

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

5. Lease Serial No.
NMLC029426A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other: INJECTION

8. Well Name and No.
H E WEST A 7

2. Name of Operator Contact: TERRY B CALLAHAN
LINN OPERATING INCORPORATED E-Mail: tcallahan@linnenergy.com

9. API Well No.
30-015-05066-00-S1

3a. Address
600 TRAVIS STREET SUITE 5100
HOUSTON, TX 77002

3b. Phone No. (include area code)
Ph: 281-840-4272

10. Field and Pool, or Exploratory
GRAYBURG

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 4 T17S R31E NENE 660FNL 660FEL

11. County or Parish, and State

EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input checked="" type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

LOCATION HAS BEEN RECLAIMED AND READY FOR INSPECTION.

2/06/2014 - RICE ENVIRONMENTAL CONSULTING & SAFETY, LLC, SPREAD 8 LBS OF BLM #2 AND 8 LBS OF BLM #4 SEED MIX.

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 14 2014

ATTACHED:

RD 7-29-14
Accepted for record
NMLC029426A

RECEIVED

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #248231 verified by the BLM Well Information System
For LINN OPERATING INCORPORATED, sent to the Carlsbad
Committed to AFMSS for processing by LINDA DENNISTON on 06/05/2014 (14LD0229SE)

Name (Printed/Typed) TERRY B CALLAHAN

Title REG COMPLIANCE SPECIALIST III

Signature (Electronic Submission)

Date 06/04/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By **ACCEPTED**

JAMES A AMOS
Title SUPERVISOR EPS

Date 07/08/2014

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #248231 that would not fit on the form

32. Additional remarks, continued

1. RICE ENVIRONMENTAL RECLAMATION REPORT WITH PHOTOGRAPHS
2. CARDINAL LABORATORIES REPORT

Analytical Results For:

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

Received: 12/18/2013
Reported: 12/26/2013
Project Name: H. E. WEST A #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/10/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: 5 PT COMP @ SURFACE (H303076-01)

BTEX 80218			mg/kg		Analyzed By: MS			I-02	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2013	ND	1.84	91.8	2.00	5.76	
Toluene*	<0.050	0.050	12/26/2013	ND	1.84	91.8	2.00	5.79	
Ethylbenzene*	<0.050	0.050	12/26/2013	ND	1.82	90.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	12/26/2013	ND	5.34	88.9	6.00	6.08	
Total BTEX	<0.300	0.300	12/26/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/26/2013	ND	416	104	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	12/23/2013	ND	194	97.2	200	14.5	
DRO >C10-C28	47.5	10.0	12/23/2013	ND	201	101	200	16.4	

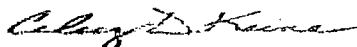
Surrogate 1-Chlorooctane 83.8 % 65.2-140

Surrogate 1-Chlorooctadecane 83.5 % 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 on 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



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

December 26, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST A #7

Enclosed are the results of analyses for samples received by the laboratory on 12/18/13 16:25.

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

Cardinal Laboratories is 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,

A handwritten signature in cursive script, reading "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

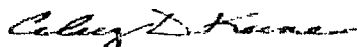
Notes and Definitions

- I-02 This result was analyzed outside of the EPA recommended holding time.
- 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



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) 673-7026

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Company Name: RECS		BILL TO		ANALYSIS REQUEST									
Project Manager: Jacob Kamplein		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>									
Address:		Company:											
City: Hobbs State: NM Zip: 88240		Attn:											
Phone #: Fax #:		Address:											
Project #: Project Owner:		City:											
Project Name:		State: Zip:											
Project Location: H.E. West A #7		Phone #: Fax #:											
Sampler Name: Kyle Schmidt													

Lab I.D.	Sample I.D.	CONTAINER OR IC/COMP	MATRIX						PRESERV		SAMPLING		DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS	
			GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACIDBASE	ACE/COOL	OTHER											
H303074	1. Spirit computer residue	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>								12-13	13:25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				

Relinquished By: Kyle Schmidt	Date: 12-13-13	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #: _____
Relinquished By: _____	Date: _____	Received By: _____	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #: _____
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____			REMARKS: email results Knorman@rice-ecs.com Kjones@riceswd.com, jkampilain@rice-ecs.com hconder@rice-ecs.com, Lweinheimer@rice-ecs.com	

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

#91



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

January 31, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST A #7

Enclosed are the results of analyses for samples received by the laboratory on 01/27/14 16:35.

