MARTIN YATES, III 1912-1985

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S.P. YATES



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118 TELEPHONE (575) 748-1471 JOHN A. YATES CHAIRMAN OF THE BOARD

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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.

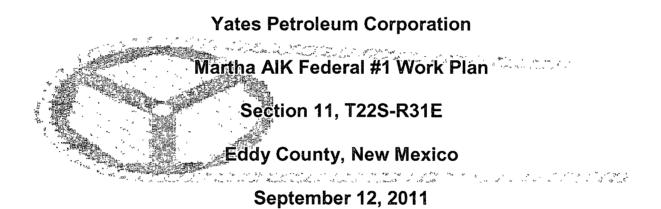
YATES PETROLEUM CORPROATION

anner

Amber Cannon Environmental Regulatory Agent Trainee

Enclosure(s)





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:

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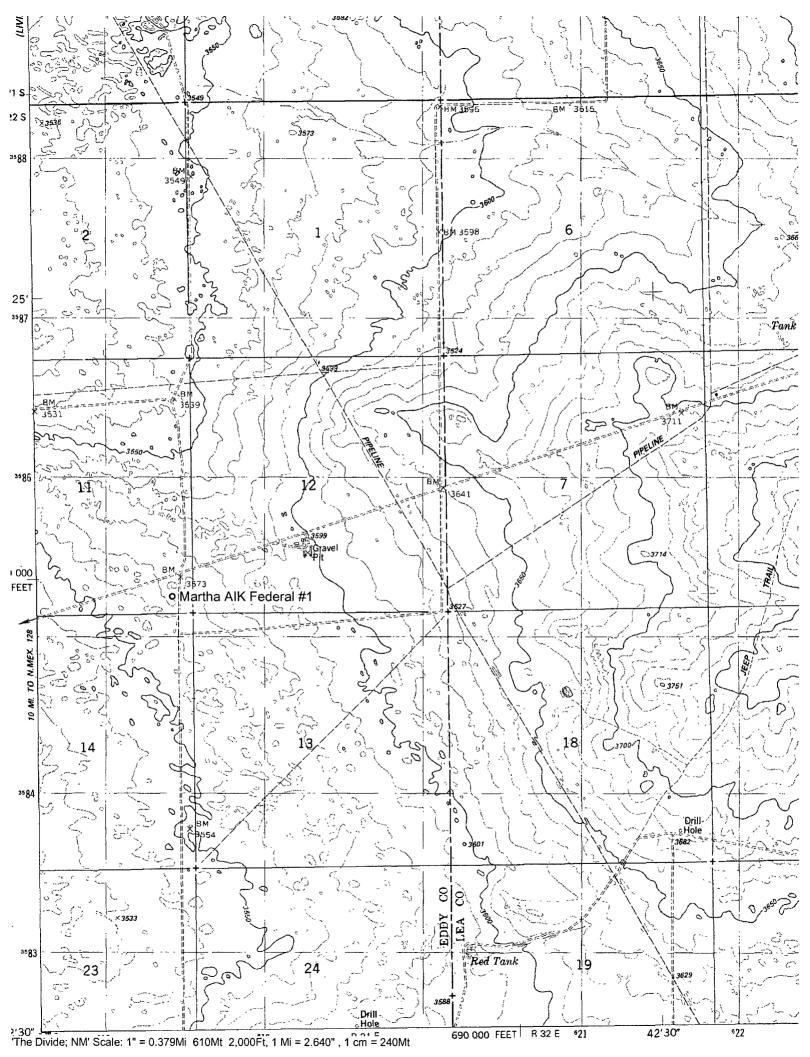
Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

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.



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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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 nonformances 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



