MARTIN YATES, III

FRANK W. YATES

S.P. YATES



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: Cigarillo SWD #1

2RP-849 30-015-21643

Section 36, T23S-R27E 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 26, 2011.

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

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

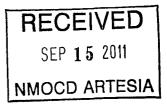
Thank you.

YATES PETROLEUM CORPROATION

Umber Cannon

Amber Cannon
Environmental Regulatory Agent Trainee

Enclosure(s)



Yates Petroleum Corporation

Cigarillo SWD #1

**Section 36, T23S-R27E** 

Eddy County, New Mexico

September 12,-2011

#### I. Location

The well is located approximately 3 miles southwest of Loving, NM and 0.1 miles north of Bounds Road, as represented by the attached Otis, NM, USGS Quadrangle Map.

#### II. Background

On July 27, 2011, Yates submitted to the NMOCD District II office a Form C-141 for a release of 380 B/PW with 367 B/PW recovered. The total affected area is approximately 150 feet by 95 feet. The release was from a suction line on the primary water pump rupturing. A contractor excavated visible contamination (approximately 6"-12") of impacted soils; those impacted soils were taken to an NMOCD approved facility. Initial delineation samples were taken (8/30/2011) and sent to an NMOCD approved laboratory (9/8/2011, results enclosed).

#### III. Surface and Ground Water

Area surface geology ranges from Cenozoic to Paleozoic. The nearest groundwater of record is listed on the New Mexico Office of the State Engineer (Section 35, T23S-R27E) shows depth to groundwater approximately 67 feet making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is ten (10) based on the as following:

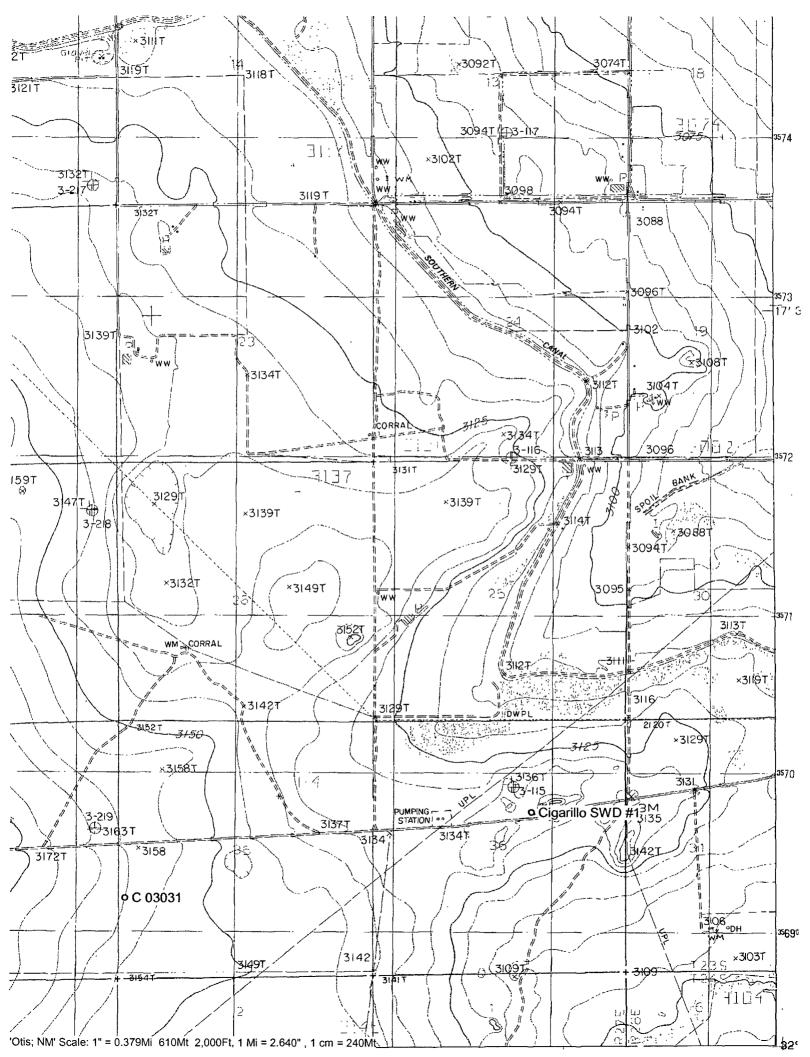
Depth to ground water 50-99'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

