

## LINN ENERGY

2130 W. Bender Blvd.  
Hobbs, NM 88241  
Phone 575.738.1739

# Skelly Unit #2 (2RP-1293)

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# CAP Report and Termination Request

API No. 3001505344

Release Date: August 31<sup>st</sup>, 2012

Unit Letter C, Section 22, Township 17S, Range 31E

# Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241  
Phone 575.393.2967

CERTIFIED MAIL  
RETURN RECEIPT NO. 7007 2560 0000 4569 8401

**August 28<sup>th</sup>, 2013**

**Mike Bratcher**

New Mexico Energy, Minerals, & Natural Resources  
Oil Conservation Division, Environmental Bureau – District 2  
811 S. First St.  
Artesia, NM 88210

**RE: CAP Report and Termination Request  
Linn Energy – Skelly Unit #2 (2RP-1293)  
UL/C sec. 22 T17S R31E  
API No. 3001505344**

Mr. Bratcher:

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

## **Background and Previous Work**

On August 31<sup>st</sup>, 2012, an accidental discharge of produced water and oil from a ruptured 3 inch poly fusion weld released a total of 3 barrels of produced water and 2 barrels of oil into the pasture. A vacuum truck was called to clean up the standing fluid and a total of 1 barrel of produced water and 1 barrel of oil was recovered. An initial C-141 was submitted by Linn Energy on September 7<sup>th</sup>, 2012 (Appendix A). The site is located 5.5 miles west of Maljamar in unit letter 'C', sec. 22, T17S R31E in Eddy County, New Mexico. Soil bore installation at the site showed that there was no groundwater in the area.

On March 7<sup>th</sup>, 2013, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM. In the CAP, RECS recommended excavating the release area to a maximum depth of 4 ft bgs or to a laboratory chloride level of 1,000 mg/kg. Final chloride and hydrocarbon samples would be taken to a commercial laboratory for analysis. The site would then be backfilled with clean, imported soil. BLM approved the CAP on May 3<sup>rd</sup>, 2013.

The site was excavated to 28 ft x 31 ft x 4 ft deep beginning on May 15<sup>th</sup>, 2013 (Figure 1). A total of 156 yards of excavated soil was taken to a NMOCD approved facility for disposal. Confirmatory samples from the excavation walls and bottom were taken to a commercial laboratory for analysis. All the wall samples returned laboratory chloride results below 1,000 mg/kg. The bottom sample at 4 ft bgs returned a laboratory chloride

result of 17,200 mg/kg, a GRO reading of 778 mg/kg, a DRO reading of 15,200 mg/kg and a Total BTEX reading of 40.5 mg/kg (Appendix B). This data was sent to BLM and NMOCD. BLM and NMOCD responded on June 3<sup>rd</sup>, 2013, that the bottom of the excavation needed to be further delineated. NMOCD requested that a vertical be completed at the base of the excavation.

On June 4<sup>th</sup>, 2013, a vertical was installed at the base of the 4 ft bgs excavation (Figure 2). The vertical was installed to a depth of 17 ft bgs, and samples were taken at regular intervals as it was being advanced. The field samples were field tested for chlorides and hydrocarbons and representative samples were taken to a commercial laboratory for analysis. The 17 ft bgs sample returned a laboratory chloride reading of 7,440 mg/kg, a GRO reading of 72.5 mg/kg, a DRO reading of 2,040 mg/kg and a BTEX reading of 2.34 mg/kg (Appendix C).

Based on the vertical data, a soil bore was installed through the excavation to determine the depth of contamination. Per BLM's approval on June 27<sup>th</sup>, 2013, a caliche road was installed from the well pad to the site to facilitate the soil bore installation. On July 24<sup>th</sup>, 2013, a soil bore was installed through the center of the excavation (Figure 2). The soil bore was advanced to a depth of 39 ft bgs and field samples were taken at regular intervals and field tested for chlorides and hydrocarbons. The 39 ft bgs sample was taken to a commercial laboratory for analysis and returned a chloride result of 64 mg/kg, a DRO result of 11.3 mg/kg and GRO and BTEX results of non-detect (Appendix D). A temporary monitor well was installed at the site to determine whether groundwater existed in the area. The temporary monitor well was drilled to 45 ft bgs. Red bed clay was encountered at 43 ft bgs, which indicates the base of the aquifer. The bore was gauged and no groundwater was discovered in the bore.

The soil bore data was sent to NMOCD and BLM with a request to backfill the site. On August 2<sup>nd</sup>, 2013, BLM denied the request for backfilling and requested a liner be installed at the base of the excavation. An Addendum to the CAP was sent to NMOCD and BLM on August 5<sup>th</sup>, 2013, that stated a 20-mil reinforced poly liner would be installed at the base of the excavation. The liner would be key set per BLM's direction and the site would be backfilled with clean, imported soil. On August 15<sup>th</sup>, 2013, NMOCD concurred with BLM on the installation of a liner and approved the Addendum.

On August 21<sup>st</sup>, 2013, RECS personnel were on site to install the liner. A trench was excavated along the base of the 4 ft bgs excavation to key set the liner. A 20-mil reinforced poly liner was then installed and properly seated into the base of the excavation. 120 yards of clean topsoil and 72 yards of clean caliche were imported to the site to serve as backfill. A 2 ft layer of topsoil was placed over the liner to prevent it from punctures. A 1.5 ft layer of caliche was placed over the topsoil and then additional topsoil was used to backfill the site to the surface. On August 23<sup>rd</sup>, 2013, amendments were added to the soil and the site was seeded with LPC seed mix.

Photo documentation can be found in Appendix E.

Since the CAP activities have been completed, Linn respectfully requests 'remediation termination' or similar closure to the regulatory file. A final C-141 is attached for approval (Appendix F).

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,

A handwritten signature in black ink, appearing to read 'L. Weinheimer', with a long horizontal flourish extending to the right.

Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

Attachments:

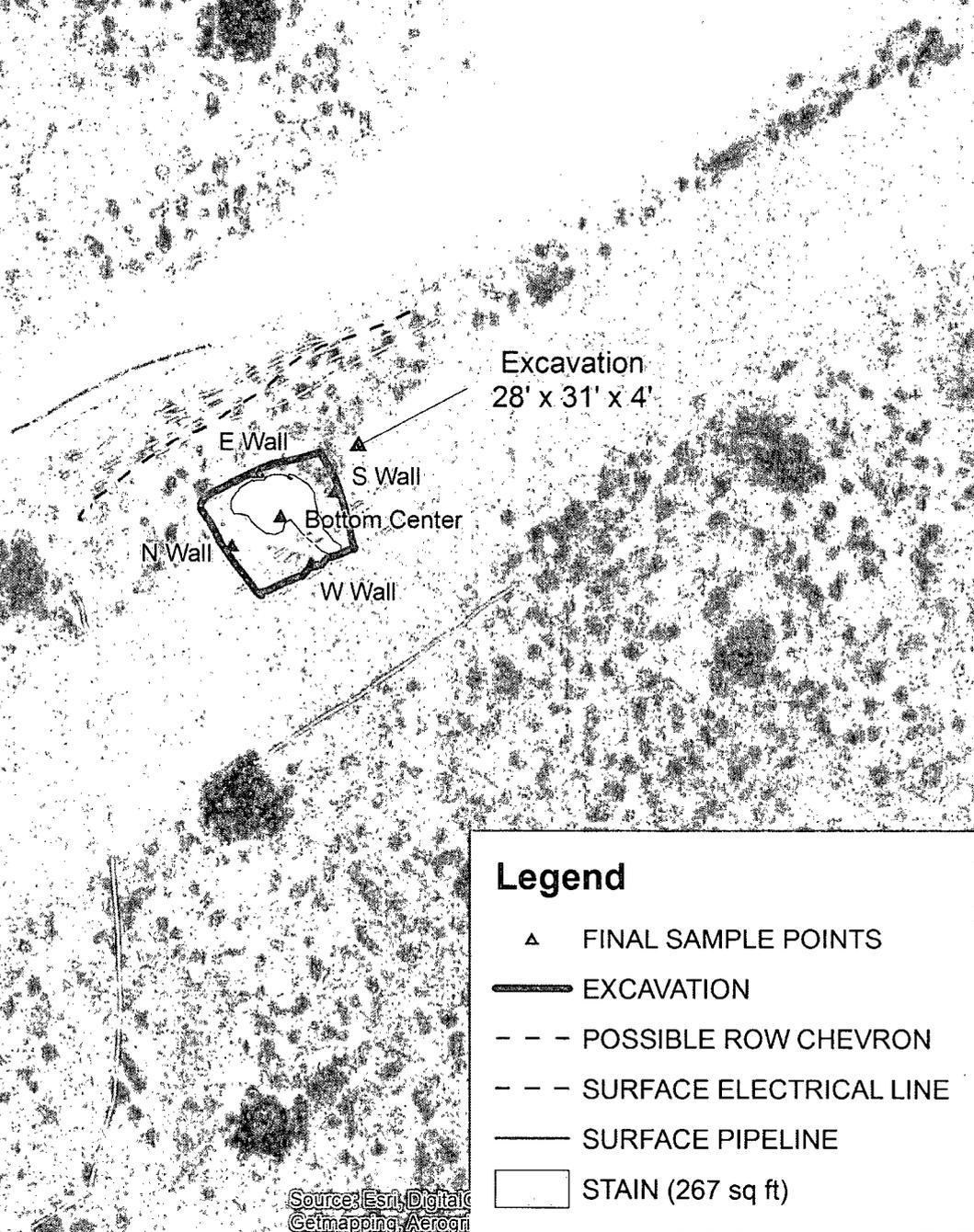
- Figure 1 – Excavation Lab Sampling Map
- Figure 2 – Vertical and SB Installation Data
- Appendix A – Initial C-141
- Appendix B – Excavation Laboratory Analyses
- Appendix C – Vertical Laboratory Analyses
- Appendix D – Soil Bore Installation Documentation
- Appendix E – Photo Documentation
- Appendix F – Final C-141

