

## **LINN ENERGY**

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

# Fren Oil #23 (2RP-1727)

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## Termination Request

API No. 3001528822

Release Date: May 16<sup>th</sup>, 2013

Unit Letter O, Section 19, Township 17S, Range 31E

# Rice Environmental Consulting & Safety

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

**December 18<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: Termination Request  
Linn Energy – Fren Oil #23 (2RP-1727)  
UL/O sec. 19 T17S R31E  
API No. 3001528822**

Mr. Bratcher:

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

## **Background and Previous Work**

The site is located approximately 4.5 miles east of Loco Hills, New Mexico at UL/O sec. 19 T17S R31E in Eddy County, New Mexico. This site is in an area of no known groundwater.

On May 16<sup>th</sup>, 2013, Linn noticed produced water seeping from the ground at the site. A total of 40 barrels were released. A vacuum truck was called to the site and recovered 10 barrels of produced water. NMOCD and BLM were notified of the release on July 11<sup>th</sup>, 2013, and an initial C-141 was submitted to both agencies. NMOCD approved the initial C-141 on July 16<sup>th</sup>, 2013 (Appendix A).

This release was remediated in association with 2RP-944 and 2RP-1453 (Appendix B).

The site had already been excavated when RECS arrived to address the site. On July 29<sup>th</sup>, 2013, RECS personnel met with BLM regarding the path forward for the site. BLM requested the excavation be backfilled with clean soil and place berms around the lease pad to prevent any future releases from reaching the surrounding pasture. BLM also requested the removal of the plastic from the pasture area and remediation of the non-vegetated area, measured at 6,488 sq ft. Since the release area and non-vegetated area were located in a slight depression, the release area in the pasture and the non-vegetated area needed a 6 inch caliche pad built over the entire area, followed by a 2 – 3 foot layer of topsoil to overlie the caliche, providing a seed bed and bringing the site up to the surrounding location.

On July 31<sup>st</sup>, 2013, BLM gave approval to begin backfilling the site. Top soil already on location was backfilled into the excavation on the lease pad. A composite sample of the

imported soil was taken to a commercial laboratory for analysis and returned a chloride value of 16 mg/kg (Appendix C). Berms were erected around the lease pad to prevent future releases from reaching the surrounding pasture.

On August 8<sup>th</sup>, 2013, BLM gave verbal approval to begin working on the pasture area. The pasture area was leveled, the plastic was removed and 120 yards of clean caliche were imported to the site. The area was backfilled with 6 inches of caliche and then watered and roller packed to provide a tight seal. 360 yards of clean topsoil were imported to the site and approximately a 2.5 ft layer of the topsoil was placed over the caliche. On August 21<sup>st</sup>, 2013, the pasture area was disked, soil amendments were added and the site was seeded with LPC seed mix.

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

On September 25<sup>th</sup>, 2013, RECS met with BLM and BLM stated that they wanted the periphery of the lease pad photographed to show that no other releases affect the areas around the lease pad. On November 19<sup>th</sup>, 2013, these photographs were taken and showed no other releases outside the lease pad (Appendix E).

Linn submits the final C-141 and asks for 'remediation termination' of the site or similar closure status (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,



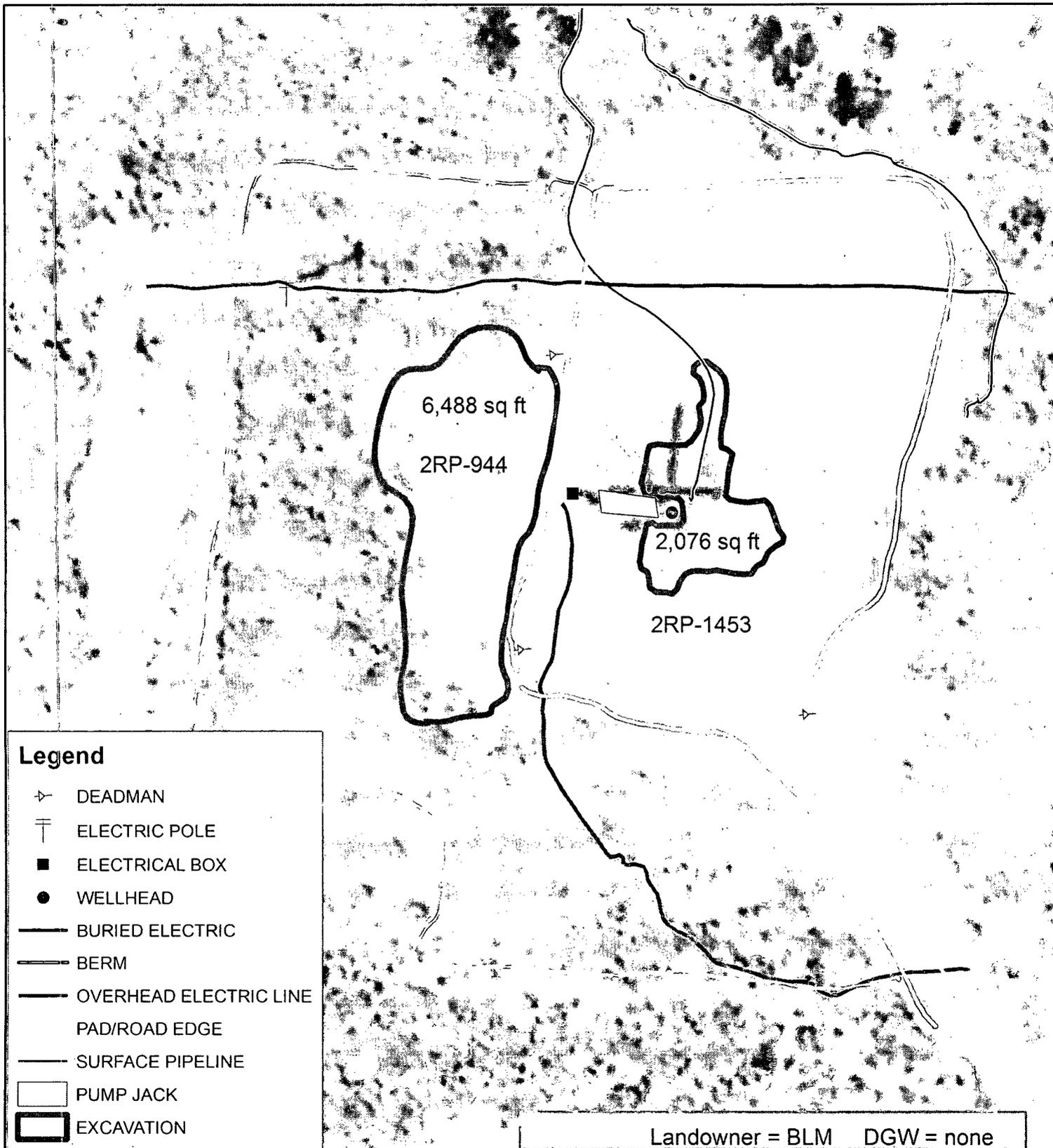
Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

Attachments:

- Figure 1 – Site Map
- Appendix A – Initial C-141
- Appendix B – Initial C-141s from Previous Fren #23 Sites
- Appendix C – Imported Soil Lab
- Appendix D – Photo Documentation from Previous Fren #23 Sites
- Appendix E – Photo Documentation from the Periphery of Lease Pad
- Appendix F – Final C-141

# Figures

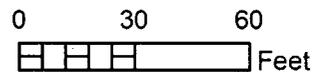
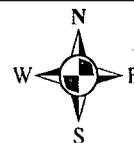
**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948, Hobbs, NM 88241  
Phone 575.393.2967



**LINN  
FREN Oil #23**

LEGALS UL/ O Sec. 19  
T17S - R31E  
EDDY COUNTY, NM  
NMOCD Case #: 2RP-1727

**Figure 1**



GPS date: 8/20/2013 KL  
Drawing date: 8/21/2013  
Drafted by: L. Weinheimer

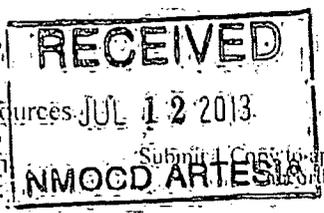
# Appendix A

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  
1090 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505



Form C-141  
Revised October 10, 2002  
Submitted Copy to appropriate District Office in accordance with 19.15.29 NMAC

**Release Notification and Corrective Action**

*JMW 1319741357*

**OPERATOR**  Initial Report  Final Report

Name of Company: Linn Operating *269324* Contact: Gary Wink  
Address: 2130 W. Bender Hobbs, NM 88240 Telephone No.: 575-738-1739  
Facility Name: Fren Oil # 23 Facility Type: Oil Producer

Surface Owner: Federal Mineral Owner: Federal ARI No.: 3001528822

**LOCATION OF RELEASE**

Unit Letter O	Section 19	Township 17S	Range 31E	Feet from the 10	North/South line South	Feet from the 1475	East/West Line East	County Eddy
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Latitude: 32.8128136385222 Longitude: -103.905305919337

**NATURE OF RELEASE**

Type of Release: Produced Water	Volume of Release: 40 bbls	Volume Recovered: 10 bbls
Source of Release: 4" steel line	Date and Hour of Occurrence: 05/16/2013 10:30am	Date and Hour of Discovery: 05/16/2013 10:30am
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 OGD, Mike Burton, BLM	
By Whom? Gary Wink	Date and Hour: 07/11/2013 3:50pm	
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: Pulling up to location of Fren #23, noticed water seeping from ground as I walked up to the well I noticed it was produced water. Called vacuum truck to pick up standing fluid.

