

HOBBS OCD

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. 1st Street, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Amber Cannon
Address 105 S. 4 TH Street	Telephone No. 575-748-1471	
Facility Name Presidente BPD State Com #1H	API Number 30-025-39660	Facility Type Well/Battery

Surface Owner State	Mineral Owner State	Lease No. VB-0777 & VB-0787
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LOCATION OF RELEASE

Unit Letter D	Section 32	Township 25S	Range 32E	Feet from the 330	North/South Line North	Feet from the 660	East/West Line West	County Lea
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Latitude 32.0931 Longitude 103.7033

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 250 B/PW	Volume Recovered 220 B/PW
Source of Release Water transfer line	Date and Hour of Occurrence 6/5/2012; AM	Date and Hour of Discovery 6/5/2012; AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking	
By Whom? Robert Asher, Yates Petroleum Corporation	Date and Hour 6/5/2012 (Voicemail); 6/6/2012 (E-Mail)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*

An 8" water transfer line busted due to extreme pressure. Once the spill was identified the water transfer line was isolated at both ends. A vacuum truck was called in to recover produced water spilled.

Describe Area Affected and Cleanup Action Taken.*

An approximate area of 10' X 200' (inside lined/bermed battery and outside of secondary containment). The 30 bbls lost were outside of the bermed/lined battery. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX for area outside of lined battery. If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. **Depth to Ground Water: >100' (405', 21-26S-32E, per NMOSE) , Wellhead Protection Area: No, Distance to Surface Water Body: > 1000', SITE RANKING IS 0. Yates Petroleum requests closure based off information submitted in cover letter.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: Amber Cannon

Printed Name: Amber Cannon

Approved by District Supervisor:

Title: Environmental Regulatory Agent

Approval Date:

Expiration Date:

E-mail Address: acannon@yatespetroleum.com

Conditions of Approval:

Attached ☐

Date: Tuesday, May 07, 2013 Phone: 575-748-4111

1RP-6-12-2822

* Attach Additional Sheets If Necessary

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471
www.yatespetroleum.com

JOHN A. YATES
CHAIRMAN EMERITUS

JOHN A. YATES JR.
CHAIRMAN OF THE BOARD
PRESIDENT

JOHN D. PERINI
EXECUTIVE VICE PRESIDENT
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

May 8, 2013

HOBBS OCD

Mr. Geoffrey Leking
NM Oil Conservation Division
1625 N. French Drive
Hobbs, NM 88240

MAY 09 2013

RECEIVED

RE: Presidente BPD State Com #1H
30-025-39660
Section 32, T25S-R32E
Lea County, New Mexico

Mr. Leking,

Yates Petroleum Corporation would like to submit the following information to you regarding the release that occurred at the above mentioned facility on June 5, 2012 (1RP-6-12-2822).

The initial release consisted of 250 barrels of produced water with 220 barrels being recovered by a vacuum truck resulting in a net loss of 30 barrels. The release covered an area of approximately 10' wide by 200' feet long. The spill occurred inside of a lined/berm battery, behind the battery on the west side and flowed into the pasture to the south of the battery.

During the course of sampling, Yates encountered a cemented barrier that prevented further delineation or excavation of the release area. As per the NRCS Web Soil Survey (see attached documentation), the soils in the surrounding area are consistent with a Tonuco loamy fine sand which has a typical profile of Loamy fine sand from 0-17 inches and a cemented (restrictive petrocalcic) layer below this point. This petrocalcic layer is considered a restrictive zone for further movement of chlorides.

On January 15, 2013, Yates provided NMOCD District I with a table summarizing the analytical data for the soils in which Yates submitted samples to a laboratory (the table is attached to this letter for your reference). Yates excavated and disposed of all the sandy soils that were found lying on top of the cemented barrier in each area of the release. The cemented barrier was encountered at different depths throughout the release area – one foot for Section 1, two feet for Section 3, and three feet for Sections 2, 4, 5, and 6. Mechanical equipment tried to get through the cemented layer in each area several times and was unsuccessful each time. These unsuccessful attempts prevented the ability to further delineate or excavate. I presented these facts, along with the sample table, to you in a meeting we had at your office, and I was told that Yates would receive an answer as to how NMOCD has handled these types of situations in the past.

On Tuesday, February 26, 2013 Yates received an email response from your office on how to proceed with this release. Yates was told that further delineation/excavation would have to be performed in sections 1 and 6, as neither section showed decreasing chloride levels or chloride levels less than 1000 ppm. Section 1 occurred on the pad and plant growth will not be hindered. Also, this section of caliche will be removed once the well is plugged and abandoned. Section 6 occurred off the pad and three feet of soils have been excavated (to the depth of the cemented barrier). Three feet of clean backfill in this section would be enough to establish root development of vegetation in the area and is a common, accepted method used by BLM and industry in immobilizing chlorides. Yates does not feel that further delineation/excavation is required because of the cemented barrier and the depth to ground water (405' per NMOSE and 305' per Trend Map). Further delineation/excavation in sections 1 and 6 will decrease the effectiveness of this cemented barrier that has formed over time. Excavation of the area would create a higher risk of conduits if any future releases were to occur in this same area.

You also gave the option to install borings to meet the same criteria. We feel that this option would also create a higher risk of conduits if any future release were to occur in this same area.

The response we were given also stated that the Recommended Remediation Action Level (RRAL) for chlorides is 1000 ppm. In the current "Guidelines for Remediation of Leaks, Spills and Release" dated August 13, 1993 issued by NMOCD, there is no RRAL listed for chlorides. We do not feel that we can be held to a RRAL that does not exist in the guidelines we have been given to follow for spill clean-up.

Yates would like a reconsideration to be made on the closure of this release based off of the facts that (1) depth to groundwater is greater than 100' and (2) a naturally formed petrocalcic barrier is present. Further, based off these two facts, Yates does not feel there is a threat to human health, the environment or groundwater.

Yates is open to discussing the matter further so that this issue can be resolved in a reasonable and acceptable manner for both Yates and NMOCD. I can be reached at (575) 748-4111 or by email at acannon@yatespetroleum.com.

