

JUL 3 0 2013

NMOCD ARTESIA

LINN ENERGY

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

Skelly Unit 22

Closure Report

2RP-1400

API No. 30-015-05141

Release Date: November 12th, 2012

Unit Letter J, Section 14, Township 17S, Range 31E

Rice Environmental Consulting & Safety

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

CERTIFIED MAIL
RETURN RECEIPT NO. 7008 1140 0001 3072 7513

July 19th, 2013

Mr. Mike Bratcher

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

> RE: Termination Request Linn Energy – Skelly Unit 22 (2RP-1400) UL/J sec. 14 T17S R31E API No. 30-015-05141

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 November 12th, 2012, an accidental discharge of produced water and oil from a ruptured fiberglass line occurred. The well head was shut in and a vacuum truck was called to clean up the standing fluid. A total of 16 barrels of produced water and 4 barrels of oil were released from the line. A total of 3 barrels of produced water and 2 barrels of oil were recovered by vacuum truck. An initial C-141 was submitted by Linn Energy on November 13th, 2012 (Appendix A). The site is located 4.5 miles west of Maljamar in unit letter 'J', sec. 14, T17S R31E in Eddy County, New Mexico. This site is in an area of no known groundwater.

On November 16th, 2012, RECS personnel were on site to initial work on the Skelly Unit 22 Injection Line. Soil samples were taken from the surface of the release and field tested for chlorides and hydrocarbons (Figure 1).

A Corrective Action Plan was submitted to NMOCD District 2 and BLM, which recommended that the release area be excavated 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 and the site would be backfilled with clean, imported soil. The site would then be seeded with a blend of native vegetation. The Corrective Action Plan was approved on May 2nd, 2013.

The site was excavated to 4 ft bgs and the excavated soil was disposed of at a NMOCD approved facility. The walls and bottom of the excavation were field tested for chlorides

and hydrocarbons and then sent to a commercial laboratory for analysis (Figure 2). The wall samples returned low chloride, TPH and BTEX results. The bottom sample returned low TPH and BTEX results but returned a chloride value of 6,400 mg/kg (Appendix B). Due to the high chloride reading at the bottom of the excavation, NMOCD District 2 requested that a vertical be installed to determine the vertical extent of contamination.

On June 4th, 2013, a vertical was installed in the center of the release area (Figure 3). The vertical was advanced to 11.5 ft where field data evidenced chloride levels below 250 mg/kg. The bottom two samples (11 ft and 11.5 ft) were taken to a commercial laboratory for analysis. The 11 ft sample returned a chloride value of 80 mg/kg and the 11.5 ft sample returned a chloride value of 128 mg/kg. GRO and DRO readings for both samples were non-detect (Appendix C).

Based on this data, BLM gave permission to backfill the site on June 7th, 2013 and NMOCD District 2 gave permission to backfill the site on June 10th, 2013. The site was backfilled with clean, imported caliche up to 1.5 ft and the remainder of the excavation was backfilled with clean, imported top soil. The site was contoured to the surrounding location and was seeded on July 16th, 2013 using BLM mix #2.

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

Due to the removal of impacted soils as approved by the Corrective Action Plan and given the lack of groundwater at the site, RECS, on behalf of Linn Energy, submits the final C-141 (Appendix E) and respectfully requests the closure of the regulatory file for this site.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 631-6432 if you have any questions or comments.

Sincerely,

Lara Weinheimer Project Scientist

JC.W.

RECS

(575) 441-0431

cc. Mike Burton, BLM

Attachments:

