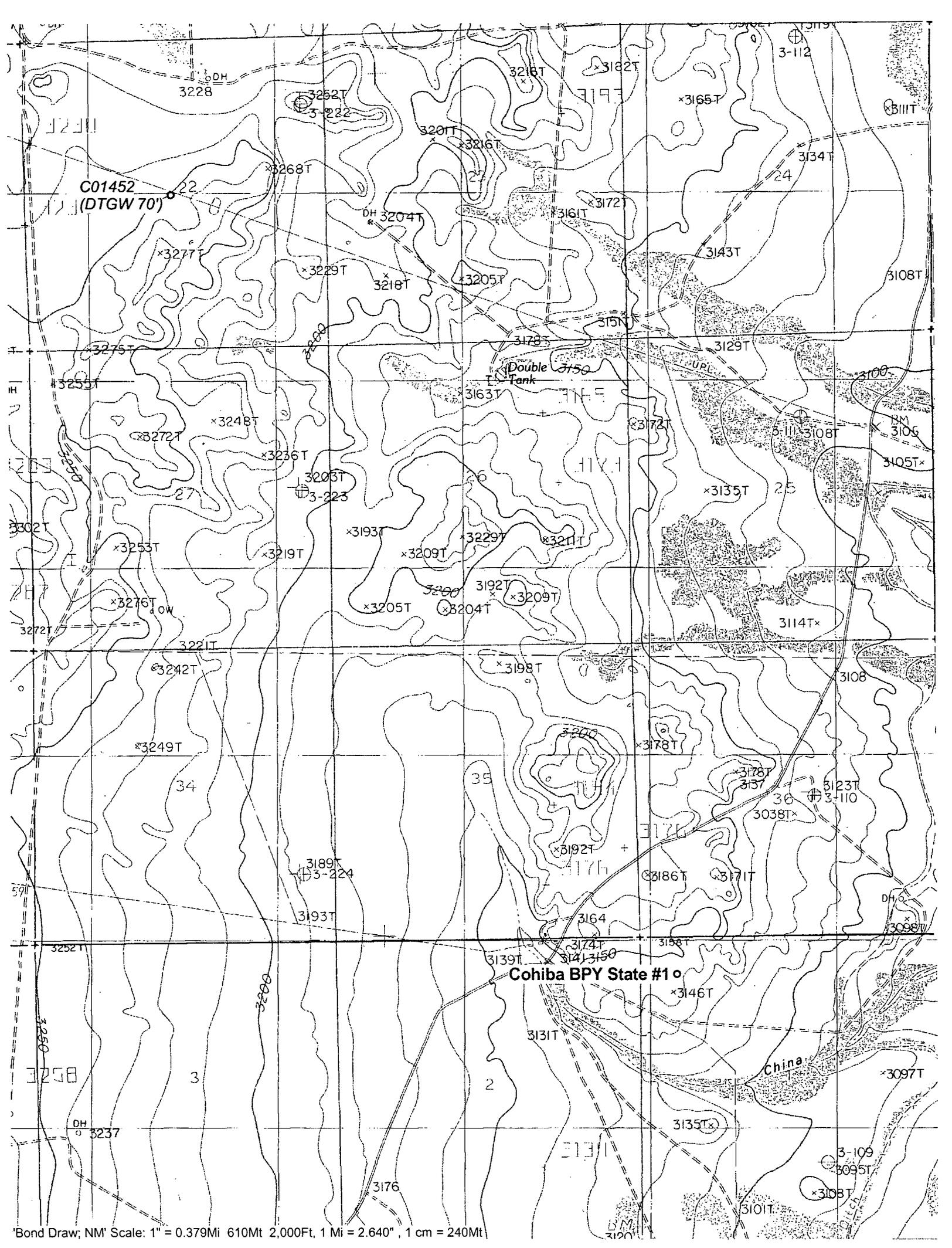
|                                |         |
|--------------------------------|---------|
| Depth to ground water          | 50-99'  |
| Wellhead Protection Area       | > 1000' |
| Distance to surface water body | > 1000' |

**IV. Soils**

The area consists of soils that are caliche and loamy top soil and are 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 will conduct vertical delineation sampling. These samples will be taken to show decreasing levels of chlorides. Yates will have a contractor bring in clean soils and blend with the first twenty (24) inches of soil to dilute chloride impaction and create a medium more suited for native plant levels (samples will be taken and ran for chlorides for documentation). The initial sample results ran on July 20, 2011 for TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of ten (10), no further analytical testing of TPH and or BTEX will be conducted. When remediation work is completed a C-141, Final Report, analytical results and a site sample diagram will be submitted to the NMOCD and request closure of the site. Upon Final C-141 approval the excavation will be backfilled with clean, like materials.