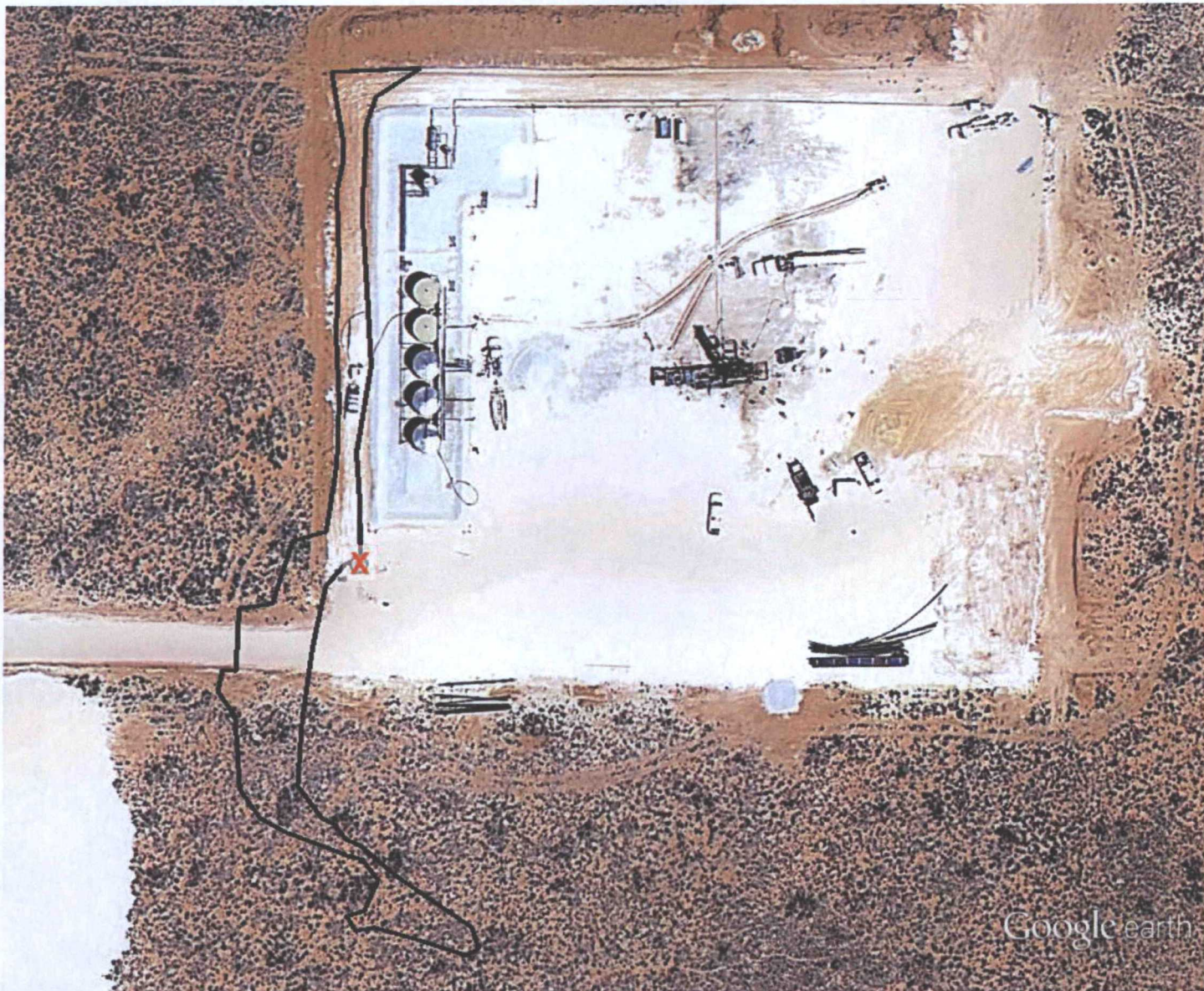
Thank You,



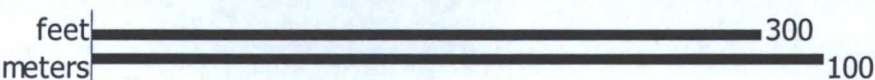
Amber Cannon
Environmental Regulatory Agent
Yates Petroleum Corporation

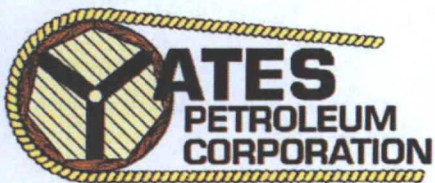
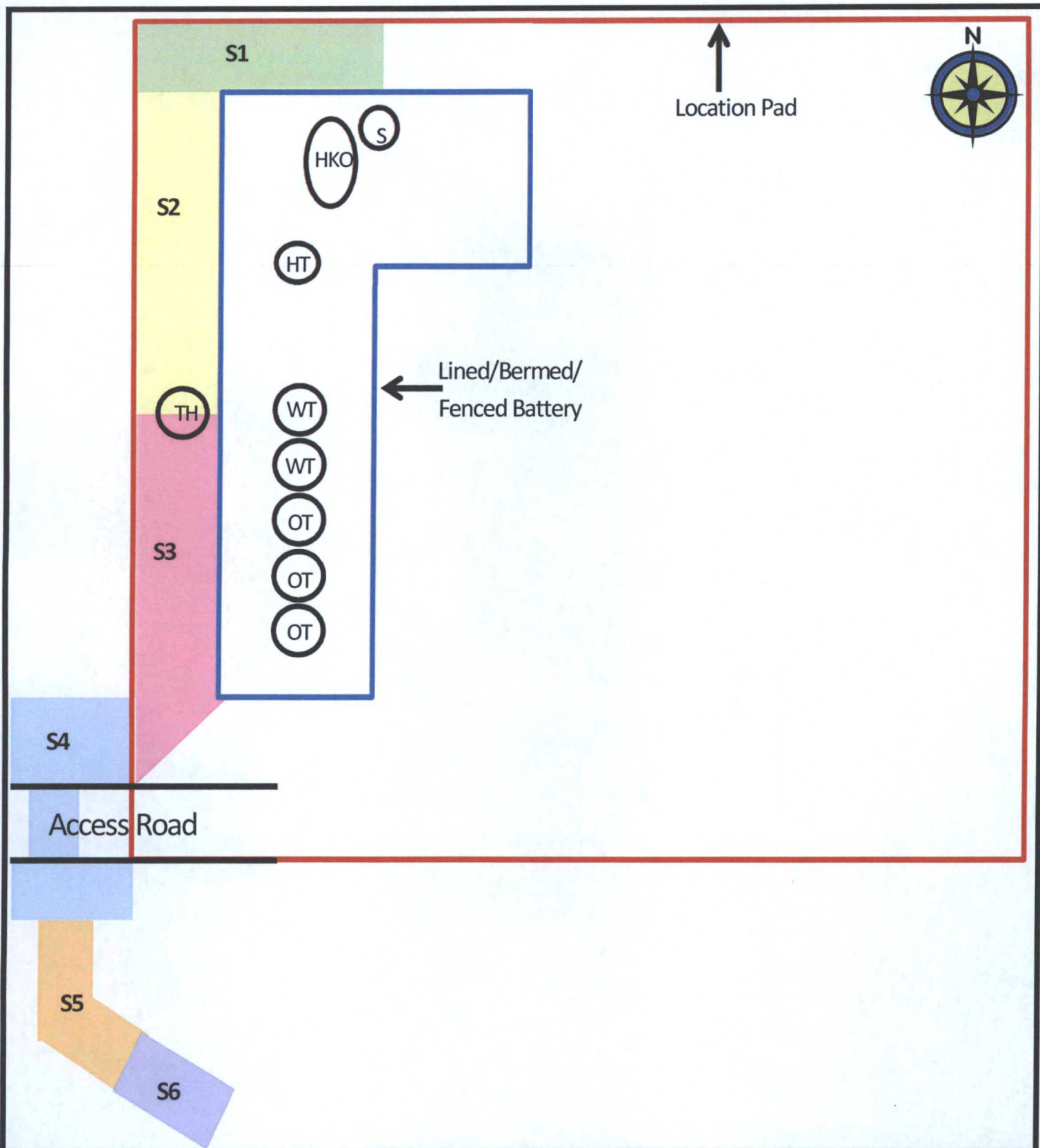
Enclosure(s):