# Figures

RICE Environmental Consulting and Safety (RECS)  
P.O. Box 2948, Hobbs, NM 88241  
Phone 575.393.2967

# Excavation Lab Sampling

	CI	GRO	DRO	B	T	E	X	BTEX
North Wall Center	48	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
East Wall Center	80	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
South Wall Center	464	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
West Wall Center	128	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Bottom Center @ 4'	17200	778	15200	0.152	3.4	0.3	26.6	40.5



Landowner = BLM  
 DGW = None

**Legend**

- ▲ FINAL SAMPLE POINTS
- EXCAVATION
- - - POSSIBLE ROW CHEVRON
- - - SURFACE ELECTRICAL LINE
- SURFACE PIPELINE
- STAIN (267 sq ft)

Source: Esri, Digital  
 Getmapping, Aerogr



**LINN ENERGY  
 SKELLY UNIT  
 #2 AD (2RP-1293)**  
 LEGALS: UL/C sec. 22  
 T-17-S R-31-E  
 EDDY COUNTY, NM

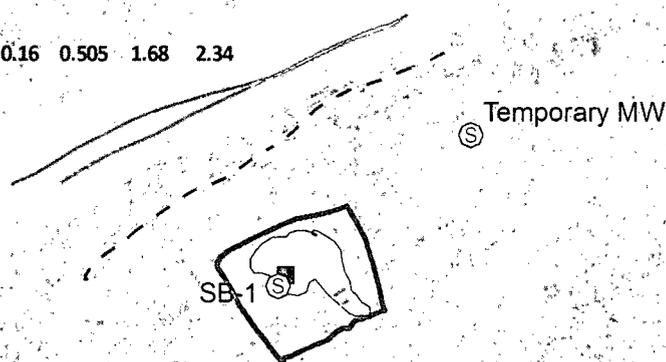
**Figure 1**

0 30 60 Feet

GPS date: 5/16/13 DH  
 Drawing date: 5/17/13  
 Drafted by: L. Weinheimer

# Vertical and SB Installation Data

Vertical										SB-1										
Depth	CI-	PID	GRO	DRO	B	T	E	X	BTEX	Depth	CI-	PID	Lab CI-	GRO	DRO	B	T	E	X	BTEX
4.5'	7736	179.2								4'	89	0.2								
5'	4966	393.6								6'	845	19.6								
5.5'	5607	419.5								9'	2941	1026								
6'	5570	826.3								12'	4805	3358								
6.5'	4390	509.6								15'	4619	1817								
7'	5760	1467	1860	16700	0.615	15.3	22.2	57.9	96	18'	2468	1011								
7.5'	9235	363.1								21'	299	137.8								
8'	7364	380.5								24'	250	197.7								
8.5'	8834	357								27'	235	121.9								
9'	7690	427.5								30'	256	149								
9.5'	5925	576.1								33'	260	149.3								
10'	3881	644.7								36'	148	69.1								
11'	3963	749.2								39'	115	26.5	64	<10	11.3	<0.05	<0.05	<0.05	<0.15	<0.3
12'	4632	524.5																		
13'	3299	754.2																		
14'	3904	667.7																		
15'	5069	1035																		
16'	4743	652.2																		
17'	7440	288.1	72.5	2040	<0.05	0.16	0.505	1.68	2.34											



## Legend

- Ⓢ SOIL BORE
- VERTICAL
- EXCAVATION
- - - POSSIBLE ROW CHEVRON
- - - SURFACE ELECTRICAL LINE
- SURFACE PIPELINE
- STAIN (267 sq ft)

Landowner = BLM

DGW = None



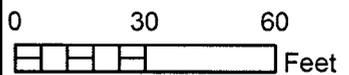
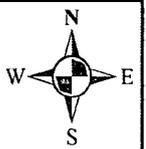
CI- FIELD DATA  
 CI- LAB DATA

©2013 Microsoft Corporation ImagePatch.com



**LINN ENERGY  
 SKELLY UNIT  
 #2 AD (2RP-1293)**  
 LEGALS: UL/C sec. 22  
 T-17-S R-31-E  
 EDDY COUNTY, NM

Figure 2



GPS date: 6/4/13 KL  
 Drawing date: 6/7/13  
 Drafted by: L. Weinheimer

# Appendix A

Initial C-141

RICE Environmental Consulting and Safety (RECS)  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Avenue, 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

**RECEIVED**  
SEP 07 2012  
**NMOCD ARTESIA**

Form C-141  
Revised October 10, 2003  
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC

**Release Notification and Corrective Action**

*JMW* 1225750374

**OPERATOR**  Initial Report  Final Report

Name of Company: Linn Operating	Contact: Joe Hernandez
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: Skelly Unit # 2	Facility Type: Oil

Surface Owner: Federal	Mineral Owner: Federal	API No.: 3001505344
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	22	17S	31E	1980	N	660	West	Eddy

Latitude: 32.8218898807163 Longitude: -103.863963690097

**NATURE OF RELEASE**

Type of Release: Oil / Produced Water	Volume of Release: 3 / 2	Volume Recovered: 1 / 1
Source of Release: Poly Pipeline	Date and Hour of Occurrence: 08/31/2012 9:30am	Date and Hour of Discovery: 08/31/2012 10am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? M. Bratcher- NM OCD Terry Gregston- BLM	
By Whom? Joe Hernandez	Date and Hour 09/04/2012 7 35am	
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.\*: 3" polyline split on fusion weld

Describe Area Affected and Cleanup Action Taken.\* area 15' x 15' picked up all fluid. gang fixed line, well back on. Assessment has been done Cleanup action pending.

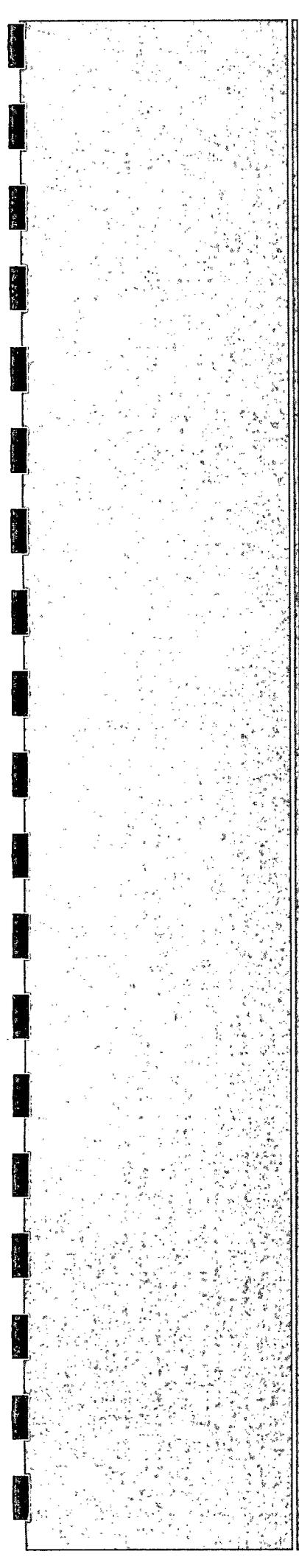
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: <i>[Signature]</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Joe Hernandez	Approved by District Supervisor: <b>Signed By</b> <i>[Signature]</i>	
Title: Production Foreman	Approval Date: <b>SEP 13 2012</b>	Expiration Date:
E-mail Address: jhernandez@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 09/07/2012 Phone: 575-942-9492		

\* Attach Additional Sheets If Necessary

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: October 13<sup>th</sup> 2012**

2RP-1293



# Appendix B

## Excavation Laboratory Analyses

**RICE Environmental Consulting and Safety (RECS)**

P.O. Box 2948 Hobbs, NM 88241

Phone 575.393.2967

May 23, 2013

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: SKELLY UNIT #2 AD

Enclosed are the results of analyses for samples received by the laboratory on 05/20/13 17:00.