Describe Area Affected and Cleanup Action Taken: Mess caused by the produced water was approximately 30' at its widest point and 2' at its narrowest point and traveled approximately 150'. Cause of incident: corrosion in 4" steel line.

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 of 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>Gary W. Wink</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Gary W. Wink	Approved by, District Supervisor:	Signed By: <i>Mike Bratcher</i>
Title: Production Foreman	Approval Date: <b>JUL 16 2013</b>	Expiration Date:
E-mail Address: gwink@linnenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 07/12/2013 Phone: 575-390-3477	Remediation, per OGD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	

Attach Additional Sheets If Necessary

**August 16, 2013**

*2RP-1727*

# Appendix B

Initial C-141s from Previous Fren #23 Sites

**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**  
NOV 1 2011  
NMOCD ARTESIA

Form C-141  
Revised October 10, 2003

Submit Copy to appropriate District Office in accordance with 19 15 29 NMAC

**Release Notification and Corrective Action**

nMLB1130855162 OPERATOR  Initial Report  Final Report

Name of Company: Linn Operating 269324	Contact Joe Hernandez
Address 2130 W. Bender Hobbs, NM 88240	Telephone No 575-738-1739
Facility Name: Fren Oil # 23	Facility Type Producing Oil Well
Surface Owner BLM	Mineral Owner. BLM
API No. 3001528822	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	19	17S	31E	10	S	1475	E	EDDY

Latitude: 32° 48' 46.6" Longitude: -103° 54' 19.1"

**NATURE OF RELEASE**

Type of Release: Land <i>Oil &amp; Produced Water</i>	Volume of Release 4-6	Volume Recovered 3-5
Source of Release: <i>Oil - Water</i> <i>Stuffing box</i>	Date and Hour of Occurrence 10/27/2011 10 30am	Date and Hour of Discovery 10/27/2011 11 00am
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	
By Whom? Joe Hernandez	Date and Hour 10/27/2011 11 00am	
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 * <i>Stuffing box blew out</i>		
Describe Area Affected and Cleanup Action Taken * <i>Called out vac truck and picked up all fluids</i>		
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	Signed By <i>[Signature]</i> Approved by District Supervisor NOV 04 2011	
Title Production Foreman	Approval Date	Expiration Date
E-mail Address jhernandez@linenergy.com	Conditions of Approval	
Date 11/01/2011 Phone 575-942-9492	Remediation per OCD Rules & Guidelines. <b>SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:</b> <i>12/4/2011</i>	
		Attached <input type="checkbox"/>

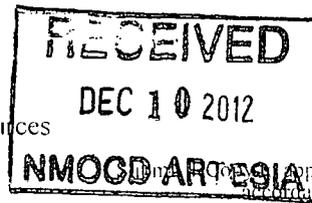
\* Attach Additional Sheets If Necessary

**SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:**  
*12/4/2011*

*JRP-944*

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



Form C-141  
Revised October 10, 2003

Appropriate District Office in  
Artesia, NM 88210  
in accordance with 19.15.29 NMAC

**Release Notification and Corrective Action**

*JMW* 1235229835

**OPERATOR**

Initial Report  Final Report

Name of Company: Linn Operating <i>269324</i>	Contact: Joe Hernandez
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: Fren 23	Facility Type: Oil Producer

Surface Owner: Federal	Mineral Owner: Federal	API No.: 3001528822
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**LOCATION OF RELEASE**

Unit Letter O	Section 19	Township 17S	Range 31E	Feet from the 10	North/South Line South	Feet from the 1475	East/West Line East	County Eddy
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Latitude: 32.8128136385222 Longitude: -103.905305919337

**NATURE OF RELEASE**

Type of Release: Produced Water / Oil	Volume of Release: 14 bbls / 4 bbls	Volume Recovered: 8 bbls / 2 bbls
Source of Release: Stuffling Box	Date and Hour of Occurrence: 12/3/2012 9:45am	Date and Hour of Discovery: 12/3/2012 10:15am
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 12/04/2012 3pm	
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.\*: DROVE TO LOCATION DOING DAILY ROUTINE AND NOTICE OIL ON GROUND COMING OUT OF WELL PACKING, TURN WELL OFF, CALL VACUUM TRUCK TO DO CLEAN UP.

Describe Area Affected and Cleanup Action Taken.\* : OIL RAN FROM WELL HEAD E. 30 FT.LONG X 21 FT WIDE. RAN N. 40 FT.LONG X 8 FT. WIDE. RAN W. 18FT LONG X 6 FT WIDE APROX. 18 BBLs WATER AND OIL. ALL FLUID WAS ON PAD. PICKED UP OIL AND WATER OFF OF GROUND AND TOOK IT TO DISPOSAL, ALSO PICKED CONTAMINATED DIRT AND PUT ON PLASTIC ON SIDE OF LOCATION.

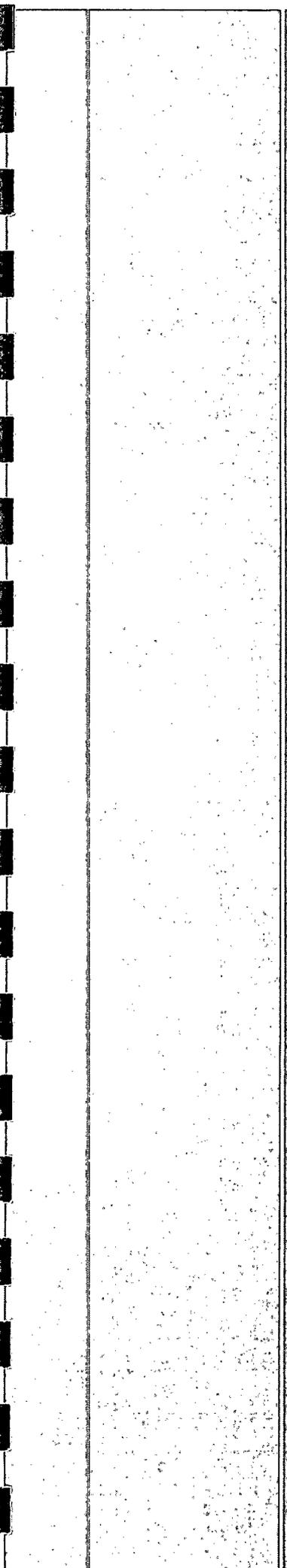
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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>Joe Hernandez</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Joe Hernandez	Approved by District Supervisor:	Signed By <i>M. Bratcher</i>
Title: Production Foreman	Approval <b>DEC 17 2012</b>	Expiration Date:
E-mail Address: jhernandez@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/10/2012 Phone: 575-942-9492	Remediation per OCD Rules & Guidelines. <b>SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:</b>	

\* Attach Additional Sheets If Necessary

**PROPOSAL NOT LATER THAN:**  
*January 17<sup>th</sup> 2013*

*2RP-1453*



# Appendix C

## Imported Soil Lab

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

August 23, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: LINN FREN #23

Enclosed are the results of analyses for samples received by the laboratory on 07/30/13 8:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/30/2013	Sampling Date:	07/29/2013
Reported:	08/23/2013	Sampling Type:	Soil
Project Name:	LINN FREN #23	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: 8 PT. COMP (H301785-05)**

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	08/01/2013	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	08/01/2013	ND	2.05	102	2.00	1.43		
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.15	108	2.00	0.897		
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.63	110	6.00	1.41		
Total BTEX	<0.300	0.300	08/01/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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>16.0</b>	16.0	07/31/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/31/2013	ND	179	89.5	200	0.282		
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	182	91.1	200	2.60		

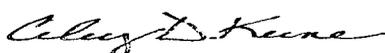
Surrogate: 1-Chlorooctane 83.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

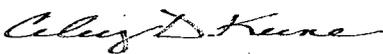
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported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

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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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:				P.O. #:																			
Address:				Company:																			
City:		State:		Zip:		Attn:																	
Phone #:		Fax #:		Address:																			
Project #:		Project Owner:		City:																			
Project Name:				State:																Zip:			
Project Location: <u>Max Fress Supply Line AD</u>				Phone #:																			
Sampler Name: <u>Chris Flores</u>				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		G/RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		<u>Chloride</u> <u>TPH</u> <u>BTEX</u>								
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:				DATE	TIME				
<u>H301785</u>																							
<u>1</u>		<u>Pl. 6 @ 3'</u>		<u>G</u>	<u>1</u>								<u>7-29-2017</u>	<u>9:25</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>2</u>		<u>Pl. 6 @ 5'</u>		<u>G</u>	<u>1</u>								<u>7-29-2017</u>	<u>10:30</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>3</u>		<u>Pl. 6 @ 8'6"</u>		<u>G</u>	<u>1</u>								<u>7-29-2017</u>	<u>11:15</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>4</u>		<u>Pl. 6 @ 9'</u>		<u>G</u>	<u>1</u>								<u>7-29-2017</u>	<u>11:25</u>	<u>X</u>	<u>X</u>	<u>X</u>						
<u>5</u>		<u>8 Point Composite</u>												<u>2:00</u>									

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: <u>Chris Flores</u>		Date: <u>7-30-2017</u>		Received By: <u>Jodi Benson</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <u>8:10</u>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: <u>J Kamplain</u> <u>Iweinheimer</u> <u>c Flores</u>			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: <u>20</u>				Cool <input type="checkbox"/> Intact <input type="checkbox"/>		<u>[Signature]</u>			
				Yes <input type="checkbox"/> No <input type="checkbox"/>					

# Appendix D

Photo Documentation from Previous Fren #23 Sites

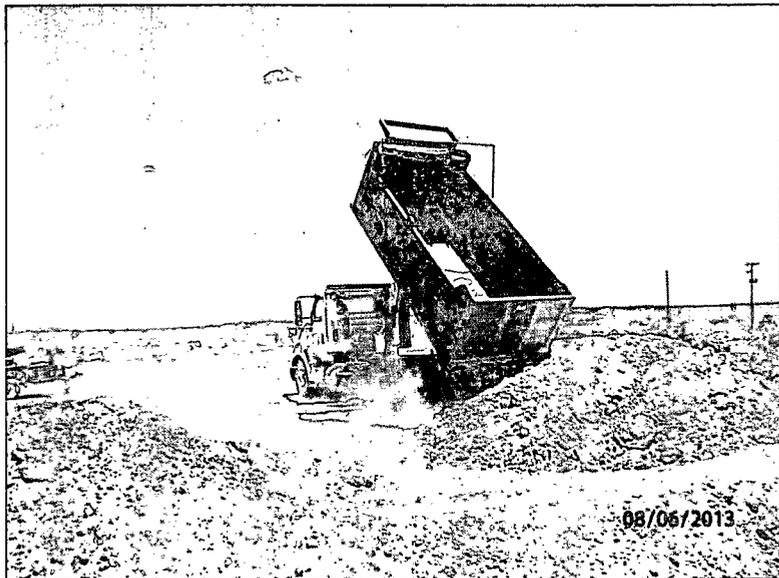
**RICE Environmental Consulting and Safety (RECS)**

P.O. Box 2948 Hobbs, NM 88241

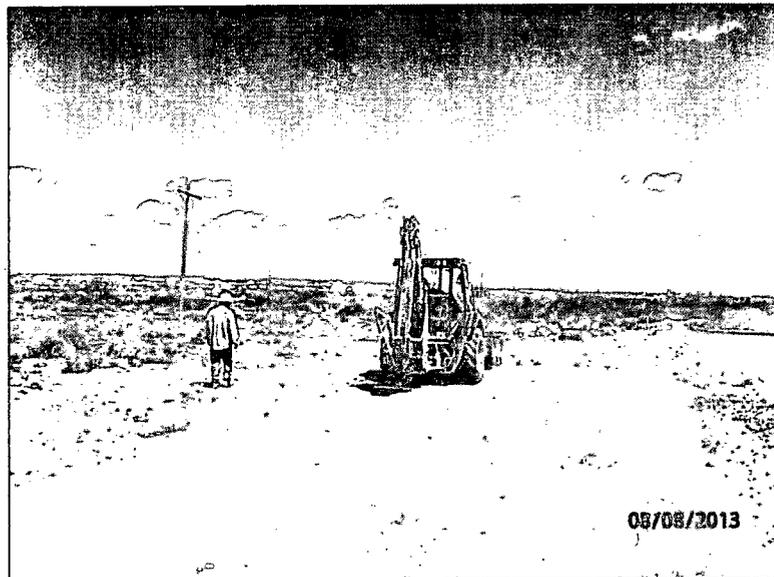
Phone 575.393.2967

# Linn Fren Oil #23

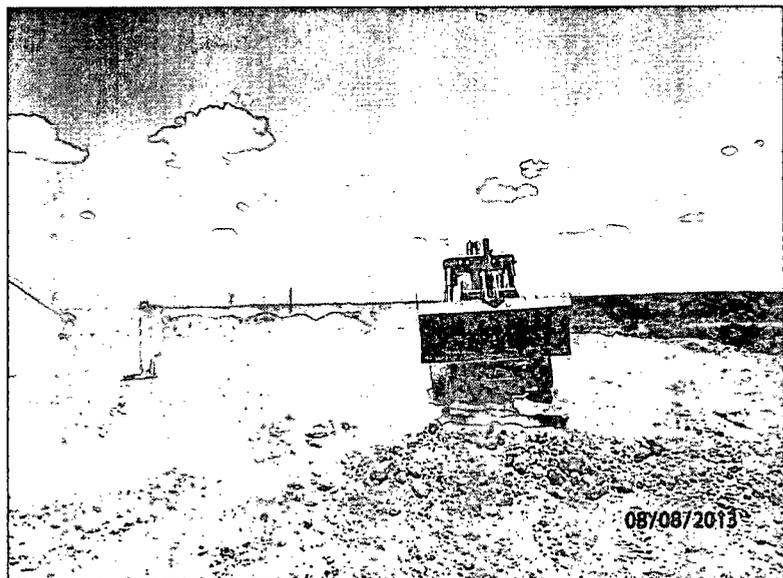
Unit Letter O, Section 19, T17S, R31E



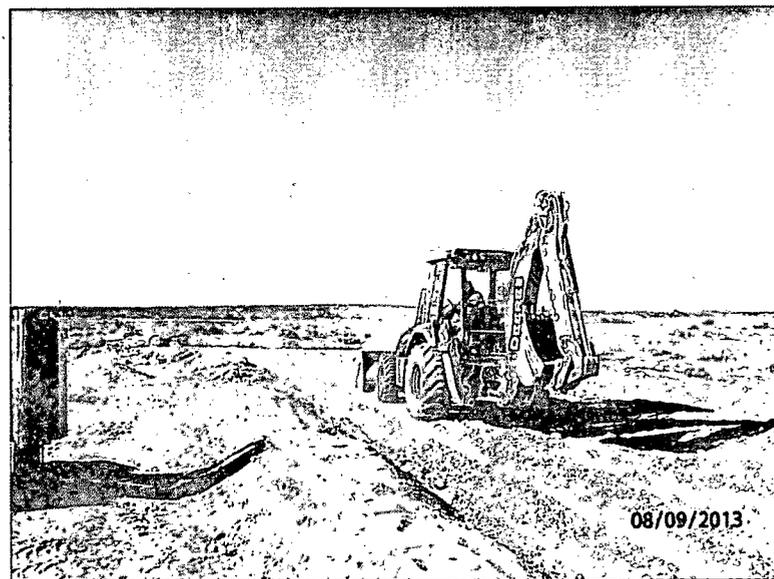
Importing caliche, facing southeast 8/6/13