Figure 1 – Initial Sampling Field Data

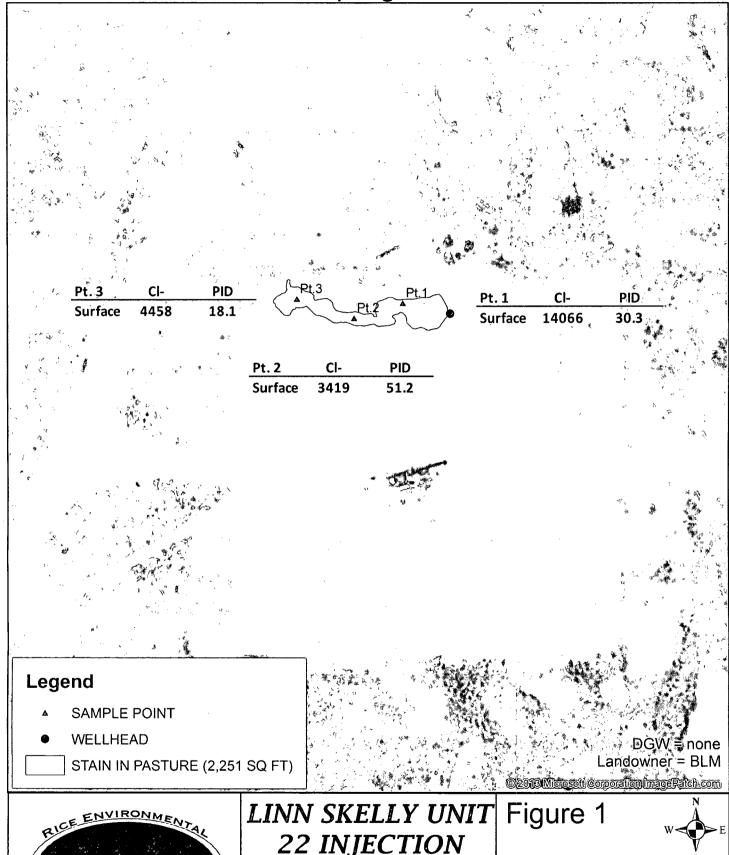
Figure 2 – Excavation Sampling Data

Figure 3 – Vertical Lab Sampling Data

Appendix A – Initial C-141
Appendix B – Excavation Sampling Laboratory Analyses
Appendix C – Vertical Sampling Laboratory Analyses
Appendix D – Photo Documentation
Appendix E – Final C-141

Figures

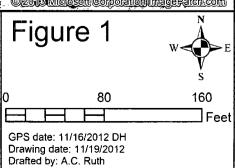
Initial Sampling Field Data





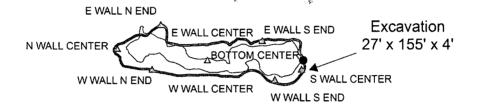
22 INJECTION LINE AD

LEGALS: UL/J SEC 14 T17S R31E **EDDY COUNTY**



Excavation Sampling Data

N Wall Center	Cl- <16	GRO <10	DRO <10	B <0.05	T <0.05	E <0.05	X <0.15	BTEX <0.3	
E Wall S End E Wall N End	48 224	<10 <10	<10 <10	<0.05 <0.05	<0.05 <0.05	<0.05 <0.05	<0.15 <0.15	<0.3 <0.3	
S Wall Center	112	<50	106	<0.05	0.05	<0.05	<0.15	<0.3	
W Wall N End W Wall S End	<16 32	<10 <10	<10 <10	<0.05 <0.05	<0.05 <0.05	<0.05 <0.05	<0.15 <0.15	<0.3 <0.3	
Bottom Center @ 4'	6400	<10	<10	<0.05	<0.05	<0 . 05	<0.15	<0.3	



Legend

- FINAL SAMPLE POINTS
- WELLHEAD

FINAL SCRAPE

STAIN IN PASTURE (2,251 SQ FT)

