



LINN ENERGY

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

Max Friess #1 **(2RP-960)**

Corrective Action Plan

API No. 3001505459

Release Date: November 15th, 2011

Unit Letter B, Section 30, Township 17S, Range 31E

April 21st, 2014

Mike Bratcher

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

**RE: Corrective Action Plan
Linn Energy – Linn Max Friess #1 (2RP-960)
UL/B sec. 30 T17S R31E
API No. 3001505459**

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

The site is located approximately 4.3 miles east of Loco Hills, New Mexico at UL/B sec. 30 T17S R31E as shown on the Site Location Map (Figure 1). This site is in an area of no known groundwater.

On November 15th, 2011, Linn discovered a release of produced water and oil. A 500 barrel was tied to well head to flow back for an acid job. The well flowed steady for 5 hours and then the well kicked off, shunting the fluid to the overflow tank. The tank overflowed releasing 2 barrels of produced water and 8 barrels of oil. A total of 10,756 square feet of lease pad and pasture land was affected by the release. Vacuum trucks were called to the site and recovered ½ barrel of produced water and 1 barrel of oil. NMOCD and BLM were notified of the release on November 16th, 2011 and an initial C-141 was submitted to NMOCD for their approval (Appendix A).

RECS personnel were on site beginning on February 6th, 2014 to assess the site. Five points throughout the release were sampled at the surface and with depth (Figure 1). Representative samples were taken to a commercial laboratory for analysis (Appendix B). Point 1 returned laboratory results below regulatory standards at the surface. Point 2 was sampled to a depth of 1 ft bgs and all samples returned laboratory results below regulatory standards. Point 3 was installed to a depth of 3 ft bgs. Field data showed results below regulatory standards and 1.5 ft bgs and laboratory data showed results below regulatory standards at 2.5 ft bgs. Point 4 was installed to the depth of 6 inches and both the surface sample and the 6 inch sample showed laboratory results below regulatory standards. Point 5 was installed to a depth of 2 ft bgs and all laboratory samples showed results below regulatory standards.

Photo documentation for these activities can be found in Appendix C.

Corrective Action Plan

Based on the laboratory data, the area around Point 3 will be scraped to 91 ft x 73 ft to a depth of 1.5 ft (Figure 2). In addition, all caliche from the lease pad will be scraped off the lease pad to prepare the site for reclamation. All scraped soils will be evaluated for use as backfill or for reclamation activities. Any soils that do not meet regulatory standards will be disposed of at a NMOCD approved facility. Once the 91 ft x 73 ft scrape is completed, a 5 point bottom composite will be taken and submitted to a commercial laboratory to verify that all constituents are below regulatory standards. Soil will be imported to the site and blended with the remaining scraped soils. A sample of the blended soils will be taken to a commercial laboratory to confirm that constituents are below regulatory standards. The blended topsoil will be used to backfill the entire site to ground surface and contour the site to the surrounding area. The blended caliche will be used to place berms around the site to impede soil erosion and vehicular traffic.

Soil amendments will be added to the topsoil as needed and the site will be seeded with a blend of native vegetation. Vegetation will provide an infiltration barrier for the site, since plants capture water through their roots thereby reducing the amount of water traveling through the vadose zone.

Once these activities are completed, a report will be submitted to NMOCD and BLM detailing these actions and asking for 'remediation termination' and site closure.

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 – Initial Sampling Data
- Figure 2 – Proposed Corrective Action
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Labs
- Appendix C – Photo Documentation

Figures

Initial Sampling Data

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	384	1.6	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	208	3.5	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300
6"	144	4.4	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300
1'	880	29.1	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	3440	39.4	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300
6"	3000	31.6	<10	27.5	<0.050	<0.050	<0.050	<0.150	<0.300
1'	1880	77	<10	32.8	<0.050	<0.050	<0.050	<0.150	<0.300
1.5'	845	0.6							
2'	526	0.6							
2.5'	320	0.6	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300
3'	272	0.3	<10	57	<0.050	<0.050	<0.050	<0.150	<0.300






	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	256	0.2	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300
6"	96	0.1	<10	35.6	<0.050	<0.050	<0.050	<0.150	<0.300

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	256	28.3	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300
6"	428	23.9							
1'	912	60.7	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300
1.5'	874	6.3							
2'	176	2.7	<10	<10	<0.050	<0.050	<0.050	<0.150	<0.300

Landowner: BLM
DGW: None

CI- FIELD DATA
CI- LAB DATA

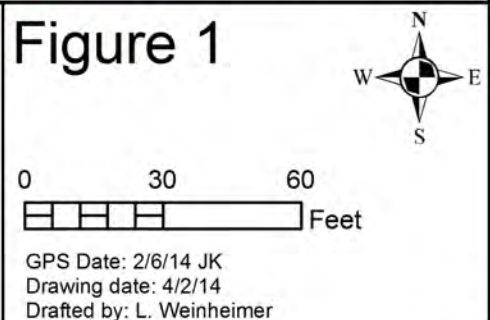
Legend

-  DEADMAN
-  SAMPLE POINT
-  WELL HEAD
-  CURRENT PAD
-  RELEASE (10,756 SQ FT)

