



# AE Order Number Banner

## Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



**App Number: pTO1417748512**

**1RP - 3114**

**KINNEY INCORPORATED**

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
**District II**  
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

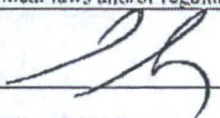
Name of Company Kinney Incorporated	Contact Edward Saldivar
Address PO Box 809, Andrews, TX 79714	Telephone No. 432-556-6236
Facility Name Littman 8 Federal #2	Facility Type Pump Jack
Surface Owner State	Mineral Owner BLM
API No. 30-025-33699	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	8	21S	38E	1980	FSL	1980	FWL	Lea

Latitude 32°29'34.62" N Longitude 104°6'39.21" W

**NATURE OF RELEASE**

Type of Release Produced water and oil	Volume of Release 4 bbls	Volume Recovered 0 bbls
Source of Release 1 in. nipple on well head	Date and Hour of Occurrence 5/15/14	Date and Hour of Discovery 5/15/14
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* A cow rubbed up against 1 in. nipple on well head. Shut valve and installed fence around well head.		
Describe Area Affected and Cleanup Action Taken.*		
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.		
Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Edward Saldivar	Approved by Environmental Specialist:	
Title: President	Approval Date:	Expiration Date:
E-mail Address: edward@kinneyincorporated.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6-2-14	Phone: 432-556-6236	

\* Attach Additional Sheets If Necessary

# Kinney Inc.

approved w/ caveat of further  
delineation/remediation southwest and  
west of wellhead  
DTW=66'  
*Jeffrey Seking*  
Environmental Specialist  
NMCCD-DIST 1  
6/25/14

## Littman 8 Federal #2

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## Corrective Action Plan

API No. 30-025-33699

Release Date: May 15<sup>th</sup>, 2014

Unit Letter K, Section 8, Township 21S, Range 38E



**July XX, 2014**

**Geoffrey Leking**

New Mexico Energy, Minerals, & Natural Resources  
Oil Conservation Division, Environmental Bureau – District 1  
1625 N. French Dr.  
Hobbs, NM 88240-9273

**RE: Corrective Action Plan  
Kinney Inc. – Littman 8 Federal #2  
UL/K sec. 8 T21S R38E  
API No. 30-025-33699**

Mr. Leking:

Kinney Incorporated (Kinney) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

**Background and Previous Work**

The site is located approximately 5.8 miles northeast of Eunice, New Mexico at UL/K sec. 8 T21S R38E. NM OSE records indicate that groundwater will be located at a depth of +/- 72 ft bgs. However, soil sampling data shows that the site is located approximately 1 mile northeast of an area of no known groundwater (Figure 1).

On May 15<sup>th</sup>, 2014, Kinney was notified of a release at the site. A cow rubbed up against a 1 inch nipple on the well head and released 4 barrels of produced water and oil over 1,177 square feet of lease pad and pasture land. None of this fluid was recovered. An initial C-141 was signed by Kinney on June 2<sup>nd</sup>, 2014 and submitted to NMOCD for their approval (Appendix A).

RECS personnel were on site beginning on June 3<sup>rd</sup>, 2014 to assess the release. Four points within the release area were sampled at the surface, and three points were sampled with depth (Figure 2). All samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis. Point 1 returned elevated laboratory chloride levels until 5.5 ft bgs. Point 2 returned elevated chloride levels until 1 ft bgs, and Point 3 and Point 4 returned chloride levels below regulatory standards at the surface (Appendix B). Gasoline Range Organics (GRO) readings at all points and all depths returned values of non-detect. Diesel Range Organics (DRO) readings were elevated at the surface of Point 1 and Point 2, but fell below regulatory standards at depth. Point 3 returned DRO values above regulatory standards at the surface and 6 inches bgs, but at 1 ft bgs returned a DRO value below regulatory standards. Point 4 returned a DRO value of non-detect at the surface.

Photo documentation of these activities can be found in Appendix C.