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

Cardinal Laboratories is 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,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/27/2014
Reported: 01/31/2014
Project Name: H. E. WEST A #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 5 PT. COMP (H400261-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/31/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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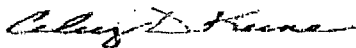
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

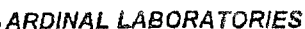
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories***=Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager






CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Company Name: RECS		P.O. #:		Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS									
Project Manager: Jacob Kampain		Company:											
Address:		Attn:											
City: Hobbs State: NM Zip: 88240		Address:											
Phone #: Fax #:		City:											
Project #: Project Owner:		State: Zip:											
Project Name: Lion Energy		Phone #:											
Project Location: H.E. West A#7		Fax #:											
Sampler Name: Joshua Bullock													
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING							
Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/DIGEST	ICE / COOL	OTHER	DATE	TIME
H4002a1	S Dist Composite	1			✓					✓		1-27-17	1:00

PLEASE NOTE: Liberty and Deductions: Cardinal's salary and other's exclusive normal; for any other items whether based in Cardinal at all, but 14 letters to the amount paid by the client for the analysis. All claims including those for the highest and any other costs whatsoever will be created without further input from Cardinal within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for insurance or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By: 				Date: 7-24-14 Time: 4:35		Received By: 		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: _____ REMARKS:			
Relinquished By: _____				Date: _____ Time: _____		Received By: _____		email results Knorman@rice-ecs.com KJones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; Lwelnheimer@rice-ecs.com			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____						Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 			

† Cardinal cannot accept verbal changes. Please fax written changes to 605-393-2476

#54



PO Box 5630
Hobbs, NM 88241
Phone: (575) 393-4411
Fax: (575) 393-0293

REVEGETATION FORM

1. General Information

Site name: Linn Energy H.E. West A #7						
U/L A	Section 4	Township 17S	Range 31E	County Eddy	Latitude	Longitude
Contact Name: Jacob Kamplain						
Email: JKamplain@rice-ecs.com						
Site size: 13,125 square feet			Map detail of site attached <input type="checkbox"/>			
Additional information:						

2. Soils

**Do not rip caliche subsoils; caliche rocks brought to the surface by ripping shall be removed.*

Salvaged from site <input type="checkbox"/>	Bioremediated <input type="checkbox"/>	Imported <input checked="" type="checkbox"/>	Blended <input type="checkbox"/>	Depth (in):	
Texture:		Describe soil & subsoil: Top Soil			
Soil prep methods: Rip <input type="checkbox"/>	Depth(in):	Disc <input type="checkbox"/>	Depth (in):	Rollerpack <input type="checkbox"/>	
Date completed: 2/6/14					

3. Bioremediation

Fertilizer <input type="checkbox"/>	Hay <input type="checkbox"/>	Other <input checked="" type="checkbox"/>
Type:		Describe: BioInhance
Lbs/acre:		

4. Seeding

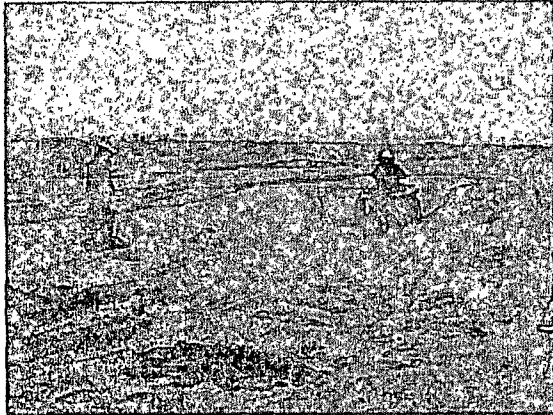
**Attach seed bag tags to this form. Seed bag tags shall contain the site name and S-T-R.*

Custom seed mix <input type="checkbox"/>	Prescribed mix <input checked="" type="checkbox"/>	Seed mix name: 8lbs of BLM #2 and 8lbs of BLM #4	Seeding date: 2/6/14
Broadcast <input checked="" type="checkbox"/>			
Method: Seeder			
Soil conditions during seeding: Dry <input checked="" type="checkbox"/> Damp <input type="checkbox"/> Wet <input type="checkbox"/>			
Photos attached <input checked="" type="checkbox"/>		Observations:	
Number of photos:			

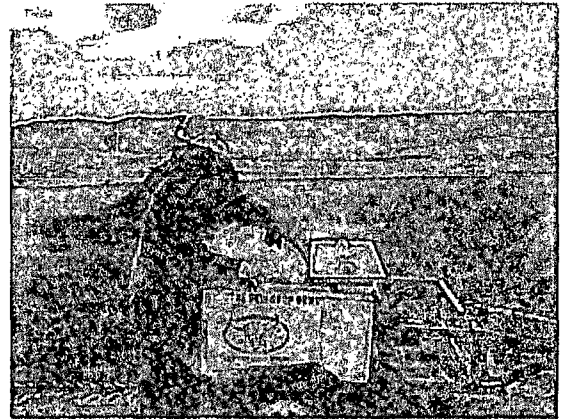
5. Certification

I hereby certify that the information in this form and attachments is true and complete to the best of my knowledge and belief.