1. Final C-141
2. Release Diagram
3. Table summarizing Analytical Reports
4. Analytical Reports
5. NRCS Web Soil Survey
6. Email Communications



Google earth





Presidente BPD State Com #1H

30-025-39660

Section 32, T25S-R32E

Lea County, NM

Prepared by Amber Cannon
Environmental Regulatory Agent

DRAWING NOT TO SCALE

Presidente BPD State Com #1H

Analytical Report- H201352	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides	
S1-6"	Release area	6/11/2012	Comp/Auger	6"	ND	ND	ND	ND	14,200	Excavated
S2-6"	Release area	6/11/2012	Comp/Auger	6"	ND	ND	ND	ND	8,200	Excavated
S3-6"	Release area	6/11/2012	Comp/Auger	6"	ND	ND	ND	ND	17,800	Excavated
S4-6"	Release area	6/11/2012	Comp/Auger	6"	ND	ND	ND	ND	7,860	Excavated
S5-6"	Release area	6/11/2012	Comp/Auger	6"	ND	ND	ND	ND	6,000	Excavated
S6-6"	Release area	6/11/2012	Comp/Auger	6"	ND	ND	ND	ND	5,920	Excavated

Analytical Report- H201466	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides	
S1-1'	Release area	6/28/2012	Grab/Backhoe	1'	N/A	N/A	N/A	N/A	14,700	Excavated
S2-1'	Release area	6/28/2012	Grab/Backhoe	1'	N/A	N/A	N/A	N/A	8,400	Excavated
S2-2'	Release area	6/28/2012	Grab/Backhoe	2'	N/A	N/A	N/A	N/A	2,080	
S2-3'	Release area	6/28/2012	Grab/Backhoe	3'	N/A	N/A	N/A	N/A	944	
S3-1'	Release area	6/28/2012	Grab/Backhoe	1'	N/A	N/A	N/A	N/A	96	
S3-2'	Release area	6/28/2012	Grab/Backhoe	2'	N/A	N/A	N/A	N/A	240	
S4-1'	Release area	6/28/2012	Grab/Backhoe	1'	N/A	N/A	N/A	N/A	4,040	Excavated
S4-2'	Release area	6/28/2012	Grab/Backhoe	2'	N/A	N/A	N/A	N/A	6,240	Excavated
S4-3'	Release area	6/28/2012	Grab/Backhoe	3'	N/A	N/A	N/A	N/A	1,740	Excavated
S5-1'	Release area	6/28/2012	Grab/Backhoe	1'	N/A	N/A	N/A	N/A	6,530	Excavated
S5-2'	Release area	6/28/2012	Grab/Backhoe	2'	N/A	N/A	N/A	N/A	6,880	Excavated
S5-3'	Release area	6/28/2012	Grab/Backhoe	3'	N/A	N/A	N/A	N/A	4,480	Excavated
S6-1'	Release area	6/28/2012	Grab/Backhoe	1'	N/A	N/A	N/A	N/A	5,120	Excavated
S6-2'	Release area	6/28/2012	Grab/Backhoe	2'	N/A	N/A	N/A	N/A	7,200	Excavated
S6-3'	Release area	6/28/2012	Grab/Backhoe	3'	N/A	N/A	N/A	N/A	8,800	Excavated

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 405', Section 21-26S-32E, per NMOSSE).

All results are ppm.Chlorides for documentation.

Released: 250 B/PW; Recovered: 220 B/PW. Release Date: 6/5/2012



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

June 19, 2012

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: PRESIDENTE BPD STATE COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 06/14/12 12:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 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 (V1, 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
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 06/14/2012
 Reported: 06/19/2012
 Project Name: PRESIDENTE BPD STATE COM #1H
 Project Number: 30-025-39660
 Project Location: LEA COUNTY, NM

 Sampling Date: 06/11/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 - 6" (H201352-01)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2012	ND	1.93	96.5	2.00	7.45	
Toluene*	<0.050	0.050	06/18/2012	ND	1.94	97.1	2.00	6.42	
Ethylbenzene*	<0.050	0.050	06/18/2012	ND	1.96	98.2	2.00	6.95	
Total Xylenes*	<0.150	0.150	06/18/2012	ND	5.91	98.6	6.00	6.73	

Surrogate: 4-Bromofluorobenzene (PIC) 112 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/15/2012	ND	185	92.4	200	1.98	
DRO >C10-C28	<10.0	10.0	06/15/2012	ND	194	97.2	200	3.12	

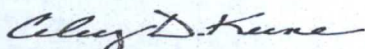
Surrogate: 1-Chlorooctane 84.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 06/14/2012
 Reported: 06/19/2012
 Project Name: PRESIDENTE BPD STATE COM #1H
 Project Number: 30-025-39660
 Project Location: LEA COUNTY, NM

 Sampling Date: 06/11/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2 - 6" (H201352-02)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2012	ND	1.93	96.5	2.00	7.45	
Toluene*	<0.050	0.050	06/18/2012	ND	1.94	97.1	2.00	6.42	
Ethylbenzene*	<0.050	0.050	06/18/2012	ND	1.96	98.2	2.00	6.95	
Total Xylenes*	<0.150	0.150	06/18/2012	ND	5.91	98.6	6.00	6.73	

Surrogate: 4-Bromofluorobenzene (PIL) 112 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/15/2012	ND	185	92.4	200	1.98	
DRO >C10-C28	<10.0	10.0	06/15/2012	ND	194	97.2	200	3.12	

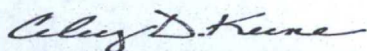
Surrogate: 1-Chlorooctane 87.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/14/2012	Sampling Date:	06/11/2012
Reported:	06/19/2012	Sampling Type:	Soil
Project Name:	PRESIDENTE BPD STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	30-025-39660	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S3 - 6" (H201352-03)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2012	ND	1.93	96.5	2.00	7.45	
Toluene*	<0.050	0.050	06/18/2012	ND	1.94	97.1	2.00	6.42	
Ethylbenzene*	<0.050	0.050	06/18/2012	ND	1.96	98.2	2.00	6.95	
Total Xylenes*	<0.150	0.150	06/18/2012	ND	5.91	98.6	6.00	6.73	

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2012	ND	180	89.9	200	3.86	
DRO >C10-C28	<10.0	10.0	06/18/2012	ND	183	91.3	200	7.90	

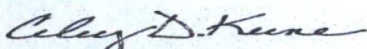
Surrogate: 1-Chlorooctane 90.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 06/14/2012
 Reported: 06/19/2012
 Project Name: PRESIDENTE BPD STATE COM #1H
 Project Number: 30-025-39660
 Project Location: LEA COUNTY, NM

 Sampling Date: 06/11/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S4 - 6" (H201352-04)