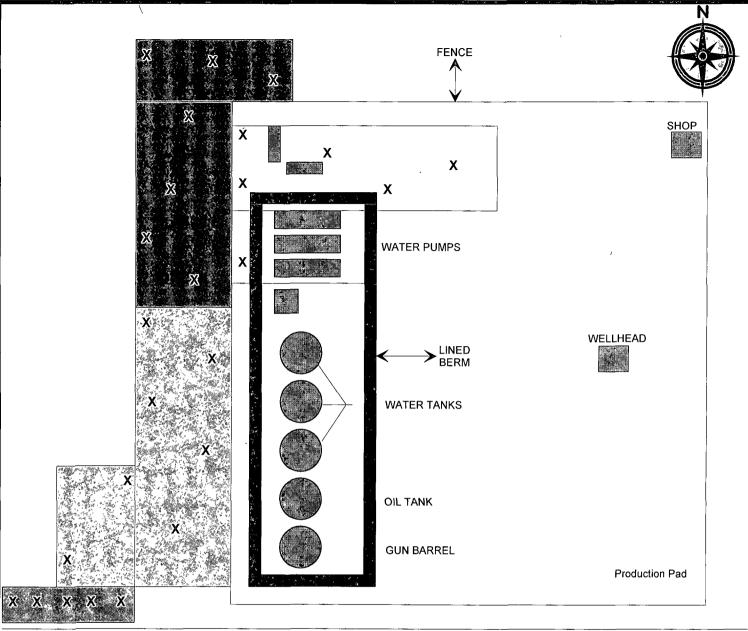
### IV. Soils

The area consists of soils that are caliche and loamy top soil and are interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

### V. Scope of Work

Based on analytical results, Yates Petroleum Corporation will conduct vertical delineation sampling on release/excavation area, these samples will be taken to delineate chlorides to a minimum of 5,000 ppm to show decreasing levels of chlorides and then coordinate with the NMOCD for any further remediation within the release/excavation areas. The samples will be sent to an NMOCD approved laboratory. The sampling area was divided into four separate sections. The initial sample results ran on August 30, 2001 for sections 2, 3, and 4 for TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of ten (10), no further analytical testing of TPH and or BTEX will be conducted for these sections. The initial sample results ran for section 1 for TPH & BTEX are not within the RRAL's for BTEX and TPH and further delineation samples will be taken. When remediation work is completed a C-141, Final Report, analytical results and a site sample diagram will be submitted to the NMOCD and request closure of the site. Upon Final C-141 approval the excavation will be backfilled with clean, like materials.





#### LEASE ROAD

Analytical Report- 426981 & 426978	Sample Area	.Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp_#1	Release Area	8/30/2011	Comp/Shovel	6" BSL*	0.0270	30.7	1500	1530	27,400
Comp-#2	Release Area	8/30/2011	Comp/Shovel	6" BSL*	ND	ND	39 3	39 3	15,700
.Comp-#3	Release Area	8/30/2011	Comp/Shovel	6" BSL*	ND	ND	802	802	17,700
Comp-#4	Release Area	8/30/2011	Comp/Shovel	6" BSL*	ND	ND	745	745	15,300

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 67', Section 35-23S-27E, per NMOSE).

All results are ppm.Chlorides for documentation. X - Sample Points

Released: 380 B/PW; Recovered: 367 B/PW. Release Date: 7/24/2011

\*BSL: Below Surface Level



Cigarillo SWD #1

30-015-21643

**Section 36, T23S-R27E** 

**Eddy County, NM** 

SAMPLE DIAGRAM(Not to Scale)

Xenco Laboratories#426981 & 426978 Report Date: 9/8/2011

Prepared by Amber Cannon Environmental Regulatory Agent Trainee

### **Analytical Report 426978**

for Yates Petroleum Corporation

Project Manager: Amber Cannon
Cigarillo SWD #1
30-015-21643
08-SEP-11

Collected By: Client



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#### 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)
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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: 426978

Cigarillo SWD #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 426978. 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. 426978 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 426978 Yates Petroleum Corporation, Artesia, NM