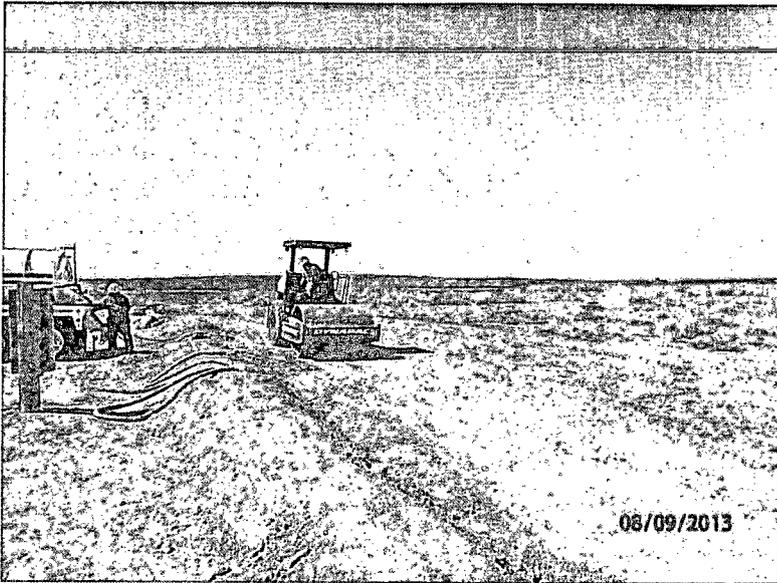
Leveling the pasture area, facing northwest 8/8/13



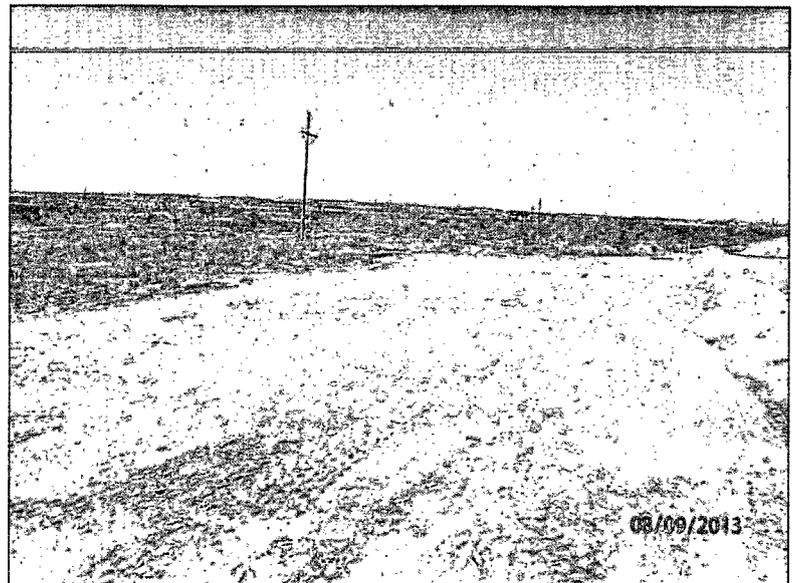
Installing the 6 inch caliche pad over pasture area, facing south 8/8/13



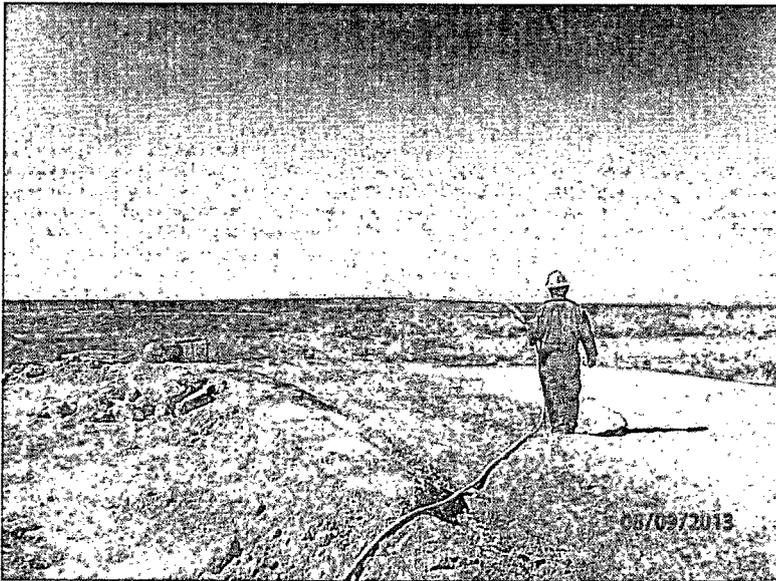
Caliche pad completed, facing southwest 8/9/13



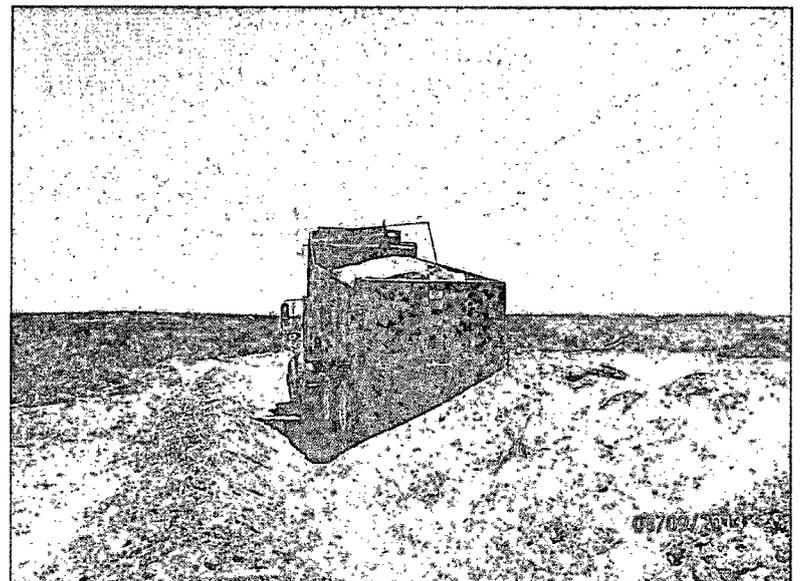
Roller packing caliche pad, facing southwest 8/9/13



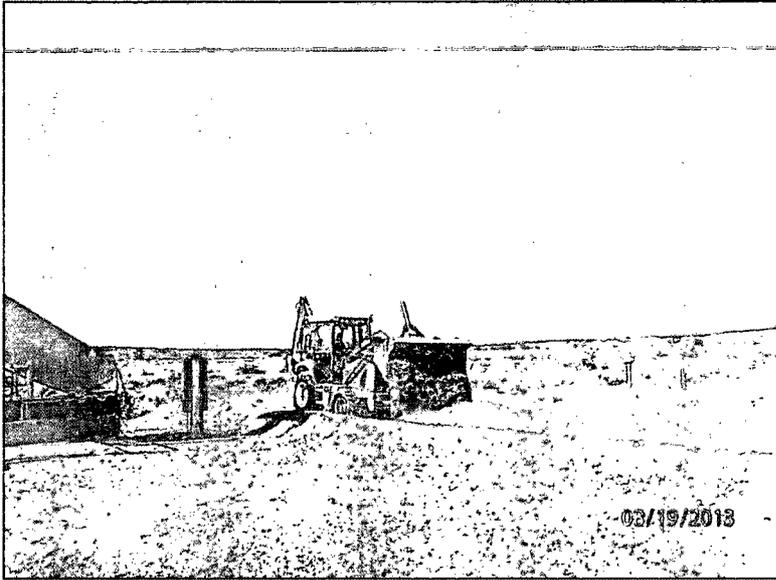
Final packing completed, facing northwest 8/9/13



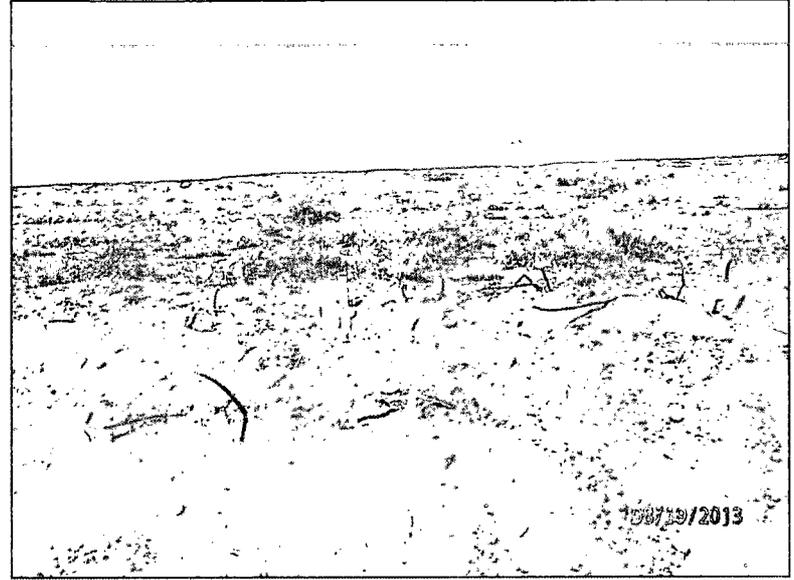
Watering caliche pad, facing southwest 8/9/13



