



Barclay Federal 20 Flow Line

CLOSURE REPORT

API No. 30-015-30821

Release Date: 5/24/14

Unit Letter P, Section 01, Township 23 South, Range 31 East

October 21, 2015

Prepared by:

Lance Crenshaw, Project Manager
Environmental Department
Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
Phone: (575)964-8394

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Barclay Federal #20 Flowline

1 INTRODUCTION

Linn Energy (Linn) has retained ETECH Services to address environmental issues for the site detailed herein, and Diversified Field Services (DFS) has compiled the closure report.

The site is located southwest of Hobbs, NM, in Eddy County. The leak site resulted a failure of a flow line in the pasture. The impacted area was approximately 100' x 42'. Approximately 8 bbls of oil and produced water were released, with approximately 5 bbls recovered. A C-141 (Appendix I) was submitted to the NMOCD on May 27, 2014.

2 SITE ACTIVITIES

Impacted soils above regulatory threshold levels were manually and mechanically excavated from the spill area. Impacted soils were transported off-site to Lea Land Landfill. The impacted area has been excavated to a depth of 4 feet vertical. Numerous lines were encountered within the confines of the excavation including a DCP 3" high pressure line. The lines traverse through all parts of the excavation. All side walls of the excavation are below the regulatory threshold levels of 1,000 mg/kg chlorides. SP1 North has been excavated an additional 5ft to the north at a depth of 3ft.

The bottom of the excavation still has elevated levels of chlorides. The presence of the lines restricted further excavation due to safety concerns. Three (3) soil borings via hand auger were advanced within the bottom of the excavation to attempt to delineate the vertical extent of the impact. The chlorides were delineated at 17ft at SP1, 11ft at SP2, and 3ft at SP3.

An OCD approved calcium amendment was installed to the bottom of the excavation (gypsum) then backfilled with clean compacted fill material to within 1.5 – 2 feet of surface then complete the backfill with compatible soil, which is conducive to growing vegetation. The area was then seeded with a BLM approved LPC seed.

3 CONCLUSION

A review of the analytical data indicated the sample is within the Oil Conservation Division (OCD) regulatory threshold limits. Based upon this information it has been determined that

remediation of the site is complete. Copies of analytical reports, seed tickets, photographs, BLM closure and final C-141 are attached.

Appendix I

INITIAL 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
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

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 Hobbs, NM 88240	Telephone No.: 575-738-1739	
Facility Name: Barclay Federal 20	Facility Type: Oil producer	
Surface Owner: Federal	Mineral Owner:	API No.: 30-015-30821

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	01	23S	31E	660	South	660	East	Lea

Latitude: 32.3279024953782 **Longitude:** -103.725139949875

NATURE OF RELEASE

Type of Release: Produced Water / Oil	Volume of Release: 2 bbls/ 6bbls	Volume Recovered: 0 / 5bbls
Source of Release: Pipeline steel	Date and Hour of Occurrence: 05/24/14	Date and Hour of Discovery: 05/24/14 11:49am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jennifer Van Curren- BLM Mike Bratcher-NMOCD	
By Whom? Brian Wall	Date and Hour 05/27/2014 0646	
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.*: upon checking wells I notice a leak on a flowline in the pasture. I shut down the well and called for a vac truck and a roustabout crew		
Describe Area Affected and Cleanup Action Taken.* : Delineate spill site, and remove contaminated as suggested by BLM and OCD. Haul to approved disposal site and return clean soils to fill void at site. Return to natural terrain and close site via approval of BLM and OCD.		
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: 	OIL CONSERVATION DIVISION	
Printed Name: Brian Wall	Approved by District Supervisor:	
Title: Construction Foreman II	Approval Date:	Expiration Date:
E-mail Address: bwall@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 05/29/2014 Phone: 806-367-0645		