## Corrective Action Plan

Based on the laboratory analysis of the release, the release area around Point 1 will be excavated to a depth of 5 ft bgs. At the base of the excavation, a composite bottom sample will be taken to confirm that constituents are below regulatory standards. Point 2 will be scraped to a depth of 1 ft bgs. Point 3 will be scraped to 1 ft bgs and a composite bottom sample will be taken to confirm that TPH standards are below regulatory standards. Point 4 has all constituents below regulatory standards at the surface. Therefore, only the vegetation will be washed with MicroBlaze to remove residual staining.

Micro-Blaze contains a blend of wetting agents, nutrients and several strains of safe, non-pathogenic *Bacillus* bacteria. When applied to a hydrocarbon-based or organic spill or contaminant, the wetting agent begins breaking down the contaminants into smaller molecules for more efficient degradation, by the microbes, into harmless byproducts like carbon dioxide, water, and trace salts.

All excavated soils will be evaluated to use as backfill. Any soils that do not meet regulatory standards will be taken to a NMOCD approved facility for disposal. Clean soil will be imported to the site to replace the soils taken for disposal and blended with the residual excavated soils to serve as backfill. Samples of the blended backfill will be taken to a commercial laboratory for analysis to confirm that all constituents are below regulatory standards. The site will then be backfilled with the blended soil and contoured to the surrounding location.

Once these activities have been completed, a report will be submitted detailing the CAP actions and requesting 'remediation termination' and site closure.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,



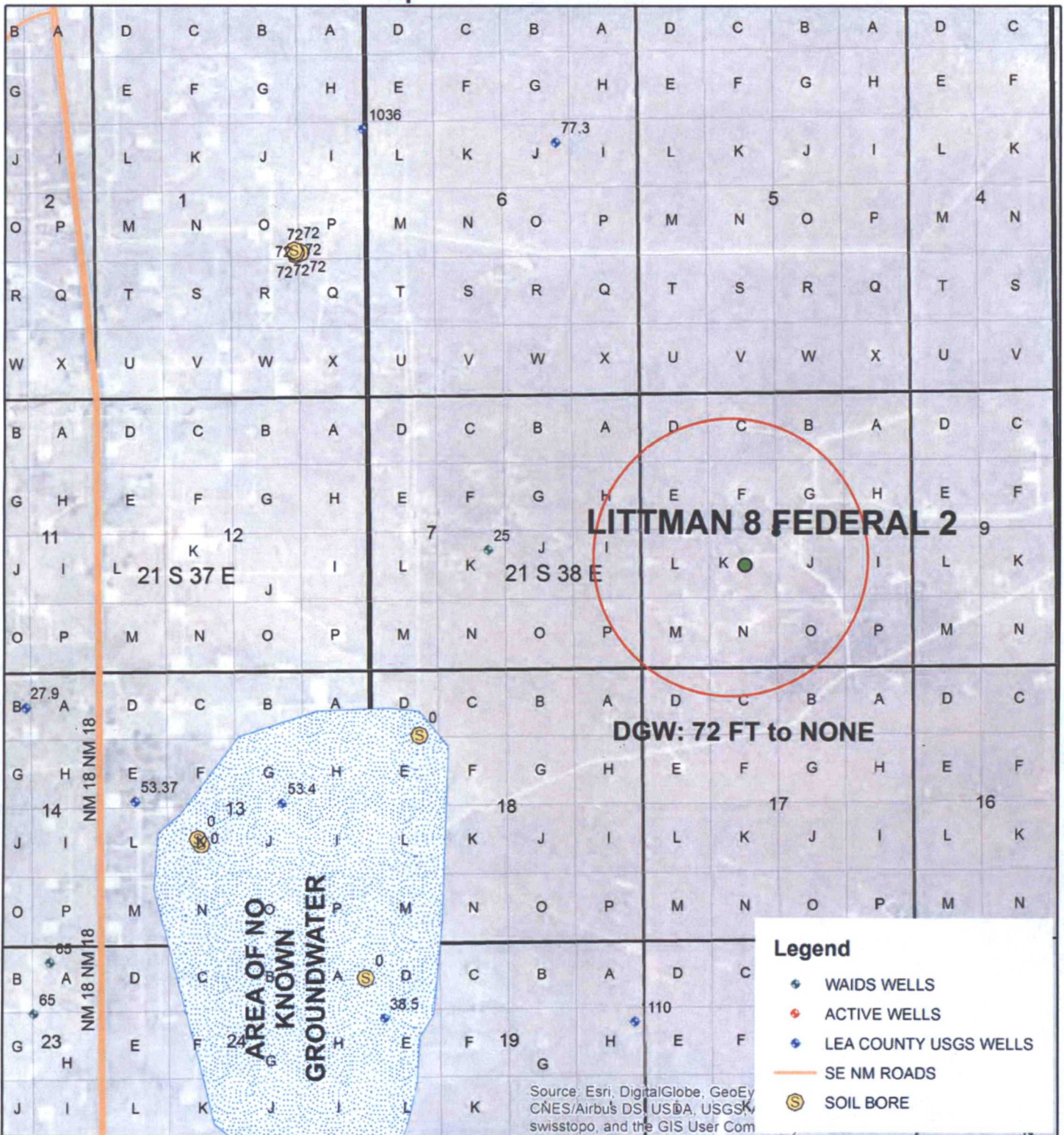
Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