BTX 8021B			mg/kg		Analyzed By: ZZZ				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2012	ND	1.93	96.5	2.00	7.45	
Toluene*	<0.050	0.050	06/18/2012	ND	1.94	97.1	2.00	6.42	
Ethylbenzene*	<0.050	0.050	06/18/2012	ND	1.96	98.2	2.00	6.95	
Total Xylenes*	<0.150	0.150	06/18/2012	ND	5.91	98.6	6.00	6.73	

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2012	ND	180	89.9	200	3.86	
DRO >C10-C28	<10.0	10.0	06/18/2012	ND	183	91.3	200	7.90	

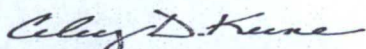
Surrogate: 1-Chlorooctane 92.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 06/14/2012
 Reported: 06/19/2012
 Project Name: PRESIDENTE BPD STATE COM #1H
 Project Number: 30-025-39660
 Project Location: LEA COUNTY, NM

 Sampling Date: 06/11/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S5 - 6" (H201352-05)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2012	ND	1.93	96.5	2.00	7.45	
Toluene*	<0.050	0.050	06/18/2012	ND	1.94	97.1	2.00	6.42	
Ethylbenzene*	<0.050	0.050	06/18/2012	ND	1.96	98.2	2.00	6.95	
Total Xylenes*	<0.150	0.150	06/18/2012	ND	5.91	98.6	6.00	6.73	

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2012	ND	180	89.9	200	3.86	
DRO >C10-C28	<10.0	10.0	06/18/2012	ND	183	91.3	200	7.90	

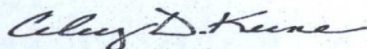
Surrogate: 1-Chlorooctane 95.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 06/14/2012
 Reported: 06/19/2012
 Project Name: PRESIDENTE BPD STATE COM #1H
 Project Number: 30-025-39660
 Project Location: LEA COUNTY, NM

 Sampling Date: 06/11/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S6 - 6" (H201352-06)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2012	ND	1.93	96.5	2.00	7.45	
Toluene*	<0.050	0.050	06/18/2012	ND	1.94	97.1	2.00	6.42	
Ethylbenzene*	<0.050	0.050	06/18/2012	ND	1.96	98.2	2.00	6.95	
Total Xylenes*	<0.150	0.150	06/18/2012	ND	5.91	98.6	6.00	6.73	

Surrogate: 4-Bromofluorobenzene (PIL) 112 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2012	ND	180	89.9	200	3.86	
DRO >C10-C28	<10.0	10.0	06/18/2012	ND	183	91.3	200	7.90	

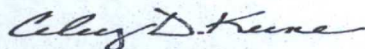
Surrogate: 1-Chlorooctane 93.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

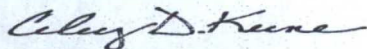
Notes and Definitions

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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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

June 19, 2012

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: PRESIDENTE BPD STATE COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 06/14/12 12:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 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 (V1, 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



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received: 06/14/2012
Reported: 06/19/2012
Project Name: PRESIDENTE BPD STATE COM #1H
Project Number: 30-025-39660
Project Location: LEA COUNTY, NM

Sampling Date: 06/11/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 6" (H201352-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	06/18/2012	ND	416	104	400	0.00	

Sample ID: S2 - 6" (H201352-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8200	16.0	06/18/2012	ND	416	104	400	0.00	

Sample ID: S3 - 6" (H201352-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17800	16.0	06/19/2012	ND	416	104	400	0.00	

Sample ID: S4 - 6" (H201352-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	06/19/2012	ND	416	104	400	0.00	

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/14/2012
Reported: 06/19/2012
Project Name: PRESIDENTE BPD STATE COM #1H
Project Number: 30-025-39660
Project Location: LEA COUNTY, NM

Sampling Date: 06/11/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S5 - 6" (H201352-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	06/19/2012	ND	416	104	400	0.00	

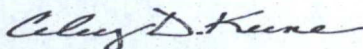
Sample ID: S6 - 6" (H201352-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	06/19/2012	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

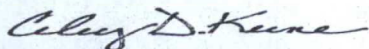
Notes and Definitions

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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Celey D. Keene, Lab Director/Quality Manager

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

Project Manager: Amber Cannon Project Name: Presidente BPD State Com #1H

Company Name: Yates Petroleum Corporation Project #: 30-025-39660

Company Address: 105 South 4th Street Project Loc: Lea County

City/State/Zip: Artesia, NM 88210 PO #: 1032020

Telephone No: 575-748-4111 or 575-513-8799 Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cannon e-mail: acannon@yatespetroleum.com

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers								Matrix	Analyze For:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
									Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)		DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Probable Specify Other	TPH: 418.1 8015M 2012	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	3,3'-DCE/1,2-DCE/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
1		S1-6"	6"	6"	6/11/2012	1:00 PM		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

Special Instructions: TIME 6/11/12, 12:00 PM. Please show BTEX results as mg/kg. Please put chlorides on a separate report. Thank you.

Relinquished by: Amber Cannon 6/13/12 6/14/12 12:10

Relinquished by: Wade Henderson 6/14/12 12:10

Relinquished by:

Laboratory Comments:
 Sample Containers Intact? Y
 VOCs Free of Headspace? Y
 Labels on container(s)? Y
 Custody seals on container(s)? Y
 Custody seals on cooler(s)? Y
 Sample Hand Delivered by Sampler/Client Rep.? Y
 by Courier? Y UPS Y DHL Y FedEx Y Lone Star Y
 Temperature Upon Receipt: 70 °F 20 °C



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

July 02, 2012

AMBER CANNON

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: PRESIDENTE BPD STATE COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 06/29/12 11:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 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 (V1, 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
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 06/29/2012
 Reported: 07/02/2012
 Project Name: PRESIDENTE BPD STATE COM #1H
 Project Number: 30-025-39660
 Project Location: LEA COUNTY, NM

 Sampling Date: 06/28/2012
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S1 - 1' (H201466-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14700	16.0	07/02/2012	ND	400	100	400	3.92	

Sample ID: S2 - 1' (H201466-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	07/02/2012	ND	400	100	400	3.92	

Sample ID: S2 - 2' (H201466-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	07/02/2012	ND	400	100	400	3.92	

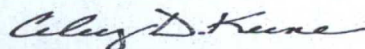
Sample ID: S2 - 3' (H201466-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	07/02/2012	ND	400	100	400	3.92	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/29/2012
 Reported: 07/02/2012
 Project Name: PRESIDENTE BPD STATE COM #1H
 Project Number: 30-025-39660
 Project Location: LEA COUNTY, NM

Sampling Date: 06/28/2012
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S3 - 1' (H201466-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/02/2012	ND	400	100	400	3.92	

Sample ID: S3 - 2' (H201466-06)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/02/2012	ND	416	104	400	8.00		

Sample ID: S4 - 1' (H201466-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4040	16.0	07/02/2012	ND	416	104	400	8.00	

Sample ID: S4 - 2' (H201466-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6240	16.0	07/02/2012	ND	416	104	400	8.00		