DGW = none Landowner = BLM

©2013 (Microsoft Corporation ImagePatch com

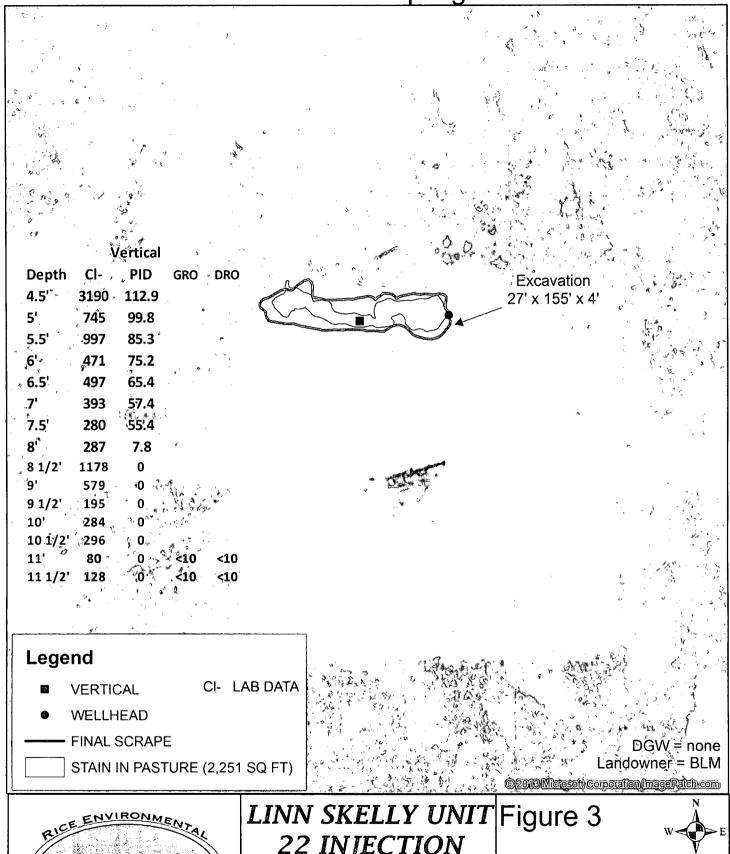


LINN SKELLY UNIT 22 INJECTION LINE AD

LEGALS: UL/J SEC 14 T17S R31E EDDY COUNTY

Figure 2 0 80 160 GPS date: 5/16/13 DH Drawing date: 5/17/13 Drafted by: L. Weinheimer

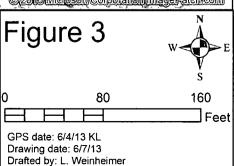
Vertical Lab Sampling Data





22 INJECTION LINE AD

LEGALS: UL/J SEC 14 T17S R31E **EDDY COUNTY**



Appendix A
Initial C-141

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

<u>District 1</u> 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. NOV 1 3 2012

RECEIVED

Form C-141 Revised October 10, 2003

NMOOD APTER Sprante District Office in Accordance with 19.15.29 NMAC

1220 S. St. Francis Dr., Santa	Fc, NM 87505	San	ta Fe	e, NM 875	05					
/	Rele	ease Notifica	tior	ı and Co	rrective A	ction				
n TM/123105	3973			OPERA?	ror		⊠ Initia	ıl Report	П	Final Report
Name of Company: Li		69324	T	Contact: Joe						
Address: 2130 W. Ber					No.: 575-738-17	39				
Facility Name: Skelly	Unit 22			Facility Typ	e: Injection					
Surface Owner: Feder	al	Mineral Ow	mer:	Federal			A PI No	.: 3001505	141	
Stillace Owner. Feder	ai				DACE.		ATTIO	5001505		
Unit Letter Section	Township Range			N OF REI	Feet from the	Enet/W	/est Line	County		
J 14	17S 31E	1980		South	1980		East	County	Edo	ly
	Latit	ude: 32.83280853	35708	4 Longitud	e: -103.8382369	069146				
		NATU	JRE	OF RELI	EASE					
Type of Release: Produc	ed Water / Oil			Volume of 4bbls	Release: 16bbls /		Volume R	Recovered: 3	bbls /	2bbls
Source of Release: Fiber	glass line			11/12/2012		e;		Hour of Dis 2 7:30am	cover	y:
Was Immediate Notice C		No Not Req	uired	If YES, To M. Bratche	Whom? er - NM OCD / To	erry Gre	gston- BLi	М		
By Whom? Gary Wink				Date and I-	lour 11/13/2012 9):15am				
Was a Watercourse Read	ched?] No		If YES, Vo	olume Impacting (he Wate	rcourse.			
If a Watercourse was Im	pacted. Describe Fully.	*:		1	····					
								•		
Describe Cause of Proble	em and Remedial Actio	n Taken.*: Checkin	g well	ls noticed flui	d at well head alo	ng side	Chevron L	oc. Skelly 6	72. H	ole in
fiberglass line. Close in	well head at main head	er. Call vaccum tru	ck.							
Describe Area Affected	and Cleanup Action Tal	cen.* : Area covered	1 150'	x 12' further	remedial action p	ending.				
				 						