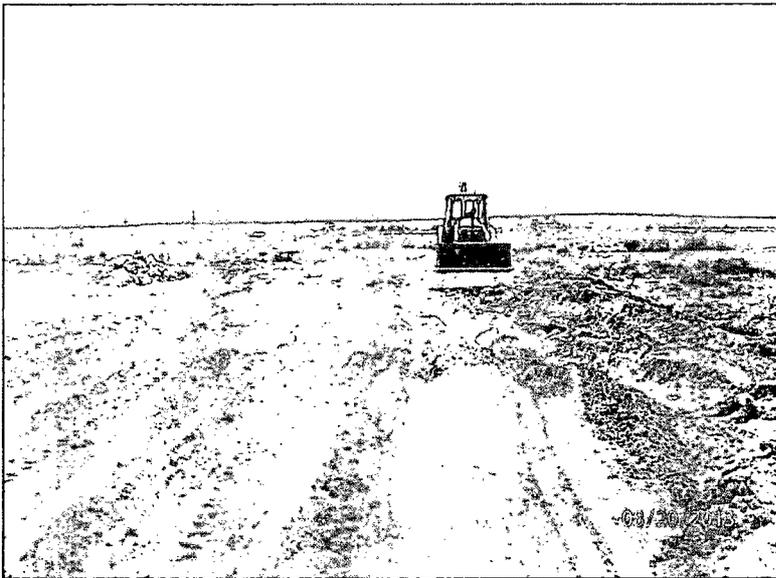
Importing soil, facing east 8/9/13



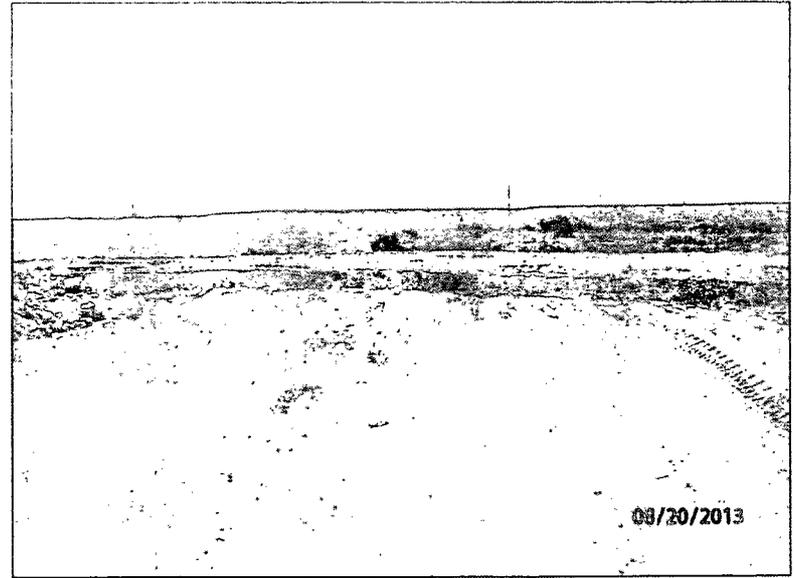
Backfilling pasture area, facing southwest 8/19/13



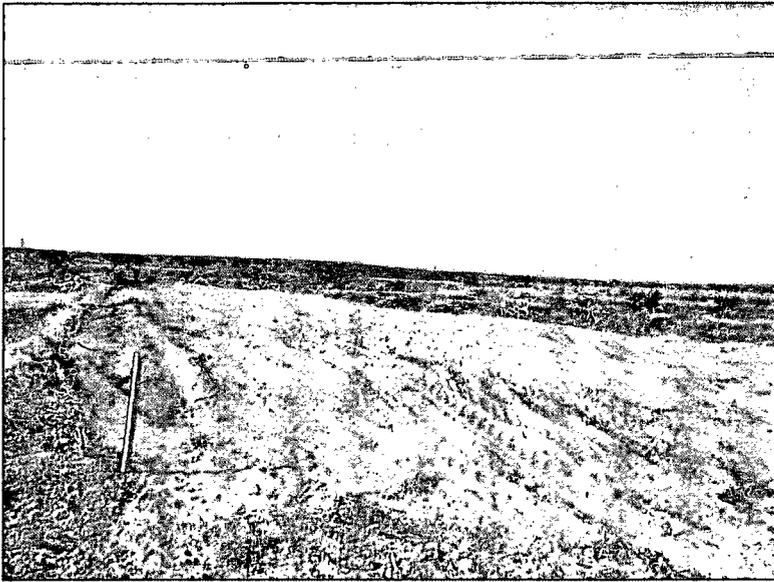
Checking depth of backfill, facing west 8/19/13



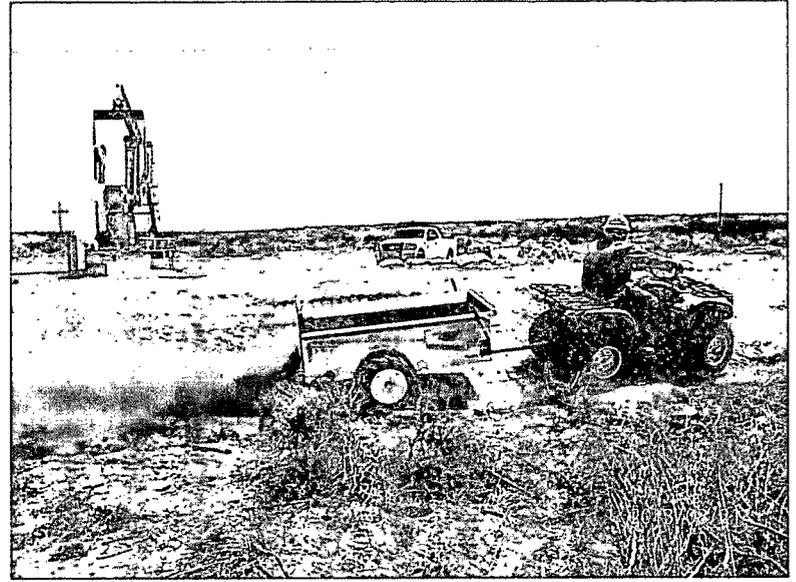
Leveling backfilled area, facing south 8/20/13



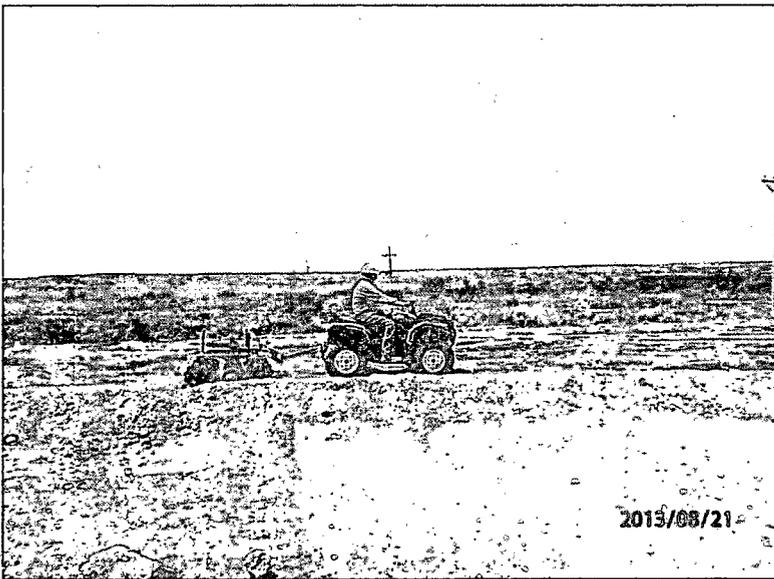
Backfill of pasture completed with berm, facing west 8/20/13