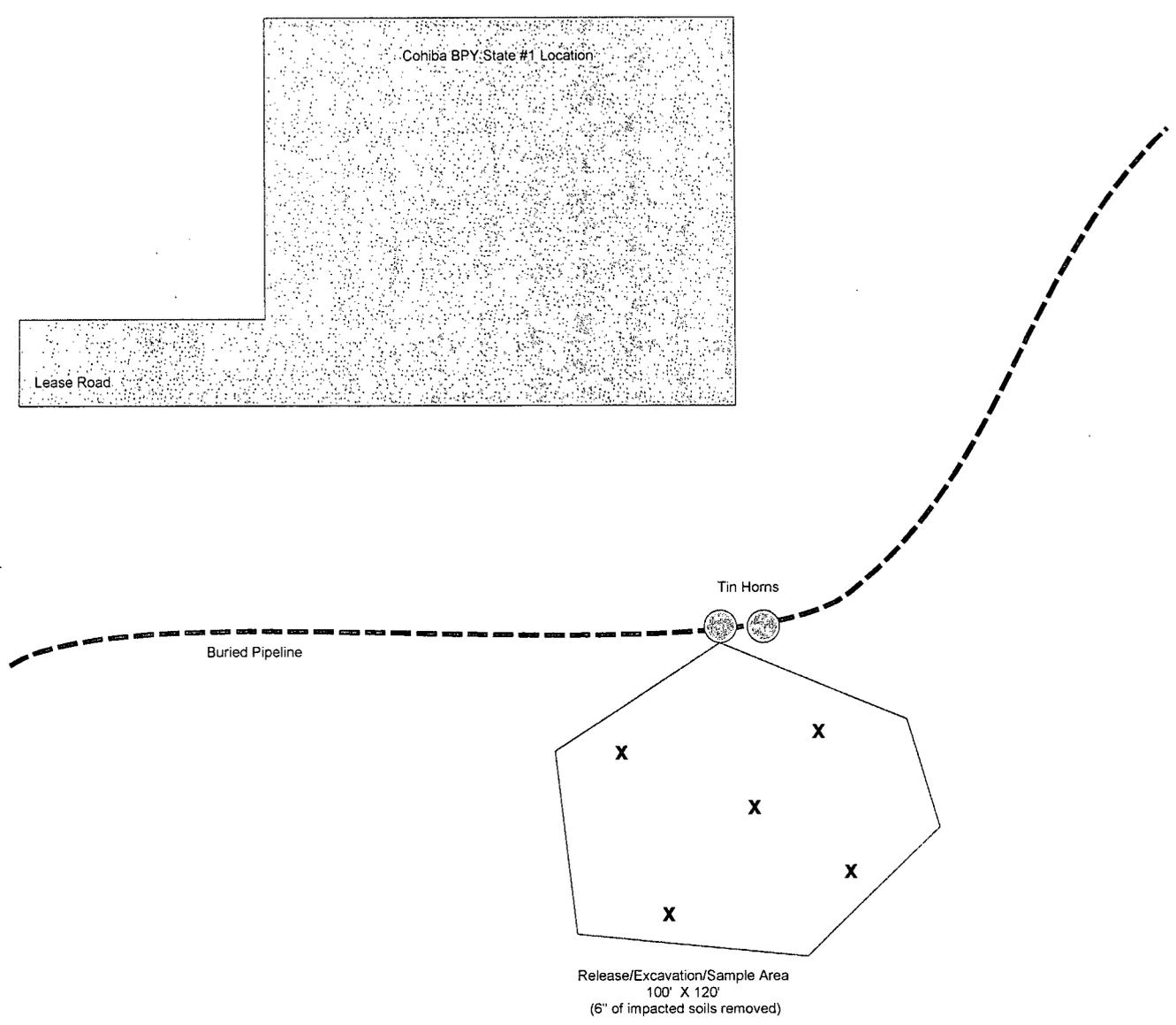


C01452  
(DTGW 70)