I hereby certify that the i regulations all operators										
public health or the envir										
should their operations h	ave failed to adequately	investigate and rer	nediat	e contaminati	on that pose a thre	eat to gr	ound water	r, surface w	ater, h	uman health
or the environment. In a		otance of a C-141 re	port d	loes not reliev	e the operator of i	responsi	bility for c	ompliance v	vith a	ny other
federal, state, or local lav	vs and/or regulations.				OIL CON	CEDV	ATION	DIVISIO	<u> </u>	
Signature:	January -				OIL CON	OLIX V	ATION	1/	<u> </u>	
	· ·			Approved by	District Supervise	or: c:	gned By_	Mile	Br	mules.
Printed Name: Joe Herna	andez				N 4 4 004		Suca Dy_			
Title: Production Forema	an			Approval Da	<u>2</u> V 1 4 2012		Expiration	Date:		
E-mail Address: jhernan	dez@linnenergv.com			Conditions o	f Approval:			Attached	П	
Date: 11/13/2012	Phone: 575	-942-9492	\neg		Interior services					

* Attach Additional Sheets If Necessary

Remediation per OCD Rules & **Guidelines. SUBMIT REMEDIATION**

2RP-1400

Appendix B
Excavation Sampling Laboratory Analyses

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



May 24, 2013

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: SKELLY UNIT INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 05/17/13 8:50.

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 accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keene

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



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

05/17/2013

Sampling Date:

05/16/2013

Reported:

05/24/2013

Sampling Type:

Soil

Project Name:

SKELLY UNIT INJECTION LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SOUTH WALL CENTER (H301184-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2013	ND	2.28	114	2.00	3.54	
Toluene*	0.050	0.050	05/22/2013	ND	2.05	103	2.00	3.17	
Ethylbenzene*	< 0.050	0.050	05/22/2013	ND	2.22	111	2.00	2.97	
Total Xylenes*	<0.150	0.150	05/22/2013	ND	6.42	107	6.00	2.81	
Total BTEX	<0.300	0.300	05/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	119 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/22/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	05/17/2013	ND	212	106	200	0.0761	
DRO >C10-C28	106	50.0	05/17/2013	ND	210	105	200	1.98	
Surrogate: 1-Chlorooctane	109 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	125 9	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

05/17/2013

Sampling Date:

05/16/2013

Reported:

05/24/2013

Sampling Type:

Soil

Project Name:

SKELLY UNIT INJECTION LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: W WALL N END CENTER (H301184-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2013	ND	2.28	114	2.00	3.54	
Toluene*	<0.050	0.050	05/22/2013	ND	2.05	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	05/22/2013	ND	2.22	111	2.00	2.97	
Total Xylenes*	<0.150	0.150	05/22/2013	ND	6.42	107	6.00	2.81	
Total BTEX	<0.300	0.300	05/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW				•	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/22/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD .	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2013	ND	212	106	200	0.0761	
DRO >C10-C28	<10.0	10.0	05/17/2013	ND	210	105	200	1.98	
Surrogate: 1-Chlorooctane	109 5	% 65.2-14	0					· · · · · · · · · · · · · · · · · · ·	
Surrogate: 1-Chlorooctadecane	120 5	% 63.6-15	4						

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Celey D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY **BRUCE BAKER** 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Applymod Byg AD

Received:

05/17/2013

Sampling Date:

05/16/2013

Reported:

Sampling Type:

Soil

DTEV 00310

05/24/2013

Sampling Condition:

Cool & Intact

Project Name: Project Number: SKELLY UNIT INJECTION LINE NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: W WALL S END CENTER (H301184-03)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2013	ND	2.28	114	2.00	3.54	
Toluene*	<0.050	0.050	05/22/2013	ND	2.05	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	05/22/2013	ND	2.22	111	2.00	2.97	
Total Xylenes*	<0.150	0.150	05/22/2013	ND	6.42	107	6.00	2.81	
Total BTEX	<0.300	0.300	05/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	1169	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/22/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2013	ND	212	106	200	0.0761	
DRO >C10-C28	<10.0	10.0	05/17/2013	ND	210	105	200	1.98	
Surrogate: 1-Chlorooctane	105	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 9	% 63.6-15	4						

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*=Accredited Analyte

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Celeg D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

05/17/2013

Sampling Date:

05/16/2013

Reported:

05/24/2013

Sampling Type:

Soil

Project Name:

