

# YATES PETROLEUM CORPORATION

Monday, March 07, 2011

GISSLER AV "B" BATTERY  
PROP# 027590-002

5 SPOT COMPOSITE

**B:** BTEX = ND

GRO = ND

DRO = 223 PPM

**N:** BTEX = ND

GRO = ND

DRO = ND

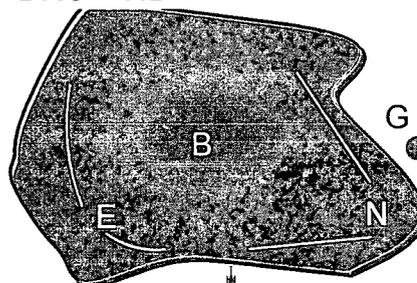
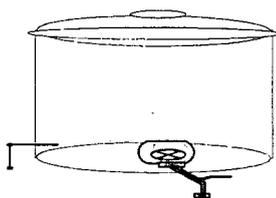
**E:** BTEX = ND

GRO = ND

DRO = ND

SW

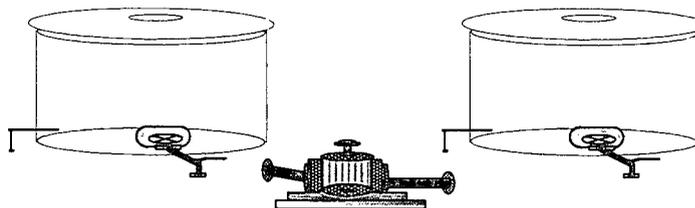
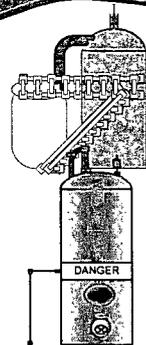
NW



**G:**  
BTEX = 261.9  
GRO = 4020  
DRO = 16000



RECEIVED  
MAR 10 2011  
NMOCD ARTESIA



SE

NE



January 14, 2011

AMANDA TRUJILLO

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: GISSLER AVB

Enclosed are the results of analyses for samples received by the laboratory on 01/07/11 14:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received: 01/07/2011  
 Reported: 01/14/2011  
 Project Name: GISSLER AVB  
 Project Number: NONE GIVEN  
 Project Location: GISSLER AVB

Sampling Date: 01/06/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BOTTOM 8' BGS (H100048-01)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2011	ND	1.72	86.1	2.00	5.22		
Toluene*	<0.050	0.050	01/12/2011	ND	1.83	91.5	2.00	2.75		
Ethylbenzene*	<0.050	0.050	01/12/2011	ND	2.03	102	2.00	0.932		
Total Xylenes*	<0.150	0.150	01/12/2011	ND	6.32	105	6.00	0.155		

Surrogate: 4-Bromofluorobenzene (PII) 113 % 70-130

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	01/14/2011	ND	208	83.0	250	2.58		
<b>DRO &gt;C10-C28</b>	<b>223</b>	50.0	01/14/2011	ND	206	82.3	250	3.08		

Surrogate: 1-Chlorooctane 82.7 % 70-130

Surrogate: 1-Chlorooctadecane 85.6 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	01/07/2011	Sampling Date:	01/06/2011
Reported:	01/14/2011	Sampling Type:	Soil
Project Name:	GISSLER AVB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	GISSLER AVB		

**Sample ID: NORTH WALL 8' BGS (H100048-02)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2011	ND	1.72	86.1	2.00	5.22		
Toluene*	<0.050	0.050	01/12/2011	ND	1.83	91.5	2.00	2.75		
Ethylbenzene*	<0.050	0.050	01/12/2011	ND	2.03	102	2.00	0.932		
Total Xylenes*	<0.150	0.150	01/12/2011	ND	6.32	105	6.00	0.155		

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 70-130

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/14/2011	ND	208	83.0	250	2.58		
DRO >C10-C28	<10.0	10.0	01/14/2011	ND	206	82.3	250	3.08		

Surrogate: 1-Chlorooctane 89.8 % 70-130

Surrogate: 1-Chlorooctadecane 95.4 % 70-130

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Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	01/07/2011	Sampling Date:	01/06/2011
Reported:	01/14/2011	Sampling Type:	Soil
Project Name:	GISSLER AVB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	GISSLER AVB		

**Sample ID: EAST WALL 8' BGS (H100048-03)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2011	ND	1.72	86.1	2.00	5.22	
Toluene*	<0.050	0.050	01/12/2011	ND	1.83	91.5	2.00	2.75	
Ethylbenzene*	<0.050	0.050	01/12/2011	ND	2.03	102	2.00	0.932	
Total Xylenes*	<0.150	0.150	01/12/2011	ND	6.32	105	6.00	0.155	

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 70-130

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/14/2011	ND	208	83.0	250	2.58	
DRO >C10-C28	<10.0	10.0	01/14/2011	ND	206	82.3	250	3.08	

Surrogate: 1-Chlorooctane 80.2 % 70-130

Surrogate: 1-Chlorooctadecane 89.8 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

Yates Energy Petroleum Corp  
 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received: 01/07/2011  
 Reported: 01/14/2011  
 Project Name: GISSLER AVB  
 Project Number: NONE GIVEN  
 Project Location: GISSLER AVB

Sampling Date: 01/06/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

### Sample ID: GRAB SAMPLE (H100048-04)

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.50	2.50	01/13/2011	ND	1.63	81.4	2.00	11.4	
Toluene*	41.5	2.50	01/13/2011	ND	1.79	89.6	2.00	10.9	
Ethylbenzene*	30.4	2.50	01/13/2011	ND	2.03	102	2.00	10.8	
Total Xylenes*	190	7.50	01/13/2011	ND	6.32	105	6.00	11.1	

Surrogate: 4-Bromofluorobenzene (PIL) 127 % 70-130

TPH 8015M		mg/kg		Analyzed By: AB						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	4020	100	01/14/2011	ND	208	83.0	250	2.58		
DRO >C10-C28	16000	100	01/14/2011	ND	206	82.3	250	3.08		

Surrogate: 1-Chlorooctane 137 % 70-130

Surrogate: 1-Chlorooctadecane 90.7 % 70-130

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**Notes and Definitions**

- S-06            The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM4500CI-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report