Cohiba BPY State #1

China

Double Tank



| Analytical Report-<br>424110 & 424111 | Sample Area  | Sample Date | Sample Type | Depth         | BTEX | GRO | DRO | TOTAL | Chlorides |
|---------------------------------------|--------------|-------------|-------------|---------------|------|-----|-----|-------|-----------|
| Comp-00.5                             | Release Area | 7/20/2011   | Comp/Auger  | 6" (12" BSL)  | ND   | ND  | ND  | ND    | 2740      |
| Comp-01.0                             | Release Area | 7/20/2011   | Comp/Auger  | 12" (18" BSL) | ND   | ND  | ND  | ND    | 3360      |

**Site Ranking is Ten (10).** Depth to Ground Water 50-99' (approx. 70', per Trend Map).

All results are ppm. **X - Sample Points** BLS - Below Surface Level

Released: 5 B/PW; Recovered: 4 B/PW. Release Date: 6/8/2011



**Cohiba BPY State #1**  
**30-015-33999**  
**Section 1, T25S-R27E**  
**Eddy County, NM**

**SAMPLE DIAGRAM(Not to Scale)**  
**Xenco Laboratories# 424110 & 424111**  
**Report Date: 7/27/2011**  
**Prepared by Robert Asher**  
**Environmental Regulatory Agent**

# Analytical Report 424110

for

## Yates Petroleum Corporation

Project Manager: Robert Asher

Cohiba BPY State #1

30-015-33999

27-JUL-11

Collected By: Client



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

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), 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)

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

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



27-JUL-11

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

Reference: XENCO Report No: **424110**  
**Cohiba BPY State #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 424110. 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. 424110 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.*

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**Sample Cross Reference 424110**



**Yates Petroleum Corporation, Artesia, NM**  
Cohiba BPY State #1

| <b>Sample Id</b> | <b>Matrix</b> | <b>Date Collected</b> | <b>Sample Depth</b> | <b>Lab Sample Id</b> |
|------------------|---------------|-----------------------|---------------------|----------------------|
| Comp-00.5        | S             | 07-20-11 10:57        | 1 - 1 ft            | 424110-001           |
| Comp-01.0        | S             | 07-20-11 11:06        | 1.5 - 1.5 ft        | 424110-002           |



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Cohiba BPY State #1*



*Project ID: 30-015-33999*

*Report Date: 27-JUL-11*

*Work Order Number: 424110*

*Date Received: 07/23/2011*

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analysis Summary 424110

Yates Petroleum Corporation, Artesia, NM

Project Name: Cohiba BPY State #1



Project Id: 30-015-33999

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Sat Jul-23-11 04:00 pm

Report Date: 27-JUL-11

Project Manager: Brent Barron, II

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 424110-001      | 424110-002      |  |  |  |  |
|------------------------------------|-------------------|-----------------|-----------------|--|--|--|--|
|                                    | <i>Field Id:</i>  | Comp-00.5       | Comp-01.0       |  |  |  |  |
|                                    | <i>Depth:</i>     | 1-1 ft          | 1.5-1.5 ft      |  |  |  |  |
|                                    | <i>Matrix:</i>    | SOIL            | SOIL            |  |  |  |  |
|                                    | <i>Sampled:</i>   | Jul-20-11 10:57 | Jul-20-11 11:06 |  |  |  |  |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | Jul-25-11 11:39 | Jul-25-11 11:39 |  |  |  |  |
|                                    | <i>Analyzed:</i>  | Jul-25-11 17:07 | Jul-25-11 17:29 |  |  |  |  |
|                                    | <i>Units/RL:</i>  | mg/kg      RL   | mg/kg      RL   |  |  |  |  |
| Benzene                            |                   | ND    0.00101   | ND    0.00102   |  |  |  |  |
| Toluene                            |                   | ND    0.00202   | ND    0.00204   |  |  |  |  |
| Ethylbenzene                       |                   | ND    0.00101   | ND    0.00102   |  |  |  |  |
| m_p-Xylenes                        |                   | ND    0.00202   | ND    0.00204   |  |  |  |  |
| o-Xylene                           |                   | ND    0.00101   | ND    0.00102   |  |  |  |  |
| Total Xylenes                      |                   | ND    0.00101   | ND    0.00102   |  |  |  |  |
| Total BTEX                         |                   | ND    0.00101   | ND    0.00102   |  |  |  |  |
| <b>Percent Moisture</b>            | <i>Extracted:</i> |                 |                 |  |  |  |  |
|                                    | <i>Analyzed:</i>  | Jul-25-11 12:25 | Jul-25-11 12:25 |  |  |  |  |
|                                    | <i>Units/RL:</i>  | %          RL   | %          RL   |  |  |  |  |
| Percent Moisture                   |                   | 1.34    1.00    | 2.18    1.00    |  |  |  |  |
| <b>TPH By SW8015B Mod</b>          | <i>Extracted:</i> | Jul-25-11 11:45 | Jul-25-11 11:45 |  |  |  |  |
|                                    | <i>Analyzed:</i>  | Jul-25-11 17:06 | Jul-25-11 17:34 |  |  |  |  |
|                                    | <i>Units/RL:</i>  | mg/kg      RL   | mg/kg      RL   |  |  |  |  |
| C6-C10 Gasoline Range Hydrocarbons |                   | ND    15.2      | ND    15.3      |  |  |  |  |
| C10-C28 Diesel Range Hydrocarbons  |                   | ND    15.2      | ND    15.3      |  |  |  |  |
| Total TPH                          |                   | ND    15.2      | ND    15.3      |  |  |  |  |