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](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  
 BRUCE BAKER  
 112 W. TAYLOR  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 05/20/2013  
 Reported: 05/23/2013  
 Project Name: SKELLY UNIT #2 AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/20/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NORTH WALL CENTER (H301205-01)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88	
Toluene*	<0.050	0.050	05/23/2013	ND	2.08	104	2.00	1.96	
Ethylbenzene*	<0.050	0.050	05/23/2013	ND	2.32	116	2.00	2.27	
Total Xylenes*	<0.150	0.150	05/23/2013	ND	6.70	112	6.00	2.65	
Total BTEX	<0.300	0.300	05/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/22/2013	ND	448	112	400	3.64	

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	05/22/2013	ND	206	103	200	4.75	
DRO >C10-C28	<10.0	10.0	05/22/2013	ND	200	100	200	6.06	

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 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  
 BRUCE BAKER  
 112 W. TAYLOR  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 05/20/2013  
 Reported: 05/23/2013  
 Project Name: SKELLY UNIT #2 AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/20/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: EAST WALL CENTER (H301205-02)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88	
Toluene*	<0.050	0.050	05/23/2013	ND	2.08	104	2.00	1.96	
Ethylbenzene*	<0.050	0.050	05/23/2013	ND	2.32	116	2.00	2.27	
Total Xylenes*	<0.150	0.150	05/23/2013	ND	6.70	112	6.00	2.65	
Total BTEX	<0.300	0.300	05/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/22/2013	ND	448	112	400	3.64	

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	05/22/2013	ND	206	103	200	4.75	
DRO >C10-C28	<10.0	10.0	05/22/2013	ND	200	100	200	6.06	

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 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  
 BRUCE BAKER  
 112 W. TAYLOR  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 05/20/2013  
 Reported: 05/23/2013  
 Project Name: SKELLY UNIT #2 AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/20/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SOUTH WALL CENTER (H301205-03)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88	
Toluene*	<0.050	0.050	05/23/2013	ND	2.08	104	2.00	1.96	
Ethylbenzene*	<0.050	0.050	05/23/2013	ND	2.32	116	2.00	2.27	
Total Xylenes*	<0.150	0.150	05/23/2013	ND	6.70	112	6.00	2.65	
Total BTEX	<0.300	0.300	05/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 119 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/22/2013	ND	448	112	400	3.64	

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	05/22/2013	ND	206	103	200	4.75	
DRO >C10-C28	<10.0	10.0	05/22/2013	ND	200	100	200	6.06	

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 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  
 BRUCE BAKER  
 112 W. TAYLOR  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 05/20/2013  
 Reported: 05/23/2013  
 Project Name: SKELLY UNIT #2 AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/20/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: WEST WALL CENTER (H301205-04)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88	
Toluene*	<0.050	0.050	05/23/2013	ND	2.08	104	2.00	1.96	
Ethylbenzene*	<0.050	0.050	05/23/2013	ND	2.32	116	2.00	2.27	
Total Xylenes*	<0.150	0.150	05/23/2013	ND	6.70	112	6.00	2.65	
Total BTEX	<0.300	0.300	05/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/22/2013	ND	448	112	400	3.64	

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	05/22/2013	ND	206	103	200	4.75	
DRO >C10-C28	<10.0	10.0	05/22/2013	ND	200	100	200	6.06	

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 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  
 BRUCE BAKER  
 112 W. TAYLOR  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 05/20/2013  
 Reported: 05/23/2013  
 Project Name: SKELLY UNIT #2 AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/20/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BTTM CENTER @ 4' (H301205-05)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.152</b>	0.100	05/23/2013	ND	2.29	114	2.00	2.88		
<b>Toluene*</b>	<b>3.43</b>	0.100	05/23/2013	ND	2.08	104	2.00	1.96		
<b>Ethylbenzene*</b>	<b>10.3</b>	0.100	05/23/2013	ND	2.32	116	2.00	2.27		
<b>Total Xylenes*</b>	<b>26.6</b>	0.300	05/23/2013	ND	6.70	112	6.00	2.65		
<b>Total BTEX</b>	<b>40.5</b>	0.600	05/23/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 230 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>17200</b>	16.0	05/22/2013	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>778</b>	100	05/22/2013	ND	206	103	200	4.75		
<b>DRO &gt;C10-C28</b>	<b>15200</b>	100	05/22/2013	ND	200	100	200	6.06		

Surrogate: 1-Chlorooctane 177 % 65.2-140

Surrogate: 1-Chlorooctadecane 480 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

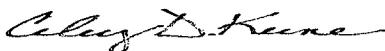
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

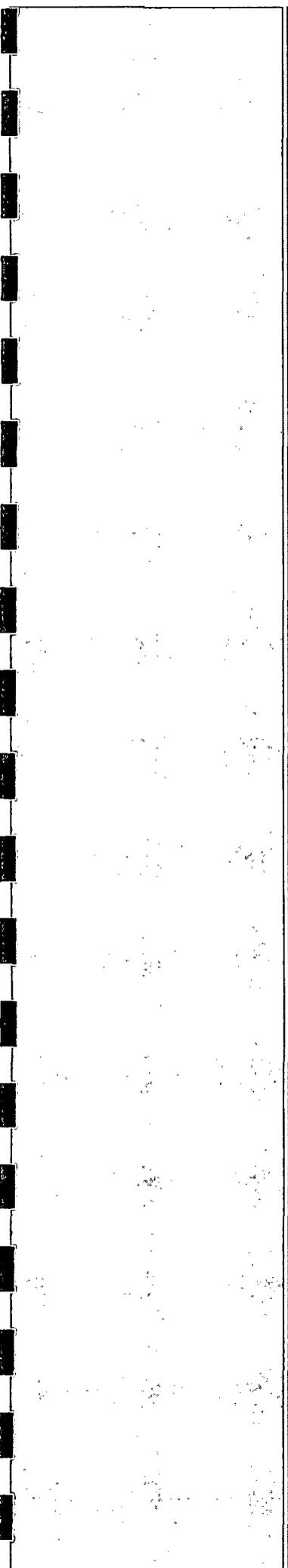
101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: <i>pecs</i>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																							
Project Manager: <i>Bruce Baker</i>				P.O. #:																											
Address:				Company:																											
City:		State:		Zip:		Attn:																									
Phone #:		Fax #:		Address:																											
Project #:		Project Owner:		City:																											
Project Name: <i>Skelly Unit #2</i>				State:																Zip:											
Project Location:				Phone #:																											
Sampler Name: <i>Dak Harris</i>				Fax #:																											
FOR LAB USE ONLY																															
Lab I.D.		Sample I.D.		# CONTAINERS		MATRIX														PRESERV.		SAMPLING									
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
<i>H301709</i>																															
<i>1 North Wall Center</i>				<i>G 1</i>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>5/20/13</i>	<i>11:57</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
<i>2 East Wall Center</i>				<i>G 1</i>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>5/20/13</i>	<i>11:54</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
<i>3 South Wall Center</i>				<i>G 1</i>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>5/20/13</i>	<i>12:00</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
<i>4 West Wall Center</i>				<i>G 1</i>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>5/20/13</i>	<i>11:52</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
<i>5 BHM Center e 4'</i>				<i>G 1</i>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>5/20/13</i>	<i>11:50</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														

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Relinquished By: <i>Dak Harris</i>		Date: <i>5/20/13</i>		Received By: <i>Jodi Benson</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <i>5:00</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: <i>h.candere@rice-ecs.com</i> <i>b.baker@rice-ecs.com</i> <i>L.weinheimer@rice-ecs.com</i>			
		Time:							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>[Signature]</i>			

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



# Appendix C

## Vertical Laboratory Analyses

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

June 06, 2013

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: LINN ENERGY SKELLY UNIT #2

Enclosed are the results of analyses for samples received by the laboratory on 06/05/13 13:45.

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](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  
 BRUCE BAKER  
 112 W. TAYLOR  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	06/05/2013	Sampling Date:	06/04/2013
Reported:	06/06/2013	Sampling Type:	Soil
Project Name:	LINN ENERGY SKELLY UNIT #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: VERTICAL @ 7' (H301311-01)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.615</b>	0.500	06/06/2013	ND	2.20	110	2.00	3.07		
<b>Toluene*</b>	<b>15.3</b>	0.500	06/06/2013	ND	1.99	99.4	2.00	2.98		
<b>Ethylbenzene*</b>	<b>22.2</b>	0.500	06/06/2013	ND	2.16	108	2.00	3.42		
<b>Total Xylenes*</b>	<b>57.9</b>	1.50	06/06/2013	ND	6.24	104	6.00	3.27		
<b>Total BTEX</b>	<b>96.0</b>	3.00	06/06/2013	ND						

Surrogate: 4-Bromofluorobenzene (PI) 178 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>5760</b>	16.0	06/06/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>1860</b>	100	06/06/2013	ND	212	106	200	3.07		
<b>DRO &gt;C10-C28</b>	<b>16700</b>	100	06/06/2013	ND	222	111	200	3.64		

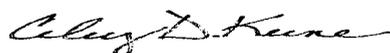
Surrogate: 1-Chlorooctane 274 % 65.2-140

Surrogate: 1-Chlorooctadecane 438 % 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  
 BRUCE BAKER  
 112 W. TAYLOR  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	06/05/2013	Sampling Date:	06/04/2013
Reported:	06/06/2013	Sampling Type:	Soil
Project Name:	LINN ENERGY SKELLY UNIT #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: VERTICAL @ 17' (H301311-02)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2013	ND	2.20	110	2.00	3.07		
<b>Toluene*</b>	<b>0.160</b>	0.050	06/06/2013	ND	1.99	99.4	2.00	2.98		
<b>Ethylbenzene*</b>	<b>0.505</b>	0.050	06/06/2013	ND	2.16	108	2.00	3.42		
<b>Total Xylenes*</b>	<b>1.68</b>	0.150	06/06/2013	ND	6.24	104	6.00	3.27		
<b>Total BTEX</b>	<b>2.34</b>	0.300	06/06/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 173 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>7440</b>	16.0	06/06/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>72.5</b>	50.0	06/06/2013	ND	212	106	200	3.07		
<b>DRO &gt;C10-C28</b>	<b>2040</b>	50.0	06/06/2013	ND	222	111	200	3.64		

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 137 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

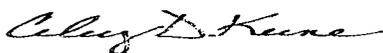
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED 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**