Project Id: 30-015-26549

Project Location: Eddy County

Contact: Amber Cannon

Certificate of Analysis Summary 426558

Yates Petroleum Corporation, Artesia, NM



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

Lab Id:	426558-0	01	426558-0	02	426558-0	003			
Field Id:	Comp-01	.0	Comp-02	.0	Comp-03	3.0			
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			
Extracted:	Aug-29-11	14:00	Aug-29-11	14:00	Aug-29-11	14:00			
Analyzed:	Aug-30-11	00:40	Aug-30-11 (01:03	Aug-30-11	01:26			
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
	ND	0.00103	ND	0.00103	ND	0.00103			
	ND	0.00205	ND	0.00205	ND	0.00205			
	ND	0.00103	ND	0.00103	ŇD	0.00103			
	ND	0.00205	ND	0.00205	ND	0.00205			
	ND	0.00103	ND	0.00103	ND	0.00103			
	ND	0.00103	ND	0 00103	ND	0.00103			
	ND	0.00103	ND	0.00103	ND	0.00103			
Extracted:									
Analyzed:	Aug-26-11	12:25	Aug-26-11	12:25	Aug-26-11	12:30			
Units/RL:	%	RL	%	RL	%	RL			
	2.75	1.00	2.97	1.00	2.99	1.00			
Extracted:	Aug-26-11	12:25	Aug-26-11	12:25	Aug-26-11	12:25		, · · · · · · · · · · · · · · · · · · ·	
Analyzed:	Sep-04-11 (00:57	Sep-04-11 (01:27	Sep-04-11	01:59			
Units/RL:	ing/kg	RL	mg/kg	RL	mg/kg	RL			
	ND	15.4	ND	15.4	ND	15.4			
	87.0	15.4	46.2	15.4	19.4	15.4			
	87.0	15.4	46.2	15.4	19.4	15.4			
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL:	Field Id:Comp-01Depth:1-1 ftMatrix:SOILSampled:Aug-24-11 1Extracted:Aug-29-11Analyzed:Aug-30-11 0Units/RL:mg/kgNDNDNDNDNDNDExtracted:Ang-26-11Analyzed:Aug-26-11Units/RL:%2.75Extracted:Analyzed:Sep-04-11 0Units/RL:mg/kgNDND	Field Id: Comp-01.0 Depth: 1-1 ft Matrix: SOIL Sampled: Aug-24-11 10:56 Extracted: Aug-29-11 14:00 Analyzed: Aug-30-11 00:40 Units/RL: mg/kg RL ND 0.00103 ND 0.00205 ND 0.00103 ND 0.00103 ND 0.00103 ND 0.00103 ND 0.00103 ND 0.00103 Extracted: Aug-26-11 12:25 ND Analyzed: Aug-26-11 12:25 1.00 Extracted: Aug-26-11 12:25 1.000 Extracted: Sep-04-11 00:57 Units/RL: Malyzed: Sep-04-11 00:57 Units/RL: Malyzed: ND 15.4 ND 15.4 87.0 15.4	Field Id: Comp-01.0 Comp-02 Depth: 1-1 ft 2-2 ft Matrix: SOIL SOIL Sampled: Aug-24-11 10:56 Aug-24-11 1 Extracted: Aug-29-11 14:00 Aug-29-11 1 Analyzed: Aug-30-11 00:40 Aug-30-11 0 Units/RL: mg/kg RL mg/kg ND 0.00103 ND ND Extracted: Aug-26-11 12:25 Aug-26-11 1 Units/RL: % KL % Z.75 1.00 2.97 Xug-26-11 1 Analyzed: Sep-04-11 00:57 Sep-04-11 0 Xug-26-11 1 Units/RL:	Field Id: Comp-01.0 Comp-02.0 Depth: 1-1 ft 2-2 ft Matrix: SOIL SOIL Sampled: Aug-24-11 10:56 Aug-24-11 11:38 Extracted: Aug-29-11 14:00 Aug-29-11 14:00 Analyzed: Aug-30-11 00:40 Aug-30-11 01:03 Units/RL: mg/kg RL mg/kg RL ND 0.00103 ND 0.00103 Units/RL: mg/kg RL mg/kg RL ND 0.00103 ND 0.00103 ND 0.00103 MD 0.00103 ND 0.00103 ND 0.00103 Karacted: Aug-26-11 12:25 Aug-26-11 12:25 Aug-26-11	Field Id: Comp-01.0 Comp-02.0 Comp-02.0 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 Extracted: Aug-29-11 14:00 Aug-29-11 14:00 Aug-29-11 Analyzed: Aug-30-11 00:40 Aug-30-11 01:03 Aug-30-11 Units/RL: mg/kg RL mg/kg NL MD 0.00103 ND 0.00103 ND ND 0.00103 ND 0.00103	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 SOIL Sampled: Aug-24-11 10:56 Aug-24-11 11:38 Aug-24-11 12:20 Extracted: Aug-29-11 14:00 Aug-29-11 14:00 Aug-29-11 14:00 Analyzed: Aug-30-11 00:40 Aug-30-11 01:03 Aug-30-11 01:26 Units/RL: mg/kg RL mg/kg RL MD 0.00103 ND 0.00103 ND 0.00103 ND 0.00103 ND 0.00103 ND 0.00205 ND 0.00103 ND 0.00103 ND 0.00103 MD </th <th>Lab Id: 426558-001 426558-002 426558-003 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 Extracted: Aug-29-11 14:00 Aug-29-11 14:00 Aug-29-11 14:00 Analyzed: Aug-30-11 00:40 Aug-30-11 01:03 Aug-30-11 01:26 Units/RL: mg/kg RL mg/kg RL ND 0.00103 ND 0.00103 ND 0.00103 ND 0.00205 ND 0.00205 ND 0.00205 ND 0.00103 ND 0.00103 ND 0.00103 ND 0.00103 <td< th=""><th>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 Ang-24-11 12:20 Extracted: Aug-29-11 14:00 Aug-29-11 14:00 Aug-29-11 14:00 Analyzed: Aug-30-11 00:40 Aug-30-11 01:03 Aug-30-11 01:26 Units/RL: mg/kg RL mg/kg RL ND 0.00103 ND 0.00103 ND 0.00103 MD</th></td<></th>	Lab Id: 426558-001 426558-002 426558-003 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 Extracted: Aug-29-11 14:00 Aug-29-11 14:00 Aug-29-11 14:00 Analyzed: Aug-30-11 00:40 Aug-30-11 01:03 Aug-30-11 01:26 Units/RL: mg/kg RL mg/kg RL ND 0.00103 ND 0.00103 ND 0.00103 ND 0.00205 ND 0.00205 ND 0.00205 ND 0.00103 ND 0.00103 ND 0.00103 ND 0.00103 <td< th=""><th>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 Ang-24-11 12:20 Extracted: Aug-29-11 14:00 Aug-29-11 14:00 Aug-29-11 14:00 Analyzed: Aug-30-11 00:40 Aug-30-11 01:03 Aug-30-11 01:26 Units/RL: mg/kg RL mg/kg RL ND 0.00103 ND 0.00103 ND 0.00103 MD</th></td<>	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 Ang-24-11 12:20 Extracted: Aug-29-11 14:00 Aug-29-11 14:00 Aug-29-11 14:00 Analyzed: Aug-30-11 00:40 Aug-30-11 01:03 Aug-30-11 01:26 Units/RL: mg/kg RL mg/kg RL ND 0.00103 ND 0.00103 ND 0.00103 MD