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

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

  
 Brent Barron, II  
 Odessa Laboratory Manager



# Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect 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 quantitation limit and above the detection limit.
- 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      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238  
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5757 NW 158th St, Miami Lakes, FL 33014  
12600 West I-20 East, Odessa, TX 79765  
6017 Financial Drive, Norcross, GA 30071  
3725 E. Atlanta Ave, Phocnix, AZ 85040

| Phone          | Fax            |
|----------------|----------------|
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| (214) 902 0300 | (214) 351-9139 |
| (210) 509-3334 | (210) 509-3335 |
| (813) 620-2000 | (813) 620-2033 |
| (305) 823-8500 | (305) 823-8555 |
| (432) 563-1800 | (432) 563-1713 |
| (770) 449-8800 | (770) 449-5477 |
| (602) 437-0330 |                |



Lisa Murdock <lisa.murdock@xenco.com>

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## Cohiba BPY State #1

2 messages

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Lisa Murdock <lisa.murdock@xenco.com>  
To: boba@yatespetroleum.com

Mon, Jul 25, 2011 at 11:15 AM

Robert,  
Just verifying our phone conversation that there is no sample #3 and that sample #1 should read Comp-00.5 and was taken 07/20/11 at 10:57 rather than reading GS/Comp-001 taken 04/2011 at 9:14 and Sample #2 should read Comp-01.0 and was taken 07/20/11 at 11:06 rather than reading GS/Comp-002 taken 04/20/11 at 9:32.

--

Thank You,  
Lisa Murdock  
(Odessa Xenco)

---

Bob Asher <BobA@yatespetroleum.com>  
To: Lisa Murdock <lisa.murdock@xenco.com>

Mon, Jul 25, 2011 at 3:22 PM

Everything is correct per our phone conversation.

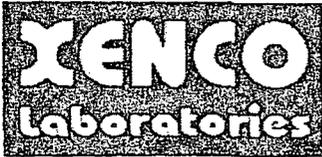
Thank you.

Bob Asher  
Yates Petroleum Corporation

---

**From:** Lisa Murdock [lisa.murdock@xenco.com]  
**Sent:** Monday, July 25, 2011 10:15 AM  
**To:** Bob Asher  
**Subject:** Cohiba BPY State #1

[Quoted text hidden]



**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: 7-23-11 4:00  
 Lab ID #: 424110 / 424111-C1  
 Initials: LM

**Sample Receipt Checklist**

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

**Nonconformance Documentation**

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

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

# Analytical Report 424111

## for Yates Petroleum Corporation

**Project Manager: Robert Asher**

**Cohiba BPY State #1**

**30-015-33999**

**27-JUL-11**

Collected By: Client



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

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

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), 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)

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

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



27-JUL-11

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

Reference: XENCO Report No: **424111**  
**Cohiba BPY State #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 424111. 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. 424111 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 424111**



**Yates Petroleum Corporation, Artesia, NM**  
Cohiba BPY State #1

| <b>Sample Id</b> | <b>Matrix</b> | <b>Date Collected</b> | <b>Sample Depth</b> | <b>Lab Sample Id</b> |
|------------------|---------------|-----------------------|---------------------|----------------------|
| Comp-00.5        | S             | 07-20-11 10:57        | 1 - 1 ft            | 424111-001           |
| Comp-01.0        | S             | 07-20-11 11:06        | 1.5 - 1.5 ft        | 424111-002           |