101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

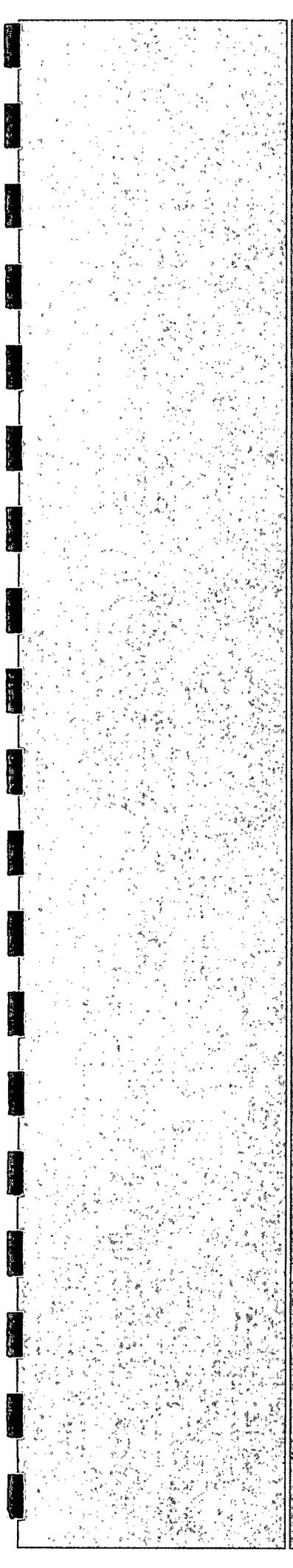
Company Name: <u>Linn Energy</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																				
Project Manager: <u>Bruce Baker</u>		P.O. #:																						
Address: <u>419 W. Cain</u>		Company:																						
City: <u>State: NM Zip: 88240</u>		Attn:																						
Phone #: <u>Fax #:</u>		Address:																						
Project #: <u>Project Owner:</u>		City:																						
Project Name:		State: <u>Zip:</u>																						
Project Location: <u>Linn Energy Skelly Unit #2</u>		Phone #:																						
Sampler Name: <u>KARANJA LEWIS</u>		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		BTEX TPH CI													
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL													OTHER:	DATE
H301311																								
1	Verticle @ 7'	5																					6-4-13	
2	Verticle @ 17'	5																					6-4-13	

Please Rush

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Relinquished By: <u>KARANJA LEWIS</u>	Date: <u>6-5-13</u>	Received By: <u>Jodi Henson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>1:45</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		<u>kLewis@rice-ecs.com</u> <u>bbaker@rice-ecs.com</u> <u>lweinheimer@rice-ecs.com</u>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	(Initials)		
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<u>JH</u>		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

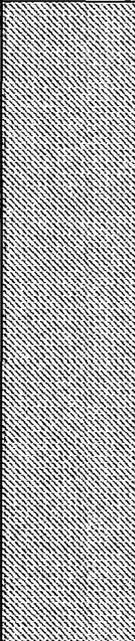
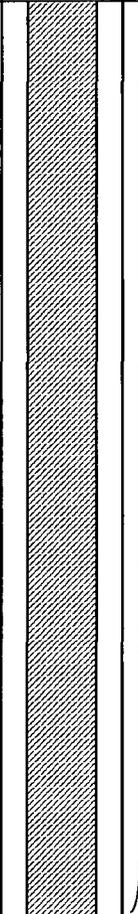


# Appendix D

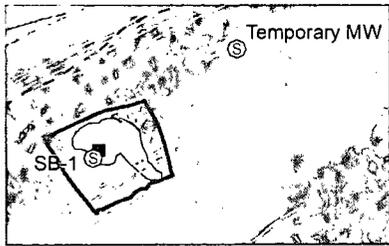
## Soil Bore Installation Documentation

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				RED SAND WITH SAND STONE		
27 ft	235		121.9			
30 ft	256		149.0			
33 ft	260		149.3			
36 ft	148		69.1	RED SAND		
39 ft	115	Cl-64	26.5			
B <0.05 T <0.05 E <0.05			GRO <10			
X <0.15 BTEX <0.3			DRO 11.3			

**Logger:** Edward Cesareo  
**Driller:** Harrison & Cooper, Inc.  
**Drilling Method:** Air Rotary  
**Start Date:** 7/24/2013  
**End Date:** 7/24/2013



**Project Name:** Linn Skelly Unit #2  
**Well ID:** Temporary MW

**Comments:** The temporary MW was located 45 ft northeast of the center of the release. All samples were from cuttings.  
**DRAFTED BY:** L. Weinheimer  
 TD = 45 ft                                      GW = None

**Location:** UL/C sec. 22 T17S R31E  
**Lat:** 32°49'33.001"N      **County:** Lea  
**Long:** 103°51'31.675"W      **State:** NM

Depth (feet)	Chloride field	LAB	PID	Description	Lithology	Well Construction
SS						
5 ft						
10 ft						
15 ft				NO SAMPLES TAKEN AS WELL WAS BEING INSTALLED		
20 ft						
25 ft						
30 ft						
35 ft						
40 ft						
45 ft				RED BED CLAY		bentonite seal

July 31, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: SKELLY UNIT #2 AD

Enclosed are the results of analyses for samples received by the laboratory on 07/25/13 11:00.

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](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,



Mike Snyder

Organic Supervisor

**Analytical Results For:**

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

 Received: 07/25/2013  
 Reported: 07/31/2013  
 Project Name: SKELLY UNIT #2 AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 07/24/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SB @ 39' (H301749-01)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2013	ND	1.80	89.9	2.00	2.74	
Toluene*	<0.050	0.050	07/29/2013	ND	1.80	89.9	2.00	2.64	
Ethylbenzene*	<0.050	0.050	07/29/2013	ND	1.91	95.6	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/29/2013	ND	5.75	95.8	6.00	1.35	
Total BTEX	<0.300	0.300	07/29/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

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>64.0</b>	16.0	07/29/2013	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	07/26/2013	ND	186	92.8	200	5.17	
<b>DRO &gt;C10-C28</b>	<b>11.3</b>	10.0	07/26/2013	ND	195	97.5	200	7.65	

Surrogate: 1-Chlorooctane 77.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.6 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

 Received: 07/25/2013  
 Reported: 07/31/2013  
 Project Name: SKELLY UNIT #2 AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 07/24/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SB @ 36' (H301749-02)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2013	ND	1.80	89.9	2.00	2.74	
Toluene*	<0.050	0.050	07/29/2013	ND	1.80	89.9	2.00	2.64	
Ethylbenzene*	<0.050	0.050	07/29/2013	ND	1.91	95.6	2.00	2.12	
Total Xylenes*	<0.150	0.150	07/29/2013	ND	5.75	95.8	6.00	1.35	
Total BTEX	<0.300	0.300	07/29/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/29/2013	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	07/26/2013	ND	186	92.8	200	5.17	
DRO >C10-C28	135	10.0	07/26/2013	ND	195	97.5	200	7.65	

Surrogate: 1-Chlorooctane 77.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.5 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

 Received: 07/25/2013  
 Reported: 07/31/2013  
 Project Name: SKELLY UNIT #2 AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 07/24/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SB @ 12' (H301749-03)**

BTEX 8021B		mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	07/30/2013	ND	1.80	89.9	2.00	2.74		
<b>Toluene*</b>	<b>13.2</b>	1.00	07/30/2013	ND	1.80	89.9	2.00	2.64		
<b>Ethylbenzene*</b>	<b>18.1</b>	1.00	07/30/2013	ND	1.91	95.6	2.00	2.12		
<b>Total Xylenes*</b>	<b>56.8</b>	3.00	07/30/2013	ND	5.75	95.8	6.00	1.35		
<b>Total BTEX</b>	<b>89.1</b>	6.00	07/30/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 128 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>4340</b>	16.0	07/29/2013	ND	416	104	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	
<b>GRO C6-C10</b>	<b>1130</b>	100	07/26/2013	ND	188	93.9	200	7.00		
<b>DRO &gt;C10-C28</b>	<b>8340</b>	100	07/26/2013	ND	195	97.4	200	9.12		

Surrogate: 1-Chlorooctane 132 % 65.2-140

Surrogate: 1-Chlorooctadecane 238 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder, Organic Supervisor

### 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.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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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Mike Snyder, Organic Supervisor

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: <b>RECS</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>														
Project Manager: <b>Jacob Kamplain</b>		P.O. #:																
Address:		Company:																
City:	State:	Zip:	Attn:															
Phone #:	Fax #:	Address:																
Project #:	Project Owner:		City:															
Project Name: <b>Linn energy</b>			State:											Zip:				
Project Location: <b>Kelly unit #2</b>			Phone #:															
Sampler Name: <b>Kyle Schnaidt</b>			Fax #:															
FOR LAB USE ONLY																		
Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV		SAMPLING		DATE	TIME	CI-	TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:						
<b>H301749</b>																		
<b>1</b>	<b>SB@ 39'</b>	<b>X</b>	<b>1</b>		<b>X</b>								<b>7-24-13</b>	<b>10:15</b>	<b>X</b>	<b>X</b>	<b>X</b>	
<b>2</b>	<b>SB@ 36'</b>	<b>X</b>	<b>1</b>		<b>X</b>								<b>7-24-13</b>	<b>10:20</b>	<b>X</b>	<b>X</b>	<b>X</b>	
<b>3</b>	<b>SB@ 12'</b>	<b>X</b>	<b>1</b>		<b>X</b>								<b>7-24-13</b>	<b>10:25</b>	<b>X</b>	<b>X</b>	<b>X</b>	

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <b>Kyle Schnaidt</b>	Date: <b>7/25/13</b>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: <i>[Signature]</i>	REMARKS: <b>hcondor@rice-ecs.com</b> <b>jkamplain@rice-ecs.com</b> <b>knorman@rice-ecs.com</b> <b>kschnaidt@rice-ecs.com</b> <b>lweidhimer@rice-ecs.com</b>	

