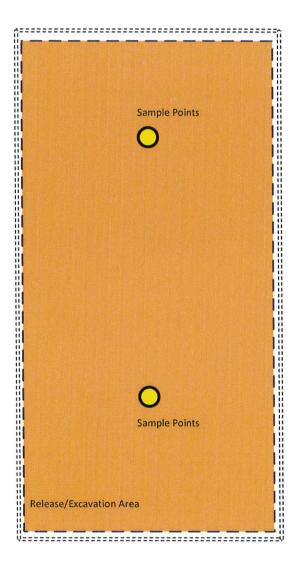
Sample Points







Yates Petroleum Corporation
Pathfinder AFT State #13; 30-005-62829;
Section 21, T10S-R27E; Chaves County, NM

NOT TO SCALE



Analytical Report- H403344 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
C01.0	Release Area	10/29/2014	Comp/Backhoe	1' (6' BSL)	<0.3	<10.0	<10.0	832
C02.0	Release Area	10/29/2014	Comp/Backhoe	2' (7' BSL)	<0.3	<10.0	<10.0	736
C03.0	Release Area	10/29/2014	Comp/Backhoe	3' (8' BSL)	<0.3	<10.0	<10.0	1580
Analytical Report- H403712 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
C04.0	Release Area	12/3/2014	Comp/Backhoe	4' (9' BSL)				1180
C05.0	Release Area	12/3/2014	Comp/Backhoe	5' (10' BSL)				1710
C06.0	Release Area	12/3/2014	Comp/Backhoe	6' (1' BSL)				1580
C07.0	Release Area	12/3/2014	Comp/Backhoe	7' (12' BSL)				1710
C08.0	Release Area	12/3/2014	Comp/Backhoe	8' (13' BSL)				1500
Analytical Report- H501502 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
C09.0	Background	6/4/2015	Comp/Backhoe	9' BSL				2320
C11.0	Background	6/4/2015	Comp/Backhoe	11' BSL				2600
C13.0	Background	6/4/2015	Comp/Backhoe	13' BSL				2520

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 75', per Trend Map).

All results are ppm.Chlorides for documentation.

Released: 285 B/PW; Recovered: 260 B/PW. Release Date: 7/29/2014



November 04, 2014

ROBERT ASHER
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: PATHFINDER AFT STATE #13

Enclosed are the results of analyses for samples received by the laboratory on 10/30/14 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated 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 (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keine

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



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

10/30/2014

Sampling Date:

10/29/2014

Reported:

11/04/2014

Sampling Type:

Soil

Project Name:

PATHFINDER AFT STATE #13

Sampling Condition:

Cool & Intact

Project Number:

30-005-62829

Sample Received By:

Kathy Perez

Project Location:

CHAVES COUNTY, NM

Sample ID: CO1.0 (H403344-01)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

832

Result

736

Analyzed By: AP

Analyte

Result Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 10/31/2014

Analyzed

10/31/2014

Method Blank ND

Method Blank

ND

BS 400 % Recovery 100

True Value QC 400

RPD

3.92

RPD

3.92

Qualifier

Sample ID: CO2.0 (H403344-02)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

BS

400

% Recovery

100

True Value QC

400

Qualifier

Qualifier

Sample ID: CO3.0 (H403344-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD
Chloride	1580	16.0	10/31/2014	ND	400	100	400	3.92

Cardinal Laboratories

*=Accredited Analyte

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Cely & treens -

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



ND

Notes and Definitions

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Kreene -



	Relingu	Relingu	Relinqu		Specia							کیں	6	_	_AB # (lab use only)	ORDER #:	(lab use only)								80	H
	Relinquished by:	Relinquished by:	Relinquished by:		Special Instructions:							C03.0	C02.0	C01.0		and and		Sampler Signature:	Telephone No:	City/State/Cip.	City/State/Zin	Company Address:	Comp; (505) 393-232f Yates Petroleum Corporation	Project Manager:	ARDIN, 101 Eas	1
															FIELD CODE	1403344	-	ature:	575-748-42			dress: 105 South 4th Street	93-232€ Yates P	ger: Robert Asher	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	
					Chlor										m			6	8-4217	Altesia, Mixi Oce 10	NN NN	Jth 4th 9	etroleur	Asher	ORIES DS, NM 8	
	Date	Date	Date 10/30/14		ides on se													9		02.10	8210	Street	n Corporation		38240	
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	Time	Time	7:27 AM		e rep							ω	2'	7.	Ending Depth			1								
	Received by ELOT:	Received by:	Received by		Chlorides on separate report please. ALL							10/29/2014	10/29/2014	10/29/2014	Date Sampled										(505) 393-2326 FAX (505) 393-2476	
	OT:	0	athens		L results in mg/kg.							10:30 AM	10:25 AM	10:20 AM	Time Sampled			e-mail:	rax No.	Towns:					FAX (505) 393-	
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	emp	99	usto usto	OCs	abol		_	\dashv	_		+	×	×	×	Anions (CI)		70 7			×	20	오	30	Pa		3
	Temperature Upon Receipt:	by Sampler/Client Rep. by Courier? UPS	Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered	VOCs Free of Headspace? Labels on container(s)	Laboratory Comments: Sample Containers Intact?		_	+			+	+	+	T	SAR/ESP/CEC		TOTAL:			× Standard	205632	Project Loc: Chaves County	30-005-62829	th fi		3
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		tar	V									×	: ×	: ×	Standard TAT		anterekti (- vide)k				1			Pag	e 4 of 4	1