### Attachments:

- Figure 1 – Depth to Groundwater
- Figure 2 – Initial Sampling Data
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Labs
- Appendix C – Photo Documentation



# Depth to Groundwater



**RECS**  
RICE ENVIRONMENTAL  
CONSULTING & SAFETY

## KINNEY INC. LITTMAN 8 FEDERAL 2

Unit Letter K, Section 8  
T-21-S R-38-E  
LEA COUNTY, NM

Figure 1

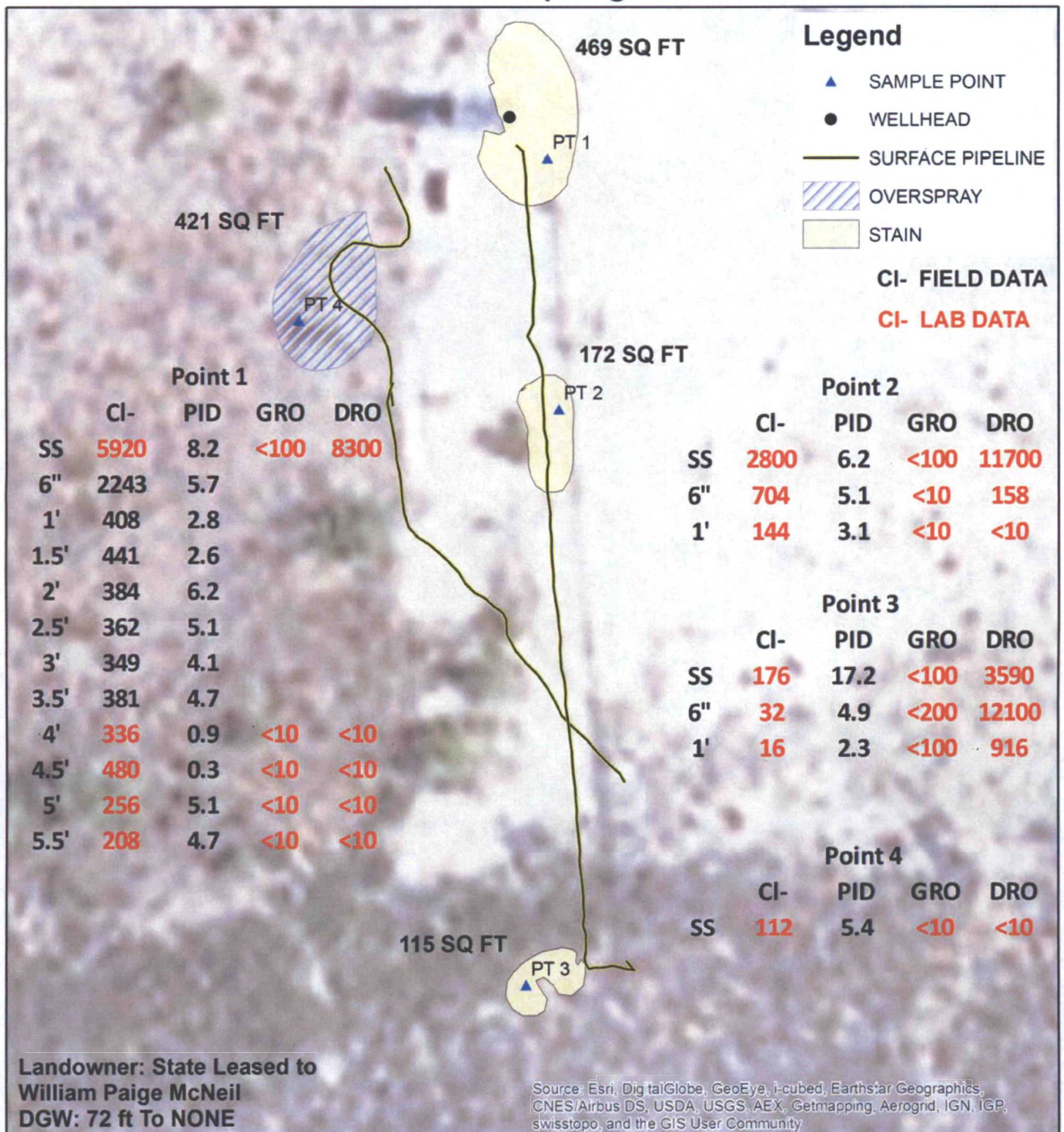
0 0.3 0.6  
Miles

Drawing date: 6/5/14  
Drafted by: L. Weinheimer





# Initial Sampling Data



**KINNEY INC.**  
**LITTMAN 8**  
**FEDERAL 2**

Unit Letter K, Section 8  
T-21-S R-38-E  
LEA COUNTY, NM

**Figure 2**



0 10 20  
Feet  
GPS Date: 6/3/14 AG  
Drawing date: 6/20/14  
Drafted by: L. Weinheimer



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

June 10, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: KINNEY LITTMAN 8 FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 06/04/14 9:55.

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](http://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:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	06/04/2014	Sampling Date:	06/03/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 1 @ SURFACE (H401701-01)**

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	06/09/2014	ND	400	100	400	0.00			
TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<100	100	06/09/2014	ND	191	95.4	200	3.91			
DRO >C10-C28	8300	100	06/09/2014	ND	197	98.3	200	4.65			

Surrogate: 1-Chlorooctane	85.5 %	65.2-140
Surrogate: 1-Chlorooctadecane	288 %	63.6-154

**Sample ID: PT. 1 @ 4' (H401701-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	06/05/2014	ND	400	100	400	0.00		
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	06/09/2014	ND	191	95.4	200	3.91		
DRO >C10-C28	<10.0	10.0	06/09/2014	ND	197	98.3	200	4.65		

Surrogate: 1-Chlorooctane	88.1 %	65.2-140
Surrogate: 1-Chlorooctadecane	92.3 %	63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	06/04/2014	Sampling Date:	06/03/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 @ SURFACE (H401701-03)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2800</b>	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/09/2014	ND	191	95.4	200	3.91	
<b>DRO &gt;C10-C28</b>	<b>11700</b>	100	06/09/2014	ND	197	98.3	200	4.65	

Surrogate: 1-Chlorooctane	79.9 %	65.2-140
Surrogate: 1-Chlorooctadecane	405 %	63.6-154