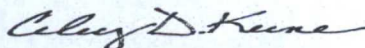
Sample ID: S4 - 3' (H201466-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1740	16.0	07/02/2012	ND	416	104	400	8.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/29/2012	Sampling Date:	06/28/2012
Reported:	07/02/2012	Sampling Type:	Soil
Project Name:	PRESIDENTE BPD STATE COM #1H	Sampling Condition:	** (See Notes)
Project Number:	30-025-39660	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S5 - 1' (H201466-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	07/02/2012	ND	416	104	400	8.00	

Sample ID: S5 - 2' (H201466-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	07/02/2012	ND	416	104	400	8.00	

Sample ID: S5 - 3' (H201466-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	07/02/2012	ND	416	104	400	8.00	

Sample ID: S6 - 1' (H201466-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	07/02/2012	ND	416	104	400	8.00	

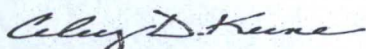
Sample ID: S6 - 2' (H201466-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	07/02/2012	ND	416	104	400	8.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/29/2012
Reported: 07/02/2012
Project Name: PRESIDENTE BPD STATE COM #1H
Project Number: 30-025-39660
Project Location: LEA COUNTY, NM

Sampling Date: 06/28/2012
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S6 - 3' (H201466-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	07/02/2012	ND	416	104	400	8.00	

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Celey D. Keene, Lab Director/Quality Manager

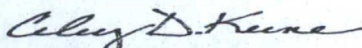
Notes and Definitions

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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Celey D. Keene, Lab Director/Quality Manager

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

Project Manager: Amber Cannon Project Name: Presidente BPD State Com #1H
 Company Name: Yates Petroleum Corporation Project #: 30-025-39660
 Company Address: 105 South 4th Street Project Loc: Lea County
 City/State/Zip: Artesia, NM 88210 PO #: 1032020
 Telephone No: 575-748-4111 or 575-513-8799 Report Format: ☒ Standard ☐ TRRP ☐ NPDES
 Fax No: 575-748-4111 or 575-513-8799

e-mail: acannon@yatespetroleum.com

Sampler Signature: Amber Cannon

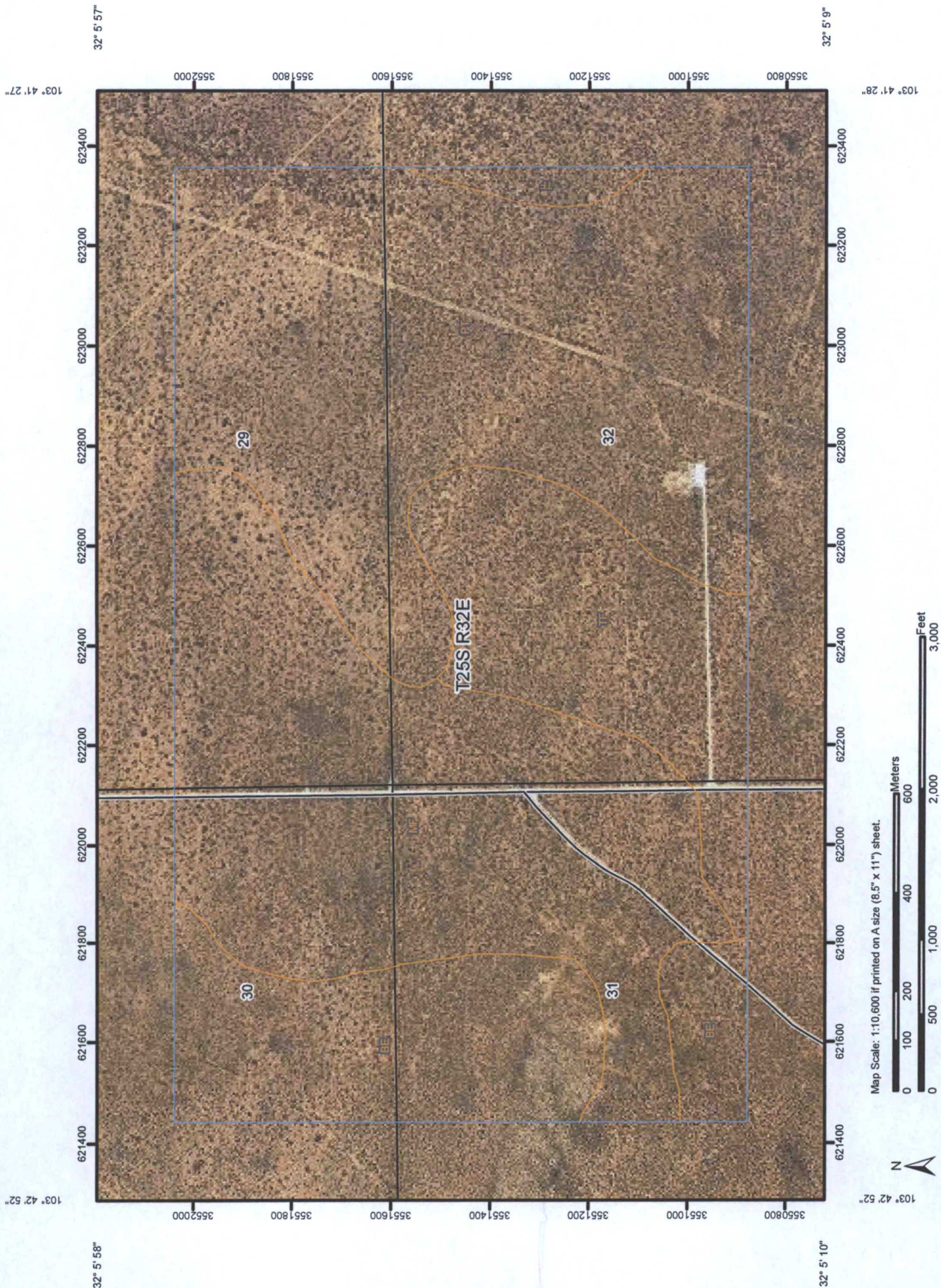
LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers										Matrix	Analyze For:												
									Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Portable Specify Other	TPH: 418.1 8015M 8015T	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	ETEX 8021E / 8030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	
1		S1-1'			6/28/2012	12:00 PM		1										S														X
2		S2-1'			6/28/2012	12:00 PM		1										S														X
3		S2-2'			6/28/2012	12:00 PM		1										S														X
4		S2-3'			6/28/2012	12:00 PM		1										S														X
5		S3-1'			6/28/2012	12:00 PM		1										S														X
6		S3-2'			6/28/2012	12:00 PM		1										S														X
7		S4-1'			6/28/2012	12:00 PM		1										S														X
8		S4-2'			6/28/2012	12:00 PM		1										S														X
9		S4-3'			6/28/2012	12:00 PM		1										S														X
10		S5-1'			6/28/2012	12:00 PM		1										S														X

Special Instructions:


Relinquished by: Amber Cannon Date: 6/29/12 Time: 11:55
 Relinquished by: Yodi Benson Date: 6/29/12 Time: 11:55
 Relinquished by: Yodi Benson Date: 6/29/12 Time: 11:55

