

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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September 12, 2011

Mr. Mike Bratcher
NMOCD District II
811 South First Street
Artesia, NM 88210

Re: Martha AIK Federal #1
30-015-26549
Section 11, T22S-R31E
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 July 22, 2011.

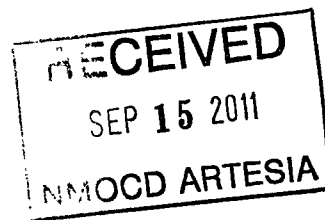
If there are no objections with the scope of work described in the plan, Yates will begin work on or after September 20, 2011.

If you have any questions call me at (575) 748-4111

Thank you.

YATES PETROLEUM CORPORATION

Amber Cannon
Environmental Regulatory Agent Trainee



Enclosure(s)

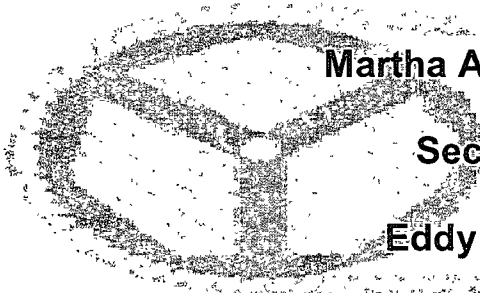
Yates Petroleum Corporation

Martha AIK Federal #1 Work Plan

Section 11, T22S-R31E

Eddy County, New Mexico

September 12, 2011



I. Location

The well is located approximately 34 miles southwest of Eunice, NM off of County Road 29, as represented by the attached The Divide, NM, USGS Quadrangle Map.

II. Background

On July 22, 2011, Yates submitted to the NMOCD District II office a Form C-141 for a release of 5 B/O & 30 B/PW with 5 B/O recovered and no produced water recovered. The total affected area is approximately 40 feet by 15 feet. Initial delineation samples were taken (8/24/2011) and sent to an NMOCD approved laboratory (9/8/2011 results enclosed).

III. Surface and Ground Water

Area surface geology is Cenozoic. The nearest groundwater of record is listed on the Trend Map (Section 11, T22S-R31E) and it shows depth to groundwater to be approximately 150 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:

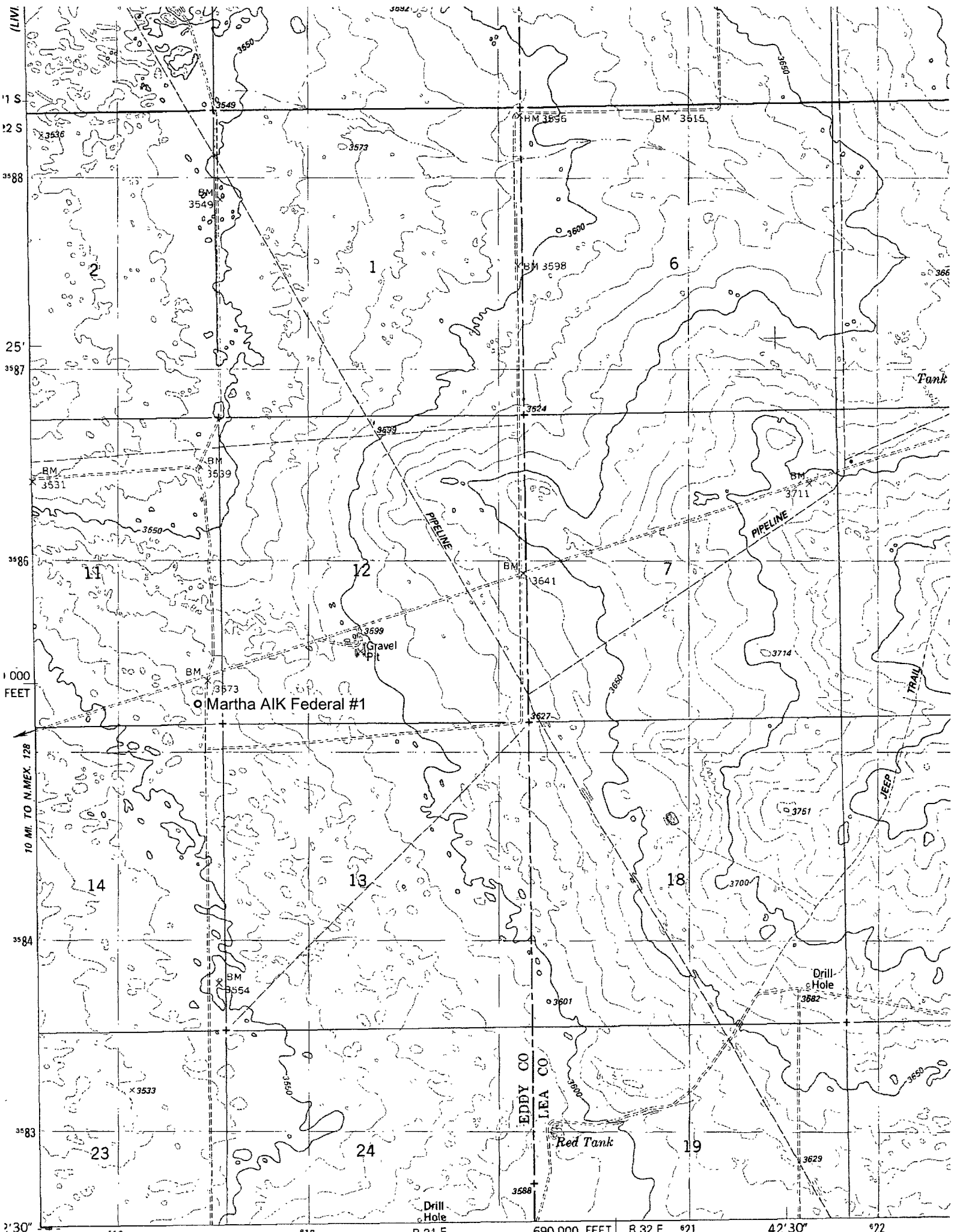
Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

