



Sample ID	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TPH TOTAL
GS/Comp-001	8/25/2008	Grab/Auger	1'	0.4689	ND	128.0	128.0
GS/Comp-002	8/25/2008	Grab/Auger	2'	1.069	31.2	405.0	436.2
GS/Comp-003	8/25/2008	Grab/Auger	3'	0.0191	ND	50.7	50.7

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 345'). All results are ppm.



Flood AFN Federal #1  
 Section 30, T19S-R32E  
 Lea County, NM

SITE SAMPLE DIAGRAM  
 (Not to Scale)  
 Prepared by Robert Asher  
 Environmental Regulatory Agent  
 September 5, 2008

PTO 142682 7114

RP - 3352

# **Analytical Report 311386**

**for**

**Yates Petroleum Corporation**

**Project Manager: Robert Asher**

**Flood AFN Federal # 1**

**30-025-30944**

**03-SEP-08**



**E84880**

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

Texas certification numbers:

Houston, TX T104704215 - Odessa/Midland, TX T104704215-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675  
Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

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Midland - Corpus Christi - Atlanta



03-SEP-08

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

Reference: XENCO Report No: **311386**  
**Flood AFN Federal # 1**  
Project Address: Lea 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 311386. 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. 311386 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,

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**Brent Barron, II**

Odessa Laboratory Manager

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**Sample Cross Reference 311386**



**Yates Petroleum Corporation, Artesia, NM**  
Flood AFN Federal # 1

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
GS/Comp-001	S	Aug-25-08 09:41	1 - 1 ft	311386-001
GS/Comp-002	S	Aug-25-08 09:56	2 - 2 ft	311386-002
GS/Comp-003	S	Aug-25-08 10:07	3 - 3 ft	311386-003



# Certificate of Analysis Summary 311386

Yates Petroleum Corporation, Artesia, NM

Project Name: Flood AFN Federal # 1



Project Id: 30-025-30944

Contact: Robert Asher

Project Location: Lea County

Date Received in Lab: Fri Aug-29-08 09:50 am

Report Date: 03-SEP-08

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	311386-001	311386-002	311386-003			
	<i>Field Id:</i>	GS/Comp-001	GS/Comp-002	GS/Comp-003			
	<i>Depth:</i>	1-1 ft	2-2 ft	3-3 ft			
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Aug-25-08 09:41	Aug-25-08 09:56	Aug-25-08 10:07			
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	Aug-29-08 16:00	Aug-29-08 16:00	Aug-29-08 16:00			
	<i>Analyzed:</i>	Sep-01-08 20:55	Sep-01-08 21:18	Sep-01-08 21:40			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		ND 0.0052	ND 0.0052	ND 0.0053			
Toluene		ND 0.0104	0.0164 0.0104	ND 0.0106			
Ethylbenzene		0.0677 0.0052	0.1658 0.0052	ND 0.0053			
m,p-Xylenes		0.2158 0.0104	0.5242 0.0104	0.0117 0.0106			
o-Xylene		0.1854 0.0052	0.3626 0.0052	0.0074 0.0053			
Total Xylenes		0.4012	0.8868	0.0191			
Total BTEX		0.4689	1.069	0.0191			
<b>Percent Moisture</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-30-08 09:00	Aug-30-08 09:00	Aug-30-08 09:00			
	<i>Units/RL:</i>	% RL	% RL	% RL			
Percent Moisture		4.23 1.00	3.79 1.00	5.23 1.00			
<b>TPH By SW8015B Mod</b>	<i>Extracted:</i>	Aug-30-08 09:25	Aug-30-08 09:25	Aug-30-08 09:25			
	<i>Analyzed:</i>	Sep-03-08 12:33	Sep-03-08 12:59	Sep-03-08 13:25			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C10 Gasoline Range Hydrocarbons		ND 15.7	31.2 15.6	ND 15.8			
C10-C28 Diesel Range Hydrocarbons		128 15.7	405 15.6	50.7 15.8			
Total TPH		128	436.2	50.7			

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  
Odessa Laboratory Director



## Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
  - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
  - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
  - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
  - F** RPD exceeded lab control limits.
  - J** The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
  - 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.
- \* Outside XENCO'S scope of NELAC Accreditation

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5332 Blackberry Drive, Suite 104, San Antonio, TX 78238  
2505 N. Falkenburg Rd., Tampa, FL 33619  
5757 NW 158th St, Miami Lakes, FL 33014  
6017 Financial Dr., Norcross, GA 30071

Phone	Fax
(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(770) 449-8800	(770) 449-5477



**Environmental Lab of Texas**  
Variance/ Corrective Action Report- Sample Log-In

Client: Yates  
 Date/ Time: 8.29.08 9.50  
 Lab ID #: 3113BU  
 Initials: AK

**Sample Receipt Checklist**

			Client Initials
#1 Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	4.0 °C
#2 Shipping container in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#3 Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Present
#4 Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Present
#5 Chain of Custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#6 Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#7 Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#8 Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	ID written on Cont./ Lid
#9 Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable
#10 Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#11 Containers supplied by ELOT?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#12 Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below
#13 Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below
#14 Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#15 Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#16 Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#17 Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below
#18 All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below
#19 Subcontract of sample(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable
#20 VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable

**Variance Documentation**

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

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

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

- Check all that Apply:
- See attached e-mail/ fax
  - Client understands and would like to proceed with analysis
  - Cooling process had begun shortly after sampling event