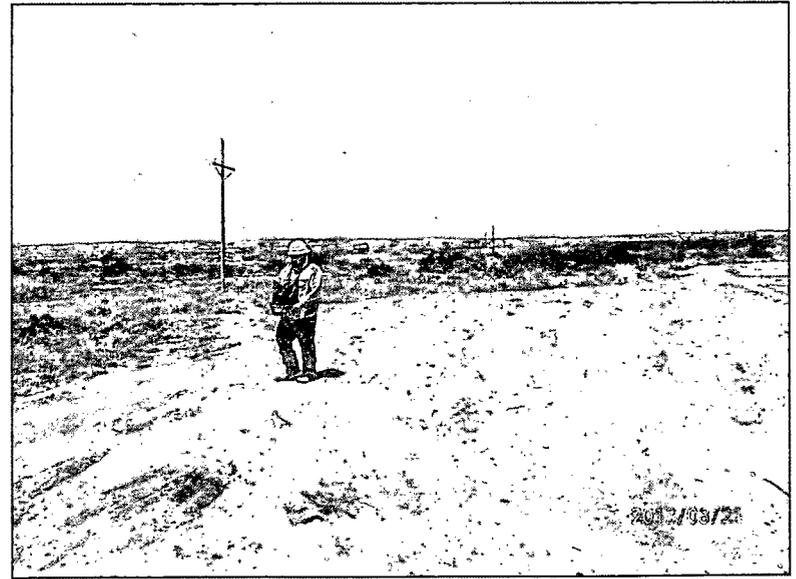
Completed pasture area, facing south 8/21/13



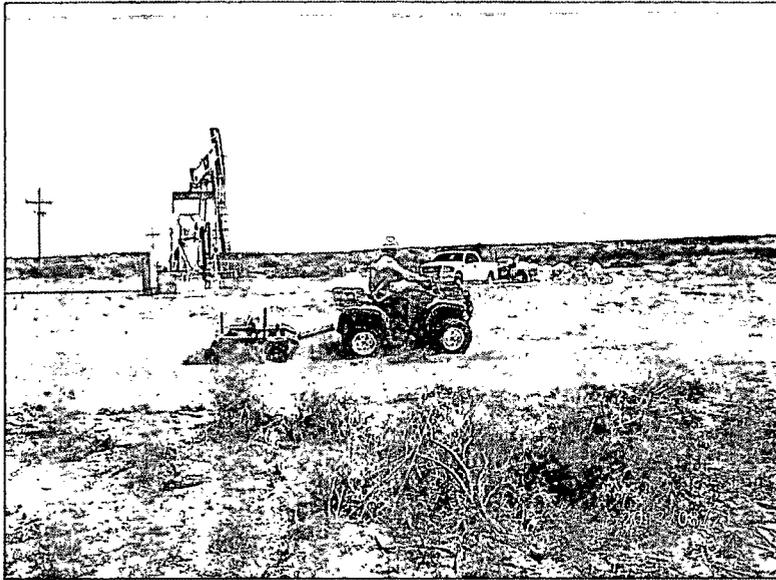
Adding soil amendments to pasture area, facing east 8/21/13



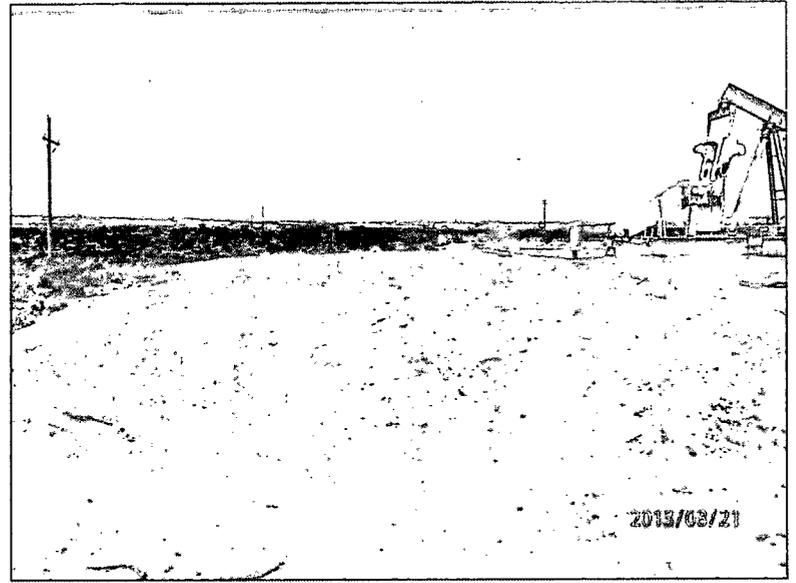
Disking site, facing west 8/21/13



Seeding site, facing north 8/21/13



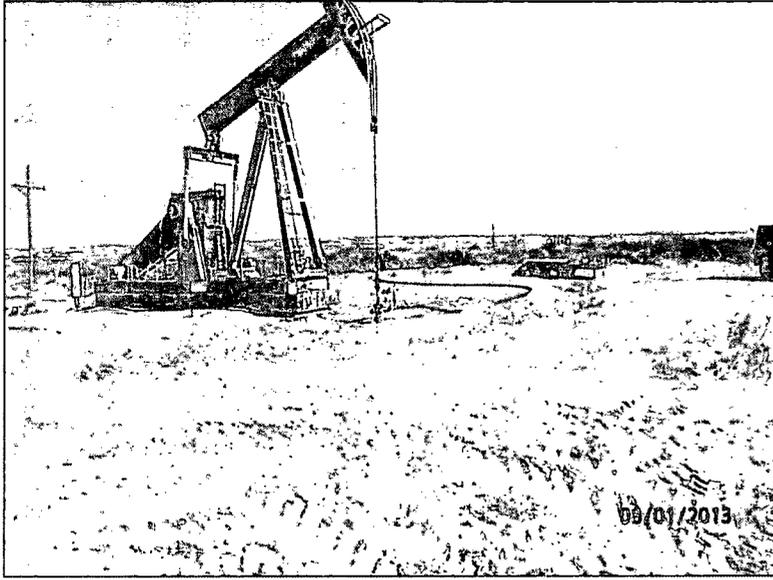
Disking seed into soil, facing southeast 8/21/13



Site completed, facing north 8/21/13

# Linn Fren #23

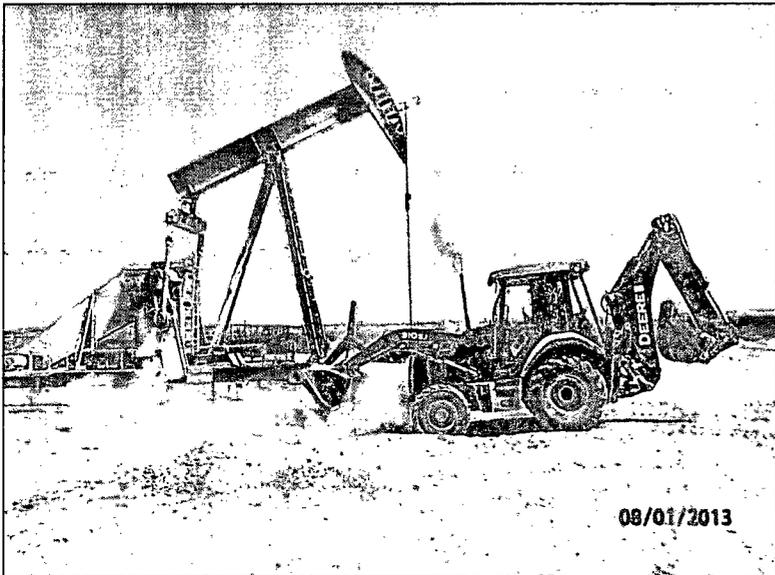
Unit Letter O, Section 19, T17S, R31E



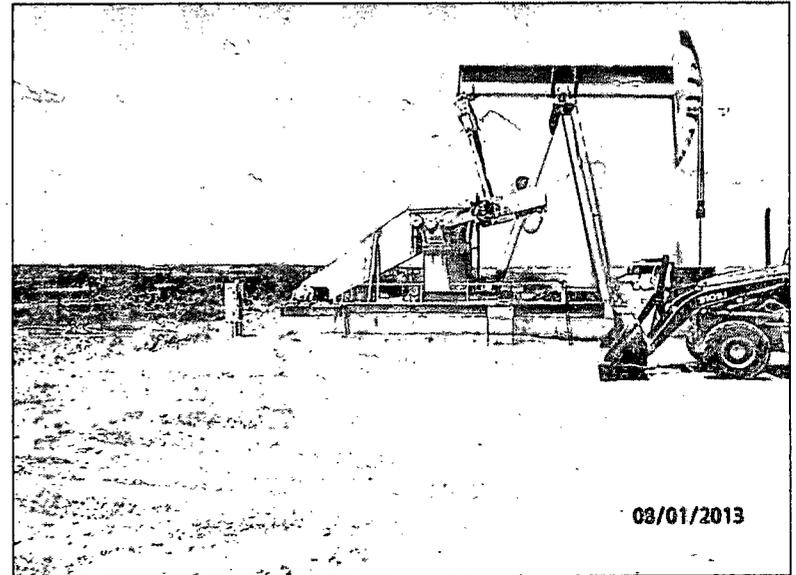
Initial site photo after initial excavation, facing north west 8/1/13



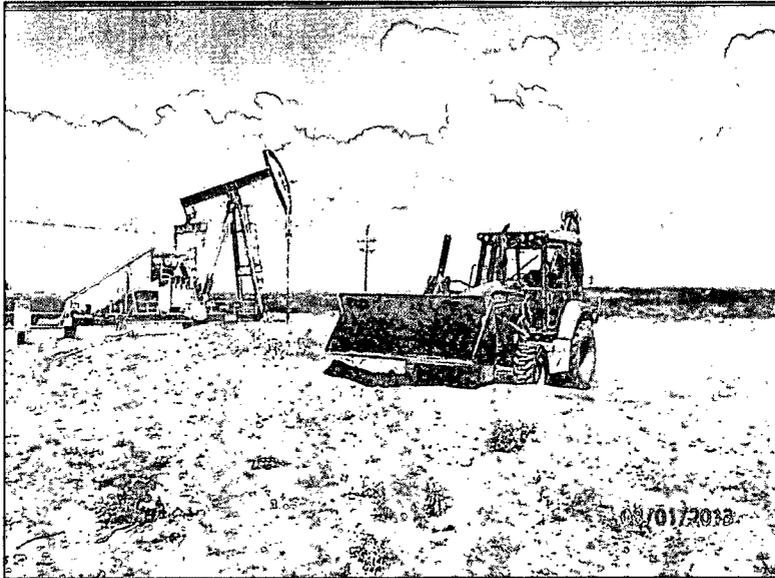
Initial site photo after initial excavation, facing east 8/1/13



Backfilling excavation, facing north 8/1/13

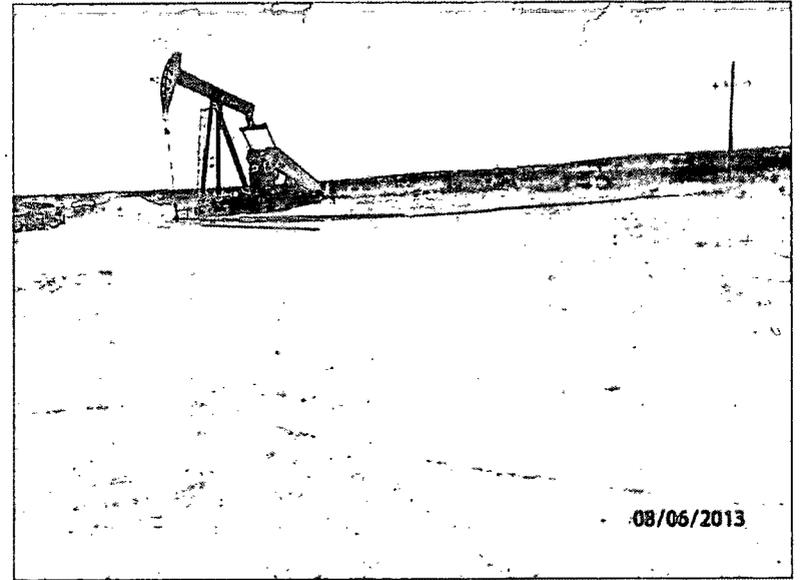


Backfilling of excavation completed, facing NW 8/1/13



Creating berms, facing northeast

8/1/13



Site completed, facing southwest

8/6/13

# Appendix E

Photo Documentation from the Periphery of Lease Pad

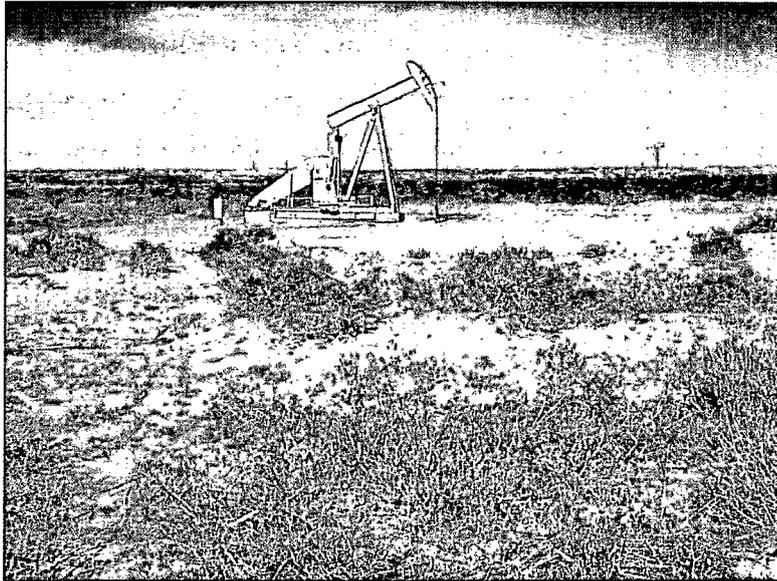
**RICE Environmental Consulting and Safety (RECS)**

P.O. Box 2948 Hobbs, NM 88241

Phone 575.393.2967

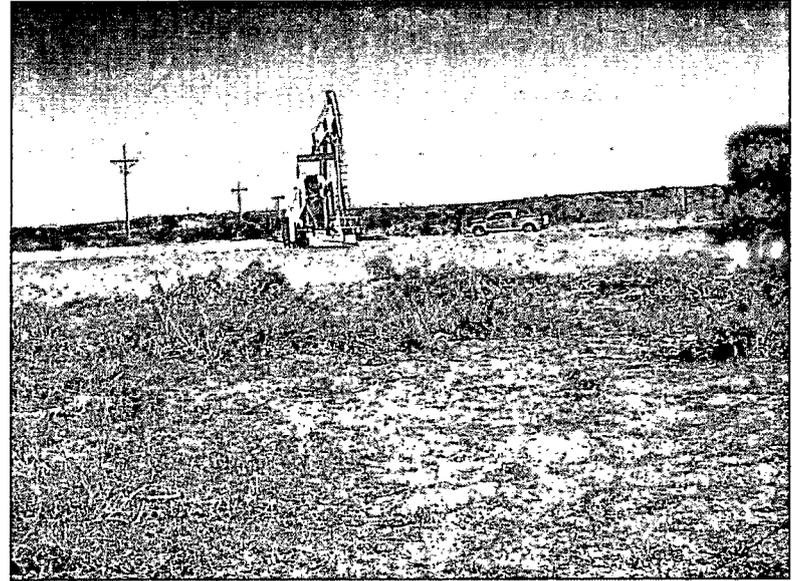
# Linn Fren Oil #23 (2RP-1727)