IV. Soils

The area consists of soils that are caliche/sand 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 initial Chloride analytical results and phone conversation with Mike Bratcher (9/12/2011), Yates Petroleum Corporation will take deeper delineation samples for Chlorides and will send them to an NMOCD approved laboratory. The delineation samples will be taken from 4' to 6' at every foot. Yates Petroleum Corporation will not test for BTEX and TPH, as original analytical results are within the RRAL's for BTEX (50 ppm) and TPH (5000 ppm) for the Total Ranking Score of zero (0). If Chloride analytical results show a decrease, Yates Petroleum Corporation will submit a C-141, Final Report, analytical results 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.



The Divide; NM' Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640", 1 cm = 240Mt

Analytical Report 426558

for

Yates Petroleum Corporation

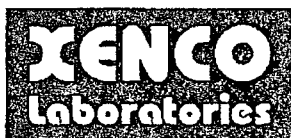
Project Manager: Amber Cannon

Martha AIK Federal #1

30-015-26549

08-SEP-11

Collected By: Client



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Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046):

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

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

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

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

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

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

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

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



08-SEP-11

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

Reference: XENCO Report No: **426558**
Martha AIK Federal #1
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 426558. 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. 426558 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 426558



Yates Petroleum Corporation, Artesia, NM

Martha AIK Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01.0	S	08-24-11 10:56	1 - 1 ft	426558-001
Comp-02.0	S	08-24-11 11:38	2 - 2 ft	426558-002
Comp-03.0	S	08-24-11 12:20	3 - 3 ft	426558-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Martha AIK Federal #1



Project ID: 30-015-26549
Work Order Number: 426558

Report Date: 08-SEP-11
Date Received: 08/26/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonconformances and comments:

Batch: LBA-868829 BTEX by EPA 8021B
SW8021BM

Batch 868829, o-Xylene recovered below QC limits in the Matrix Spike.
Samples affected are: 426558-003, -001, -002.
The Laboratory Control Sample for o-Xylene is within laboratory Control Limits

Batch: LBA-869315 TPH By SW8015B Mod
SW8015B_NM

Batch 869315, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike Duplicate.
Samples affected are: 426558-003, -001, -002.
The Laboratory Control Sample for C6-C10 Gasoline Range Hydrocarbons is within laboratory Control Limits



