

**Bratcher, Mike, EMNRD**

---

**From:** Bratcher, Mike, EMNRD  
**Sent:** Tuesday, August 23, 2011 3:22 PM  
**To:** 'Amber Cannon'  
**Cc:** Jerry Fanning; Bob Asher  
**Subject:** RE: Corral Draw AQF Federal #2

Amber,

Based on the site ranking, release volume and analytical data presented, these results would be acceptable for closure. Please submit a formal request via form C-141 and include the chain of custody sheets for the samples analyses.

Thank you,

*Mike Bratcher*

NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
575-748-1283 Ext. 108  
575-626-0857  
[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)

---

**From:** Amber Cannon [<mailto:ACannon@yatespetroleum.com>]  
**Sent:** Monday, August 22, 2011 4:45 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Jerry Fanning; Bob Asher  
**Subject:** Corral Draw AQF Federal #2

Mike,

The following analytical results are for your review. The spill area was scraped of all impacted soils and all impacted soils were hauled to an NMOCD approved facility. If these results acceptable, Yates would like to then request closure.

Please call me if you have any questions.

**Corral Draw AQH Federal #2**

Analytical Report 425342 & 425341	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-00.5	8/4/2011	Comp/Auger	0.5'	0.0118	ND	ND	ND	357
Comp-01.0	8/4/2011	Comp/Auger	1'	0.0125	ND	ND	ND	310

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 125', per Trend Map).

All results are ppm. Chlorides results are for documentation.

Thank you.

Amber Cannon  
Yates Petroleum Corporation  
Office: (575) 748-4111  
Cell: (575) 513-8799  
[acannon@yatespetroleum.com](mailto:acannon@yatespetroleum.com)

**Bratcher, Mike, EMNRD**

---

**From:** Amber Cannon [ACannon@yatespetroleum.com]  
**Sent:** Monday, August 22, 2011 4:45 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Jerry Fanning; Bob Asher  
**Subject:** Corral Draw AQF Federal #2  
**Attachments:** CorralDrawAQHFederal2\_425342.pdf; CorralDrawAQHFederal2\_425341.pdf

Mike,

The following analytical results are for your review. The spill area was scraped of all impacted soils and all impacted soils were hauled to an NMOCD approved facility. If these results acceptable, Yates would like to then request closure.

Please call me if you have any questions.

**Corral Draw AQH Federal #2**

Analytical Report 425342 & 425341	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-00.5	8/4/2011	Comp/Auger	0.5'	0.0118	ND	ND	ND	357
Comp-01.0	8/4/2011	Comp/Auger	1'	0.0125	ND	ND	ND	310

**Site Ranking is Zero (0).** Depth to Ground Water >100' (approx. 125', per Trend Map).

All results are ppm. Chlorides results are for documentation.

Thank you.

Amber Cannon  
Yates Petroleum Corporation  
Office: (575) 748-4111  
Cell: (575) 513-8799  
[acannon@yatespetroleum.com](mailto:acannon@yatespetroleum.com)

# Analytical Report 425342

for  
Yates Petroleum Corporation

Project Manager: Amber Cannon

Corral Draw AQH Federal # 2

30-015-34257

17-AUG-11

Collected By: Client



**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 (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 (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 Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

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

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



17-AUG-11

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

Reference: XENCO Report No: **425342**  
**Corral Draw AQH Federal # 2**  
Project Address: Eddy County

**Amber Cannon:**

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 425342. 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. 425342 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

**Brent Barron II**

Odessa Laboratory Manager

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

*Certified and approved by numerous States and Agencies.*

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

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



**Sample Cross Reference 425342**



**Yates Petroleum Corporation, Artesia, NM**  
Corral Draw AQH Federal # 2

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp-00.5	S	08-04-11 10:13	6 - 6 In	425342-001
Comp-01.0	S	08-04-11 10:26	1 - 1 ft	425342-002



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Corral Draw AQH Federal # 2*



*Project ID: 30-015-34257*

*Report Date: 17-AUG-11*

*Work Order Number: 425342*

*Date Received: 08/09/2011*

---

**Sample receipt non conformances and comments:**

None

---

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

None

**Analytical non conformances and comments:**

Batch: LBA-867226 Inorganic Anions by EPA 300/300.1  
E300

Batch 867226, Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 425342-002, -001.

The Laboratory Control Sample for Chloride is within laboratory Control Limits



# Certificate of Analysis Summary 425342

Yates Petroleum Corporation, Artesia, NM

Project Name: Corral Draw AQH Federal # 2



Project Id: 30-015-34257

Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Tue Aug-09-11 10:15 am

Report Date: 17-AUG-11

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	425342-001	425342-002				
	<i>Field Id:</i>	Comp-00.5	Comp-01.0				
	<i>Depth:</i>	6-6 In	1-1 ft				
	<i>Matrix:</i>	SOIL	SOIL				
	<i>Sampled:</i>	Aug-04-11 10:13	Aug-04-11 10:26				
<b>Inorganic Anions by EPA 300/300.1 SUB: E871002</b>	<i>Extracted:</i>	Aug-14-11 12:58	Aug-14-11 13:16				
	<i>Analyzed:</i>	Aug-14-11 12:58	Aug-14-11 13:16				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Chloride		357 5.13	310 5.16				
<b>Percent Moisture</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-09-11 15:35	Aug-09-11 15:35				
	<i>Units/RL:</i>	% RL	% RL				
Percent Moisture		2.46 1.00	3.04 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.