**Sample ID: PT. 2 @ 6" (H401701-04)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>704</b>	16.0	06/05/2014	ND	400	100	400	0.00	
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	06/09/2014	ND	191	95.4	200	3.91	
<b>DRO &gt;C10-C28</b>	<b>158</b>	10.0	06/09/2014	ND	197	98.3	200	4.65	

Surrogate: 1-Chlorooctane	96.5 %	65.2-140
Surrogate: 1-Chlorooctadecane	106 %	63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	06/04/2014	Sampling Date:	06/03/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 @ 1' (H401701-05)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	06/05/2014	ND	400	100	400	0.00	
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	06/09/2014	ND	191	95.4	200	3.91	
DRO >C10-C28	<10.0	10.0	06/09/2014	ND	197	98.3	200	4.65	

Surrogate: 1-Chlorooctane	139 %	65.2-140
Surrogate: 1-Chlorooctadecane	136 %	63.6-154

**Sample ID: PT. 3 @ SURFACE (H401701-06)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/09/2014	ND	191	95.4	200	3.91	
<b>DRO &gt;C10-C28</b>	<b>3590</b>	100	06/09/2014	ND	197	98.3	200	4.65	

Surrogate: 1-Chlorooctane	72.5 %	65.2-140
Surrogate: 1-Chlorooctadecane	162 %	63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 JACOB KAMPLAIN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	06/04/2014	Sampling Date:	06/03/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 3 @ 6" (H401701-07)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg	Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	06/09/2014	ND	191	95.4	200	3.91	
DRO >C10-C28	12100	200	06/09/2014	ND	197	98.3	200	4.65	
Surrogate: 1-Chlorooctane		77.3 %	65.2-140						
Surrogate: 1-Chlorooctadecane		331 %	63.6-154						

**Sample ID: PT. 4 @ SURFACE (H401701-08)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/05/2014	ND	400	100	400	0.00	
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	06/09/2014	ND	191	95.4	200	3.91	
DRO >C10-C28	<10.0	10.0	06/09/2014	ND	197	98.3	200	4.65	
Surrogate: 1-Chlorooctane		94.4 %	65.2-140						
Surrogate: 1-Chlorooctadecane		105 %	63.6-154						

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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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Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO										ANALYSIS REQUEST										
Company Name: <u>DECS</u>										P.O. #:										
Project Manager: <u>Kyle Norman</u>										Company:										
Address:										Attn:										
City: Hobbs										State: NM Zip: 88240										
Phone #:										Fax #:										
Project #:										Project Owner:										
Project Name: <u>Kinney Litteren 8 Field #2</u>										City:										
Project Location:										State: Zip:										
Sampler Name: <u>Amber Groves</u>										Phone #:										
FOR LAB USE ONLY										Fax #:										
Lab I.D.	Sample I.D.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	PRESERV	SAMPLING	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
1401701-	01 Pt. 1 @ Surface	1											6-3-14	9:00	✓	✓				
	02 Pt. 1 @ 4ft	1											6-3-14	11:00	✓	✓				
	03 Pt. 2 @ Surface	1											6-3-14	9:05	✓	✓				
	04 Pt. 2 @ 10in	1											6-3-14	9:40	✓	✓				
	05 Pt. 2 @ 1ft	1											6-3-14	10:10	✓	✓				
	06 Pt. 3 @ Surface	1											6-3-14	9:10	✓	✓				
	07 Pt. 3 @ 10in	1											6-3-14	9:45	✓	✓				
	08 Pt. 4 @ Surface	1											6-3-14	9:15	✓	✓				

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether tested in container or not, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other claim whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated covenants or otherwise.

Relinquished By: <u>Amber Groves</u>	Date: <u>6-4-14</u>	Received By: <u>Kyle Norman</u>	Date: <u>6-4-14</u>
Relinquished By:	Date:	Received By:	Date:
Delivered By: (Circle One)			
Sampler - UPS - Bus - Other:			
Checked By: (Initials) <u>ch</u>			
Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>			
2.8c			
#51			

email results  
knorman@rice-ecs.com hconder@rice-ecs.com;  
Lweinheimer@rice-ecs.com; kjones@riceswd.com;  
Lpena@riceswd.com; sedwards@rice-ecs.com  
agroves@rice-ecs.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





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

June 20, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: KINNEY LITTMAN 8 FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 06/12/14 16:20.