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Cohiba BPY State #1*



*Project ID: 30-015-33999*  
*Work Order Number: 424111*

*Report Date: 27-JUL-11*  
*Date Received: 07/23/2011*

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**Sample receipt non conformances and comments:**

*None*

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**Sample receipt non conformances and comments per sample:**

*None*

**Analytical non conformances and comments:**

*Batch: LBA-865337 Anions by E300*  
*E300MI*

*Batch 865337, Chloride recovered above QC limits in the Matrix Spike.*

*Samples affected are: 424111-002, -001.*

*The Laboratory Control Sample for Chloride is within laboratory Control Limits*



# Certificate of Analysis Summary 424111

Yates Petroleum Corporation, Artesia, NM

Project Name: Cohiba BPY State #1



Project Id: 30-015-33999

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Sat Jul-23-11 04:00 pm

Report Date: 27-JUL-11

Project Manager: Brent Barron, II

|                           |                   |                 |                 |  |  |  |  |
|---------------------------|-------------------|-----------------|-----------------|--|--|--|--|
| <b>Analysis Requested</b> | <i>Lab Id:</i>    | 424111-001      | 424111-002      |  |  |  |  |
|                           | <i>Field Id:</i>  | Comp-00.5       | Comp-01.0       |  |  |  |  |
|                           | <i>Depth:</i>     | 1-1 ft          | 1.5-1.5 ft      |  |  |  |  |
|                           | <i>Matrix:</i>    | SOIL            | SOIL            |  |  |  |  |
|                           | <i>Sampled:</i>   | Jul-20-11 10:57 | Jul-20-11 11:06 |  |  |  |  |
| <b>Anions by E300</b>     | <i>Extracted:</i> |                 |                 |  |  |  |  |
|                           | <i>Analyzed:</i>  | Jul-26-11 07:05 | Jul-26-11 07:05 |  |  |  |  |
|                           | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        |  |  |  |  |
| Chloride                  |                   | 2740 42.6       | 3360 85.9       |  |  |  |  |
| <b>Percent Moisture</b>   | <i>Extracted:</i> |                 |                 |  |  |  |  |
|                           | <i>Analyzed:</i>  | Jul-25-11 12:25 | Jul-25-11 12:25 |  |  |  |  |
|                           | <i>Units/RL:</i>  | % RL            | % RL            |  |  |  |  |
| Percent Moisture          |                   | 1.34 1.00       | 2.18 1.00       |  |  |  |  |

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

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Brent Barron, II  
Odessa Laboratory Manager



# Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect 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 quantitation limit and above the detection limit.
- 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      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **SQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

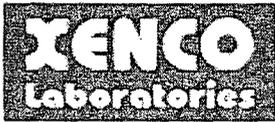
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|   | (602) 437-0330 |                |



Lisa Murdock <lisa.murdock@xenco.com>

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## Cohiba BPY State #1

2 messages

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**Lisa Murdock** <lisa.murdock@xenco.com>  
To: boba@yatespetroleum.com

Mon, Jul 25, 2011 at 11:15 AM

Robert,  
Just verifying our phone conversation that there is no sample #3 and that sample #1 should read Comp-00.5 and was taken 07/20/11 at 10:57 rather than reading GS/Comp-001 taken 04/2011 at 9:14 and Sample #2 should read Comp-01.0 and was taken 07/20/11 at 11:06 rather than reading GS/Comp-002 taken 04/20/11 at 9:32.

--  
Thank You,  
Lisa Murdock  
(Odessa Xenco)

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**Bob Asher** <BobA@yatespetroleum.com>  
To: Lisa Murdock <lisa.murdock@xenco.com>

Mon, Jul 25, 2011 at 3:22 PM

Everything is correct per our phone conversation.

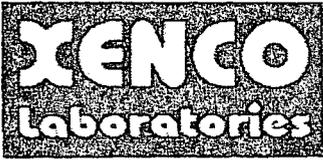
Thank you.

Bob Asher  
Yates Petroleum Corporation

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**From:** Lisa Murdock [lisa.murdock@xenco.com]  
**Sent:** Monday, July 25, 2011 10:15 AM  
**To:** Bob Asher  
**Subject:** Cohiba BPY State #1

[Quoted text hidden]



**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: 7-23-11 4:00  
 Lab ID #: 424110 / 424111-C1  
 Initials: LM

**Sample Receipt Checklist**

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

**Nonconformance Documentation**

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

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