Unit Letter O, Section 19, T17S, R31E



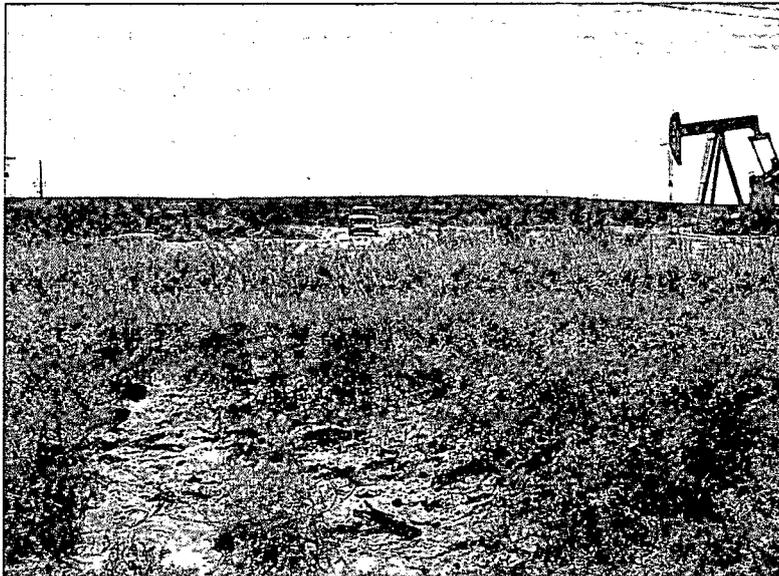
Edge of pad, facing north

11/19/13



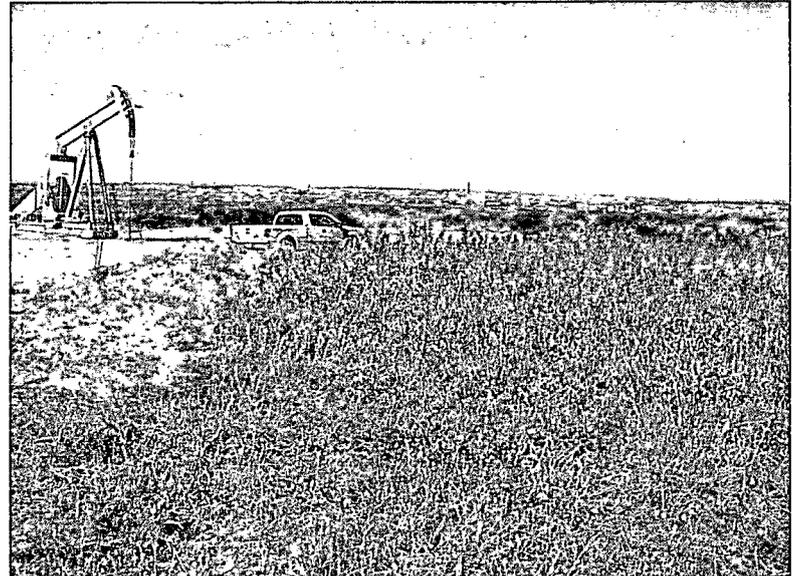
Edge of pad, facing east

11/19/13



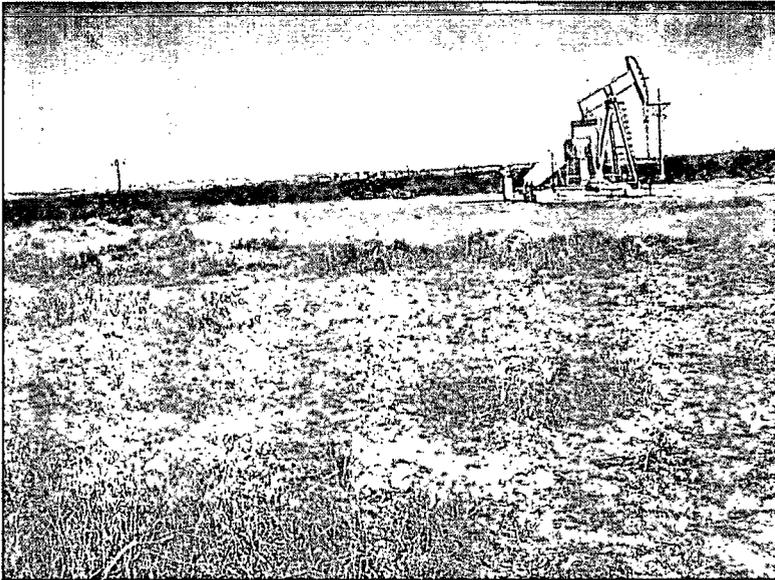
Edge of pad, facing south

11/19/13



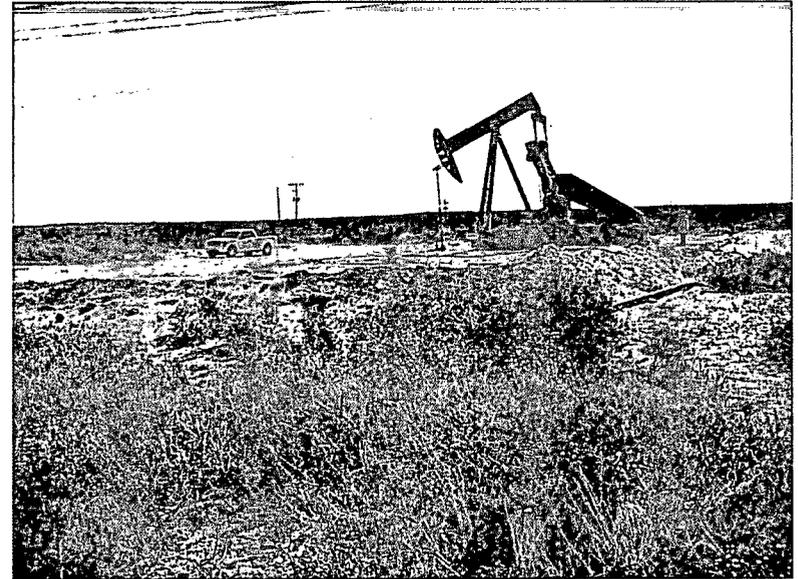
Edge of pad, facing northwest

11/19/13



Edge of pad, facing northeast

11/19/13



Edge of pad, facing southeast

11/19/13

# 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 Operating	Contact Brian Wall
Address 2130 W. Bender Blvd., Hobbs, NM 88240	Telephone No. (806) 367-0645
Facility Name Fren Oil #23	Facility Type Oil Producer

Surface Owner Federal	Mineral Owner Federal	API No. 3001528822
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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
O	19	17S	31E	10	South	1475	East	Eddy

Latitude 32.8128136385222 Longitude -103.905305919337

**NATURE OF RELEASE**

Type of Release Produced Water	Volume of Release 40 bbls	Volume Recovered 10 bbls
Source of Release 4" steel line	Date and Hour of Occurrence 5/16/13 10:30 am	Date and Hour of Discovery 5/16/13 10:30 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, Mike Burton - BLM	
By Whom? Gary Wink	Date and Hour 7/11/13 3:50 pm	<b>RECEIVED</b>  <b>DEC 19 2013</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

**RECEIVED**  
  
**DEC 19 2013**  
  
**NMOCD ARTESIA**

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Pulling up to location of Fren #23, Linn noticed produced water seeping from the ground. Called a vacuum truck to pick up standing fluid.

Describe Area Affected and Cleanup Action Taken.\*  
The area affected was approximately 30' at its widest point and 2' at its narrowest point and traveled approximately 150'. This release was remediated in association with 2RP-944 and 2RP-1453. The site had already been excavated when RECS arrived to address the site. On July 29<sup>th</sup>, 2013, RECS personnel met with BLM regarding the path forward for the site. BLM stated that they would like the excavation backfilled with clean soil and place berms around the lease pad to prevent any future releases from reaching the surrounding pasture. BLM also requested the removal of the plastic from the pasture area and remediation of the area that was without vegetation. The non-vegetated area measured 6,488 sq ft. Since the release area and non-vegetated area were located in a slight depression, the release in the pasture and the non-vegetated area needed a 6 inch caliche pad built over the entire area, then a 2 - 3 foot layer of topsoil to overlie the caliche to provide a seed bed and bring the site up to the surrounding location. On July 31<sup>st</sup>, 2013, BLM gave approval to begin backfilling the site. Top soil that was already on location was backfilled into the excavation on the lease pad. A composite sample of the imported soil was taken to a commercial laboratory for analysis and returned a chloride value of 16 mg/kg. Berms were erected around the lease pad to prevent future releases from reaching the surrounding pasture. On August 8<sup>th</sup>, 2013, BLM gave verbal approval to begin working on the pasture area. The pasture area was leveled, the plastic was removed and 120 yards of clean caliche were imported to the site. The area was backfilled with 6 inches of caliche and then watered and roller packed to provide a tight seal. 360 yards of clean topsoil were imported to the site and approximately a 2.5 ft layer of the topsoil was placed over the caliche. On August 21<sup>st</sup>, 2013, the pasture area was disked, soil amendments were added and the site was seeded with LPC seed mix. On September 25<sup>th</sup>, 2013, RECS met with BLM and BLM stated that they wanted the periphery of the lease pad photographed to show that no other releases affect the areas around the lease pad. On November 19<sup>th</sup>, 2013, these photographs were taken and showed no other releases outside the lease pad.

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.

<b>OIL CONSERVATION DIVISION</b>	
Signature: <i>Fred B Wall</i>	Approved by Environmental Specialist:
Printed Name: Brian Wall	Approval Date: _____ Expiration Date: _____
Title: Construction Foreman II	Conditions of Approval: _____ Attached <input type="checkbox"/>
E-mail Address: Bwall@linnenergy.com	
Date: 12-18-13 Phone: (806) 367-0645	

\* Attach Additional Sheets If Necessary

*2RP-1727*