### Cigarillo SWD #1

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
Comp-#1	S	08-30-11 09:33	2 - 2 In	426978-001
Comp-#2	S	08-30-11 09:45	2 - 2 In	426978-002
Comp-#3	S	08-30-11 09:55	2 - 2 In	426978-003
Comp-#4	S	08-30-11 10:06	2 - 2 In	426978-004

### CASE NARRATIVE



Client Name: Yates Petroleum Corporation

Project Name: Cigarillo SWD #1



Project ID:

30-015-21643

Work Order Number: 426978

Report Date: 08-SEP-11 Date Received: 09/02/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-869210 BTEX by EPA 8021B

SW8021BM

Batch 869210, Ethylbenzene, Toluene, m\_p-Xylenes, o-Xylene recovered below QC limits in the

Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 426978-004, -002, -001, -003.

The Laboratory Control Sample for Toluene, Ethylbenzene, m p-Xylenes, o-Xylene is within

laboratory Control Limits

Batch: LBA-869330 TPH By SW8015B Mod

SW8015B NM

Batch 869330, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix

Spike Duplicate.

Samples affected are: 426978-004, -002, -001, -003.

The Laboratory Control Sample for C6-C10 Gasoline Range Hydrocarbons is within laboratory

Control Limits



### Certificate of Analysis Summary 426978

### Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-21643

Project Location: Eddy County

Contact: Amber Cannon

Project Name: Cigarillo SWD #1

Date Received in Lab: Fri Sep-02-11 08:00 am

Report Date: 08-SEP-11

Project Manager: Brent Barron II

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	Lab Id:	42 <u>6</u> 978-0	001	426978-0	102	426978-0	003	426978-0	04			
Analysis Requested	Field Id:	Comp-#	‡1	Comp-#	12	Comp-#	<b>/</b> 3	Comp-#	4			
Armiysis Requesica	Depth:	2-2 In		2-2 In	. ]	2-2 In		2-2 In				
	Matrix:	SOIL		SOIL	1	SOIL		SOIL			1	
	Sampled:	Aug-30-11	09:33	Aug-30-11	09:45	Aug-30-11	09:55	Aug-30-11	10:06			
BTEX by EPA 8021B	Extracted:	Sep-02-11	12:00	Sep-02-11	12:00	Sep-02-11	12:00	Sep-02-11	12-00			
	Analyzed:	Sep-03-11	14:36	Sep-03-11	08:52	Sep-03-11	09:15	Sep-03-11	09.38			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Benzene		ND	0.00101	ND	0.000992	ND	0.00101	ND	0.00100			
Toluene		ND	0.00201	ND	0.00198	ND	0.00201	ND	0.00200			
Ethylbenzene		0.00286	0.00101	ND	0.000992	ND	0.00101	ND	0.00100			
m_p-Xylenes		0.0168	0.00201	ND	0.00198	ND	0.00201	ND	0.00200	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
o-Xylene		0.00732	0 00101	ND	0.000992	ND	0.00101	ND	0.00100			
Total Xylenes		0.0241	0.00101	ND	0.000992	ND	0.00101	ND	0.00100			
Total BTEX		0.0270	0.00101	ND	0.000992	ND	0.00101	ND	0.00100			
Percent Moisture	Extracted:											
	Analyzed:	Sep-02-11	10:00	Sep-02-11	10:00	Sep-02-11	10:00	Sep-02-11	10:00		}	
	Units/RL:	%	RL	%	RL	%	RL	%	RL			
Percent Moisture		1.45	1.00	ND	1.00	ND	1.00	ND	1.00			
TPH By SW8015B Mod	Extracted:	Sep-02-11	14:30	Sep-02-11	14:30	Sep-02-11	14:30	Sep-02-11	14:30			
	Analyzed:	Sep-03-11	16:11	Sep-03-11	16:42	Sep-03-11	17:13	Sep-03-11	17:44			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL			
C6-C10 Gasoline Range Hydrocarbons		30.7	15.1	ND	15.0	ND	15.1	ND	15.1		ľ	
C10-C28 Diesel Range Hydrocarbons		1500	15.1	39 3	15.0	802	15.1	745	15.1			
Total TPH		1530	15.1	39 3	15.0	802	15.1	745	15.1			

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 wrung.