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Brent Barron II

Odessa Laboratory Manager

Page 5 of 15

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 quantiation 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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	Company Address:	105 South 4th Street																Proj	ect L	.oc:	Edd	ly Co	ount	<u>v </u>								
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ŁAB # (leb use only)	FIE	LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtared	Total #. of Containers	lce	HNO3	HCI	H ₂ SO4	HOBN	Na ₁ S ₇ O ₃	Nore Other (Specify)	DW=Drinking Waler SL≠Sludge	GW = Groundwater S=Sol0Solid NPaNen-Potable Scenary Other	B015M	TX 1005	Cations (Ca, Mg, Na, K)	Antons (CI, SO4, Alkalinity)	SAR / ESP / CEC	Meteis: As Ag Ba Cd Cr Ph Hg	Votatites	Serrivolaues BTEX 80218/5030 or BTEX 6260		NCI	N U.K.M. Chlorides			RUSH TAT (Pre-Schedule) 24, 45, 72 hrs	Standard TAT
001	Ca	mp-01.0	1'	1'	8/24/2011	10:56 AM		1	X								S	X	1				-		X		_	X	_	\square		x
002		mp-02.0	2'	2'	8/24/2011	11:38 AM			X							-	s	X	-					+	X	-	+-		+	┼┤	-	x x
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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:	Vates
Date/Time:	8-26-11 9:30
Lab ID # :	426558/426559-01
Initials:	LI

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)?	(TE)	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	Ye	No -		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	YER .	No		
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)	N/A	
17. VOC sample have zero head space?	Yes	No	NIR	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	0.	Cooler 5 No.	
ibs 2.1 °C ibs °C ibs	°C lbs	°c	ibs	°C

 Nonconformance Documentation

 Contact:
 Contacted by:
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Analytical Report 426559

for

Yates Petroleum Corporation

Project Manager: Amber Cannon Martha AIK Federal #1 30-015-26549

07-SEP-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 Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)



07-SEP-11

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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.

