



# Caprock Maljamar Unit #285

## CLOSURE REPORT

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API No. 30-025-34257

Release Dates: July 28, 2014

Unit Letter B, Section 33, Township 17 South, Range 33 East

RP# 1R-3370

**APPROVED**

*By Olivia Yu at 3:53 pm, May 31, 2017*

May 9, 2017

NMOCD approves  
1RP-3370 for closure.

**Prepared by:**

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

Shelly Tucker  
Environmental Protection Specialist  
Bureau of Land Management  
620 E Greene St  
Carlsbad, NM 88220

RE: **Linn Energy Caprock Maljamar Unit #285 – Closure Report**  
UL/B, Section 33, T17S, R33E  
API No. 30-025-34257  
NMOCD Case #: 1R-3370  
NMOCD Score: 0

Ms. Tucker,

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

The site is located south west of Maljamar, NM in Lea County. The release resulted from a hydrocarbon and produced water leak. The source of the leak was due to a poly line leak. An initial C-141 was submitted to the NMOCD on July 29, 2014 and approved on September 18, 2014 (Appendix I). The release was issued 1R-3325; however, a second case number, 1R-3370, was issued. A Closure Request for 1R-3325 was submitted March 23, 2017. This Closure Request will address case number 1R-3370.

#### **Site Assessment and Delineation**

On January 23, 2014, DFSI personnel were on site to obtain soil samples. Two sample points were collected and field tested for chloride levels, as well as TPH. The TPH samples were performed using a Mini Rae Photoionization Detector (PID). All clean field samples under BLM and NMOCD standards were taken to Cardinal Laboratories of Hobbs, NM to obtain confirmation, yielding in low concentrations (Appendix II).

DFSI has conducted a groundwater study of the area and has determined, according to the New Mexico Office of the State Engineer, the average depth to groundwater beneath this site is approximately 138 ft below ground surface (bgs). Therefore, no eminent danger of groundwater impact or threat to life is anticipated (Appendix III).

**Conclusion**

On May 21, 2015, the site was seeded with a blend of native vegetation (Appendix IV). Due to rebounded vegetation and low concentrations of constituents, DFSI, on behalf of Linn Energy, submits the final C-141 (Appendices V) and respectfully requests the closure of the regulatory file for this site.

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

Sincerely,



Laura Flores

Diversified Field Services, Inc.

206 West Snyder | Hobbs, NM 88240

Office: (575)964-8394 | Fax: (575)964-8396 | Email: lflores@diversifiedfsi.com

cc Olivia Yu, NMOCD

Appendix I – Initial C-141

Appendix II – Laboratory Analysis

Appendix III – Groundwater Study

Appendix IV – Vegetation Documentation

Appendix V – Final C-141

# Site Diagram


Linn, CMU #285  
UL/B, Sec. 33 T17S R33E  
Lea County, NM  
Drafted By: Lance Crenshaw, 1-28-15

0 0.00225 0.0045 0.009 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

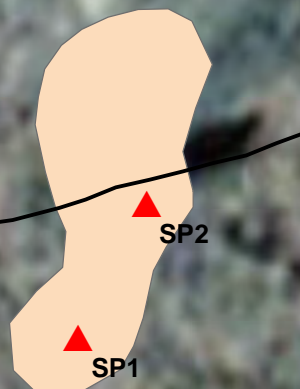
### Spill

-  <all other values>

### Spill\_Media

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

Spill Area:  
1,135 sq. ft.



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

Source: Esri, DigitalGlobe, GeoEye, AeroGRID, IGN, and the GIS User Community

# Appendix I

INITIAL C-141

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

# HOBBS OCD

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: Caprock Maljamar Unit #285	Facility Type: Oil Producer
Surface Owner: Federal	Mineral Owner:
API No.: 30-025-34257	

### LOCATION OF RELEASE

Unit Letter B	Section 33	Township 17S	Range 33E	Feet from the 330	North/South Line North	Feet from the 2310	East/West Line East	County Lea
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Latitude: 32.7974215844725 Longitude: -103.667119626025

### NATURE OF RELEASE

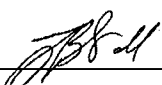
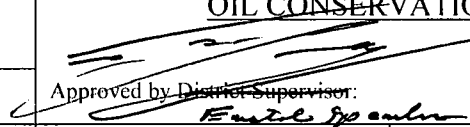
Type of Release: Produced Water / Oil	Volume of Release: 10 gal / 1 gal	Volume Recovered: 0 / 0
Source of Release: Poly pipeline	Date and Hour of Occurrence: 07/28/2014	Date and Hour of Discovery: 07/28/2014 1:00pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jeff Robertson - BLM	
By Whom? Brian Wall	Date and Hour 07/29/2014	
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.\*: At appx 1:00p.m. on 7/28/14 I received a phone call that I had a flow line leak at the CMU #285. I arrived to location to find that the poly pipe flow line was misting out of the weld. It released appx 10 gals of produced water and appx 1 gal of oil. Where line was leaking there is an old leak. The size of area affected is appx 10' long and 8' wide.

Describe Area Affected and Cleanup Action Taken.\*: The size of area affected is appx 10' long and 8' wide. West of the wellhead about 60 yards, 20 yards off of location, Northwest corner.  
Directions to site: From Maljamar go South on Hwy 126 6/10 of a mile turn on Hwy 125 (Mescalero Rd) go 5.7 miles then turn right, then go 2/10 mile to location on your left.