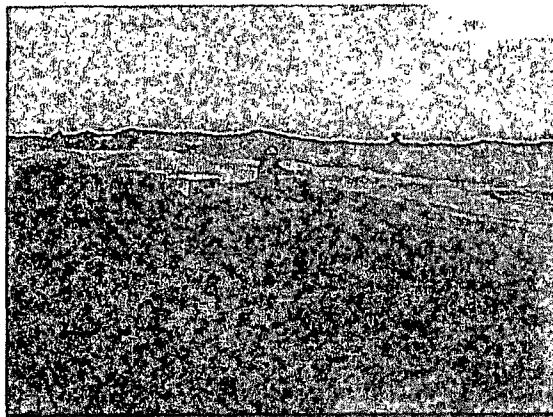
Name: Jose Flores	Title: Gang Pusher	Date: 2/6/14
Signature: Jose Flores		



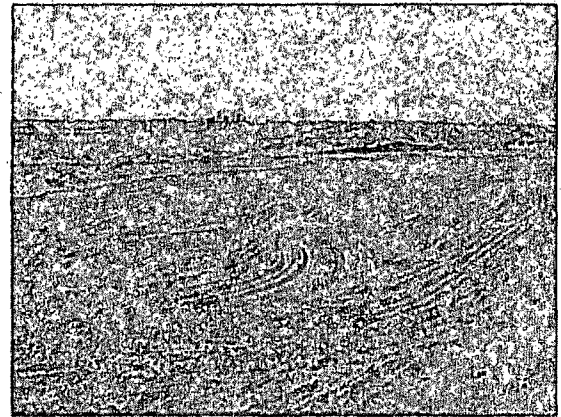
Adding soil amendments, facing west 2/6/14



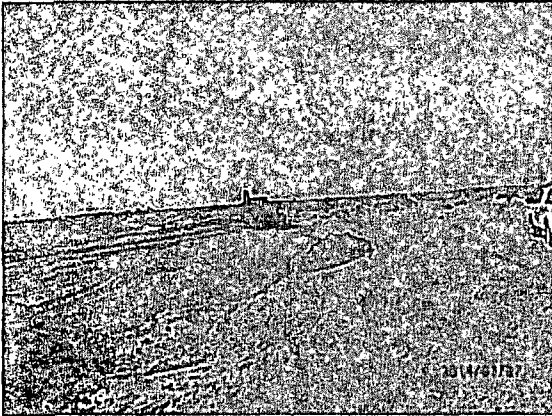
Adding seed to seeder, facing east 2/6/14



Seeding site, facing west 2/6/14



Site completed, facing west 2/6/14



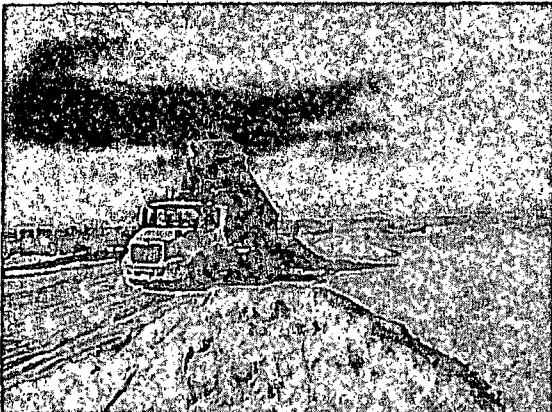
Scraping site, facing west

1/27/14



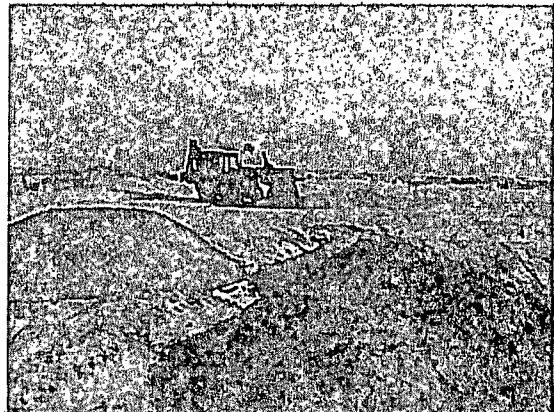
Creating berms to limit traffic, facing west

1/27/14



Importing topsoil, facing south

1/29/13



Backfilling site, facing southeast

1/30/14

Linn H.E. West A #7
Unit Letter A, Section 4, T17S, R31E



Initial site photo, facing southeast 12/10/13



Initial site photo, facing northwest 12/10/13



Initial site photo, facing southwest 12/10/13



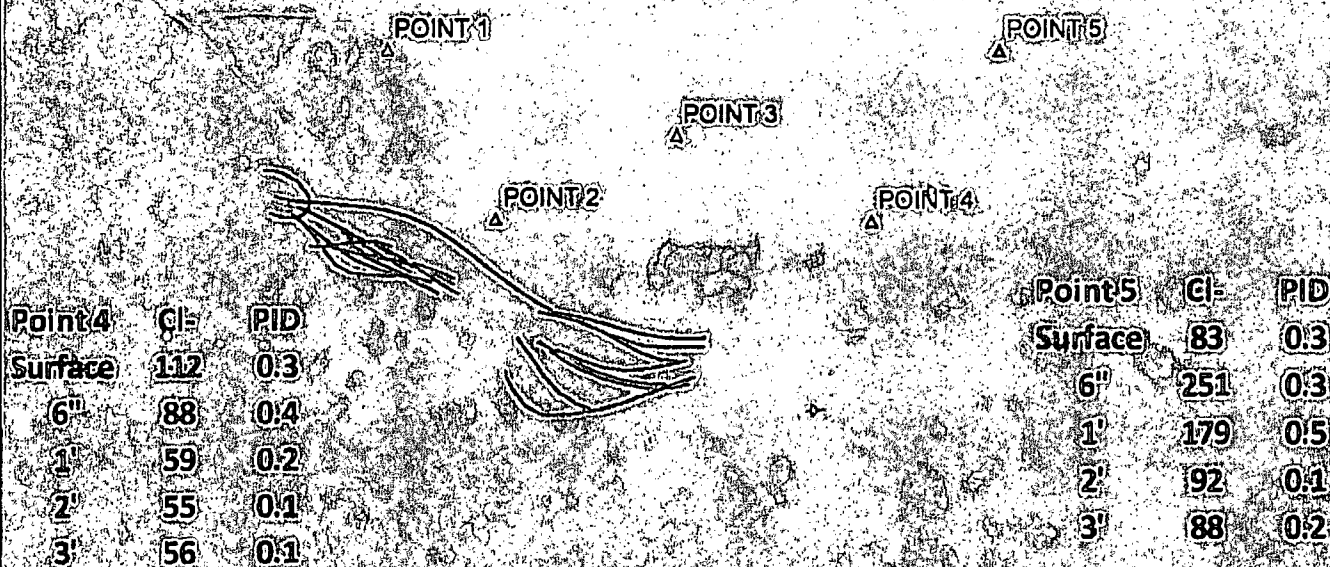
Hand auguring for depth, facing north 12/18/13

Initial Sampling Data

Point-1	CI-	PID
Surface	86	0.6
6"	91	7.9
1'	86	0.07
2'	84	0.06
3'	91	1.9

Point-2	CI-	PID
Surface	466	0.2
6"	594	1.9
1'	513	18
2'	555	49.8
3'	616	30.2

Point-3	CI-	PID
Surface	1207	0.3
6"	853	0.1
1'	359	0.4
2'	89	0.2
3'	93	0.1



Point-4	CI-	PID
Surface	112	0.3
6"	88	0.4
1'	59	0.2
2'	55	0.1
3'	56	0.1

Point-5	CI-	PID
Surface	83	0.3
6"	251	0.3
1'	179	0.5
2'	92	0.1
3'	88	0.2

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
5 Point Composite at surface	256	0.7	<10	47.5	<0.05	<0.05	<0.05	<0.15	<0.3

Legend

- DEADMAN
- SAMPLE POINT
- PAD
- SURFACE POLY LINES

CI-FIELD DATA
CI-LAB DATA

Landowner: BLM
DGW: None

Sources: Esri, DigitalGlobe, GeoEye, Earthstar USGS, AeroMap, GeoEye, IGN, GeoEye, and the GIS User Community



LINN H.E.
WEST A #7

LEGALS: UL/A sec. 4
T-17-SR-31-E
EDDY COUNTY, NM



0 25 50
Feet

GPS date: 12/10/13 KS
Drawing date: 12/26/13
Drafted by: L. Weinheimer