

# Appendix VI

## SEED REPORT

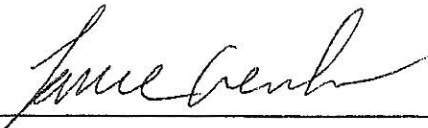
---

Diversified Field Service, Inc.  
206 W. Snyder  
Hobbs, NM 88240  
(575) 964-8394

DIVERSIFIED FIELD SERVICES, INC.

Project: SL Kee1 B52  
Seed and lbs used: LPC sand shiner with  
Rogweed & salt bush 800  
25 lbs

Date Started: 7-1-14  
Date Completed: 7-14-14

Supervisor: 

## Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

LPC Sand Shinery with Ragweed and Saltbush 800

INV53471

Bulk #

Description	Pure Seed	Germ	Dormant	Origin
Bluestem, Big "Kaw" (Andropogon gerardii)	16.49%	95.00%	0.00%	TX
Bluestem, Little "Cimarron" (Schizachyrium scoparium)	7.92%	90.00%	8.00%	TX
Bluestem, Sand "Woodward" (Andropogon hallii)	13.68%	95.00%	0.00%	TX
Bristlegrass, Plains, "VNS" (Setaria vulpiseta)	14.93%	83.00%	4.00%	TX
Coreopsis, Plains (Coreopsis tinctoria)	5.46%	97.00%	0.00%	TX
Dropseed, Sand, "VNS" (Sporobolus cryptandrus)	2.74%	95.00%	3.00%	TX
Fourwing saltbush, "VNS" (Atriplex canescens)	15.48%	52.00%	15.00%	NM
Ragweed, "Western" (Ambrosia L.)	6.71%	8.00%	68.00%	KY

Purity: 83.41%

Inert Matter: 10.19%

Other Crop Seed: 6.37%

Weed Seed: 0.03%

Noxious Weeds: None

Test Date: 01/2014

Net Wt: 25.00 lbs

# Appendix VII

## CORRESPONDENCE

---

Diversified Field Service, Inc.  
206 W. Snyder  
Hobbs, NM 88240  
(575) 964-8394

## Traci Jennings

---

**From:** Natalie Gladden  
**Sent:** Thursday, June 19, 2014 1:34 PM  
**To:** Traci Jennings  
**Subject:** Fwd: Linn Energy: JL Keel B #52-Remediation Plan Request

Sent from my iPhone

Begin forwarded message:

**From:** "Van Curen, Jennifer" <[jvancure@blm.gov](mailto:jvancure@blm.gov)>  
**Date:** June 17, 2014 at 4:28:04 PM CDT  
**To:** Natalie Gladden <[ngladden@diversifiedfsi.com](mailto:ngladden@diversifiedfsi.com)>, Brian Wall <[BWall@linenergy.com](mailto:BWall@linenergy.com)>  
**Subject:** Re: FW: Linn Energy: JL Keel B #52-Remediation Plan Request

Natalie,

In the area where water is not a problem, and the chlorides are around 3000 ppm at the 4', you can also use compacted caliche or clay (unless you are dealing with spills in a tank battery where hydrocarbons exist). I would rather have that than the liner anyway. Just use the liner if you are afraid the chlorides will come back to surface. If the sodium can be stabilized in the soil at a lower depth, that is all the BLM requires. Let me know if you want to keep the plan the same. Thanks.

BBC uses clay for PW barriers.

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220  
OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Tue, Jun 17, 2014 at 12:44 PM, Natalie Gladden <[ngladden@diversifiedfsi.com](mailto:ngladden@diversifiedfsi.com)> wrote:

Jennifer,

DFSI has completed your request on delineating the SP6 and SP7 areas. Please look at the revised remediation WP.

Thank you,

*Natalie Gladden*

*Environmental Director*

*DFSI Environmental Services*

*Cell: 575-602-1786*

*Office: 575-964-8394*

*Fax: 575-964-8396*

Email: [ngladden@diversifiedfsi.com](mailto:ngladden@diversifiedfsi.com)

The information contained in this e-mail message is intended only for the personal and confidential use of the recipient(s) named above. If the reader of this message is not the intended recipient or an agent responsible for delivering it to the intended recipient, you are hereby notified that you have received this document in error and that any review, dissemination, distribution, or copying of this message is strictly prohibited. If you have received this communication in error, please notify us immediately by e-mail, and delete the original message.