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](http://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,

Caley D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	06/12/2014	Sampling Date:	06/12/2014
Reported:	06/20/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	T21S R38E		

**Sample ID: PT. 1 @ 4.5' (H401805-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	06/18/2014	ND	400	100	400	3.92		
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	06/19/2014	ND	207	104	200	7.29		
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	216	108	200	8.55		

Surrogate: 1-Chlorooctane 104 % 65.2-140  
Surrogate: 1-Chlorooctadecane 120 % 63.6-154

**Sample ID: PT. 1 @ 5' (H401805-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/18/2014	ND	400	100	400	3.92		
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	06/19/2014	ND	207	104	200	7.29		
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	216	108	200	8.55		

Surrogate: 1-Chlorooctane 109 % 65.2-140  
Surrogate: 1-Chlorooctadecane 126 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	06/12/2014	Sampling Date:	06/12/2014
Reported:	06/20/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	T21S R38E		

**Sample ID: PT. 1 @ 5.5' (H401805-03)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>208</b>	16.0	06/18/2014	ND	400	100	400	3.92	
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	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	195	97.5	200	4.36	

Surrogate: 1-Chlorooctane 95.7 % 65.2-140  
Surrogate: 1-Chlorooctadecane 96.8 % 63.6-154

**Sample ID: PT. 3 @ 1' (H401805-04)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	06/18/2014	ND	400	100	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/19/2014	ND	174	87.0	200	4.35	
<b>DRO &gt;C10-C28</b>	<b>916</b>	100	06/19/2014	ND	195	97.5	200	4.36	

Surrogate: 1-Chlorooctane 88.0 % 65.2-140  
Surrogate: 1-Chlorooctadecane 153 % 63.6-154

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\*=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





# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO										ANALYSIS REQUEST																																																																															
Company Name: <u>DECS</u>										P.O. #:																																																																															
Project Manager: <u>Kyle Norman</u>										Company:																																																																															
Address:										Attn:																																																																															
City: Hobbs										State: NM Zip: 88240																																																																															
Phone #:										Fax #:																																																																															
Project #:										Project Owner:																																																																															
Project Name: <u>Kinney bottom &amp; Federal #2</u>										City:																																																																															
Project Location: <u>T215-2382</u>										State:																																																																															
Sampler Name: <u>Araber Groves</u>										Phone #:																																																																															
Fax #:										Zip:																																																																															
FOR LAB USE ONLY										PRESERV.										SAMPLING																																																																					
MATRIX										OTHER:										DATE										TIME																																																											
GROUNDWATER										ACID/BASE										ICE / COOL										OTHER:																																																											
WASTEWATER										SLUDGE										SOIL										OIL																																																											
# CONTAINERS										(G)RAB OR (C)OMP																																																																															
Lab I.D.										Sample I.D.										Chlorides										TPH 8015 M										BTEX										Texas TPH										Complete Cations/Anions										TDS																			
<u>4401805</u>										<u>1 Pt. 1 @ 4.5ft</u>										<u>6-12-14</u>										<u>10:20</u>										<u>✓</u>																																																	
<u>3</u>										<u>3 Pt. 1 @ 5ft</u>										<u>6-12-14</u>										<u>10:25</u>										<u>✓</u>																																																	
<u>3</u>										<u>3 Pt. 1 @ 5.5ft</u>										<u>6-12-14</u>										<u>10:30</u>										<u>✓</u>																																																	
<u>4</u>										<u>4 Pt. 3 @ 1ft</u>										<u>6-12-14</u>										<u>11:00</u>										<u>✓</u>																																																	