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.

*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 - Atlanta - Midland/Odessa - Tampa/Lakeland - Miami - Phoenix - Latin America

4143 Greccubriar Dr, Stafford, Tx 77477  
 9701 Harry Hines Blvd , Dallas, TX 75220  
 5332 Blackberry Drive, San Antonio TX 78238  
 2505 North Falkenburg Rd, Tampa, FL 33619  
 5757 NW 158th St, Miami Lakes, FL 33014  
 12600 West I-20 East, Odessa, TX 79765  
 6017 Financial Drive, Norcross, GA 30071  
 3725 E. Atlanta Ave, Phoenix, AZ 85040

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

# Analytical Report 425341

for  
Yates Petroleum Corporation

Project Manager: Amber Cannon

Corral Draw AQH Federal # 2

30-015-34257

17-AUG-11

Collected By: Client



**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 (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 Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

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

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



17-AUG-11

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

Reference: XENCO Report No: **425341**  
**Corral Draw AQH Federal # 2**  
Project Address: Eddy County

**Amber Cannon:**

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 425341. 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. 425341 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

**Brent Barron II**

Odessa Laboratory Manager

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

*Certified and approved by numerous States and Agencies.*

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

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



**Sample Cross Reference 425341**



**Yates Petroleum Corporation, Artesia, NM**  
Corral Draw AQH Federal # 2

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp-00.5	S	08-04-11 10:13	6 - 6 In	425341-001
Comp-01.0	S	08-04-11 10:26	1 - 1 ft	425341-002



## CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*  
*Project Name: Corral Draw AQH Federal # 2*



*Project ID: 30-015-34257*  
*Work Order Number: 425341*

*Report Date: 17-AUG-11*  
*Date Received: 08/09/2011*

---

**Sample receipt non conformances and comments:**

*None*

---

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

*None*

**Analytical non nonformances and comments:**

*Batch: LBA-866807 TPH By SW8015B Mod*  
*SW8015B\_NM*

*Batch 866807, 1-Chlorooctane recovered above QC limits . Matrix interferences is suspected;  
data not confirmed by re-analysis*  
*Samples affected are: 425341-002,425341-001.*



# Certificate of Analysis Summary 425341

Yates Petroleum Corporation, Artesia, NM

Project Name: Corral Draw AQH Federal # 2



Project Id: 30-015-34257

Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Tue Aug-09-11 10:15 am

Report Date: 17-AUG-11

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	425341-001	425341-002				
	<i>Field Id:</i>	Comp-00.5	Comp-01.0				
	<i>Depth:</i>	6-6 In	1-1 ft				
	<i>Matrix:</i>	SOIL	SOIL				
	<i>Sampled:</i>	Aug-04-11 10:13	Aug-04-11 10:26				
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	Aug-11-11 10:47	Aug-11-11 10:47				
	<i>Analyzed:</i>	Aug-11-11 17:59	Aug-11-11 19:52				
	<i>Units/RL:</i>	mg/kg    RL	mg/kg    RL				
Benzene		ND    0.00102	ND    0.00103				
Toluene		0.00277    0.00204	0.00234    0.00205				
Ethylbenzene		0.00322    0.00102	0.00291    0.00103				
m_p-Xylenes		0.00407    0.00204	0.00473    0.00205				
o-Xylene		0.00170    0.00102	0.00251    0.00103				
Total Xylenes		0.00577    0.00102	0.00724    0.00103				
Total BTEX		0.0118    0.00102	0.0125    0.00103				
<b>Percent Moisture</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-09-11 15:35	Aug-09-11 15:35				
	<i>Units/RL:</i>	%    RL	%    RL				
Percent Moisture		2.46    1.00	3.04    1.00				
<b>TPH By SW8015B Mod</b>	<i>Extracted:</i>	Aug-09-11 14:45	Aug-09-11 14:45				
	<i>Analyzed:</i>	Aug-09-11 22:28	Aug-09-11 22:55				
	<i>Units/RL:</i>	mg/kg    RL	mg/kg    RL				
C6-C10 Gasoline Range Hydrocarbons		ND    15.0	ND    15.0				
C10-C28 Diesel Range Hydrocarbons		ND    15.0	ND    15.0				
Total TPH		ND    15.0	ND    15.0				

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.

***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 - Atlanta - Midland/Odessa - Tampa/Lakeland - Miami - Phoenix - Latin America

4143 Greenbriar Dr, Stafford, Tx 77477  
 9701 Harry Hines Blvd, Dallas, TX 75220  
 5332 Blackberry Drive, San Antonio TX 78238  
 2505 North Falkenburg Rd, Tampa, FL 33619  
 5757 NW 158th St, Miami Lakes, FL 33014  
 12600 West (-20 East, Odessa, TX 79765  
 6017 Financial Drive, Norcross, GA 30071  
 3725 E. Atlanta Ave, Phoenix, AZ 85040

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	