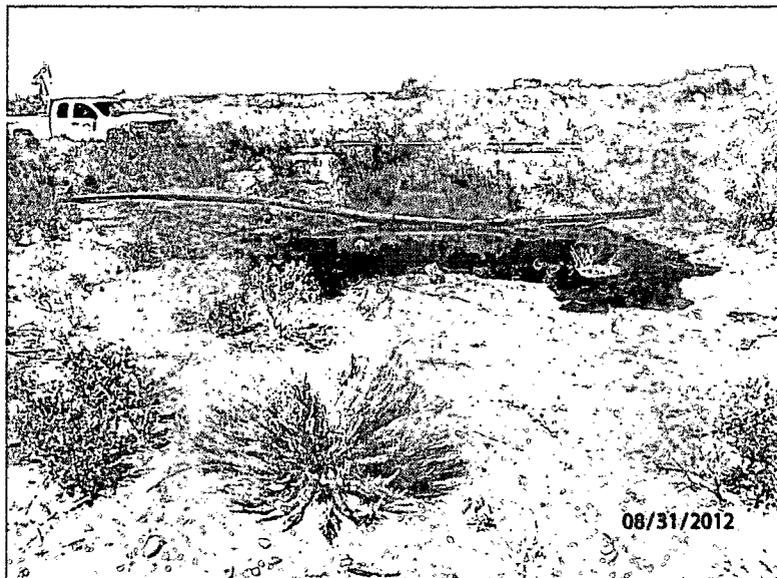
# Appendix E

Photo Documentaton

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

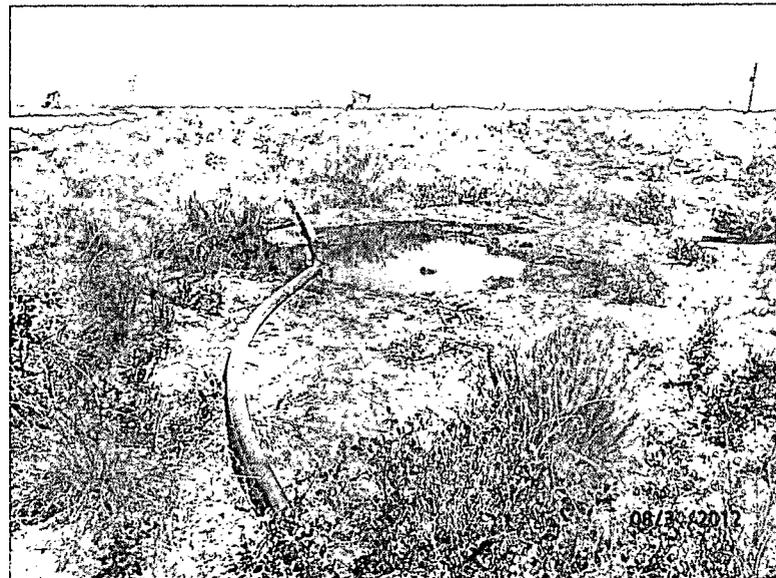
# Linn Skelly Unit #2

Unit C, Section 22, T17S, R31E



Initial release, facing east

8/31/2012



Initial release, facing south

8/31/2012



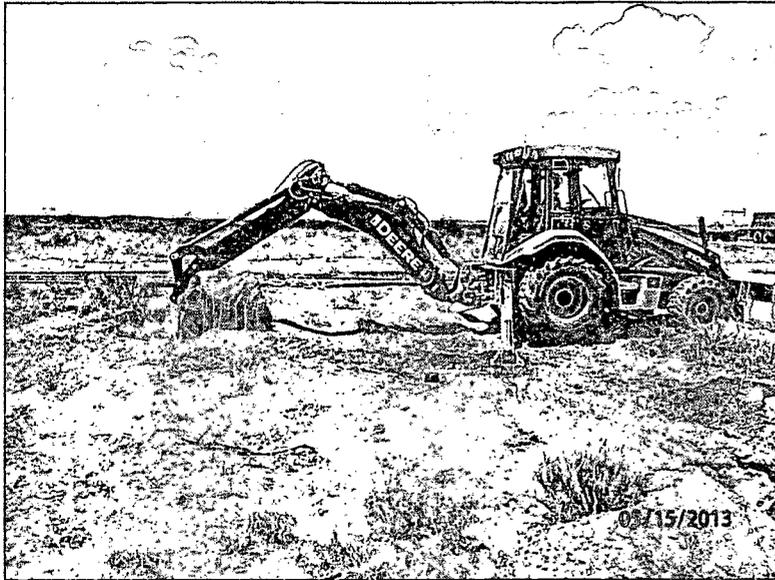
Initial release, facing west

8/31/2012



Initial release, facing north

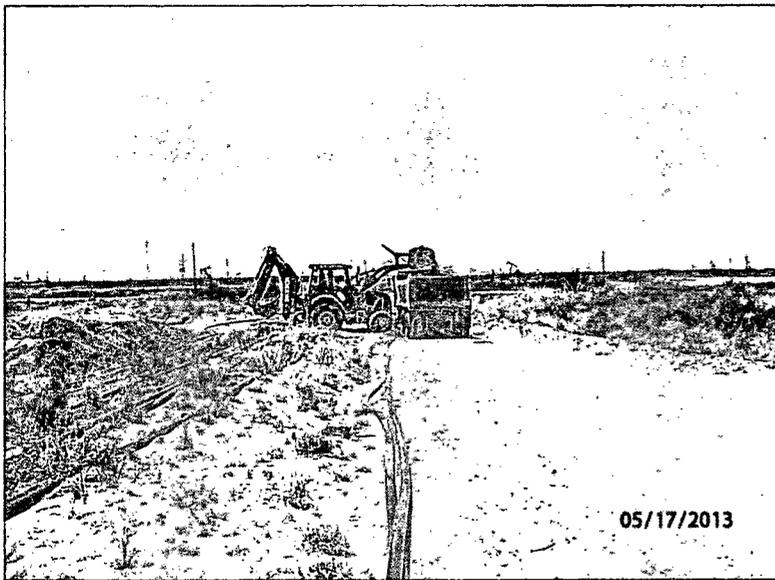
8/31/2012



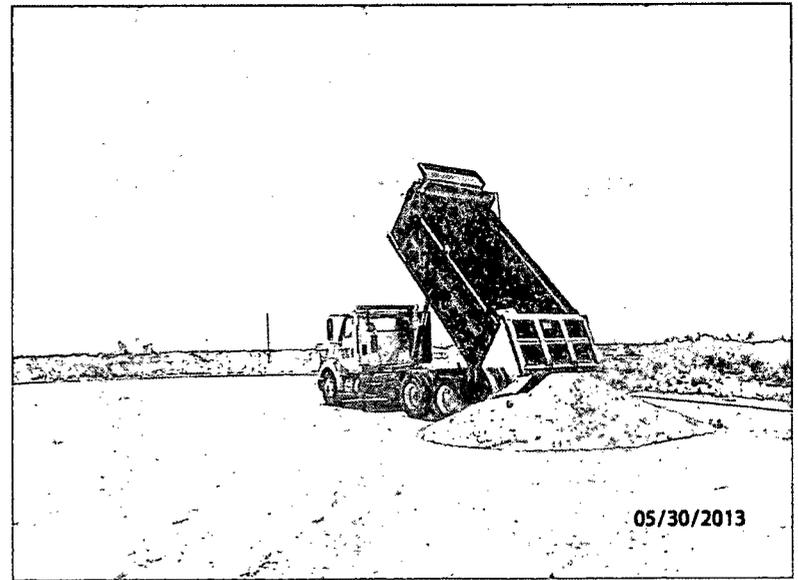
Excavating release area, facing east 5/15/13



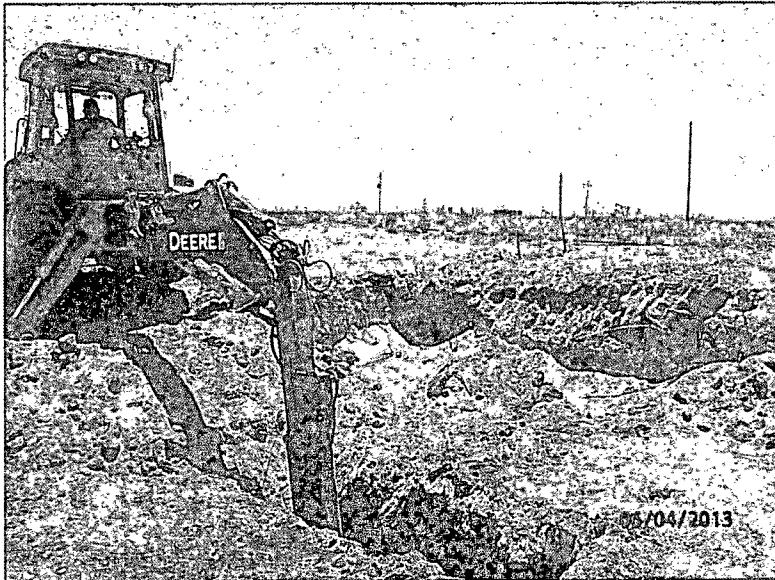
Excavating release area, facing south 5/16/13