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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 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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5332 Blackberry Drive, San Antomo TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkcaburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West 1-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E. Atlanta Avc, Phoenix, AZ 85040	(602) 437-0330	` *

Relinquished by:

XFNCO-	Environm	ental Lab	of Texas
VEIACO-		Cillai Lau	UI ICAGE

Date

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	City/State/Zip:	Artesia, NM	88210						, i j												PC	) #: <sub>.</sub>	103	2020	0									
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Time 8.60

Temperature Upon Receipt:

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#### XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Mlami, 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:	Yate	5			_				
Date/Time:	12-11 8	3. <b>6</b> 0			_				
Lab ID#:	426c	178/42	6981-CI		_				
Initials:	£U.								
			S	ample Rece	ipt Checki	list			
1. Samples on i	ce?					Blue	Water	No	
2. Shipping con	tainer in	good condi	tion?			Yes	No	None	
3. Custody seal	s intact o	n shipping	container (co	ooler) and bottle	es?	(Yes)	No	N/A	
4. Chain of Cust	tody pres	ent?				(Yes)	No		
5. Sample instru	uctions c	omplete on	chain of cus	tody?		(Yes)	No		
6. Any missing	extra sa	mples?				Yes	No		
7. Chain of cust	ody sign	ed when rel	inquished / r	eceived?		Yes	No		
8. Chain of cust	ody agre	es with san	ple label(s)?	<u> </u>		Yes	No		
9. Container lab	els legib	le and intac	t?		<del>-</del>	Yes	No		
10. Sample mat	rix / prop	erties agree	with chain o	of custody?		(Yes)	No ·		
11. Samples in	proper co	ontainer / bo	ottle?			Yes	No		
12. Samples pro	perly pre	eserved?				Yes	No	N/A	
13. Sample con	tainer int	act?	<u> </u>			Yes	No		
14. Sufficient sa	ımple am	ount for inc	licated test(s	)?		(Yes)	No		
15. All samples	received	within suffi	icient hold tù	ne?		Yes	No		
16. Subcontract	of samp	le(s)?				Yes	(No)	N/A	
17. VOC sample	have ze	ro head spa	ce?			Yes	No	N/A	
18. Cooler 1 No.		Cooler 2 N	0.	Cooler 3 No.		Cooler 4 No	١,	Cooler 5 No.	
lbs	<u>4.1 °c</u>	lbs	°C	lb	s °C	lbs	°c	ibs	°c
			Nonc	onformance	Docume	ntation			
Contact:				/:			Date/Time:		
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Corrective Action	on Taken								
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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 426981**

### for Yates Petroleum Corporation

Project Manager: Amber Cannon
Cigarillo SWD #1
30-015-21643
08-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 (PII-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)

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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: 426981

Cigarillo SWD #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 426981. 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. 426981 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 426981**

Yates Petroleum Corporation, Artesia, NM Cigarillo SWD #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-#1	S	08-30-11 09:33	2 - 2 In	426981-001
Comp-#2	S	08-30-11 09:45	2 - 2 In	426981-002
Comp-#3	S	08-30-11 09:55	2 - 2 In	426981-003
Comp-#4	S	08-30-11 10:06	2 - 2 In	426981-004

### CASE NARRATIVE



Client Name: Yates Petroleum Corporation

Project Name: Cigarillo SWD #1



Project ID:

30-015-21643

Work Order Number: 426981

Report Date: 08-SEP-11

Date Received: 09/02/2011

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Final 1.000



### Certificate of Analysis Summary 426981

### Yates Petroleum Corporation, Artesia, NM

Project Name: Cigarillo SWD #1



Project Id: 30-015-21643 Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Fri Sep-02-11 08:00 am