* Attach Additional Sheets If Necessary

Appendix II

SITE PHOTOS



Barclay Federal 20 Flow Line

PHOTO PAGE



Spill area in pasture



Spill Area in pasture before excavation



Spill area in pasture during excavation



Spill area during excavation



Seeding site after backfill



Seeding site after backfill

Appendix III

SITE MAP

Site Diagram

Linn, Barclay Federal 20
UL/P, Sec. 01 T23S R31E
Eddy County, NM
Drafted By: Lance Crenshaw, 10-21-15

0 0.003 0.006 0.012 Miles

Legend

Misc_points

Types

- ⚡ Electrical Box
- ⛶ Power Pole
- ◆ Headers
- Injection
- ⬡ Pumpjacks
- Tanks
- Valves
- ⬡ Other
- ⊕ Soil Bores
- ▲ sample_pts
- ★ Source

Pipeline

Type

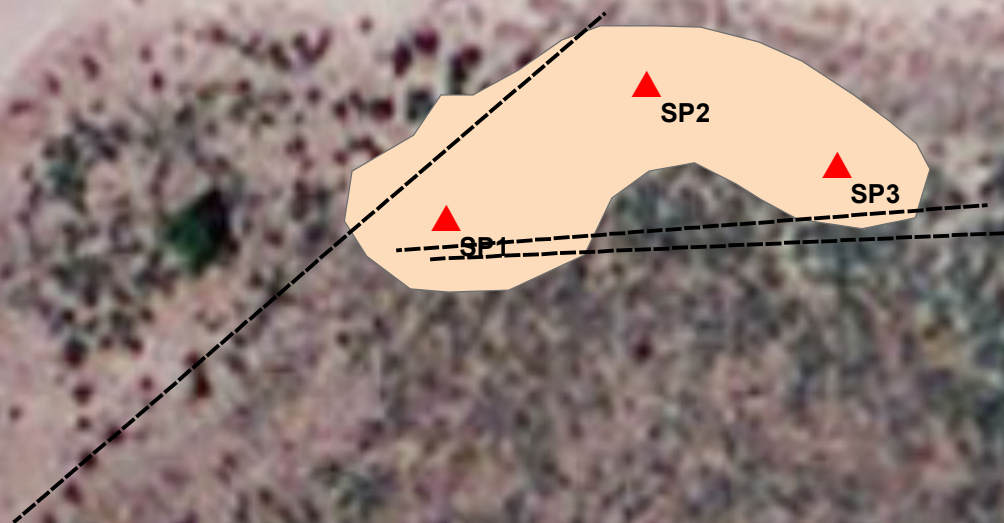
- Above Ground Line
- - - Buried Line

Spill

- <all other values>

Spill_Media

- Oil and Produced H2O
- Oil
- Other
- Produced Water



Source: Esri, DigitalGlobe, GeoEye, I-cubed, USDA, U.S. Geological Survey, AeroGRID, IGN, and the GIS User Community

Lance Crenshaw
GIS Technician

Soil Remediation and Ground Water Remediation
Environmental Assessments
Regulatory Compliance



Environmental **DFS** Services

Office: 575-964-8394
Fax: 575-964-8396

Cell: 575-441-2359
Email: lcrenshaw@diversifiedfsi.com

Appendix IV

ANALYTICAL WITH SAMPLING DATA

Chloride Probe Field Analysis Sheet

Client: LINN
 Site: Barclay Federal 20
 Technician: Abe Friesen
 Instrument: YSI PRO 1030
 Calibration Checks Good: ☒ Yes ☐ No
 Project Number: 253-4581-010
 Contaminant: Chlorides
 Model/SN: PRO 1030 / 114100517
 Calibration Standard: 250