Certificate of Analysis Summary 426558

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-26549

Contact: Amber Cannon

Project Location: Eddy County

Project Name: Martha AIK Federal #1

Date Received in Lab: Fri Aug-26-11 09:30 am

Report Date: 08-SEP-11


Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	426558-001	426558-002	426558-003			
	<i>Field Id:</i>	Comp-01.0	Comp-02.0	Comp-03.0			
	<i>Depth:</i>	1-1 ft	2-2 ft	3-3 ft			
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Aug-24-11 10:56	Aug-24-11 11:38	Aug-24-11 12:20			
BTEX by EPA 8021B	<i>Extracted:</i>	Aug-29-11 14:00	Aug-29-11 14:00	Aug-29-11 14:00			
	<i>Analyzed:</i>	Aug-30-11 00:40	Aug-30-11 01:03	Aug-30-11 01:26			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		ND 0.00103	ND 0.00103	ND 0.00103			
Toluene		ND 0.00205	ND 0.00205	ND 0.00205			
Ethylbenzene		ND 0.00103	ND 0.00103	ND 0.00103			
m_p-Xylenes		ND 0.00205	ND 0.00205	ND 0.00205			
o-Xylene		ND 0.00103	ND 0.00103	ND 0.00103			
Total Xylenes		ND 0.00103	ND 0.00103	ND 0.00103			
Total BTEX		ND 0.00103	ND 0.00103	ND 0.00103			
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-26-11 12:25	Aug-26-11 12:25	Aug-26-11 12:30			
	<i>Units/RL:</i>	% RL	% RL	% RL			
Percent Moisture		2.75 1.00	2.97 1.00	2.99 1.00			
TPH By SW8015B Mod	<i>Extracted:</i>	Aug-26-11 12:25	Aug-26-11 12:25	Aug-26-11 12:25			
	<i>Analyzed:</i>	Sep-04-11 00:57	Sep-04-11 01:27	Sep-04-11 01:59			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C10 Gasoline Range Hydrocarbons		ND 15.4	ND 15.4	ND 15.4			
C10-C28 Diesel Range Hydrocarbons		87.0 15.4	46.2 15.4	19.4 15.4			
Total TPH		87.0 15.4	46.2 15.4	19.4 15.4			

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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Version: 1.3%


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

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(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	

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

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

Project Manager: Amber Cannon

Project Name: Martha AIK Federal #1

Company Name Yates Petroleum Corporation

Project #: 30-015-26549

Company Address: 105 South 4th Street

Project Loc: Eddy CountyCity/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111

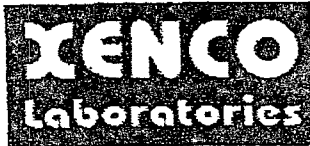
Fax No: 575-748-4585

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

[illegible]



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

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

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates
Date/Time: 8-26-11 9:30
Lab ID #: 426558/426559-C1
Initials: RM

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>2.1</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 426559

for

Yates Petroleum Corporation

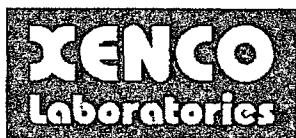
Project Manager: Amber Cannon

Martha AIK Federal #1

30-015-26549

07-SEP-11

Collected By: Client



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Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
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Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

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

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



07-SEP-11

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

Reference: XENCO Report No: **426559**
Martha AIK Federal #1
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 426559. 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.

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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 426559



Yates Petroleum Corporation, Artesia, NM

Martha AIK Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01.0	S	08-24-11 10:56	1 - 1 ft	426559-001
Comp-02.0	S	08-24-11 11:38	2 - 2 ft	426559-002
Comp-03.0	S	08-24-11 12:20	3 - 3 ft	426559-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Martha AIK Federal #1



Project ID: 30-015-26549
Work Order Number: 426559

Report Date: 07-SEP-11
Date Received: 08/26/2011

Sample receipt non conformances and comments:
None

Sample receipt non conformances and comments per sample:
None



Certificate of Analysis Summary 426559

Yates Petroleum Corporation, Artesia, NM

Project Name: Martha AIK Federal #1



Project Id: 30-015-26549

Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Fri Aug-26-11 09:30 am


Report Date: 07-SEP-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	426559-001	426559-002	426559-003			
	Field Id:	Comp-01.0	Comp-02.0	Comp-03.0			
	Depth:	1-1 ft	2-2 ft	3-3 ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Aug-24-11 10:56	Aug-24-11 11:38	Aug-24-11 12:20			
Anions by E300	Extracted:						
	Analyzed:	Aug-27-11 17:31	Aug-27-11 17:31	Aug-27-11 17:31			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		2590 43.2	3460 43.3	2920 43.3			
Percent Moisture	Extracted:						
	Analyzed:	Aug-26-11 12:30	Aug-26-11 12:30	Aug-26-11 12:30			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		2.75 1.00	2.97 1.00	2.99 1.00			

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Brent Barron II
Odessa Laboratory Manager



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2505 North Falkenberg 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

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(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	

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

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

Project Manager: Amber Cannon

Project Name: **Martha AIK Federal #1**

Company Name Yates Petroleum Corporation

Project #: 30-015-26549

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111

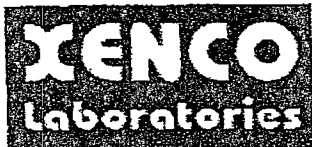
Fax No: 575-748-4585

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: acannon@yatespetroleum.com

[illegible]



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

Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 8/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates
 Date/Time: 8-26-11 9:30
 Lab ID #: 426558/426559-C1
 Initials: RM

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>2.1</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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