November 04, 2014

Artesia, NM 88210

ROBERT ASHER
YATES PETROLEUM CORPORATION
105 S 4th Street

RE: PATHFINDER AFT STATE #13

Enclosed are the results of analyses for samples received by the laboratory on 10/30/14 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated 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 (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



YATES PETROLEUM CORPORATION **ROBERT ASHER** 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

10/30/2014

Sampling Date:

10/29/2014

Reported:

11/04/2014

Sampling Type:

Soil

Project Name:

PATHFINDER AFT STATE #13

Sampling Condition:

Cool & Intact

Project Number:

30-005-62829

Sample Received By:

Kathy Perez

Project Location:

CHAVES COUNTY, NM

Sample ID: CO1.0 (H403344-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2014	ND	2.02	101	2.00	12.4	
Toluene*	<0.050	0.050	10/31/2014	ND	1.92	96.2	2.00	12.9	
Ethylbenzene*	<0.050	0.050	10/31/2014	ND	1.81	90.7	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/31/2014	ND	5.39	89.8	6.00	11.5	
Total BTEX	<0.300	0.300	10/31/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 61-154	8						
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/30/2014	ND	172	86.1	200	0.594	
DRO >C10-C28	<10.0	10.0	10/30/2014	ND	178	89.1	200	4.53	
Surrogate: 1-Chlorooctane	109	% 47.2-15	7	50.1004.00					
Surrogate: 1-Chlorooctadecane	154	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

Celley & trune -



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received:

10/30/2014

Sampling Date:

10/29/2014

Reported:

11/04/2014

Sampling Type:

Soil

Project Name:

PATHFINDER AFT STATE #13

Sampling Condition:

Cool & Intact

Project Number:

30-005-62829

Sample Received By:

Kathy Perez

Project Location:

CHAVES COUNTY, NM

Sample ID: CO2.0 (H403344-02)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2014	ND	2.02	101	2.00	12.4	
Toluene*	<0.050	0.050	10/31/2014	ND	1.92	96.2	2.00	12.9	
Ethylbenzene*	<0.050	0.050	10/31/2014	ND	1.81	90.7	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/31/2014	ND	5.39	89.8	6.00	11.5	
Total BTEX	<0.300	0.300	10/31/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 61-154			***************************************				
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/30/2014	ND	172	86.1	200	0.594	
DRO >C10-C28	<10.0	10.0	10/30/2014	ND	178	89.1	200	4.53	
Surrogate: 1-Chlorooctane	109	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	147	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg Direna -

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received:

10/30/2014

Sampling Date:

10/29/2014

Reported:

Sampling Type:

Soil

11/04/2014

Cool & Intact

Project Name:

PATHFINDER AFT STATE #13

Sampling Condition:

Project Number:

30-005-62829

Sample Received By:

Kathy Perez

Project Location:

CHAVES COUNTY, NM

Sample ID: CO3.0 (H403344-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2014	ND	2.02	101	2.00	12.4	
Toluene*	<0.050	0.050	10/31/2014	ND	1.92	96.2	2.00	12.9	
Ethylbenzene*	<0.050	0.050	10/31/2014	ND	1.81	90.7	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/31/2014	ND	5.39	89.8	6.00	11.5	
Total BTEX	<0.300	0.300	10/31/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 61-154	1						
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/30/2014	ND	172	86.1	200	0.594	
DRO >C10-C28	<10.0	10.0	10/30/2014	ND	178	89.1	200	4.53	
Surrogate: 1-Chlorooctane	107	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	155	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celes Freema -



Notes and Definitions

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 SM4500Cl-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