SKELLY UNIT INJECTION LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: E WALL N END CENTER (H301184-04)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2013	ND	2.28	114	2.00	3.54	
Toluene*	<0.050	0.050	05/22/2013	ND	2.05	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	05/22/2013	ND	2.22	111	2.00	2.97	
Total Xylenes*	<0.150	0.150	05/22/2013	ND	6.42	107	6.00	2.81	
Total BTEX	<0.300	0.300	05/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1169	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/22/2013	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2013	ND	212	106	200	0.0761	
DRO >C10-C28	<10.0	10.0	05/17/2013	ND	210	105	200	1.98	
Surrogate: 1-Chlorooctane	102 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	% 63.6-15	4						

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Celey D. Kune



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

05/17/2013

Sampling Date:

05/16/2013

Reported:

05/24/2013

Sampling Type:

Soil

Project Name:

SKELLY UNIT INJECTION LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: E WALL S END CENTER (H301184-05)

BTEX 8021B	mg/	kg	Analyze	d By: AP	***				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/24/2013	ND	2.28	114	2.00	3.54	
Toluene*	< 0.050	0.050	05/24/2013	ND	2.05	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	05/24/2013	ND	2.22	111	2.00	2.97	
Total Xylenes*	<0.150	0.150	05/24/2013	ND	6.42	107	6.00	2.81	
Total BTEX	<0.300	0.300	05/24/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1149	% 89.4-12	6			•			
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2013	ND	212	106	200	0.0761	
DRO >C10-C28	<10.0	10.0	05/17/2013	ND	210	105	200	1.98	
Surrogate: 1-Chlorooctane	109 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	105 9	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based unon any of the above stated reasons or otherwise. Regular labels only in the samples identified above. The reconstruction in this way to be constructed and the contraction of the samples in th

Celeg D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

05/17/2013

Sampling Date:

05/16/2013

Reported:

05/24/2013

Sampling Type:

Soil

Project Name:

SKELLY UNIT INJECTION LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: N WALL CENTER (H301184-06)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/24/2013	ND	2.28	114	2.00	3.54	
Toluene*	<0.050	0.050	05/24/2013	ND	2.05	103	2.00	3.17	
Ethylbenzene*	< 0.050	0.050	05/24/2013	ND	2.22	111	2.00	2.97	
Total Xylenes*	<0.150	0.150	05/24/2013	ND	6.42	107	6.00	2.81	
Total BTEX	<0.300	0.300	05/24/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/22/2013	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2013	ND	212	106	200	0.0761	
DRO >C10-C28	<10.0	10.0	05/17/2013	ND	210	105	200	1.98	
Surrogate: 1-Chlorooctane	109 9	% 65.2-14	0	-					
Surrogate: 1-Chlorooctadecane	120 9	% 63.6-15	4						

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Celey D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

05/17/2013

Sampling Date:

05/16/2013

Reported:

05/24/2013

Sampling Type:

Soil

Project Name:

SKELLY UNIT INJECTION LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: BOTTOM CENTER @ 4' (H301184-07)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2013	ND	2.28	114	2.00	3.54	
Toluene*	<0.050	0.050	05/22/2013	ND	2.05	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	05/22/2013	ND	2.22	111	2.00	2.97	
Total Xylenes*	<0.150	0.150	05/22/2013	ND	6.42	107	6.00	2.81	
Total BTEX	<0.300	0.300	05/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	118 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	05/22/2013	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2013	ND	212	106	200	0.0761	
DRO >C10-C28	<10.0	10.0	05/17/2013	ND	210	105	200	1.98	
Surrogate: 1-Chlorooctane	95.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.4	% 63.6-15	4						

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Celeg D. Keene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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. Keine