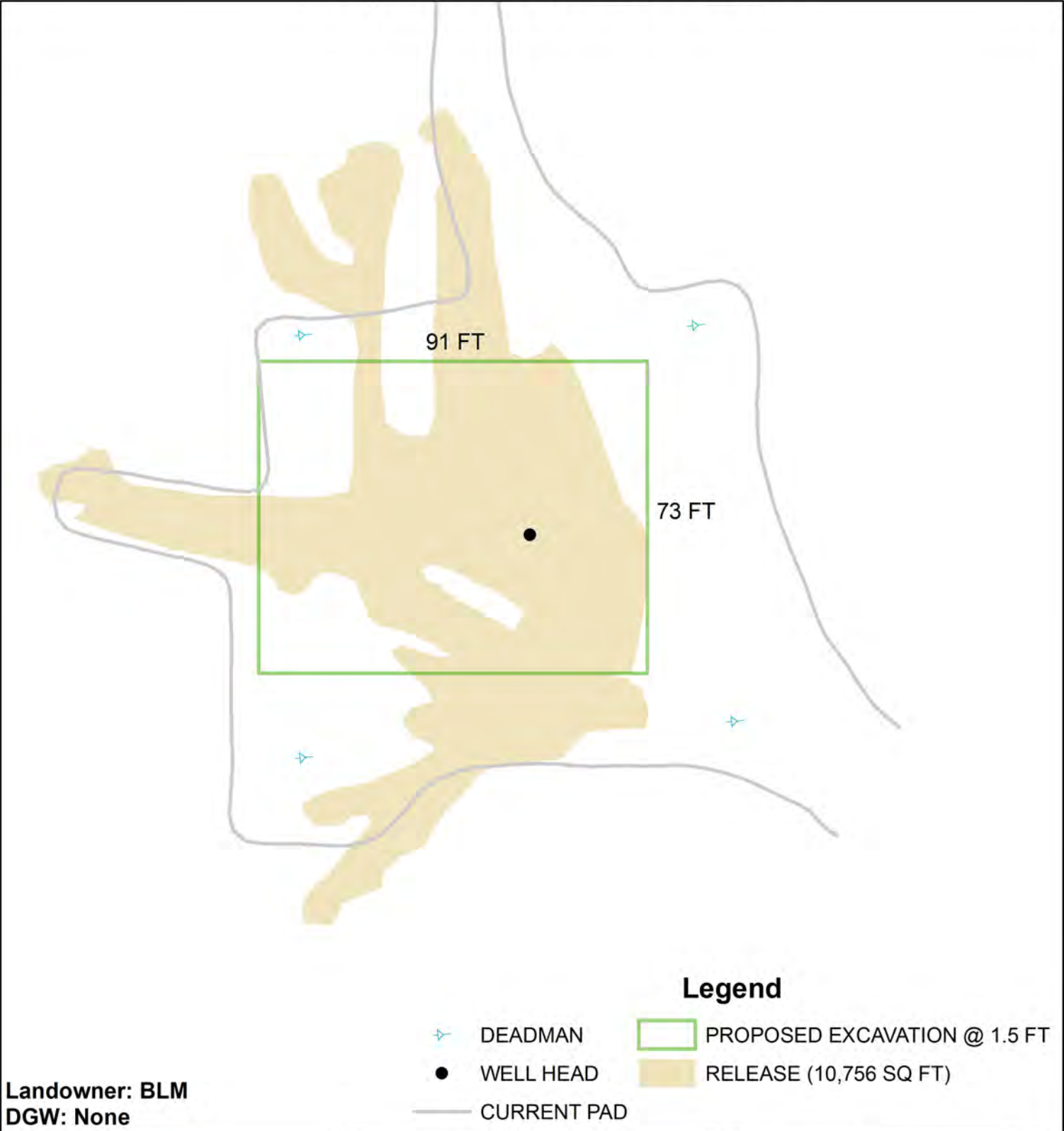


**LINN MAX
FRIESS #1**
Legals: UL/B sec. 30
T-17-S R-31-E
EDDY COUNTY, NM
API. No. 3001505459
NMOCD Case # 2RP-960

Figure 1



Proposed Corrective Action



RECS
RICE ENVIRONMENTAL
CONSULTING & SAFETY

**LINN MAX
FRIESS #1**
Legals: UL/B sec. 30
T-17-S R-31-E
EDDY COUNTY, NM
API. No. 3001505459
NMOCD Case # 2RP-960

Figure 2

0 25 50 Feet

GPS Date: 2/6/14 JK
Drawing date: 4/7/14
Drafted by: T. Grieco

Appendix A

Initial C-141

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 18 2011

NMOCD ARTESIA

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

NMLB/133634980

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: Max Friess # 1		Facility Type: Injection well

Surface Owner: BLM	Mineral Owner: BLM	API No.: 3001505459
--------------------	--------------------	---------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	30	17S	31E	660	N	1980	E	Eddy

Latitude: 32° 48' 39.1" Longitude: -103° 54' 24.6"

NATURE OF RELEASE


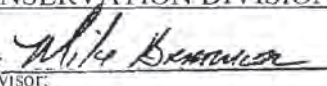
Type of Release: Produced Water / Oil	Volume of Release: 2 / 8	Volume Recovered: 0.5 / 1
Source of Release: Tank	Date and Hour of Occurrence: 11/15/2011 4:54pm	Date and Hour of Discovery: 11/15/2011 5:15pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? M. Bratcher- NM OCD / T. Gregston- BLM	
By Whom? Joe Hernandez	Date and Hour 11/16/2011 10:00am	
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.*: Tied 500bbl flow back to well head to flow back for acid job, well flowed at steady for 5hr and well kicked off overflowed tank oil/produced water came out top. Flow direction SW off location, N NW, on location and then off NW location. Contractor drove up to location as tank started to run over, and shut well in. Called vac truck.

Describe Area Affected and Cleanup Action Taken.*: M & R Trucking recovered 1.5 bbl further remedial action pending.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Joe Hernandez	Signed By:  Approved by District Supervisor:	
Title: Production Foreman	Approval Date: DEC 02 2011	Expiration Date:
E-mail Address: jhernandez@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 11/18/2011 Phone: 575-942-9492		

* Attach Additional Sheets If Necessary

Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:

1/2/2012

2RP-960