

# Linn Energy Turner B #7

## CLOSURE REPORT

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API No. 30-015-05185

BLM Event #NMLC089395B

2RP-2176

Release Date: 08/1/11-01/27/14

Unit Letter D, Section 05, Township 17 South, Range 31 East

May 28, 2014

Prepared by:

Environmental Department  
Diversified Field Service, Inc.  
3412 N. Dal Paso  
Hobbs, NM 88240  
Phone: (575)964-8394  
Fax: (575)393-8396

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

JUN 04 2014

RECEIVED

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Appendix IV – Laboratory Analyses

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# Turner B #7

## 1 BACKGROUND AND PREVIOUS WORK

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

The site is located southwest of Maljamar NM, Unit letter 'O', sec. 17, T17S R31E, in Eddy County. On August 01, 2011 The BLM filed an "Undesirable Event Form" number **11NU10TG** (Appendix1) with the assigned case number of NMLC029395B. This event was as a result of the construction crew, building a well pad for the Lee Federal #42 for Apache striking a buried fiberglass flowline for the Turner B #7 well. (Figure). This caused a produced water spill in the amount of 10bbls. There was approximately 2 bbls recovered. The line was repaired however, the excavated topsoil was inadvertently placed on a reserve of topsoil, thereby contaminating it. DFSI was retained to address the remediation of this site.

During the remediation of the aforementioned spill and excavation of the impacted stockpile, there was a subsequent 2" fiberglass line strike that induced an 18 bbls produced water spill. A vacuum truck was utilized to recover most of the fluids lost (15bbls). Most of the fluids were contained in the previously excavated area. However, there was nominal amount of impact to pasture area. A form C-141 was submitted to the NMOCD on January 28, 2014 (**RP-2176**). (Appendix I)

DFSI personnel conducted a groundwater research utilizing U.S. Geological Survey records and NM Office of the State Engineer. It was determined that there are no records of groundwater in the immediate township-range. The average depth to groundwater for surrounding areas is ~236 ft. (Appendix III).

## 2 CORRECTIVE ACTION PLAN

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On October 31, 2013 DFSI personnel were on site to assess the leak area. The area had been previously excavated by a former contractor to prevent further impact and repair the flowline. However, the impacted soil that was excavated was placed on a reserve stockpile of topsoil as can be seen in photos. DFSI personnel established 2 sample points at surface. Representative samples were sent to a commercial laboratory for analyses. SP1 returned chloride results of 6480 m/kg, BTEX <.300 mg/kg, GRO <10.0 and **DRO** of >25.2 mg/kg.

On November 06, 2013 DFSI personnel revisited the site, and delineated the site using a hand auger and Mini RAE Photoionization Detector (PID). The site was delineated at 1ft. bgs. intervals until Chloride analyses returned acceptable levels. Representative samples were retrieved at SP1, 11ft. bgs and at SP2, 3ft. bgs., and sent to a commercial laboratory for analyses. For SP1

the chloride levels returned acceptable levels at 432 mg/kg, likewise for SP2 the chloride level results were 416 mg/kg. The **BTEX**, **GRO** and **DRO** were non- detect. (Appendix IV). Photographs of site activities can be viewed in Appendix II.

On December 20, 2013 DFSI submitted a written request to NMOCD and NM BLM to excavate the area of SP1 to 4ft. bgs., install a 20 mil. liner, and to excavate the area of SP2 to 2 ft. bgs., and backfill .

On January 27, 2014 DFSI personnel revisited the site to delineate the site for the second incident. Field analyses for four sample points returned acceptable levels of chloride for all sample points with one exception; SP2 chloride results were 4248 mg/kg (Appendix IV). From January 27<sup>th</sup> thru February 05, 2014 there was an additional 120 tons of impacted soils removed to an NMOCD approved facility from the second incident as evidenced by the additional excavation activity.

### **3 CONCLUSION**

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On February 03, 2014 SP2 was also excavated to 4ft. bgs., and included in the lined area to prevent further penetration of chloride. The entire excavation was backfilled with clean topsoil and contoured to the surrounding landscape. On February 05, 2014, DFSI personnel tilled and seeded with 50 lbs. of native vegetation, in order to establish a vegetation barrier. Thereby reducing the amount of water traveling through the vadose zone to groundwater, and restoring the area to its natural state per BLM requirements.

According to the U.S. Geological Survey and the NM Office of the State Engineer, there were no records of groundwater in the immediate vicinity, however depth to groundwater in the area averages greater than ~236 ft. bgs (Appendix III). Based on the removal of soils containing elevated chloride and visual staining at the site, DFSI, on behalf of Linn, submits the final form C-141 (Appendix V), and respectfully requests the closure of the regulatory file for the site.