Laboratory Comments:
 Sample Containers Intact? Y
 VOCs Free of Headspace? Y
 Labels on container(s) Y
 Custody seals on container(s) Y
 Custody seals on cooler(s) Y
 Sample Hand Delivered by Sampler/Client Rep. ? Y
 by Courier? Y UPS Y DHL Y FedEx Y Lone Star Y
 Temperature Upon Receipt: 71.0 °C

#26



MAP LEGEND

 Area of Interest (AOI)	 Very Stony Spot
 Soils	 Wet Spot
 Soil Map Units	 Other
Special Point Features	Special Line Features
 Blowout	 Gully
 Borrow Pit	 Short Steep Slope
 Clay Spot	 Other
 Closed Depression	Political Features
 Gravel Pit	 Cities
 Gravelly Spot	 PLSS Township and Range
 Landfill	 PLSS Section
 Lava Flow	Water Features
 Marsh or swamp	 Streams and Canals
 Mine or Quarry	Transportation
 Miscellaneous Water	 Rails
 Perennial Water	 Interstate Highways
 Rock Outcrop	 US Routes
 Saline Spot	 Major Roads
 Sandy Spot	 Local Roads
 Severely Eroded Spot	
 Sinkhole	
 Slide or Slip	
 Sodic Spot	
 Spoil Area	
 Stony Spot	

MAP INFORMATION

Map Scale: 1:10,600 if printed on A size (8.5" x 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:20,000. Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: UTM Zone 13N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
 Survey Area Data: Version 9, Dec 9, 2008

Date(s) aerial images were photographed: Data not available.

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Lea County, New Mexico (NM025)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BE	Berino-Cacique loamy fine sands association	82.8	15.1%
MF	Maljamar and palomas fine sands, 0 to 3 percent slopes	178.8	32.5%
PT	Pyote loamy fine sand	208.5	37.9%
TF	Tonuco loamy fine sand	79.8	14.5%
Totals for Area of Interest		549.8	100.0%

Lea County, New Mexico

TF—Tonuco loamy fine sand

Map Unit Setting

Landscape: Uplands

Elevation: 3,190 to 3,900 feet

Mean annual precipitation: 10 to 13 inches

Mean annual air temperature: 59 to 62 degrees F

Frost-free period: 190 to 205 days

Map Unit Composition

Tonuco and similar soils: 85 percent

Description of Tonuco

Setting

Landform: Plains, ridges

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Eolian deposits derived from sedimentary rock

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 6 to 20 inches to petrocalcic

Drainage class: Excessively drained

Capacity of the most limiting layer to transmit water (Ksat): Very low
to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 2 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water capacity: Very low (about 1.6 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: Sandy 12-17" PZ (R077DY046TX)

Typical profile

0 to 12 inches: Loamy fine sand

12 to 17 inches: Loamy fine sand

17 to 27 inches: Cemented material

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 9, Dec 9, 2008



Amber Cannon

From: Amber Cannon
Sent: Thursday, January 03, 2013 2:45 PM
To: Leking, Geoffrey R, EMNRD
Cc: Bob Asher
Subject: Meeting

Importance: High

Tracking:	Recipient	Read
	Leking, Geoffrey R, EMNRD	
	Bob Asher	Read: 1/3/2013 2:46 PM

Good afternoon Mr. Leking,

I would like to set up a time to be able to come speak to you in person about a release in your district I am currently working on. Would you have time one day next week (1/7-1/11) for me to come over and speak with you? Please let me know the time and date that you would be available. I look forward to hearing back from you.

Thanks,

Amber Cannon

Environmental Regulatory Agent
Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575)-513-8799

Amber Cannon

From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
To: Amber Cannon
Sent: Friday, January 04, 2013 7:04 AM
Subject: Read: Meeting

Your message was read on Friday, January 04, 2013 7:04:24 AM (GMT-07:00) Mountain Time (US & Canada).

Amber Cannon

From: Amber Cannon
Sent: Monday, January 14, 2013 1:59 PM
To: Leking, Geoffrey R, EMNRD; E. L. Gonzales (elidiol.gonzales@state.nm.us)
Cc: Bob Asher
Subject: FW: Meeting

Importance: High

Tracking:	Recipient	Read
	Leking, Geoffrey R, EMNRD	
	E. L. Gonzales (elidiol.gonzales@state.nm.us)	
	Bob Asher	Read: 1/14/2013 2:07 PM

Mr. Leking,

I am checking in with you about the email below that I sent on January 3rd. I have yet to receive a response from you. I would really like to get a time set up to come and meet with you.

Thanks,
Amber

From: Amber Cannon
Sent: Thursday, January 03, 2013 2:45 PM
To: Leking, Geoffrey R, EMNRD
Cc: Bob Asher
Subject: Meeting
Importance: High

Good afternoon Mr. Leking,

I would like to set up a time to be able to come speak to you in person about a release in your district I am currently working on. Would you have time one day next week (1/7-1/11) for me to come over and speak with you? Please let me know the time and date that you would be available. I look forward to hearing back from you.

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Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575)-513-8799

Amber Cannon

From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
To: Amber Cannon
Sent: Monday, January 14, 2013 2:18 PM
Subject: Read: Meeting

Your message was read on Monday, January 14, 2013 2:18:09 PM (GMT-07:00) Mountain Time (US & Canada).

Amber Cannon

From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
Sent: Monday, January 14, 2013 2:45 PM
To: Amber Cannon; Gonzales, Elidio L, EMNRD
Cc: Bob Asher
Subject: RE: Meeting

Amber

My apologies. I am currently open the rest of the week, but will need to go out in the field at some point. If you would like to come over at 9:00 AM tomorrow 1/15, that would be fine. Otherwise let me know when you would like to come and chat. Thank you.

Geoffrey Leking
Environmental Specialist
NMOCD-Hobbs
1625 N. French Drive
Hobbs, NM 88240
Office: (575) 393-6161 Ext. 113
Cell: (575) 399-2990
email: geoffreyr.leting@state.nm.us

From: Amber Cannon [mailto:ACannon@yatespetroleum.com]
Sent: Monday, January 14, 2013 1:59 PM
To: Leking, Geoffrey R, EMNRD; Gonzales, Elidio L, EMNRD
Cc: Bob Asher
Subject: FW: Meeting
Importance: High

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Thanks,
Amber

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To: Leking, Geoffrey R, EMNRD
Cc: Bob Asher
Subject: Meeting
Importance: High

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Amber Cannon

From: Amber Cannon
Sent: Monday, January 14, 2013 3:21 PM
To: 'Leking, Geoffrey R, EMNRD'
Subject: RE: Meeting

Tomorrow will work, but could we make the time closer to 10?

