

LINN ENERGY

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

JL Keel A Battery – JL Keel A #9 (2RP-1839)

Corrective Action Plan

API No. 3001505097

Release Date: August 14th, 2013

Unit Letter G, Section 7, Township 17S, Range 31E

Rice Environmental Consulting & Safety

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

March 14th, 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 – JL Keel A Battery – JL Keel A #9 (2RP-1839) UL/G sec. 7 T17S R31E API No. 3001505097

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 4.8 miles northeast of Loco Hills, New Mexico at UL/G sec. 7 T17S R31E. This site is in an area of no known groundwater.

On August 14th, 2013 a release of produced water occurred at the JL Keel A Battery. The water tank overflowed due to a faulty transmitter and released a total of 40 barrels of produced water inside 4,607 square feet of bermed facility. A vacuum truck was called to the site and recovered 35 barrels of water. NMOCD and BLM were notified of the release on August 14th, 2013 and NMOCD approved the initial C-141 on August 16th, 2013 (Appendix A).

RECS personnel were on site beginning on September 5th, 2013 to assess the release. Four points within the bermed area were sampled at the surface and Point 2 was augured down for depth (Figure 1). The surface sample and the 8 ft sample from Point 2 were taken to a commercial laboratory for analysis (Appendix B). Laboratory chloride readings returned results of 11,600 mg/kg at the surface and 592 mg/kg at 8 ft bgs. Gasoline Range Organics (GRO) and BTEX returned results of non-detect. Diesel Range Organics (DRO) returned results of 1,590 mg/kg at the surface and 11.1 mg/kg at 8 ft bgs.

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

Corrective Action Plan

Due to safety concerns with excavating inside a tank battery, the battery will be hand and machine excavated to a depth of 1 ft bgs. All excavated soils will be evaluated for use as

backfill and any soils that do not meet regulations will be disposed of at a NMOCD approved facility. The remainder of the soil will be blended on site with clean, imported soil as needed. A sample of the blended soil will be taken to a commercial laboratory for analysis to confirm that the chloride value and TPH value are below 1,000 mg/kg respectively. The battery will be backfilled with the blended soil and contoured to the surrounding location. Any disturbed berms will be rebuilt to previous standards.

Once these actions have been completed, a report will be submitted requesting '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,

JC.W.

Lara Weinheimer Project Scientist RECS (575) 441-0431

Attachments:

Figure 1 – Initial Sampling Data Figure 2 – Proposed Corrective Actions Appendix A – Initial C-141 Appendix B – Point 2 Sampling Lab Appendix C – Photo Documentation

Figures

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

Initial Sampling Data

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KEEL A #9 (2RP-1839) UL G SECTION 7 T-17-S R-31-E FDDY COUNTY NM	F	R	ECS	BATTE KEEL (2RP-) UL G SE	KEEL A RY - JL A #9 1839) CTION 7	Figure 1 0 10 20 ⊞⊞⊞ Feet	W S

Proposed Corrective Actions



Appendix A Initial C-141

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

RECEIVED District I State of New Mexico Form C-141 1625 N. French Dr., Hobbs, NM 88240 Energy Minerals and Natural Resources AUG 1 5 2013 Revised October 10, 2003 District II 1301 W. Grand Avenue, Artesia, NM 88210 Submit I Copy to appropriate District Office in NMOCD Arace anisa with 19.15.29 NMAC District III Oil Conservation Division 1000 Rio Brazos Road, Aztec, NM 87410 1220 South St. Francis Dr. District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 **Release Notification and Corrective Action** 1322841395 **OPERATOR** Initial Report Final Report Name of Company: Linn Operating 269324 Contact: Brian Wall Address: 2130 W. Bender Hobbs, NM 88240 Telephone No.: 575-738-1739 Facility Name: JL Keel A Battery - JL Keel A #9 Facility Type: Battery Mineral Owner: Surface Owner: Federal API No.: 3001505097 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County G 07 17S 31E 1980 North 1980 East Eddy Latitude: 32.85081 Longitude: -103.90604 NATURE OF RELEASE Type of Release: Produced Water Volume of Release: 40bbls Volume Recovered: 35bbls Source of Release: Water Tank Date and Hour of Occurrence: Date and Hour of Discovery: 08/14/2013 11:30am 08/14/2013 11:30am Was Immediate Notice Given? If YES, To Whom? X Yes No Not Required Mike Bratcher- NM OCD M. Burton-BLM By Whom? Brian Wall Date and Hour 08/14/2013 3:15pm 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.*: pulled up on location to get guages, noticed inside the firewalls had water. Walked around and noticed water tank overflowing. Never received any alarm for pump failure or high tank level. Turned H.O.A. switch on panel box to transfer pump to hand position pump turned on and pumped down tank. Called electrician (Dixie Electric) to diagnose problem found transmitter on back of tank was bad causing it to show water level in tank at a steady 3 foot. Describe Area Alfected and Cleanup Action Taken.* : called vacuum truck (Unique Vacuum Services) to pick up standing water 60bbls of rain water and produced water, unable to determine exact amount of rain water mixed in with produced, 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 Signature: Approved by District Supervis@igned By A Printed Name: Brian Wall Approval DaUG 1 6 2013 Title: Construction Foreman II Expiration Date: E-mail Address: bwall@linnenergy.com Conditions of Approval: Attached Date: 08/15/2013 Remediation per OCD Rule & Guidelines, & Phone: 806-367-0645 like approval by BLM. SUBMIT REMEDIATION Attach Additional Sheets If Necessary PROPOSAL NO LATER THAN: ptember 16,2013