Exporting soil, facing north 5/17/13

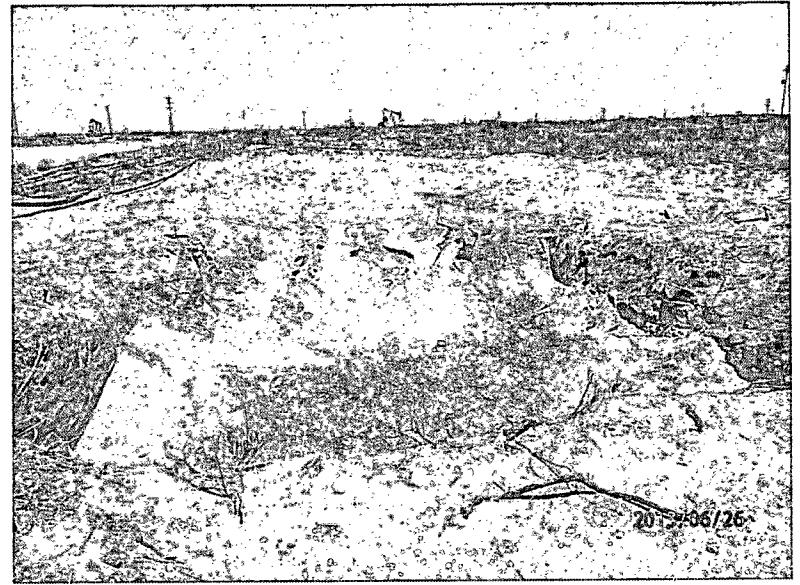


Importing soil, facing southwest 5/30/13



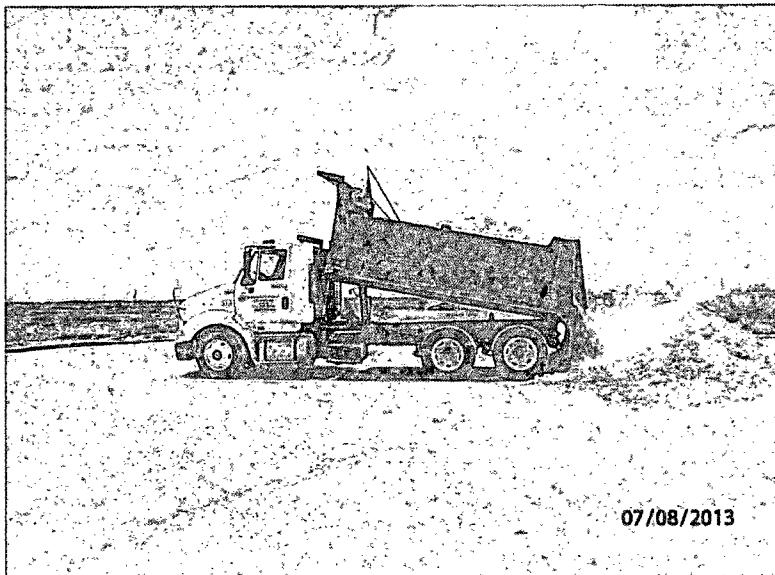
Installing vertical, facing southeast

6/4/13



Completed excavation, facing east

6/26/13



Importing caliche, facing southwest

7/8/13

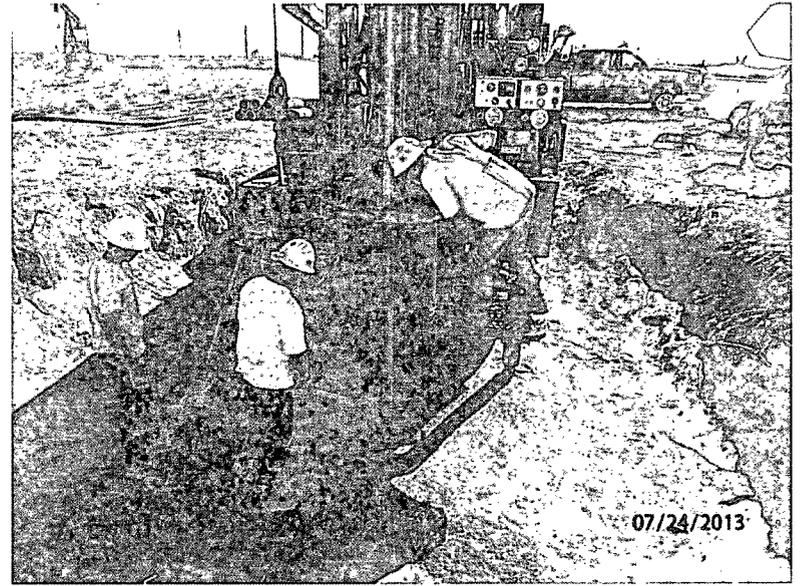


Creating road for SB installation, facing northwest 7/9/13



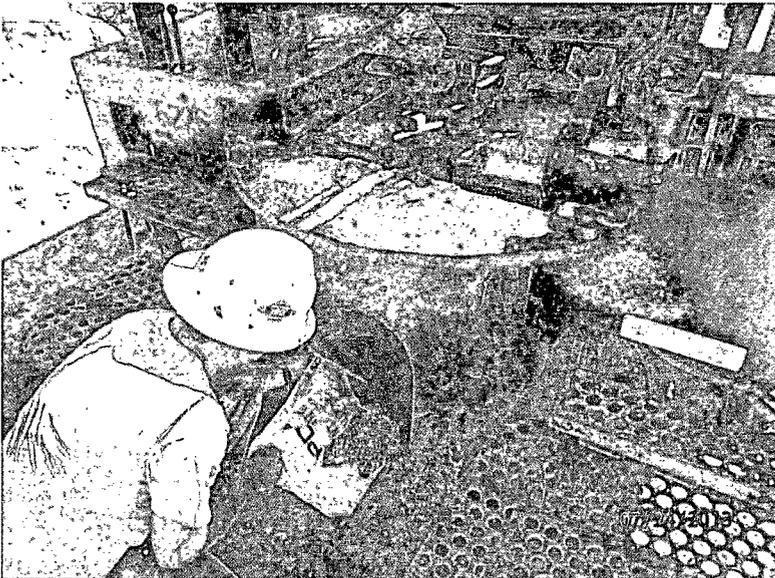
Road completed, facing northeast

7/9/13



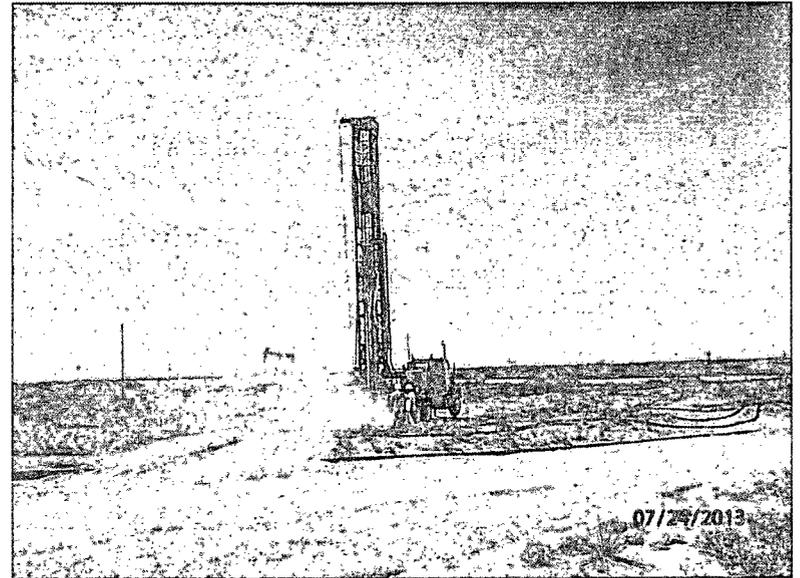
Installing SB-1, facing northeast

7/24/13



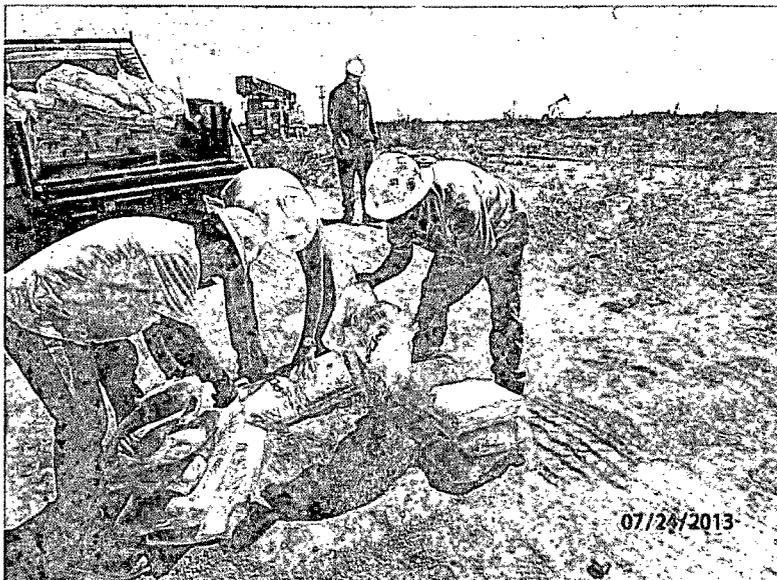
Plugging SB-1 in total with bentonite

7/24/13



Installing temporary monitor well, facing SW

7/24/13



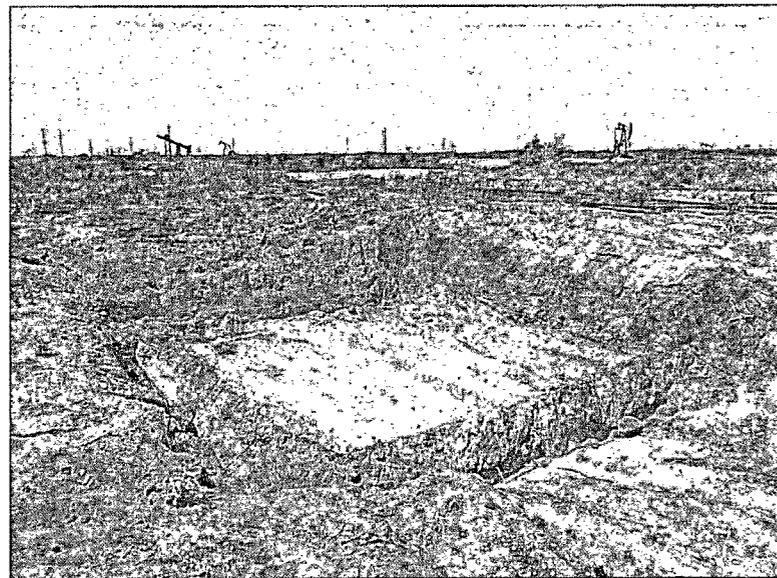
Plugging temporary monitor well in total with bentonite  
Facing northeast 7/24/13