Amber

From: Leking, Geoffrey R, EMNRD [mailto:GeoffreyR.Leking@state.nm.us]
Sent: Monday, January 14, 2013 2:45 PM
To: Amber Cannon; Gonzales, Elidio L, EMNRD
Cc: Bob Asher
Subject: RE: Meeting

Amber

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Cell: (575) 399-2990
email: geoffreyr.leking@state.nm.us

From: Amber Cannon [mailto:ACannon@yatespetroleum.com]
Sent: Monday, January 14, 2013 1:59 PM
To: Leking, Geoffrey R, EMNRD; Gonzales, Elidio L, EMNRD
Cc: Bob Asher
Subject: FW: Meeting
Importance: High

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Subject: Meeting
Importance: High

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Amber Cannon

From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
Sent: Monday, January 14, 2013 3:27 PM
To: Amber Cannon
Subject: RE: Meeting

Amber

That would be fine. See you at 1000.

Geoffrey Leking
Environmental Specialist
NMOCD-Hobbs
1625 N. French Drive
Hobbs, NM 88240
Office: (575) 393-6161 Ext. 113
Cell: (575) 399-2990
email: geoffreyr.leking@state.nm.us

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Sent: Monday, January 14, 2013 3:21 PM
To: Leking, Geoffrey R, EMNRD
Subject: RE: Meeting

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Amber

From: Leking, Geoffrey R, EMNRD [<mailto:GeoffreyR.Leking@state.nm.us>]
Sent: Monday, January 14, 2013 2:45 PM
To: Amber Cannon; Gonzales, Elidio L, EMNRD
Cc: Bob Asher
Subject: RE: Meeting

Amber

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email: geoffreyr.leking@state.nm.us

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Sent: Monday, January 14, 2013 1:59 PM
To: Leking, Geoffrey R, EMNRD; Gonzales, Elidio L, EMNRD
Cc: Bob Asher
Subject: FW: Meeting
Importance: High

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Importance: High

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Amber Cannon

From: Amber Cannon
Sent: Monday, January 14, 2013 3:56 PM
To: Bob Asher
Subject: FW: Meeting

FYI...I am going to meet with Geoffrey tomorrow at 10.

Amber

From: Leking, Geoffrey R, EMNRD [<mailto:GeoffreyR.Leking@state.nm.us>]
Sent: Monday, January 14, 2013 3:27 PM
To: Amber Cannon
Subject: RE: Meeting

Amber

That would be fine. See you at 1000.

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Cc: Bob Asher
Subject: RE: Meeting

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Importance: High

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Amber Cannon

From: Amber Cannon
Sent: Friday, January 18, 2013 11:38 AM
To: Leking, Geoffrey R, EMNRD
Subject: Presidente BPD #1H Follow-Up
Attachments: PresidenteDiagram.xlsx

Mr. Leking,

This is a follow-up from our meeting we had on Tuesday January 15th at our office about the Presidente BPD State Com #1H.

I gave you a summary of my current soil analysis results. During the course of my sampling, we found a very hard caliche layer anywhere from a depth of 1'-3' (the layer was found at different footage in each section sampled). We were not able to delineate samples further as the backhoe could not break through this hard layer and prevented us from getting more delineation. Yates has excavated 1' from Sections 1 - 2, 6" from Section 3, and 3' from Sections 4-6.

Due to the distance to groundwater 405' (per NMOSE) and 305' (per NMOCD Trend Map), Yates asked the question what are we are trying to protect?

We also made the suggestion that we could clean up the excavation in order for you to make a site visit and inspect this hard layer that we found. You said that you might be interested in this and would let me know.

Only 30 bbls of Produced water was actually lost in this release and it covered an area of approximately 10' by 200'.

Also attached to this email is a simple site diagram. If you have any questions about it, please let me know.

At the end of our meeting you told me that you were going to review other releases of this nature and get me an answer as to what you would like to see done. This answer should be given to Yates from you by Tuesday January 22nd.

I appreciate the time that you took from your schedule this last Tuesday to discuss this site. I look forward to hearing back from you.

Thanks,

Amber Cannon

Environmental Regulatory Agent
Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575)-513-8799

Amber Cannon

From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
Sent: Wednesday, January 23, 2013 11:47 AM
To: Amber Cannon
Subject: Soil RRALs for 1) ground water at depth 2) massive caliche encountered

Amber

I am still working on these. I have to go out in the field this afternoon. Let me get back to you tomorrow. Thanks.

Geoffrey Leking
Environmental Specialist
NMOCD-Hobbs
1625 N. French Drive
Hobbs, NM 88240
Office: (575) 393-6161 Ext. 113
Cell: (575) 399-2990
email: geoffreyr.leking@state.nm.us

Amber Cannon

From: Amber Cannon
Sent: Wednesday, January 23, 2013 3:25 PM
To: 'Leking, Geoffrey R, EMNRD'
Subject: RE: Soil RRALs for 1) ground water at depth 2) massive caliche encountered

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Amber Cannon

From: Amber Cannon
Sent: Monday, January 28, 2013 4:52 PM
To: Leking, Geoffrey R, EMNRD
Cc: Bob Asher
Subject: FW: Soil RRALs for 1) ground water at depth 2) massive caliche encountered

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To: Amber Cannon
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email: geoffreyr.leking@state.nm.us

Amber Cannon

From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
To: Amber Cannon
Sent: Tuesday, January 29, 2013 8:40 AM
Subject: Read: Presidente BPD #1H Follow-Up

Your message was read on Tuesday, January 29, 2013 8:40:30 AM (GMT-07:00) Mountain Time (US & Canada).

Amber Cannon

From: Amber Cannon
Sent: Wednesday, February 06, 2013 8:15 AM
To: Leking, Geoffrey R, EMNRD; E. L. Gonzales (elidiol.gonzales@state.nm.us)
Cc: Bob Asher; Lisa Norton ; Katie Parker
Subject: FW: Soil RRALs for 1) ground water at depth 2) massive caliche encountered

Importance: High

Tracking:	Recipient	Read
	Leking, Geoffrey R, EMNRD	
	E. L. Gonzales (elidiol.gonzales@state.nm.us)	
	Bob Asher	Read: 2/6/2013 8:16 AM
	Lisa Norton	
	Katie Parker	

Mr. Leking,

At our meeting on January 15, 2013 in your office, you told me that Yates would receive a response on how to go forward with the release that happened at the President BPD State Com #1H by the following week (January 22, 2013).

On Wednesday, January 23, 2013 you sent me an email (can be found below) that you would get back with me the following day (24th).

As of Monday, January 28, 2013 I still hadn't received a response from you as to how to go forward with this release so I sent you an email asking for a response.

As of today, Wednesday February 6, 2013 I still haven't received a response. Could Yates please get a response as to how to go forward with this spill in order to get it successfully closed?

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email: geoffreyr.leking@state.nm.us

Amber Cannon

From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
To: Amber Cannon
Sent: Thursday, February 07, 2013 3:50 PM
Subject: Read: Soil RRALs for 1) ground water at depth 2) massive caliche encountered

Your message was read on Thursday, February 07, 2013 3:50:17 PM (GMT-07:00) Mountain Time (US & Canada).

Amber Cannon

From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
To: Amber Cannon
Sent: Friday, February 08, 2013 11:41 AM
Subject: Read: Soil RRALs for 1) ground water at depth 2) massive caliche encountered

Your message was read on Friday, February 08, 2013 11:41:06 AM (GMT-07:00) Mountain Time (US & Canada).