104/

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Nam	e: RECS									8	LL TO						ANA	LYSIS	SRE	QUE	ST			
Project Manage	er: Bruce Baker							P.C	O. #:						Π									
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2	west wall north end center	6	1		1				V	-	5/16/13	10:05	1	1	1									
3	west wall south end center	6	1		1				V		5/16/13	10:10	. 1	1	1		·							
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ઙ	east wall south end center	6	1		✓				V	1	5/16/13	10:20	1	1	1									
وا	north wall center	6	1		√				V	1	5/16/13	10:25	✓	1	1		<u> </u>]		
7	bottom center @4'	6	1		✓		Ш		V	1	5/16/13	10:30	\	1	1									
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analyses, All claims includ	and Damages. Cardinafe Sability and elents exclusive remeety for ling those for negligence and any other course whetboever shall be Sardinal be ling by fundatental or consequental damages, includin lang out of or religied to the performance of services hereunder by the lang out of or religied to the performance of services hereunder by the services hereunder by the services and the services hereunder by the services here and the services hereunder by the services here	deeme	d waiv	ed uni	less made i	in writin	ng and	recei	ved by C	ardinal	within 30 days aft	er completion of the client, its subsidia asons or otherwise	ha applica uries so.											
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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: SKELLY UNIT INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 06/06/13 10:43.

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/ga/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keens

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



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

06/06/2013

Sampling Date:

06/05/2013

Reported:

06/06/2013

Sampling Type:

Soil

Project Name:

SKELLY UNIT INJECTION LINE

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

NOT GIVEN

Sample ID: VERTICAL @ 11' (H301317-01)

Chloride, SM4500CI-B

ma/k

Analyzed By: DW

	9	,9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/06/2013	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte .	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/06/2013	ND	214	107	200	5.56	
DRO >C10-C28	<10.0	10.0	06/06/2013	ND	220	110	200	4.61	

Surrogate: 1-Chlorooctane

101%

65.2-140

Surrogate: 1-Chlorooctadecane

105 %

105 %

63.6-154

63.6-154

Sample ID: VERTICAL @ 11 1/2' (H301317-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/06/2013	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/06/2013	ND	214	107	200	5.56	
DRO >C10-C28	<10.0	10.0	06/06/2013	ND	220	110	200	4.61	
Surrogate: 1-Chlorooctane	103	% 65.2-14	0						•

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey & Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

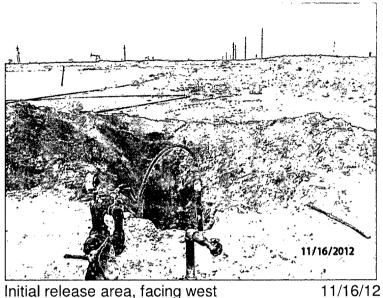
101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: RECS									#BILL TO					ANALYSIS REQUEST												
Project Manager: Bruce Buker									P.O. #:								T				1					
Address:								c	Company:					_												
City: State: Zip:								_ A	Attn:					_	ļ				1		1					
Phone #: Fax #:									Address:												*					
Project #: Project Owner:									City:																	
Project Name:								s	State: Zip:					_												
Project Location: LINN Energy Skelly Injection Line							Р	Phone #:					_[}			1								
Sampler Name: Kavanja Lewis							F.	Fax #:																		
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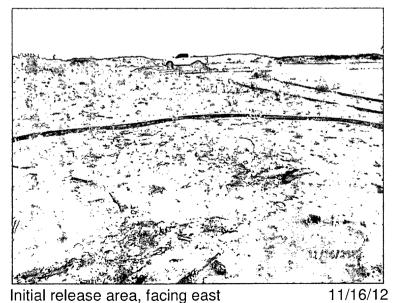
Appendix D
Photo Documentation

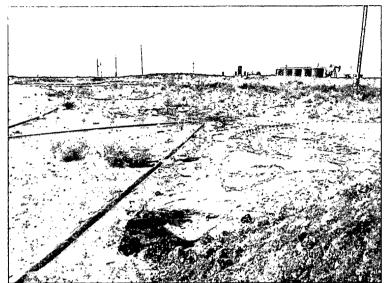
RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

