# Analytical Report 295702

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for

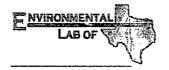
# **Yates Petroleum Corporation**

**Project Manager: Robert Asher** 

State B # 4

30-015-02182

15-JAN-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215

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

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



15-JAN-08



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

Reference: XENCO Report No: 295702 State B # 4 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 295702. 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. 295702 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 295702

Yates Petroleum Corporation, Artesia, NM

State B # 4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-001	S	Jan-09-08 10.30	12 - 16 In	295702-001

**ST NYBRNMENTAL** A#3 (1)

### Certificate of Analysis Summary 295702

Yates Petroleum Corporation, Artesia, NM Project Name: State B # 4

Project Id: 30-015-02182 Contact: Robert Asher Project Location: Eddy County

Date Received in Lab: Thu Jan-10-08 09:50 am

Report Date: 15-JAN-08 Project Manager: Bront Barron, II

Lab [d 295702-001 Field Id. GS/Comp-001 Analysis Requested Depth: 12 16 In Matrix: SOIL Sampled Tan-09/08/10/30 Jan-11-08 15 00 Extracted: BTEX by EPA 8021B Jan-11-08 19 11 Analyzed: Units/RL. mg/kg RL, 0.0011 0.0011 Benzene Toluene 0.0034 0.0021 Ethylbenzene 0.0039 0.0011 m,p-Xylene: 0.0051 0.0021 o-Xylene 0.0029 0.0011 Xylenes, 1 otal 0.008 Total BTEX 0.0164 Extracted: **Percent Moisture** Analyzed: Jan-10-08 10 4.2 Units/RL. 0, \_\_\_\_ RL, 6 76 Percent Moisture Jan-10 08 15 38 Extracted. **TPH by SW 8015B** Jan-13 (18 19 03 Analyzed. Units RL. RI, mg/kg C6-C10 Gasoline Range Hydrocarbons 161 163 541 C10-C28 Diesel Range Hydrocarbons 161 Total TPH 70.4

This analytical report and the entric data package it represents, has been made for your exclusive and conflict rist use. The interpretations and results expressed throughout this analytical report septement the best judgment of XENCO Laboratories AEMCO Laboratories assumes to responsibility and indics no warranty to the end use of the data hereby presented Our fabritity is finited to the amount its over defort in work, order unless observises agreed to in writing

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta Corpus Christi

Brent Barron

Odessa Laboratory Director



- 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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	Phone	Fax
11381 Meadowglen Lane Suite L Houston, Tx 77082-2647	(281) 589-0692	(281) 589-0695
9701 Harry Hines Blvd . Dallas. TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238	(210) 509-3334	(201) 509-3335
2505 N. Falkenburg Rd., Tampa, FL 33619	(\$13) 620-2000	(813) 620-2033
5757 NW 158th St. Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
6017 Financial Dr., Norcross, GA 30071	(770) 449-8800	(770) 449-5477

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

Client	llates	
Date/ Time:	11/30/07 9:00	
Lab ID # :	293794	· ·
Initials:	ARING	

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## Sample Receipt Checklist

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#1 Temperature of container/ cooler?	(Yes)	No	1.5 °C	
#2 Shipping container in good condition?	Yes	No	1	
#3 Custody Seals intact on shipping container/ cooler?	CYES	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5 Chain of Custody present?	Yes	No		_
#6 Sample instructions complete of Chain of Custody?	(Yes	No.	· · ·	·····
#7 Chain of Custody signed when relinguished/ received?	Yes	No		'
#8 Chain of Custody agrees with sample label(s)?	tes	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	(Tes)	No	Not Applicable	-2
#10 Sample matrix/ properties agree with Chain of Custody?	(res)	No		1.5
#11 Containers supplied by ELOT?	Yes -	No	· · · · · · · · · · · · · · · · · · ·	
#12 Samples in proper container/ bottle?	(Yes)	No	See Below	
#13 Samples properly preserved?	Yes	No	See Below	
#14 Sample bottles infact?	(Yes	No		
#15" Preservations documented on Chain of Custody?	Ces	No		
#16 Containers documented on Chain of Custody?	Yes	No		
#17 Sufficient sample amount for indicated test(s)?	(Yes	Nó	See Below	
#18 All samples received within sufficient hold time?	Yes	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	Not Applicable	
#20 VOC samples have zero headspace?	Yes	No	Not Applicable	, - ,

# Variance Documentation

Contact	Contacted by:	Date/ Time:
Regarding:	· · · · · · · · · · · · · · · · · · ·	
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Corrective Action Taken:	···	
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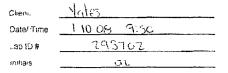
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### Environmental Lab of Texas

#### Variance/ Corrective Action Report- Sample Log-In



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#### Sample Receipt Checklist