Date	Sample I.D.	Milliliters of Sample Used	Dilution	Reading (mg/kg)	Final Result (mg/kg)	Notations
06/26/14	SP1 Bottom 6'	10	5.00	820.00	4,100.00	
06/26/14	SP1 Bottom 9'	10	5.00			to high to read
07/21/14	SP1 Bottom 14'	10	5.00	304.00	1,520.00	
07/21/14	SP1 Bottom 15'	10	5.00	210.00	1,050.00	
07/21/14	SP1 Bottom 17'	10	5.00	136.00	680.00	
06/26/14	SP2 Bottom 6'	10	5.00	447.00	2,235.00	
07/21/00	SP2 Bottom 11'	10	5.00	0.00	<16.0	
		10	5.00			
06/26/14	SP3 Bottom 6'	10	5.00	22.00	110.00	
		10	5.00			
07/21/14	SP1 North 6'	10	5.00	0.00	<16.0	
06/27/14	SP1 South 6'	10	5.00	72.00	360.00	
06/27/14	SP1 West 6'	10	5.00	2.00	10.00	
		10	5.00			
06/27/14	SP2 North 6'	10	5.00	8.00	40.00	
06/27/14	SP2 South 6'	10	5.00	2.00	10.00	
		10	5.00			
06/27/14	SP3 North 6'	10	5.00	5.00	25.00	
06/27/14	SP3 South 6'	10	5.00	2.00	10.00	
06/27/14	SP3 East 6'	10	5.00	9.80	49.00	
		10	5.00			
		10	5.00			
		10	5.00			
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		10	5.00			
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		10	5.00			
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		10	5.00			
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Appendix V

SEED REPORT

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

Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

LPC Sand Shinery W/Fourwing & Ragweed 600# bulk

INV54703

Description	Pure Seed	Germ	Dormant	Hard Seed	Origin
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Coreopsis Plains (Coreopsis tinctoria)	4.14%	97.00%	0.00%	0.00%	TX
Dropseed, Sand, "VNS" (Sporobolus cryptandrus)	2.09%	9.00%	89.00%	0.00%	
Fourwing Saltbush, "VNS" (Atriplex canescens)	8.36%	52.00%	15.00%	0.00%	NM

Ragweed, Western (Ambrosia L.)

3.44%

74.00%

13.00%

0.00%

Purity: 78.37%

Inert Matter: 16.53%

Other Crop Seed: 5.06%

Weed Seed: 0.04%

Noxious Weeds: None

Test Date:

Net Wt: 40.00 lbs

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Bluestem Big, "Kaw" (Andropogon gerardii)	10.50%	92.00%	0.00%	0.00%	TX
Bluestem Big, "Kaw" (Andropogon gerardii)	10.50%	92.00%	0.00%	0.00%	TX
Bluestem Sand, "Woodward" (Andropogon hallii)	5.71%	90.00%	0.00%	0.00%	TX
Bluestem Sand, "Woodward" (Andropogon hallii)	5.71%	90.00%	0.00%	0.00%	TX
Bluestem, Little "Cimarron" (Schizachyrium scoparium)	5.38%	96.00%	0.00%	0.00%	TX
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Bristlegrass Plains, "VNS" (Setaria vulpiseta)	8.58%	87.00%	1.00%	0.00%	TX
Bristlegrass Plains, "VNS" (Setaria vulpiseta)	8.58%	87.00%	1.00%	0.00%	TX
Coreopsis Plains (Coreopsis tinctoria)	4.14%	97.00%	0.00%	0.00%	TX
Dropseed, Sand, "VNS" (Sporobolus cryptandrus)	2.09%	9.00%	89.00%	0.00%	
Fourwing Saltbush, "VNS" (Atriplex canescens)	8.36%	52.00%	15.00%	0.00%	NM

Ragweed, Western (Ambrosia L.)

3.44%

74.00%

13.00%

0.00%

Purity: 78.37%

Inert Matter: 16.53%

Other Crop Seed: 5.06%

Weed Seed: 0.04%

Noxious Weeds: None

Test Date:

Net Wt: 40.00 lbs

Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

LPC Sand Shinery W/Fourwing & Ragweed 600# bulk

INV54703

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Appendix IX

FINAL FORM C-141

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