Linn Skelly Unit 22 Injection Line AD Unit Letter J, Section 14, T17S, R31E



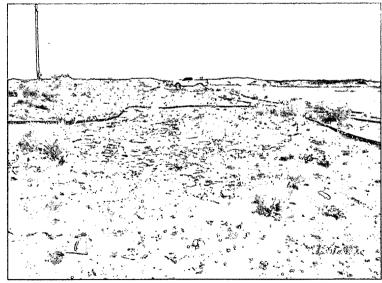
Initial release area, facing west





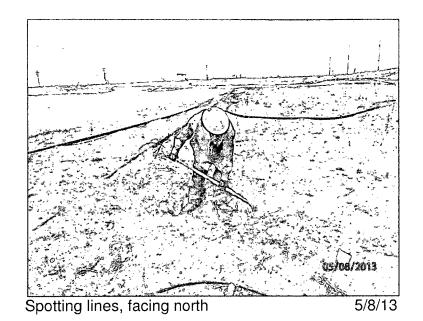
Initial release area, facing west

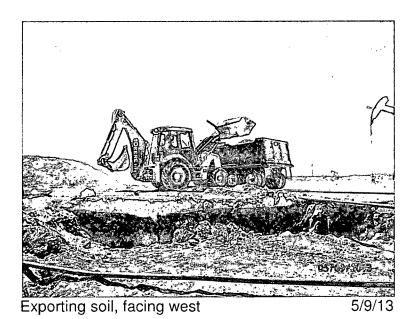
11/16/12

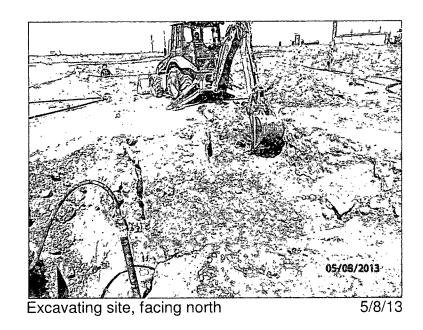


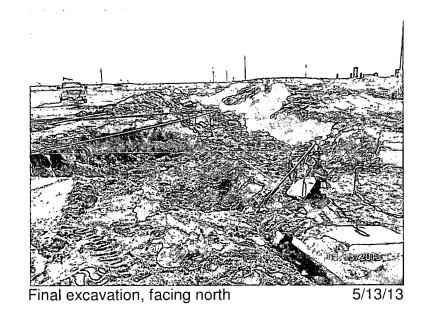
Initial release area, facing east

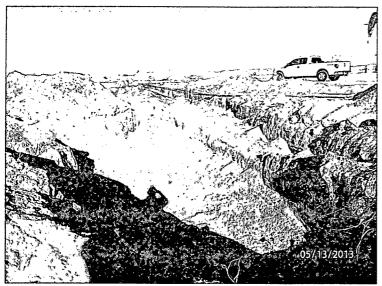
11/16/12

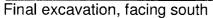




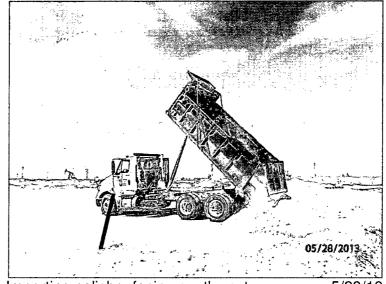






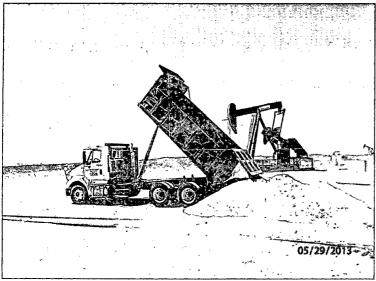


5/13/13



Importing caliche, facing southwest

5/28/13



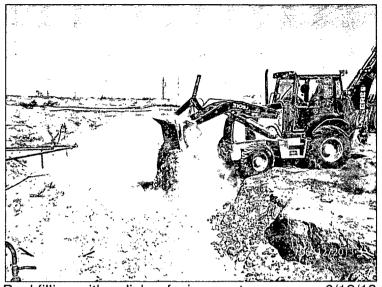
Importing sand, facing southwest

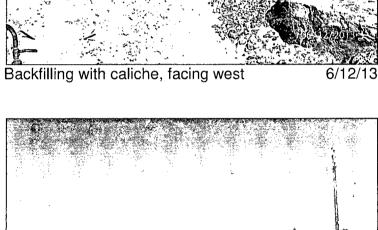
5/29/13



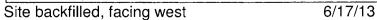
Vertical delineation, facing north

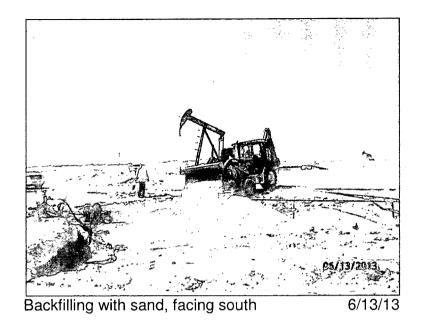
6/5/13

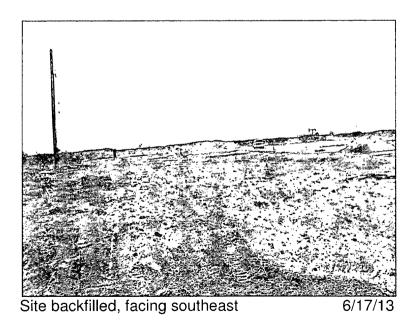






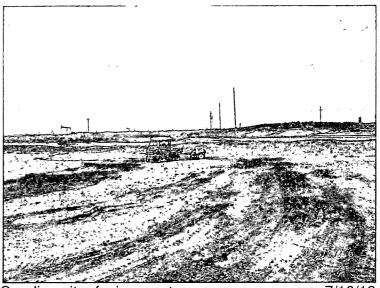








Seeding site, facing northwest



Seeding site, facing west 7/16/13

Appendix E Final C-141

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 RECEIVED

Form C-141 Revised August 8, 2011

JUI_{Submit} 12013 accordance with 19.15.29 NMAC.

Attached

NMOCD ARTESIA

Release Notification and Corrective Action OPERATOR Initial Report Final Report Contact Gary Wink Linn Operating Name of Company Address 2130 W. Bender Blvd. Hobbs, NM 88240 Telephone No. (575) 738-1739 Facility Name Skelly Unit 22 Facility Type Injection Mineral Owner Federal 3001505141 Surface Owner Federal API No. LOCATION OF RELEASE Feet from the North/South Line Feet from the East/West Line Unit Letter Section Township Range County 31E 1980 **FSL** 1980 14 17S **FEL** Eddy Latitude 32.832808535 **Longitude** -103.8382369 NATURE OF RELEASE Volume of Release 16 bbls/4 bbls Type of Release Produced water/Oil Volume Recovered 3 bbls/2 bbls Source of Release Fiberglass line Date and Hour of Occurrence Date and Hour of Discovery 11/12/12 11/12/12 7am 7:30 am If YES, To Whom? Was Immediate Notice Given? Mike Bratcher - NMOCD; T. Gregston - BLM Date and Hour 11/13/12 9:15 am By Whom? Gary Wink Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Checking wells noticed fluid at well head alongside Chevron Loc. Skelly 672. Hole in fiberglass line. Closed in the well head at the main header and call for a vacuum truck. Describe Area Affected and Cleanup Action Taken.