Cardinal Laboratories

*=Accredited Analyte

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Celeg & treene -

	Relinquished by:	Reinquished by:	Relinquished by:	Special Instructions: Chlor						C03.0	C02.0	C01.0	LAB # (lab use only) FIELD CODE	ORDER #: #403344	(lab use only)		Sampler Signature:
	Date	Date	Date 10/30/14	ides on se											*****		CA
Γ			7:5	para						ယ္	2	-	Beginning Depth				15
	Time	Time	Time 7:27 AM	te re						ယ	21	- -	Ending Depth				>
	Received by ELOT:	Received by:	Received by:	Chlorides on separate report please. ALL results in mg/kg.						10/29/2014	10/29/2014	10/29/2014	Date Sampled				•
	OT:	0	athur	LL results in r						10:30 AM	10:25 AM	10:20 AM	Time Sampled				e-mail:
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	mpe	by by	stod	CS nple						×	×	×	Anions (CI)		TOTAL	7	1
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	9	ner de	als	ntai ntai									Metals: As Ag Ba Cd Cr Pb Hg	Se			2
	por	9	333	ners Hea							T		Volatiles				Analyze
	Temperature Upon Receipt	by Sampler/Client Rep. by Courier? UPS	Custody seals on container(s) Custody seals on cooler(s) Carnole Ward Delivered	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?							T		Semivolatiles				e For:
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	'	Star	V		\dashv	+	+	+	+	- >	: ×	1	< Standard TAT				
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December 08, 2014

ROBERT ASHER
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: PATHFINDER AFT STATE #13

Enclosed are the results of analyses for samples received by the laboratory on 12/05/14 11:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated 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 (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keine

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



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

12/05/2014

Sampling Date:

12/03/2014

Reported:

Sampling Type:

Soil

Project Name:

12/08/2014

Sampling Condition:

Cool & Intact

Project Number:

PATHFINDER AFT STATE #13 30-005-62829

Sample Received By:

Kathy Perez

Project Location:

CHAVES COUNTY, NM

Sample ID: CO4.0 (H403712-01)

mg/kg

1180

Analyzed By: AP

Analyte

Result Reporting Limit

16.0

Reporting Limit

Analyzed 12/05/2014 Method Blank ND

432

BS

% Recovery 108

True Value QC 400

RPD

3.77

Sample ID: CO5.0 (H403712-02)

Analyte

Analyte

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

Method Blank BS % Recovery

RPD

3.77

Qualifier

Chloride

Chloride

Result 1710

12/05/2014 16.0

ND

432

108

True Value QC

Qualifier

Sample ID: CO6.0 (H403712-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Reporting Limit Analyzed Method Blank

BS

% Recovery True Value QC

RPD

Qualifier

Chloride

Chloride

Result 1580

Result

1710

16.0 12/05/2014

Reporting Limit

16.0

ND

432

108

400

400

3.77

Sample ID: CO7.0 (H403712-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

12/05/2014

Method Blank ND

BS 432 % Recovery

108

True Value QC

400

RPD 3.77 Qualifier

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses, All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequences including, without limitation, business interruptions, loss of use, or loss of profits incurred by Client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & treme

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

12/05/2014

Sampling Date:

12/03/2014

Reported:

12/08/2014

Sampling Type:

Soil

Project Name:

PATHFINDER AFT STATE #13

Sampling Condition:

Cool & Intact

Project Number:

30-005-62829

Sample Received By:

Kathy Perez

Project Location:

CHAVES COUNTY, NM

Sample ID: CO8.0 (H403712-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	12/05/2014	ND	432	108	400	3.77	

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Celly & Keena



Notes and Definitions

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 SM4500Cl-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

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*=Accredited Analyte

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Celley & treems -

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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June 15, 2015

ROBERT ASHER
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: PATHFINDER AFT STATE #13

Enclosed are the results of analyses for samples received by the laboratory on 06/10/15 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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 (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Calley D. Keine

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



YATES PETROLEUM CORPORATION ROBERT ASHER 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

06/10/2015

Sampling Date:

06/04/2015

Reported:

06/15/2015

Sampling Type:

Soil

Project Name:

PATHFINDER AFT STATE #13

Sampling Condition:

Cool & Intact

Project Number:

30-005-62829

Project Location:

CHAVES COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: CO9.0 (H501502-01)

Chloride,	SM4500C	I-B
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mg/kg

2320

Analyzed By: AP

Analyte

Analyte

Reporting Limit Result

16.0

Reporting Limit

16.0

Analyzed 06/12/2015 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD

3.77

RPD

3.77

RPD

3.77

Qualifier

Sample ID: C11.0 (H501502-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

% Recovery

True Value QC

400

Chloride

Chlor

Chloride

Result 2600

Analyzed 06/12/2015

ND

BS 432

108

% Recovery

108

True Value QC 400

Qualifier

Qualifier

Sample ID: C13.0 (H501502-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS
ride	2520	16.0	06/12/2015	ND	432

Cardinal Laboratories

*=Accredited Analyte

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Celley & treeme -

Celey D. Keene, Lab Director/Quality Manager

Standard TAT

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