

**RECEIVED**

By OCD; Dr. Oberding at 12:17 pm, Apr 15, 2015

**APPROVED** Conditionally

By OCD; Dr. Oberding at 12:17 pm, Apr 15, 2015



Stipulations:

- 1) Excavate 2' instead of 6" on location in the area of SP3
- 2) Excavate 1' instead of 6" in area around SP1

# Caprock Maljamar Unit #38

## REMEDIATION WORK PLAN

---

API No. 30-025-01485

Release Date: October 22<sup>nd</sup>, 2014

Unit Letter C, Section 19, Township 17 South, Range 33 East

**April 7, 2015**

**Prepared by:**

Environmental Department  
Diversified Field Service, Inc.  
206 W. Snyder  
Hobbs, NM 88240  
Phone: (575)964-8394  
Fax: (575)393-8396

Tomas Oberding, Phd  
1625 N. French Dr.  
Hobbs, NM 88240

**RE: Linn Energy Caprock Maljamar Unit #38 – Remediation Work Plan**  
UL/C, Section 19, T17S, R33E  
API No. 30-025-01485

Dr. Oberding,

Linn Energy (Linn) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located southeast of Maljamar NM, in Lea County. The leak site resulted from a failure of an injection line. The impacted area is the north and east sides of the caliche pad and some pasture impact east of the pad. A C-141 was submitted to the NMOCD on October 22nd, 2014.

### **Site Assessment and Delineation**

On March 10th, 2015 DFSI personnel delineated vertically in four sample points of the leak area. Field samples were taken on four sample points, each sample was tested for chlorides levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). All clean field samples were taken to Cardinal Lab of Hobbs to obtain confirmation samples. The results are attached.

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 150 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

### **Conclusion**

After careful review DFSI on behalf of Linn Energy would like to propose the following:

Scrape the affected area of the caliche pad to 6" bgs and backfill with clean caliche. Remove the pasture impacted soil (SP 3 and 4) down to 4' bgs, then backfill with native topsoil. Seed with a BLM, OCD approved seed mix.

Following the approval of the above plan, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,



Michael Burton  
Environmental Operations Director  
Diversified Field Service, Inc.  
206 West Snyder  
Hobbs, NM 88240  
Office: (575)964-8394  
Mobile: (575)390-5454  
Fax: (575)964-8396  
Email: Mburton@diversifiedfsi.com

cc Jeff Robertson

Attachments: Initial Form C-141  
Site/Sample Map  
Sample Data  
Lab Analytical Data

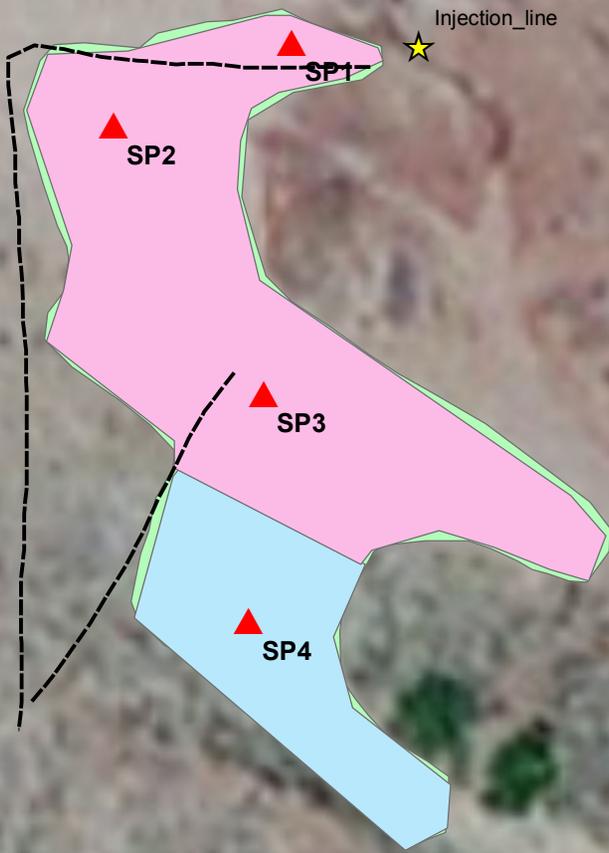
# Site Diagram

Linn, Caprock Maljamar Unit #38  
UL/C, Sec. 19 T17S R33E  
Lea County, NM  
Drafted By: Lance Crenshaw, 3-10-14

0 0.00225 0.0045 0.009 Miles

Pink shaded area: Excavate to 6 inches BGS  
Blue area; Excavate to 4' BGS

Spill Area:  
3,615 sq. ft.



Lance Crenshaw  
GIS Technician

Soil Remediation and Ground Water Remediation  
Environmental Assessments  
Regulatory Compliance

Environmental **DFSI** Services

Office: 575-964-8394  
Fax: 575-964-8396  
Cell: 575-441-2359  
Email: lcrenshaw@diversifiedfsi.com

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, swisstopo, and the GIS User Community



# Caprock Maljamar Unit #38

## PHOTO PAGE



NW N NE  
300 330 0 30  
BRG: 343°N ALT: 4143.5ft



06 Apr 2015, 11:32

SW W NW  
210 240 270 300  
BRG: 255°W ALT: 4121.5ft



06 Apr 2015, 11:32



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 Inc.	Contact Brian Wall
Address 2130 W Bender Blvd Hobbs, NM 88240	Telephone No. 575-738-1739
Facility Name Caprock Maljamar Unit #38	Facility Type Injection

Surface Owner State	Mineral Owner	API No. 30-025-01485
---------------------	---------------	----------------------

**LOCATION OF RELEASE**

Unit Letter C	Section 19	Township 17S	Range 33E	Feet from the 660	North/South Line North	Feet from the 2047	East/West Line West	County Lea
------------------	---------------	-----------------	--------------	----------------------	---------------------------	-----------------------	------------------------	---------------

**Latitude** 32.8254613924331 **Longitude** -103.704645184513

**NATURE OF RELEASE**

Type of Release Produced Water	Volume of Release 120 bbls	Volume Recovered 70 bbls
Source of Release High Pressure Hose	Date and Hour of Occurrence 10/20/2014	Date and Hour of Discovery 10/20/2014 8am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jeff Robertson -BLM Tomas Oberding- NM OCD	
By Whom? Brian Wall	Date and Hour 10/22/2014 0800	
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.\* Electricians called me and mentioned seeing a leak on the ground. Went to location and saw water being ejected into the air and spraying location with water. We shut in inj well and stopped the flow of water. Leak was caused by a blown hose that connects to the inj well and the well head. Called Benco Svcs to vacuum up water. DFSI to come and fix hoses and replace fittings. Injection well was not taking water prior to incident.

Describe Area Affected and Cleanup Action Taken.\* approximately 300 X 20 ran off location south east stayed mostly on lease road.  
Directions to site: Turn south on 126 from maljamar for approx. 1 mile. Turn east on Mescalero RD and continue east for approx 5 miles until you hit lease rd W3. turn left and continue 1 mile. Turn right and continue for about 200 yds. Turn right to 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Brian Wall	Approved by Environmental Specialist:	
Title: Construction Foreman II	Approval Date:	Expiration Date:
E-mail Address: <a href="mailto:bwall@linenergy.com">bwall@linenergy.com</a>	Conditions of Approval:	
Date: 10/22/2014 Phone: 806-367-0645	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary