Analytical Report 405104

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Dagger Draw Water System

30-015-26299 (Arrow ARW Federal Com. # 1)

03-FEB-11



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Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0738), 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-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL01273): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





03-FEB-11



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

Reference: XENCO Report No: 405104 Dagger Draw Water System 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 405104. 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. 405104 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 405104



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Yates Petroleum Corporation, Artesia, NM

Dagger Draw Water System

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	Jan-25-11 10:24	6 - 6 In	405104-001
Comp-01.0	S	Jan-25-11 11:02	12 - 12 In	405104-002
Comp-01.5	S	Jan-25-11 11:36	18 - 18 In	405104-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Dagger Draw Water System



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Project ID: 30-015-26299 (Arrow AR) Work Order Number: 405104 Report Date: 03-FEB-11 Date Received: 01/28/2011

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

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Certificate of Analysis Summary 405104

Yates Petroleum Corporation, Artesia, NM Project Name: Dagger Draw Water System



Project Id: 30-015-26299 (Arrow ARW Federal Com. Contact: Robert Asher Project Location: Eddy County

Date Received in Lab: Fri Jan-28-11 01:25 pm Report Date: 03-FEB-11

Project Manager: Brent Barron, II

	Lab Id:	405104-	001	405104-0	02	405104-0	003		
Analysis Requested	Field Id:	Comp-0	0.5	Comp-01	.0	Comp-02	1.5		
Analysis Requested	Depth: 6-0		a	12-12 I	n	18-18 I	n		
	Matrix:	SOIL	SOIL SOIL		SOIL	,			
	Sampled:	Jan-25-11	n-25-11 10:24 Jan-		1:02	Jan-25-11 11:36			
Anions in Soil By EPA 300.0	Extracted:								
	Analyzed:	Jan-31-11	-31-11 20:02 Jan		0:02	Jan-31-112	20:02		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		361	20.0	386	20.5	376	20.1		
Percent Moisture	Extracted:								
	Analyzed:	Jan-28-11	17:00	Jan-28-11 1	Jan-28-11 17:00		17.00	~	
	Units/RL:	%	RL	%	RL	%	RL	 	
Percent Moisture		16.0	1.00	18.1	1.00	16.3	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 warming 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.

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Brent Barron, II

Odessa Laboratory Manager

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 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 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.

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
- PQL Practical Quantitation Limit
- * Outside XENCO's scope of NELAC Accreditation.

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	Project Manager:	Robert Asher	ert Asher													Proje	ect N	t Name: Dagger Draw Water System													
	Company Name	Yates Petroleum Corpo	ration													Proj	ect					aral Co	om, #1	1)							
	Company Address	105 South 4th Street										 ,		·			Pr	ojeci	Lo	c: <u>E</u>	ddy	Cour	nty								
	City/State/Zip:	Artesia, NM 88210													<u> </u>				PO i	#: <u>1(</u>	0563	12									
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	Cor Cor	LD CODE mp-00.5 mp-01.0 mp-01.5		6" 12 ⁿ 18"	명 명 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	рэдше ше 10:24 AM 11:02 AM 11:36 AM	Field Filtered	Total #. of Containers	X X Ice	HNO ₃	HCI	H2S04	NaOH Na ₇ S ₂ O ₃	None		C C C C Evention Water Stadge	NP=Non-Polabla Specify Otha	800 W1 2010 1.814 1.911 X X X X		Alka	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg		Serrivalatiles	X X X BITEX 8021645030 or BTEX 8260	RCI	N O.R.M.	X X X Chlorides		RUSH TAT (Pre-Schedule) 24.	
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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

	Notes Ostinleur	\sim
Client:	TAILS TOMOLOW	1 ¥ 1
Date/Time:	1 28 11 13	25
Lab ID #:	405103 40	5104
Initials:	·AE	

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)?	(Yes)	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		
11. Samples in proper container / bottle?	Yes	No		_
12 Samples property preserved?	(Yes	No	N/A	·
13. Sample container intact?	Tes	No		
14. Sufficient sample amount for Indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	Yee	No		
16. Subcontract of sample(s)?	(Yes	STIC No	(N/A)	
17. VOC sample have zero head space?	Yes	No	NA	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4	No.	Cooler 5 No.	
$lbs / a \bigcirc ^{\circ}C$ $lbs \circ ^{\circ}C$ lbs	°c	bs °C	lbs	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Nonconformance Documentation

Contact	_Contacted by:	Date/Time:
Regarding:		
Corrective Action Taken:		
		_
-		

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.

Client understands and would like to proceed with analysis

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Analytical Report 405103

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Dagger Draw Water System

30-015-26299 (Arrow ARW Federal Com. # 1)

03-FEB-11



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



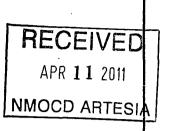
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03-FEB-11



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

Reference: XENCO Report No: 405103 Dagger Draw Water System 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 405103. 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. 405103 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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Yates Petroleum Corporation, Artesia, NM

Sample Cross Reference 405103

Dagger Draw Water System

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	Jan-25-11 10:24	6 - 6 In	405103-001
Comp-01.0	S	Jan-25-11 11:02	12 - 12 In	405103-002
Comp-01.5	S	Jan-25-11 11:36	18 - 18 In	405103-003

CASE NARRATIVE



Client Name: Yates Petroleum Corporation Project Name: Dagger Draw Water System



Project ID: 30-015-26299 (Arrow ARV Work Order Number: 405103 Report Date: 03-FEB-11 Date Received: 01/28/2011

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-841669 BTEX by EPA 8021 SW8021BM

Batch 841669, Ethylbenzene recovered below QC limits in the Matrix Spike. o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 405103-002, -001. The Laboratory Control Sample for Ethylbenzene, o-Xylene is within laboratory Control Limits

Batch: LBA-841680 Percent Moisture

Batch: LBA-841876 BTEX by EPA 8021 SW8021BM

Batch 841876, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 405103-003.

SW8021BM

Batch 841876, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 405103-003. The Laboratory Control Sample for Toluene, m,p-Xylenes, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

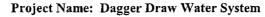
Batch: LBA-842022 TPH by SW 8015B



Certificate of Analysis Summary 405103

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Yates Petroleum Corporation, Artesia, NM





Project Id: 30-015-26299 (Arrow ARW Federal Com. Contact: Robert Asher Project Location: Eddy County

Date Received in Lab: Fri Jan-28-11 01:25 pm Report Date: 03-FEB-11

Project Manager: Brent Barron, II

	Lab Id:	405103-001	405103-002	405103-003		
Analysis Requested	Field Id:	Comp-00.5	Comp-01.0	Comp-01.5		
Analysis Requesieu	Depth:	6-6 In	12-12 In	18-18 In		
	Matrix:	SOIL	SOIL	SOIL		
	Sampled:	Jan-25-11 10:24	Jan-25-11 11:02	Jan-25-11 11:36		
BTEX by EPA 8021	Extracted:	Jan-29-11 09:11	Jan-29-11 09:11	Jan-31-11 13:04	 · · · · · · · · · · · · · · · · · · ·	
	Analyzed:	Jan-30-11 03:12	Jan-30-11 02:03	Feb-01-11 02:25		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		ND 0.0202	ND 0 0010	0.0062 0.0060		
Toluene		0.0645 0.0403	ND 0.0020	0.0423 0.0119		
thylbenzene		0.1444 0.0202	0.0014 0.0010	0.0330 0.0060		
ı,p-Xylenes		0.7800 0.0403	0 0032 0.0020	0.1912 0.0119		
o-Xylene		0.3119 0.0202	0.0037 0.0010	0.1056 0.0060		
Xylencs, Total		1.092 0.0202	0.0069 0.0010	0.2968 0.0060		
Total BTEX		1.301 0.0202	·0.0083 0.0010	0.3783 0.0060		
Percent Moisture	Extracted:					
	Analyzed:	Jan-28-11 17:00	Jan-28-11 17:00	Jan-28-11 17:00		
	Units/RL:	% RL	% RL	% RL		
Percent Moisture	*****************	16.0 1.00	18.1 1.00	16.3 1.00		
TPH by SW 8015B	Extracted:	Jan-31-11 10:00	Jan-31-11 10:00	Jan-31-11 10:00		
	Analyzed:	Jan-31-11 13:49	Jan-31-11 14:18	Jan-31-11 14:47		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL		
C6-C10 Gasoline Range Hydrocarbons		18.9 17.9	ND 18.2	ND 18.0		
C10-C28 Diesel Range Hydrocarbons		721 17.9	76.0 18.2	324 18.0		
Total TPH		740 17.9	76.0 18.2	324 18.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed libroughout 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 hubbility is limited to the amount invoiced for this work order unless otherwase agreed to in writing.

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Brent Barron, II

Odessa Laboratory Manager

Page 5 of 18



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.
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- 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.
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BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

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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	Petro	bleum _	
Date/Time:	1.7	2.11	13 25 .	
	Ithe		TUDEIDU	
Lab ID #:	<u> </u>	A	900101	
Initials:		THE		

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?		Tes	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?			No		
8. Chain of custody agrees with sample label(s)?			No		
9. Container labels legible and intact?			No		
10. Sample matrix / properties agree with chain of custody?			No .		
11. Samples in proper container / bottle?			No		
12. Samples properly preserved?			No	N/A	
13. Sample container intact?			No		
14. Sufficient sample amount for indicated test(s)?			No		
15. All samples received within sufficient hold time?			- No		
16. Subcontract of sample(s)?			No	(N/A)	
17. VOC sample have zero head space?			No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.		Cooler 4 N	o.	Cooler 5 No.	· · · · · · · · · · · · · · · · · · ·
lbs / c c bs c bs	°C	lbs	<u> </u>	lbs	°c

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:
Regarding:		
Corrective Action Taken:		
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condition acceptable by NELAC 5.5.8.3.1.a.1. Dinitial and Backup Temperature confirm out of temperature conditions Client understands and would like to proceed with analysis

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