Amber Cannon

From: Amber Cannon
Sent: Monday, February 25, 2013 8:36 AM
To: Leking, Geoffrey R, EMNRD; E. L. Gonzales (elidiol.gonzales@state.nm.us); Sanchez, Daniel J., EMNRD (daniel.sanchez@state.nm.us)
Cc: Bob Asher; Lisa Norton ; Katie Parker
Subject: RE: Soil RRALs for 1) ground water at depth 2) massive caliche encountered
Attachments: PresidenteBPDStateCom1H_Sample Table_061112.xlsx

Importance: High

Tracking:

Recipient

Read

Leking, Geoffrey R, EMNRD

E. L. Gonzales (elidiol.gonzales@state.nm.us)

Sanchez, Daniel J., EMNRD
(daniel.sanchez@state.nm.us)

Bob Asher

Lisa Norton

Katie Parker

Read: 2/25/2013 8:40 AM

Mr. Leking,

Do you have a response as to how Yates should proceed with the release at the Presidente BPD State Com #1H? We are at a standstill with moving forward on clean-up and/or backfill until I receive a response from you.

Just to refresh your mind about this site:

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A response would be greatly appreciated so that we may move forward.

Thanks for your time,

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Environmental Regulatory Agent

Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575)-513-8799

From: Amber Cannon
Sent: Wednesday, February 06, 2013 8:15 AM
To: Leking, Geoffrey R, EMNRD; E. L. Gonzales (elidiol.gonzales@state.nm.us)
Cc: Bob Asher; Lisa Norton ; Katie Parker
Subject: FW: Soil RRALs for 1) ground water at depth 2) massive caliche encountered
Importance: High

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Hobbs, NM 88240
Office: (575) 393-6161 Ext. 113
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email: geoffreyr.leting@state.nm.us

Amber Cannon

From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
To: Amber Cannon
Sent: Monday, February 25, 2013 10:18 AM
Subject: Read: Soil RRALs for 1) ground water at depth 2) massive caliche encountered

Your message was read on Monday, February 25, 2013 10:17:38 AM (GMT-07:00) Mountain Time (US & Canada).

Amber Cannon

From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
Sent: Tuesday, February 26, 2013 10:41 AM
To: Amber Cannon; Gonzales, Elidio L, EMNRD; Sanchez, Daniel J., EMNRD
Cc: Bob Asher; Lisa Norton; Katie Parker
Subject: RE: Soil RRALs for 1) ground water at depth 2) massive caliche encountered

Amber

Please excavate further at S1 and S6 to display decreasing trend and/or less than 1000 ppm (ideally 250 ppm). The concentration at S1 is 14 times the RRAL at current bottom depth of 1.0' and S6 displays an increasing trend with a bottom depth concentration that is almost 9 times the RRAL. . Note: I am not requesting that you excavate at the locations where a decreasing trend is observed or the RRAL has been satisfied.

This approach is consistent with other sites with ground water at similar depths. Caliche may be fractured or may become saturated even without the secondary porosity presented by fracturing. Many times very competent caliche when excavated with the assistance of a rock hammer or track hoe is displayed to be only a few to several feet thick and then less competent material is discovered. Fluid may also flow over a competent but limited extent of caliche and then find a preferential pathway (ie., more permeable pathway) and migrate vertically and horizontally.

The depth of ground water allows for using the decreasing trend scenario and the cleanup level scenario as a shallow ground water scenario would force the request to delineate vertically to 250 ppm.

Please contact me if you have any questions.

Thank you.

Geoffrey Leking
Environmental Specialist
NMOCD-Hobbs
1625 N. French Drive
Hobbs, NM 88240
Office: (575) 393-6161 Ext. 113
Cell: (575) 399-2990
email: geoffreyr.leking@state.nm.us

From: Amber Cannon [<mailto:ACannon@yatespetroleum.com>]
Sent: Monday, February 25, 2013 8:36 AM
To: Leking, Geoffrey R, EMNRD; Gonzales, Elidio L, EMNRD; Sanchez, Daniel J., EMNRD
Cc: Bob Asher; Lisa Norton; Katie Parker
Subject: RE: Soil RRALs for 1) ground water at depth 2) massive caliche encountered
Importance: High

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guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender therefore does not accept liability for any errors or omissions in the contents of this message, which arise as a result of e-mail transmission. If verification is required please request a hard-copy version.

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From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
Sent: Tuesday, February 26, 2013 11:26 AM
To: Amber Cannon; Gonzales, Elidio L, EMNRD; Sanchez, Daniel J., EMNRD
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Amber Cannon

From: Amber Cannon
Sent: Tuesday, February 26, 2013 11:31 AM
To: 'Leking, Geoffrey R, EMNRD'; Gonzales, Elidio L, EMNRD; Sanchez, Daniel J., EMNRD
Cc: Bob Asher; Lisa Norton; Katie Parker
Subject: RE: Soil RRALs for 1) ground water at depth 2) massive caliche encountered

Mr. Leking,

Thank you for your response. Yates will be discussing these options next week. I may have some questions for you after we have a chance for in-house discussion.

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Importance: High

Mr. Leking,

At our meeting on January 15, 2013 in your office, you told me that Yates would receive a response on how to go forward with the release that happened at the President BPD State Com #1H by the following week (January 22, 2013).

On Wednesday, January 23, 2013 you sent me an email (can be found below) that you would get back with me the following day (24th).

As of Monday, January 28, 2013 I still hadn't received a response from you as to how to go forward with this release so I sent you an email asking for a response.

As of today, Wednesday February 6, 2013 I still haven't received a response. Could Yates please get a response as to how to go forward with this spill in order to get it successfully closed?

Thank you for your time,
Amber Cannon

From: Amber Cannon
Sent: Monday, January 28, 2013 4:52 PM
To: Leking, Geoffrey R, EMNRD

Cc: Bob Asher

Subject: FW: Soil RRALs for 1) ground water at depth 2) massive caliche encountered

From: Amber Cannon

Sent: Monday, January 28, 2013 4:51 PM

To: Amber Cannon

Subject: RE: Soil RRALs for 1) ground water at depth 2) massive caliche encountered

Mr. Leking,

Just checking in with you about the above mentioned issue. I haven't received a response. Look forward to hearing from you.

Thanks,
Amber

From: Amber Cannon

Sent: Wednesday, January 23, 2013 3:25 PM

To: 'Leking, Geoffrey R, EMNRD'

Subject: RE: Soil RRALs for 1) ground water at depth 2) massive caliche encountered

Alright, thanks for the update.

Amber

From: Leking, Geoffrey R, EMNRD [<mailto:GeoffreyR.Leking@state.nm.us>]

Sent: Wednesday, January 23, 2013 11:47 AM

To: Amber Cannon

Subject: Soil RRALs for 1) ground water at depth 2) massive caliche encountered

Amber

I am still working on these. I have to go out in the field this afternoon. Let me get back to you tomorrow. Thanks.

Geoffrey Leking

Environmental Specialist

NMOCD-Hobbs

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