				Chent Initia
#1	Temperature of container/ cooler?	(es)	No	30 °C
#2	Shipping container in good condition?	Ve3	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#A	Custody Seals imact on sample bottles/ container?	Yes	No	Not Present
#5	Chain of Custody present?	Yes	No	
#6	Sample instructions complete of Chain of Custody?	(es'	No	
<b>#</b> 7	Chain of Custody signed when relinquished/ received?	Yes	No	
#8	Chain of Custooy agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11	Containers supplied by ELOT?	Yes	No	
#12	Samples in proper container/ politie?	Yes	No	See Below
#15	Saniples property preserved?	Yes	No	See Below
#14	Sample bollies intact?	Xes	No	
#15	Preservations documented on Chain of Custody?	Yes	No	
<b>#16</b>	Containers documented on Chain of Custody?	Yes	No	1
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18	All samples received within sufficient hold time?	Yes	No	See Below
#19	Subcontract of sample(s)?	Yes	No	Not Applicable
#20	VOC samples have zero headspace?	Yes	No	Not Applicable

#### Variance Documentation

Contact

,

Contacted by, \_\_\_\_\_ Date/ Time

Regarding

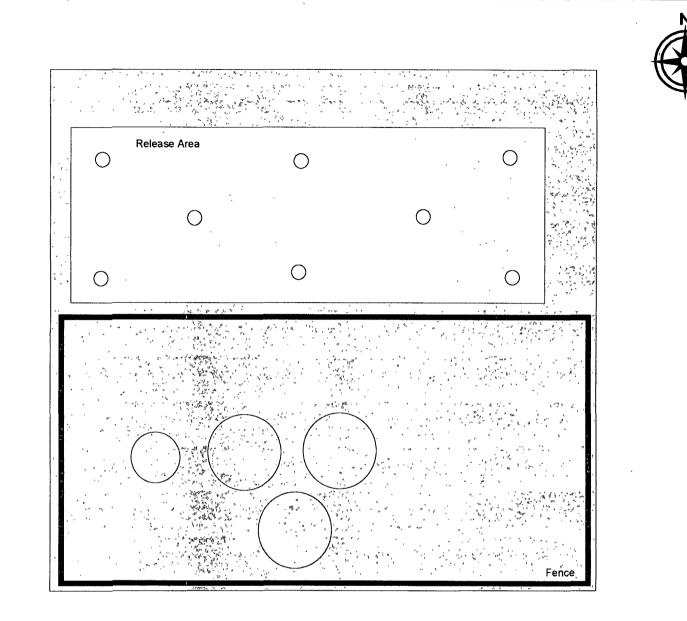
Corrective Action Taken.

\_\_\_\_\_

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



Sample ID	Sample Date	Sample Type	Depth	BTEX	TPH (GRO)	TPH (DRO)	TPH (TOTAL)	Chlorides *
GS/Comp-001	11/29/2007	Grab/Auger	6 - 12"	5.9498	1660	19660	21320	851
GS/Comp-001	1/9/2008	Grab/Auger	16"	0.0164	16.3	54.1	70.4	

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 150'). All results are ppm



John A. Yates Jr. Oil Producers

EXHIBIT Sample Diagram (NOT TO SCALE)

State B #4

Section 5, T19S-R28E

**Eddy County, NM** 

Prepared by Robert Asher Environmental Regulatory Agent January 16, 2008

# Analytical Report 293794

for

**Yates Petroleum Corporation** 

**Project Manager: Robert Asher** 

State B #4

30-015-2182

07-DEC-07

12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers: Houston, TX T104704215

Florida certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

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



07-DEC-07

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

Reference: XENCO Report No: 293794 State B #4 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 293794. 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. 293794 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, 11 Odessa Laboratory Manager Recipient of the Prestigious Small Certified and approv

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Sample Cross Reference 293794

# Yates Petroleum Corporation, Artesia, NM

State B #4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-()01	S	Nov-29-07 09-20	6" - 12" In	293794-001



- 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 presenceindicates 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 and above the SQL.
- 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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Benzene

Toluene Ethylbenzene

m.p-Xylence

Xylenes, Total Total BTEX

Percent Monsture

Total **FPH** 

Chloride

C6-C10 Gasoline Range Hydrocarbons

C10-C23 Diesel Range Hydrocarbons

Total Chloride by EPA 325.3

o-Nylene

### Certificate of Analysis Summary 293794

Yates Petroleum Corporation, Artesia, NM

Dec-05-07 22 18

1660

18000

19660

mg/kg

Nov-30-07 17 20

351

mg/kg

RL.

81.1

81,1

RĽ,

5.00

Analyzed.

Units/RL.

Extracted:

Analyzed.

Units RL.

Project Name: State B #4

Project Id: 30-015-2182 Contact: Robert Asher Project Location: Eddy County

Report Date: 07-DEC-07

Project Manager: Brent Barron, II Lab Id: 293794-001 Field Id: GS/Comp-001 Analysis Requested Depth: 6" 12' In Matrix: SOIL Nov-29-07 09 20 Sampled: Dec-05-07 11 15 Extracted. BTEX by EPA 8021B Dec-05-07 14 27 Analyzed: Units RL. RL mg/kg 0.0111 0.0054 0.5327 0.0108 1 092 0 0054 2 413 0 0105 1 901 0 0054 4314 5 9498 Extracted: Percent Moisture Nov-30-07 14 15 Analyzed: Units RL: RL % 7 57 1 00 Dec-04-07 11 41 Extracted: **TPH by SW 8015B** 

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Brent Barron

Odessa Laboratory Director