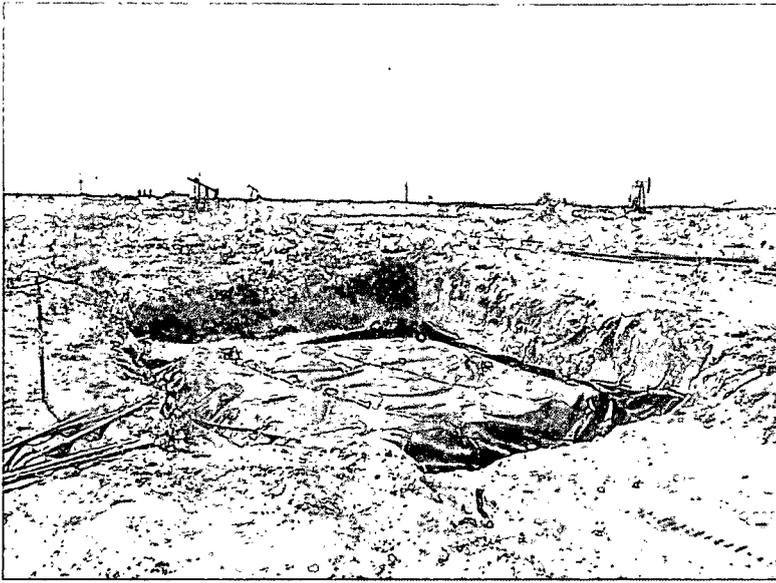
Completed temporary monitor well, facing NE 7/24/13



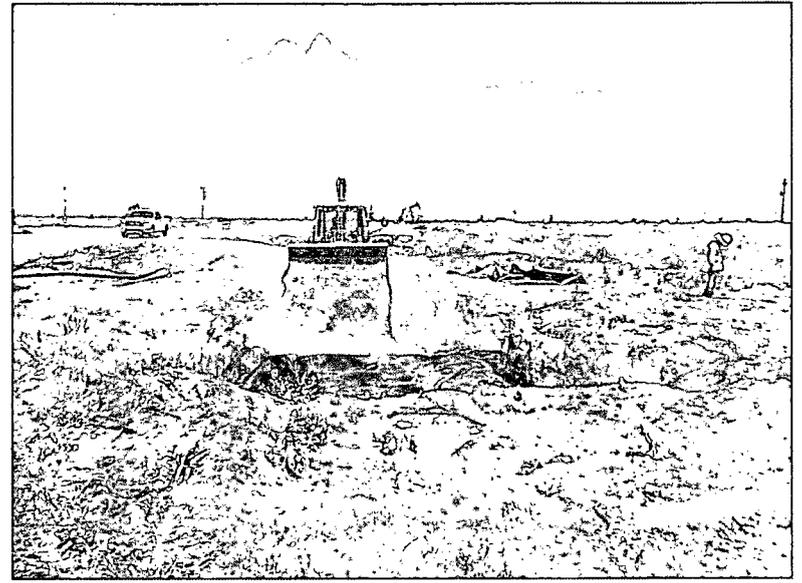
Digging trench to key set liner, facing SW 8/21/13



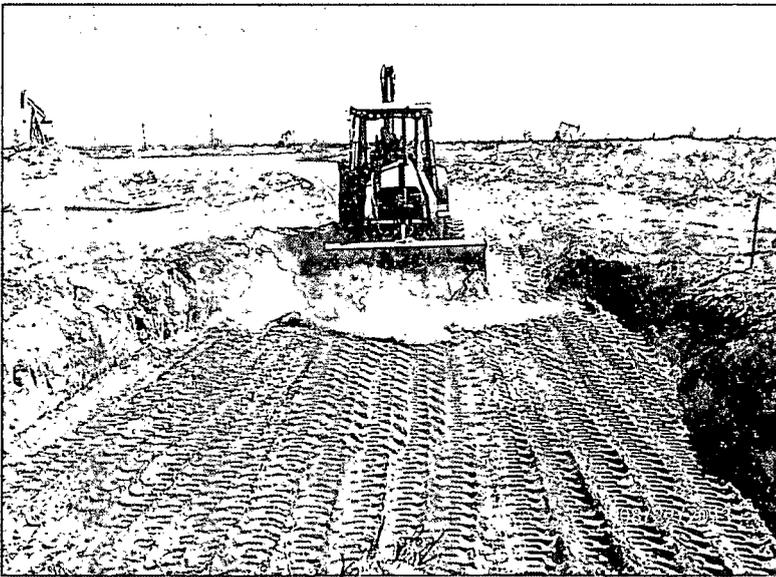
Trench completed, facing northwest 8/21/13



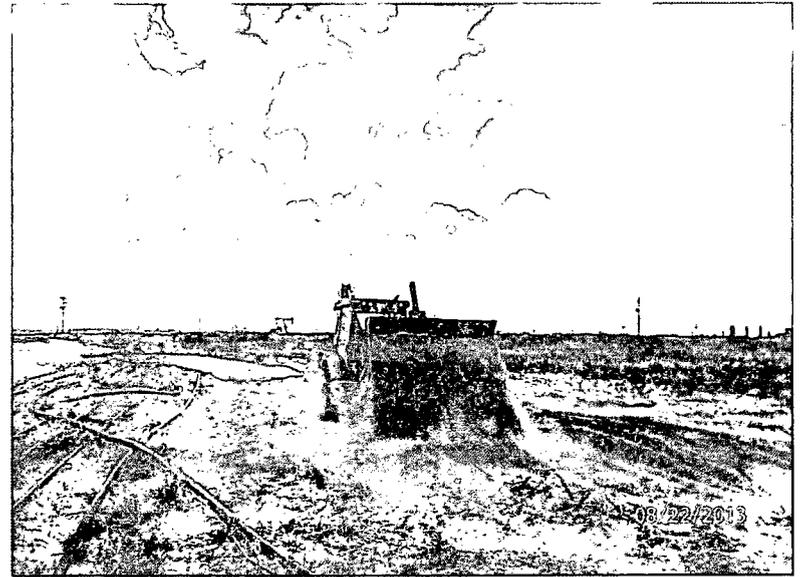
20-mil reinforced poly liner installed, facing NW  
8/21/13



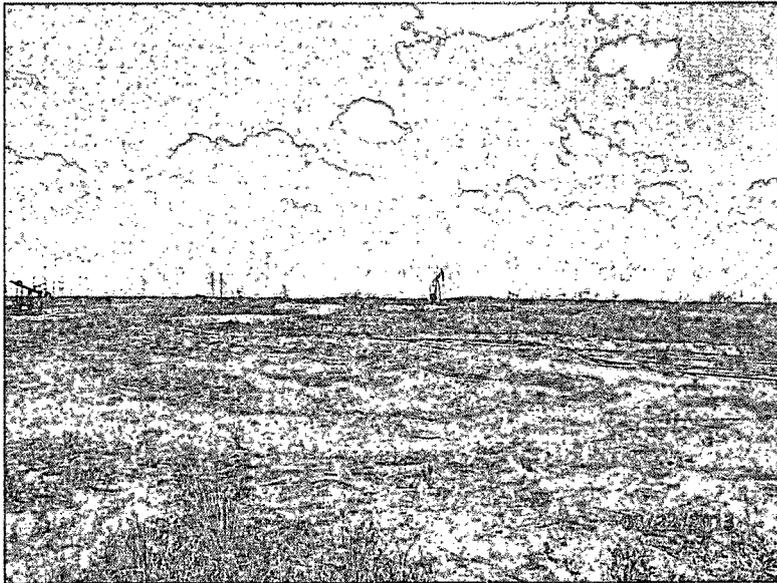
Padding above liner, facing east  
8/21/13



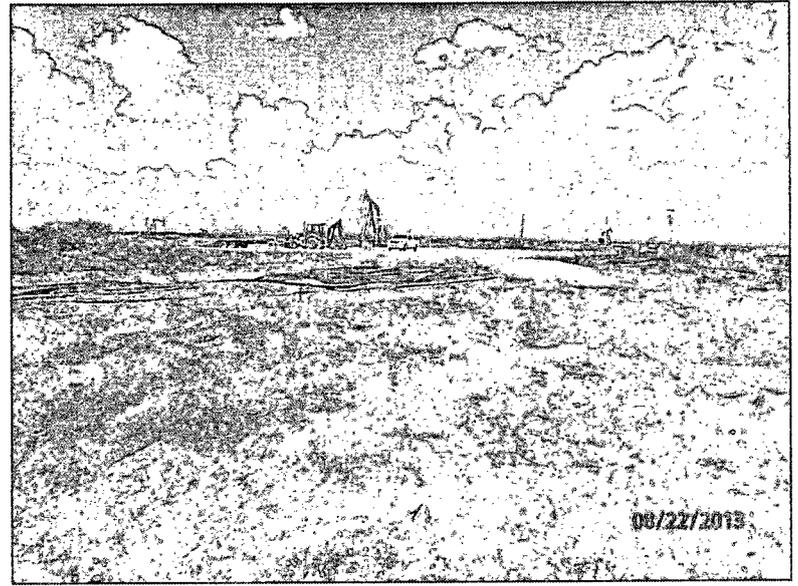
Padding over liner completed; backfilling with caliche  
facing east  
8/22/13