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: 10-10-14	Expiration Date: 12-10-14
E-mail Address: bwall@linenergy.com	Conditions of Approval: <i>Site Supervisor signed Release &amp; include me as per NMOCD guide. Submit final copy by 12-10-14</i>	Attached <input type="checkbox"/> <i>1 RP-3370</i>
Date: 07/29/2014	Phone: 806-367-0645	

\* Attach Additional Sheets If Necessary

*09-10-269329*  
*10-14-28339529*  
*10-14-28339653*  
**OCT 17 2014**

# Appendix II

## LABORATORY ANALYSIS

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

January 28, 2015

JOE HERNANDEZ

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: CMU #285

Enclosed are the results of analyses for samples received by the laboratory on 01/27/15 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

LINN OPERATING-HOBBS  
 JOE HERNANDEZ  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

Received: 01/27/2015  
 Reported: 01/28/2015  
 Project Name: CMU #285  
 Project Number: NOT GIVEN  
 Project Location: EDDY COUNTY

Sampling Date: 01/23/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP. 1 @ SURFACE (H500245-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2015	ND	1.71	85.4	2.00	7.10	
Toluene*	<0.050	0.050	01/28/2015	ND	1.66	82.8	2.00	6.42	
Ethylbenzene*	<0.050	0.050	01/28/2015	ND	1.58	78.9	2.00	8.23	
Total Xylenes*	<0.150	0.150	01/28/2015	ND	4.75	79.2	6.00	8.71	
Total BTX	<0.300	0.300	01/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/27/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/27/2015	ND	190	95.1	200	3.71	
DRO >C10-C28	492	50.0	01/27/2015	ND	190	95.1	200	5.24	

Surrogate: 1-Chlorooctane 94.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 145 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

LINN OPERATING-HOBBS  
 JOE HERNANDEZ  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

Received: 01/27/2015  
 Reported: 01/28/2015  
 Project Name: CMU #285  
 Project Number: NOT GIVEN  
 Project Location: EDDY COUNTY

Sampling Date: 01/23/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP. 2 @ SURFACE (H500245-02)**

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/28/2015	ND	1.71	85.4	2.00	7.10		
Toluene*	<0.050	0.050	01/28/2015	ND	1.66	82.8	2.00	6.42		
Ethylbenzene*	<0.050	0.050	01/28/2015	ND	1.58	78.9	2.00	8.23		
Total Xylenes*	<0.150	0.150	01/28/2015	ND	4.75	79.2	6.00	8.71		
Total BTX	<0.300	0.300	01/28/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/27/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2015	ND	190	95.1	200	3.71	
DRO >C10-C28	<10.0	10.0	01/27/2015	ND	190	95.1	200	5.24	

Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 121 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

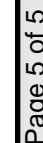
\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

**PLEASE NOTE:** Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal (regardless of whether such claim is based upon any of the above stated reasons or otherwise).

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

# Appendix III

## GROUNDWATER STUDY

---

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



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the  
POD suffix indicates the  
POD has been replaced  
& no longer serves a  
water right file.)

(R=POD has been  
replaced,  
O=orphaned,  
C=the file is  
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q 6	Q 4	Q 1	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<a href="#">L 03713</a>		L	LE	3	4	1	28	17S	33E	624391	3630617*	210		
<a href="#">L 14159</a> <a href="#">POD1</a>		L	LE	3	1	3	28	17S	33E	624030	3630169	298	165	133

Average Depth to Water: 165 feet

Minimum Depth: 165 feet

Maximum Depth: 165 feet

Record Count: 2

PLSS Search:

**Section(s):** 27, 28, 29, 32, **Township:** 17S **Range:** 33E  
33, 34

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/16/17 2:12 PM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER



# Appendix IV

## VEGETATION DOCUMENTATION

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CMU #285

Photo Page



# Appendix V

FINAL C-141

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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

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 Energy	Contact: Aaron Hickert	
Address: 2130 W Bender, Hobbs, NM 88240	Telephone No. 432-363-9496	
Facility Name: Caprock Maljamar Unit #285	Facility Type: Oil Producer	
Surface Owner: Federal	Mineral Owner:	API No. 30-025-34257

**LOCATION OF RELEASE**

Unit Letter B	Section 33	Township 17S	Range 33E	Feet from the 330	North/South Line North	Feet from 2310	East/West Line East	County Lea
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Latitude: 32.7974215844725 Longitude: -103.667119626025

**NATURE OF RELEASE**

Type of Release: Produced Water / Oil	Volume of Release: 10 gal / 1 gal	Volume Recovered: 0 / 0
Source of Release: Poly line	Date and Hour of Occurrence 07/28/2014	Date and Hour of Discovery 07/28/2014 1:00 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jeff Robertson - BLM	
By Whom? Brian Wall	Date and Hour: 07/21/2014 9:00 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.\*

Describe Cause of Problem and Remedial Action Taken.\*

At approximately 1:00 PM on July 28, 2014, notified of a flow line leak at CMU #285. Poly pipe flow line was misting out of the well. It released approximately 10 gallons of produced water and approximately 1 gallon of oil. The size of area affected is approximately 10' long by 8' wide, west of wellhead about 60 yards, 20 yards off of location, northwest corner.


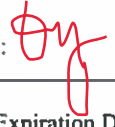
**APPROVED**

**By Olivia Yu at 4:01 pm, May 31, 2017**

Describe Area Affected and Cleanup Action Taken.

On January 23, 2014, DFSI personnel were on site to obtain soil samples. Two sample points were collected and field tested for chloride levels, as well as TPH. The TPH samples were performed using a Mini Rae Photoionization Detector (PID). All clean field samples under BLM and NMOCD standards were taken to Cardinal Laboratories of Hobbs, NM to obtain confirmation, yielding in low concentrations.

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: Aaron Hickert	Approved by Environmental Specialist: 	
Title: Sr EH&S Representative	Approval Date: 5/31/2017	Expiration Date: xx/xx/xxxx
E-mail Address: ahickert@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 05/08/2017 Phone: 432-363-9496		

\* Attach Additional Sheets If Necessary