* A total of 2,251 sq ft of pasture was affected by the release. On November 16th, 2012, RECS personnel were on site to initial work on the Skelly Unit 22 Injection Line. Soil samples were taken from the surface of the release and field tested for chlorides and hydrocarbons. A Corrective Action Plan was submitted to NMOCD District 2 and BLM, which was approved on May 2nd, 2013. The site was excavated to 4 ft bgs and the excavated soil was disposed of at a NMOCD approved facility. The walls and bottom of the excavation were field tested for chlorides and hydrocarbons and then sent to a commercial laboratory for analysis. Due to the high chloride reading at the bottom of the excavation, NMOCD District 2 requested that a vertical be completed to determine the vertical extent of contamination. On June 4th, 2013, a vertical was installed in the center of the release area. The vertical was advanced to 11.5 ft where field data evidenced chloride levels below 250 mg/kg. The bottom two samples (11 ft and 11.5 ft) were taken to a commercial laboratory for analysis. Based on this data, BLM gave permission to backfill the site on June 7th, 2013 and NMOCD District 2 gave permission to backfill the site on June 10th, 2013. The site was backfilled with clean, imported caliche up to 1.5 ft and the remainder of the excavation was backfilled with clean, imported top soil. The site was contoured to the surrounding location and was seeded on July 16th, 2013 using BLM mix #2. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. **OIL CONSERVATION DIVISION** Approved by Environmental Specialist: Printed Name: Gary Wink Title: Production Foreman Approval Date: **Expiration Date:** E-mail Address: gawink@linnenergy.com Conditions of Approval:

Phone: (575) 738-1739

^{*} Attach Additional Sheets If Necessary