Backfilling with topsoil, facing northeast  
8/22/13



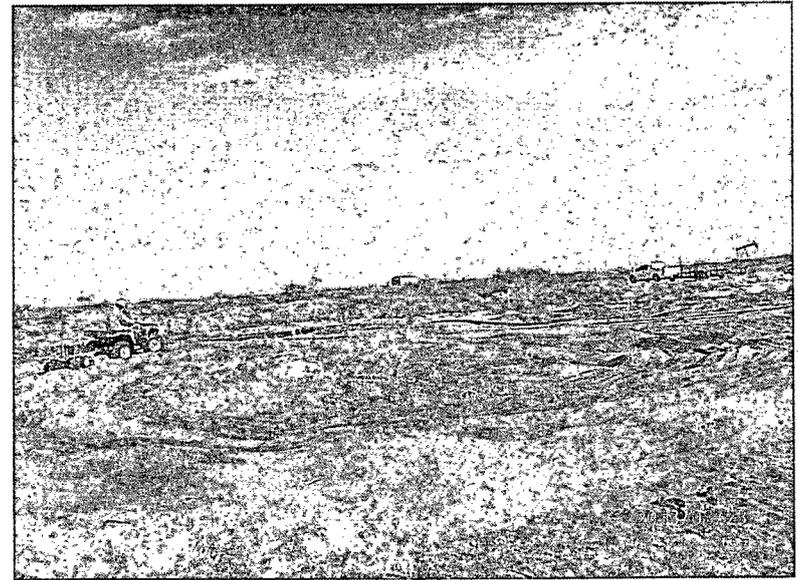
Backfilling completed, facing northwest 8/22/13



Backfilling completed, facing northeast 8/22/13



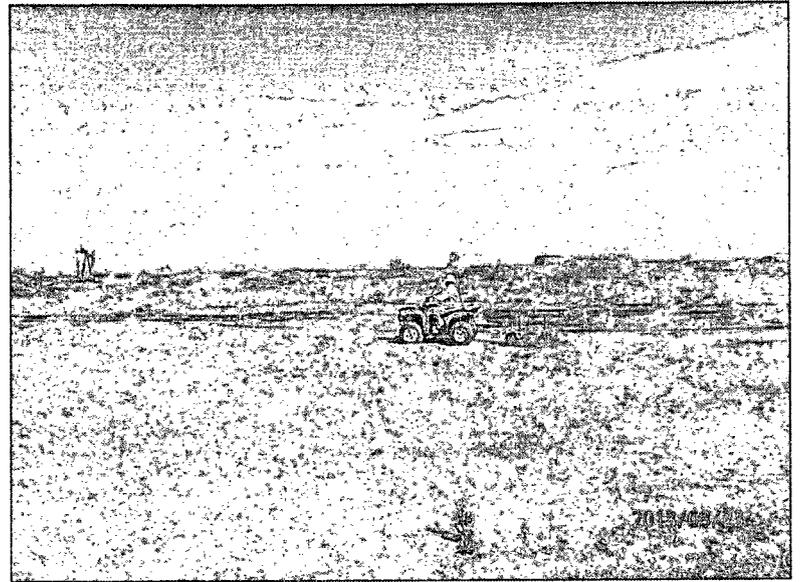
Adding soil amendments, facing northeast 8/23/13



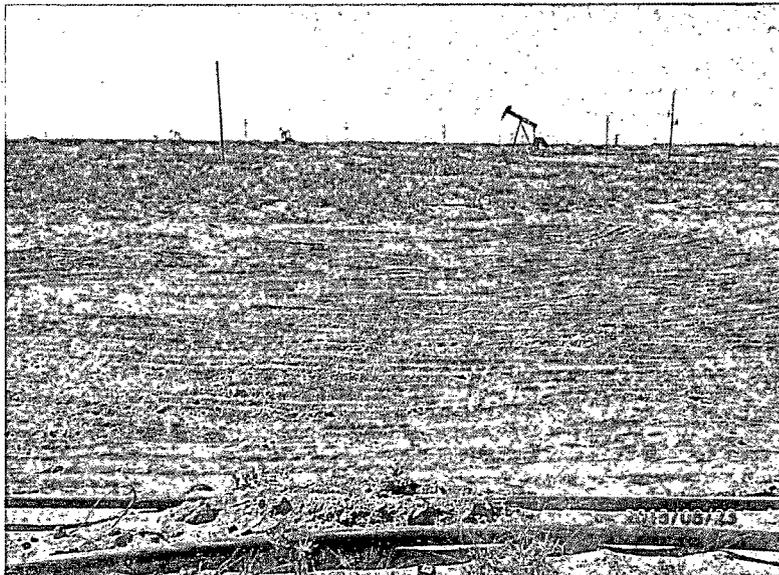
Tilling in soil amendments, facing northeast 8/23/13



Seeding site with LPC mix, facing east 8/23/13



Tilling in seed, facing northeast 8/23/13



Site completed, facing west 8/23/13



Site completed, facing northeast 8/23/13

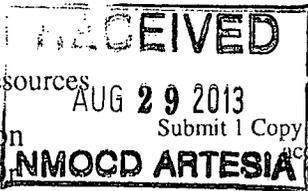
# Appendix F

Final C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

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



Form C-141  
Revised August 8, 2011

Oil Conservation Division  
1220 South St. Francis Dr., Santa Fe, NM 87505  
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 Linn Energy	Contact Brian Wall
Address 2130 W. Bender Blvd., Hobbs, NM 88240	Telephone No. (806) 367-0645
Facility Name Skelly Unit #2	Facility Type Oil

Surface Owner BLM	Mineral Owner BLM	API No. 3001505344
-------------------	-------------------	--------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	22	17S	31E	1980	FNL	660	FWL	Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release Oil/Produced Water	Volume of Release 3 bbls/2 bbls	Volume Recovered 1 bbls/1 bbls
Source of Release Poly Pipeline	Date and Hour of Occurrence 8/31/12 9:30 am	Date and Hour of Discovery 8/31/12 10:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? M. Bratcher - NMOCD Terry Gregston - BLM	
By Whom? Joe Hernandez	Date and Hour 9/4/12 7:35 am	
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.\* The 3" poly line split on the fusion weld. The fluid was picked up, a gang fixed the line and the well was turned back on.

Describe Area Affected and Cleanup Action Taken.\* The release affected 267 sq ft of the pasture area. On March 7<sup>th</sup>, 2013, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM. BLM approved the CAP on May 3<sup>rd</sup>, 2013. The site was excavated to 28 ft x 31 ft x 4 ft deep beginning on May 15<sup>th</sup>, 2013. A total of 156 yards of excavated soil was taken to a NMOCD approved facility for disposal. Confirmatory samples from the excavation walls and bottom were taken to a commercial laboratory for analysis. All the wall samples returned laboratory chloride results below 1,000 mg/kg. The bottom sample at 4 ft bgs returned a laboratory chloride result of 17,200 mg/kg, a GRO reading of 778 mg/kg, a DRO reading of 15,200 mg/kg and a Total BTEX reading of 40.5 mg/kg. This data was sent to BLM and NMOCD. BLM and NMOCD responded on June 3<sup>rd</sup>, 2013, that the bottom of the excavation needed to be further delineated. NMOCD requested that a vertical be completed at the base of the excavation. On June 4<sup>th</sup>, 2013, a vertical was installed at the base of the 4 ft bgs excavation. The vertical was installed to a depth of 17 ft bgs, and samples were taken at regular intervals as it was being advanced. The field samples were field tested for chlorides and hydrocarbons and representative samples were taken to a commercial laboratory for analysis. Based on the vertical data, a soil bore was installed through the excavation to determine the depth of contamination. Per BLM's approval on June 27<sup>th</sup>, 2013, a caliche road was installed from the well pad to the site to facilitate the soil bore installation. On July 24<sup>th</sup>, 2013, a soil bore was installed through the center of the excavation. The soil bore was advanced to a depth of 39 ft bgs and field samples were taken at regular intervals and field tested for chlorides and hydrocarbons. The 39 ft bgs sample was taken to a commercial laboratory for analysis. A temporary monitor well was installed at the site to determine whether groundwater existed in the area. The temporary monitor well was drilled to 45 ft bgs. Red bed clay was encountered at 43 ft bgs, which indicates the base of the aquifer. The bore was gauged and no groundwater was discovered in the bore. On August 21<sup>st</sup>, 2013, RECS personnel were on site to install a liner. A trench was excavated along the base of the 4 ft bgs excavation to key set the liner. A 20-mil reinforced poly liner was then installed and properly seated into the base of the excavation. 120 yards of clean topsoil and 72 yards of clean caliche were imported to the site to serve as backfill. A 2 ft layer of topsoil was placed over the liner to prevent it from punctures. A 1.5 ft layer of caliche was placed over the topsoil and then additional topsoil was used to backfill the site to the surface. On August 23<sup>rd</sup>, 2013, amendments were added to the soil and the site was seeded with LPC seed mix.

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: Brian Wall	Approved by Environmental Specialist:	
Title: Construction Foreman II	Approval Date:	Expiration Date:
E-mail Address: Bwall@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	Phone: (806) 367-0645	

\* Attach Additional Sheets If Necessary