**From:** Van Curen, Jennifer [<mailto:jvancure@blm.gov>]

**Sent:** Wednesday, June 11, 2014 7:54 AM

**To:** Natalie Gladden

**Cc:** Mike Bratcher; Michael Patterson; Wall, Fred; Jim Amos

**Subject:** Re: Linn Energy: JL Keel B #52-Remediation Plan Request

Sounds great.



JENNIFER E VAN CUREN

ENVIRONMENTAL PROTECTION SPECIALIST

DOI-BLM-CARLSBAD FIELD OFFICE

320 E GREENE ST. CARLSBAD, NM 88220

OFFICE- 575-234-5905

CELL - 575-361-0042

FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Tue, Jun 10, 2014 at 3:53 PM, Natalie Gladden <[ngladden@diversifiedfsi.com](mailto:ngladden@diversifiedfsi.com)> wrote:

We just finished excavating the two sample points there were no lines and the samples will go to the lab as follows:

SP6 cleaned up at 13' and SP7 cleaned up at 11'. The Apache line is buried in a different area outside of the release area. The samples will be taken to the lab for confirmation this afternoon. Once I have the report back I will send to you immediately. We will probably install a liner in that area.

Thanks,

*Natalie Gladden*

*Environmental Director*

*DFSI Environmental Services*

*Cell: 575-602-1786*

*Office: 575-964-8394*

*Fax: 575-964-8396*

Email: [ngladden@diversifiedfsi.com](mailto:ngladden@diversifiedfsi.com)

The information contained in this e-mail message is intended only for the personal and confidential use of the recipients(s) named above. If the reader of this message is not the intended recipient or an agent responsible for delivering it to the intended recipient, you are hereby notified that you have received this document in error and that any review, dissemination, distribution, or copying of this message is strictly prohibited. If you have received this communication in error, please notify us immediately by e-mail, and delete the original message.

**From:** Van Curen, Jennifer [mailto:[jvancure@blm.gov](mailto:jvancure@blm.gov)]  
**Sent:** Tuesday, June 10, 2014 2:39 PM  
**To:** Natalie Gladden  
**Cc:** Mike Bratcher; Michael Patterson; Wall, Fred; Jim Amos  
**Subject:** Re: Linn Energy: JL Keel B #52-Remediation Plan Request

Natalie, Mike caught my error. That is to delineate areas SP 6 and SP 7.

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220  
OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Thu, Jun 5, 2014 at 8:37 AM, Van Curen, Jennifer <[jvancure@blm.gov](mailto:jvancure@blm.gov)> wrote:

Natalie,



Discussed this one with Jim this morning and we will need to delineate the SP7 and SP8 areas to where it cleans up to 1000. Where it cleans up to 1000 and 6"-1' below that point will need to be confirmed through lab. Side walls will also be need to be confirmed by a lab. Contaminants will need to be removed from beneath the lines and capped with clay or caliche and then back-filled with clean material. The rest of the areas will remain the same as stated in the previous email restated below. The lines can safely be blocked up. Communication with Apache will be needed in case source to lines need to be shut in. If you need Jeffery to help communications with Apache, let me know.

2. There is approx. 2.5' of material too high in chlorides on well pad. BLM does not blend soils containing chlorides due to non-sustainability of blended material. This material is too high in chlorides and would be an environmental concern at time of plugging the well and reclamation. The chloride affected material will need to be removed to 1000 ppm.

3. At the point of SP8 to the west, looks good to disk and seed with LPC mix.

If you have any question please let me know. Thanks.

JENNIFER E VAN CUREN

ENVIRONMENTAL PROTECTION SPECIALIST

DOI-BLM-CARLSBAD FIELD OFFICE

320 E GREENE ST. CARLSBAD, NM 88220

OFFICE- 575-234-5905

CELL - 575-361-0042

FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Mon, Jun 2, 2014 at 5:01 PM, Natalie Gladden <[ngladden@diversifiedfsi.com](mailto:ngladden@diversifiedfsi.com)> wrote:

All,

Attached you will find the remediation work plan for the Linn Energy JL Keel B #52. Once approved this site will be remediated and a closure report will follow. If you have any questions or issues, please feel free to contact me at any time.

Based on this work plan, the estimated cost for Linn to remediate this site is approximately \$85,756.15.

Natalie Gladden  
Environmental Director  
DFSI Environmental Services  
Cell: 575-602-1786  
Office: 575-964-8394  
Fax: 575-964-8396  
Email: [ngladden@diversifiedfsi.com](mailto:ngladden@diversifiedfsi.com)

The information contained in this e-mail message is intended only for the personal and confidential use of the recipients(s) named above. If the reader of this message is not the intended recipient or an agent responsible for delivering it to the intended recipient, you are hereby notified that you have received this document in error and that any review, dissemination, distribution, or copying of this message is strictly prohibited. If you have received this communication in error, please notify us immediately by e-mail, and delete the original message.

Your message is ready to be sent with the following file or link attachments:

JL Keel B #52-Remediation Plan

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

# Appendix VIII

FINAL FORM C-141

---

Diversified Field Service, Inc.  
206 W. Snyder  
Hobbs, NM 88240  
(575) 964-8394

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Linn Operating, Inc.	Contact: Brian Wall	
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No. 575-738-1739	
Facility Name: JL Keel B #52	Facility Type: Oil Producer	
Surface Owner Federal	Mineral Owner Federal	API No. 30-015-28098

### LOCATION OF RELEASE

Unit Letter P	Section 06	Township 17S	Range 31E	Feet from the 1310	North/South Line South	Feet from 60	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------	------------------------	-------------

Latitude: 32.8595 Longitude -103.9006 (Release site)

### NATURE OF RELEASE

Type of Release: Produced water/crude	Volume of Release Unknown	Volume Recovered Unknown
Source of Release: Flowline	Date and Hour of Occurrence Unknown	Date and Hour of Discovery Feb 2011
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? Gary Wink	Date and Hour: N/A	
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.* NA		
Describe Cause of Problem and Remedial Action Taken.* The release appeared to have come from a wellhead/stuffing box failure. The released fluid exited the location and entered the pasture on the south side of the location traversing between two sand dunes for approx. 150'. The affected area had visible staining and this was excavated. The pasture area was tilled and reseeded with a native seed mixture. Linn Energy respectfully requests closure of this incident.		
Describe Area Affected and Cleanup Action Taken. The spill area is west from the wellhead and was not contained strictly to the pad area. About 20' by 1' in the pasture area was impacted. This is primarily a sand area with a quick absorption rate. The overall impacted area measured 11,454 sq. ft. DFSI was retained to fully remediate the site according to NMOCD and BLM guidelines.		
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>Fred B Wall</i>		<u>OIL CONSERVATION DIVISION</u>
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: 08/11/14 Phone: 806-367-0645		

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Linn Operating, Inc.	Contact: Brian Wall	
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No. 575-738-1739	
Facility Name: JL Keel B #52	Facility Type: Oil Producer	
Surface Owner Federal	Mineral Owner Federal	API No. 30-015-28098

### LOCATION OF RELEASE

Unit Letter P	Section 06	Township 17S	Range 31E	Feet from the 1310	North/South Line South	Feet from 60	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------	------------------------	-------------

Latitude: 32.8583 Longitude -103.8998

### NATURE OF RELEASE

Type of Release: Produced water/crude	Volume of Release 2bbl/6bbl	Volume Recovered 0
Source of Release: Nipple on the Wellhead	Date and Hour of Occurrence 09/16/2012 10 AM	Date and Hour of Discovery 09/16/2012 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? Terry Gregston-BLM Mike Bratcher- NM OCD	
By Whom? Gary Wink	Date and Hour: 09/17/2012 6:15 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.* NA		
Describe Cause of Problem and Remedial Action Taken.* The nipple at the wellhead incurred a small hole due to corrosion and deterioration. This was replaced.		
Describe Area Affected and Cleanup Action Taken. The spill area is west from the wellhead and was not contained strictly to the pad area. About 20' by 1' in the pasture area was impacted. This is primarily a sand area with a quick absorption rate. The overall impacted area measured 11,454 sq. ft. DFSI was retained to fully remediate the site according to NMOCD and BLM guidelines.		
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>Fred B Wall</i>		<u>OIL CONSERVATION DIVISION</u>
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: 08/12/14 Phone: 806-367-0645		

\* Attach Additional Sheets If Necessary