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. 426559 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 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



Project Id: 30-015-26549 Contact: Amber Cannon Project Location: Eddy County

Certificate of Analysis Summary 426559

Yates Petroleum Corporation, Artesia, NM Project Name: Martha AIK Federal #1



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

Report Date: 07-SEP-11

Project Manager: Brent Barron II

	Lab Id:	426559-0	01	426559-0	02	426559-0	103			
Analysis Requested	Field Id:	Comp-01	.0	Comp-02	.0	Comp-03	9.0			
Analysis Requested	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	Aug-26-11 12:30			
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture		2.75	1.00	2.97	1.00	2.99	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 involved 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

Final 1.000

Page 5 of 11



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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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 1-20 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

XENCO-Environmental Lab of Texas CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 12600 West I-20 East Phone: 432-563-1800 Odessa, Texas 79755 Fax: 432-563-1713 Project Name: Martha Alk Federal #1 Project Manager: Amber Cannon Company Name Project #: 30-015-26549 Yates Petroleum Corporation Company Address: 105 South 4th Street Project Loc: Eddy County City/State/Zip: Artesia, NM 88210 PO #: 1032020 Report Format: X Standard Telephone No: NPDES 575-748-4111 Fax No: 575-748-4585 annin Sampler Signature: Imper acannon@yatespetroleum.com e-mail: Analyze For: (lab use only) TOLP: ĊI TOTAL: 476558/4716559 ORDER #: Preservation & # of Containers Matrix ŝ 3260 Cr Pb Hg 900 BTEX Alkalmitv) St=Sludg ř (Vino Na, K) 8015M -Sol SDACE ò leginning Depth Š Sampled 8 Sampled use Depth B BB TX 1005 s (Ca, Mg, **\$04** dard TAI As Ag LAB # (lab t Poleble 418.1 eld Fillered otal#. of Co Other (Sp g ESP N.O.R.M. Chiorídes Ending | Na₂S₂O₃ W = Grou Metals fime 1,SO4 4aOH Date Q4 None SAR / TEX Ŧ õ μų atio 8 22 FIELD CODE 001 1' х х Comp-01.0 11 8/24/2011 10:56 AM 1 X S х co'aComp-02.0 2' 2' 8/24/2011 1 X s х х 11:38 AM 703 1 X 3' 3' 8/24/2011 12:20 PM Х Comp-03.0 S PLEASE PUT CHLORIDES ON SEPARATE REPORT Special Instructions: TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you. Laboratory Comments: ZZZZZZZZ FedEx Lone Star Sample Containers Intact? VOCs Free of Headspace? Date Labels on container(s) Date Received by: Time Refinquished by: Time Custody seals on container(s) 3:20 pm 08/25/11 mber anna Custody seals on cooler(s) Date Sample Hand Delivered Date Time Relinquished by: Time Received by. by Sampler/Client Rep. ? by Courier? UPS DHL Relinguished by: Date Temperature Upon Receipt Time Received by ELOT Date Time Mundoa dim 8-26-11 2.1 ۰C 9:30

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Page 10 of 11



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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:	Vates	
Date/Time:	8-26-11 9:30	•••
Lab ID # :	42658/426559-01	
Initials:	£И.	

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?		Y98	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)?		(Ver)	No		
9. Container labels legible and intact?		Yes	No		
10. Sample matrix / properties agree with chain of custody?		Yer	No ·		
11. Samples in proper container / bottle?		Yes	No		
12. Samples properly preserved?		Yes	No	N/A	
13. Sample container intact?		(Yes)	No		
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	N/A	
17. VOC sample have zero head space?		Yes	No	NIA	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	- 10	Cooler 4 No	۱ <u>ــــــــــــــــــــــــــــــــــــ</u>	Cooler 5 No.	
Ibs 2.1 °C Ibs °C Ibs	°c	lbs	°Ĉ	lbs	°C

Nonconformance Documentation

Contact:	Contacted by: Date/Time:	<u>_</u>
Regarding:		
Corrective Action Tak	ren:	
	· · · · · · · · · · · · · · · · · · ·	
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 	
•		