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Relinquished By: <u>[Signature]</u>	Date: <u>6-12-14</u>	Received By: <u>[Signature]</u>	Date: <u>6-12-14</u>	Time: <u>4:20</u>	Time: <u></u>
Relinquished By:	Date:	Received By:	Date:	Time:	Time:
Delivered By: (Circle One)	Sample Condition	Checked By:			
Sampler - UPS - Bus - Other: <u>280 #521</u>	Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>[Signature]</u>			

Phone Result: ☐ Yes ☐ No Add'l Phone #:

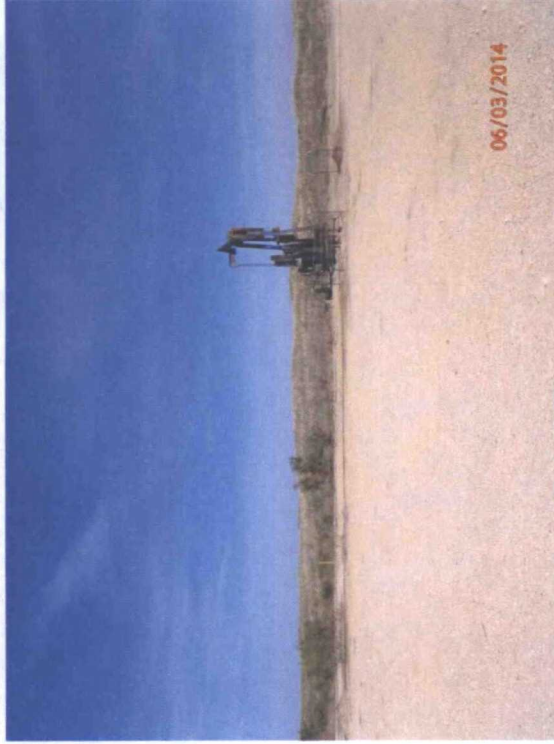
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS: email results  
knorman@rice-ecs.com hconder@rice-ecs.com;  
Lweinheimer@rice-ecs.com; kjones@riceswd.com;  
Lpena@riceswd.com; sedwards@rice-ecs.com  
agroves@rice-ecs.com



# Kinney Inc. Littman 8 Federal #2

Unit Letter K, Section 8, T21S, R38E



Initial site photo, facing west

6/3/14



Initial site photo, facing north

6/3/14



Initial site photo, facing northeast

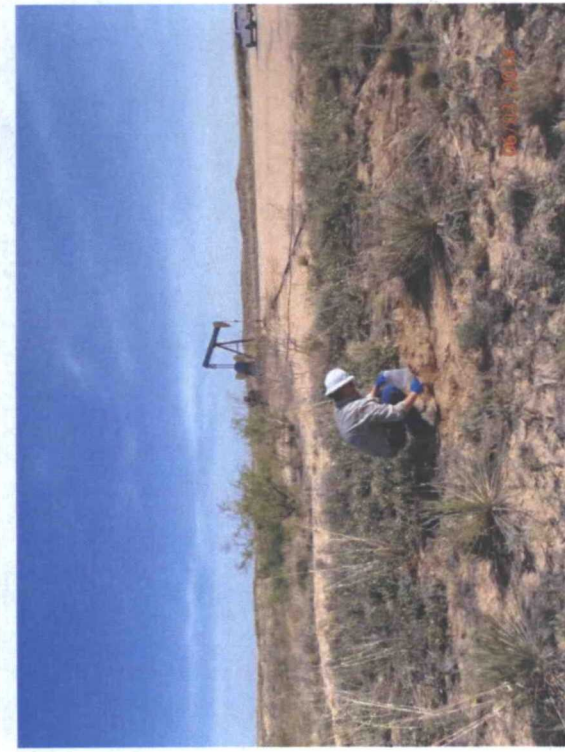
6/3/14



Initial site photo, facing north

6/3/14





Taking surface sample, facing north

6/3/14



Auguring for depth, facing north

6/3/14