Report Date: 08-SEP-11

								Project Mar	lager:	Brent Barron II		 
_	Lab Id:	426981-0	01	426981-00	02	426981-00	03	426981-0	04			
Analysis Requested	Field Id:	Comp-#	1	Comp-#2	2	Comp-#3	3	Comp-#	4			
Anatysis Requestea	Depth:	2-2 In		2-2 In		2-2 In		2-2 In				
	Matrix:	SOIL		SOIL		SOIL		SOIL				
	Sampled:	Aug-30-11 (	09:33	Aug-30-11 0	9:45	Aug-30-11 0	9:55	Aug-30-11	0:06			
Anions by E300	Extracted:											 
	Analyzed:	Sep-07-11	19:40	Sep-07-11 1	9·40	Sep-07-11 1	9:40	Sep-07-11 1	9:40		1	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		27400	852	15700	420	17700	423	15300	423			
Percent Moisture	Extracted:											
	Analyzed:	Sep-02-11	10:00	Sep-02-11 1	0:00	Sep-02-11 1	0.00	Sep-02-11 1	0:00		- 1	
	Units/RL:	%	RL	%	RL	%	RL	%	RL			
Percent Moisture		1.45	1.00	ND	1.00	ND	1.00	ND	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 wrranty to the end use of the data hereby presented Our hability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Odessa Laboratory Manager

Final 1.000



### **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

POL Practical Quantitation Limit

MQL Method Quantitation Limit

LOO Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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# Page 10 of 11

### **XENCO-Environmental Lab of Texas**

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

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	Project Manager: Amber Cannon  Company Name Yates Petroleum Corporation																_	Pro	jec	t Nar	ne:	Cig	ari	llo	sw	D #	<del>‡</del> 1					
	Company Name	Yates Petrole	um Corporat	lon					7								_		Pr	ojec	t#:_	30-0	)15-	216	43							
	Company Address:	105 South 4th	Street														_	P	roje	ct L	oc: ]	Eddy	Cou	unty								
	City/State/Zip:	Artesia, NM	88210														_			PC	) #: _	1032	020									
	Telephone No:	575-748-4111	Ī				Fax No:		575	5-74	8-45	35					 F	Report	Fo	rmat	. I	×	Stan	dard			TRI	RP	1	Пи	IPDE	s
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LAB # (lab use only)				Beginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	folel #. of Containers		8		ð	Ξ	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None Other (Specify)	DW=Drmking Water	GW = Groundwaler NP≂Non-Potable S	4181		Cations (Ca, Mg, Na,	13 (C	SAR / ESP / CEC	Is: As	Semivolatiles	B1EX 8021B/5030 or		N.D.R.M.	Chforides		H TA	Standard TAT
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### XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadeliphia 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: Vale	.0					•		
Date/Time: 9-2-11 8								<i>/</i> .
	178/42/098	1-0	1					
Initials:	10796010							
IIIIdais. My			Name to Descript	Chask	lint			
		2	Sample Receipt	Check	list			
1. Samples on ice?					Blue	Water	No	
2. Shipping container in	good condition?				Yes	No	None	
3. Custody seals intact o	n shipping contai	ner (c	ooler) and bottles?		Yes	No	N/A	
4. Chain of Custody pres	ent?				(Yes)	No		
5. Sample instructions co	omplete on chain	of cus	stody?		Yes	No		
6. Any missing / extra sa	mples?				Yes	(No)		
7. Chain of custody signs	ad when relinquis	hed/	received?		Yes	No		
8. Chain of custody agree	es with sample lat	bel(s)	?		Yes	No		
9. Container labels legibl	e and intact?				Yes	No		
10. Sample matrix / prope	erties agree with c	hain	of custody?		(Yes)	No		
11. Samples in proper co	ntainer / bottle?				Yes	No		
12. Samples properly pre	served?				Yes	No	N/A	
13. Sample container inta	ict?				Yes)	No		
14. Sufficient sample am	ount for indicated	test(s	s)?		(Yes)	No		
15. All samples received	within sufficient h	old ti	me?		Yes	No		
16. Subcontract of sample	le(s)?				Yes	(No)	N/A	
17. VOC sample have zer	o head space?				Yes	No	N/A	
18. Cooler 1 No.	Cooler 2 No.		Cooler 3 No.		Cooler 4 No		Cooler 5 No.	
(bs 4,) °C	lbs	°C	lbs	°င	edi	°c	lbs	°c
	1	Nonc	conformance Do	cume	ntation			
Contact:			y:			D-4-17:		
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Regarding:								
Corrective Action Taken:	:							
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Check all that apply:			egun shortly after sable by NELAC 5.5.8			ut of tempe	rature	

Final 1.000

☐ Initial and Backup Temperature confirm out of temperature conditions

□ Client understands and would like to proceed with analysis