# Excavation Diagram

In area of SP2  
Excavate 2' and  
backfill with clean  
topsoil.

In area of SP1  
Excavate 4' and  
install liner, backfill  
with clean topsoil.



Landowner: BLM  
Depth to GW: 236 ft

Diversified Field Services, Inc.  
C.C. & Co, LLC  
J & M Welding and Fabrication, Inc.  
Diversified Construction

Legend  
□ Initial Impacted Area (total 1,600 ft<sup>2</sup>)  
△ Sample Point

**Linn Energy Turner B #007**  
UL/O, Sec 17, T17S R31E  
Eddy County, NM  
Drafted By: A.C. Ruth, 1/17/14  
Not to Scale

# Appendix I

UNDESIRABLE EVENT FORM-INITIAL FORM C-141

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Diversified Field Service, Inc.  
3412 N. Dal Paso  
Hobbs, NM 88240  
(575) 964-8394

**UNITED STATES DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
UNDESIRABLE EVENT INSPECTION FORM**

Unique Event Number: 11NU108TG		Date of Event: 08/01/2011	Date Reported: 08/01/2011	
State: NM	Office Code: CB	County: EDDY		
1/4 1/4: SWSE	Section: 17	Township: 17S	Range: 31E	

Reference Point (Remarks):

Case Number: NMLC029395B			
Operator Name: LINN OPERATING INCORPORATED	SME: BUREAU OF LAND MANAGEMENT		

Type of Event:

**SALTWATER SPILL**

Volumes -	Discharged Oil:	Gas:	Water: 10	Other:
	Recovered Oil:	Gas: N/A	Water: 2	Other:

INSPECTION OPEN DATE: 08/01/2011	INSPECTION CLOSE DATE: 08/11/2011
INSPECTOR: GREGSTON	COMPANY REPRESENTATIVE: DENNIS POTTER

TIMES - OFFICE: 2.00	TRAVEL: 1.00	INSPECTION: 0.50
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EVENT CLASSIFICATION: MINOR			
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Well or Facility ID: 300150518500S1	Name: TURNER B	Number: 7
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CAUSE OF EVENT (REMARKS):

08/01/11--during construction of the Apache, Lee Federal 42 well pad, the construction crew hit a buried fiberglass flowline for the Turner B #7 well. Construction crew had conducted a required 811 call; Linn Operating had cleared all their lines in the area but had failed to flag the active flowline from the Turner B 7. As a result, Linn Operating is taking responsibility for the spill and spill cleanup. TG.

ACTION TO CONTROL (REMARKS):

08/01/11--well shut in.

GENERAL (REMARKS):

ACTION TAKEN TO PREVENT (REMARKS):

DAMAGE DESCRIPTION (REMARKS):

08/01/11--.03 acres of stockpiled topsoil contaminated.

EXTENT OF PERSONAL INJURY (REMARKS):

INSPECTION REMARKS:

08/01/11--received notification of spill on this location from Dennis Potter, Linn Energy. During construction of Apache drilling pad for the Lee Federal 42, the construction crew dug into a Linn Operating buried fiberglass flowline off the northwest corner of the well pad. Line was in the west portion of the topsoil stock pile. An appropriate 811 call had been placed prior to building the pad (Hungry Horse contractor) and Linn had cleared all lines within the staked pad area, but had not cleared lines outside of that area. Line hit is just outside of staked well pad area. As a result, Linn Operating is taking the responsibility for the spill cleanup of this spill. No archeology issues due to clearance required for new pad. 08/03/11--onsite to assess spill. Pad is built. Spill is in the middle of the topsoil stockpile on western side. Whoever excavated the line, picked up the spill slop and dumped up on the topsoil stockpile above the spill, thereby contaminating a great deal of viable topsoil. Line has been repaired. GPS'd spill perimeter; perimeter includes contaminated portion of topsoil stockpile. Need to speak to Potter about more careful placement of contaminated materials. TG. 08/11/11--well currently in drilling status. Linn will probably delay spill remediation until drilling rig moved off location. Called Potter to see which Linn Operating well he wanted to tie this spill to; he said the Turner B #7. Undesirable Event number 11NU108TG. TG.

**UNITED STATES DEPARTMENT OF THE INTERIOR**  
**Bureau of Land Management**  
**UNDESIRABLE EVENT INSPECTION FORM**

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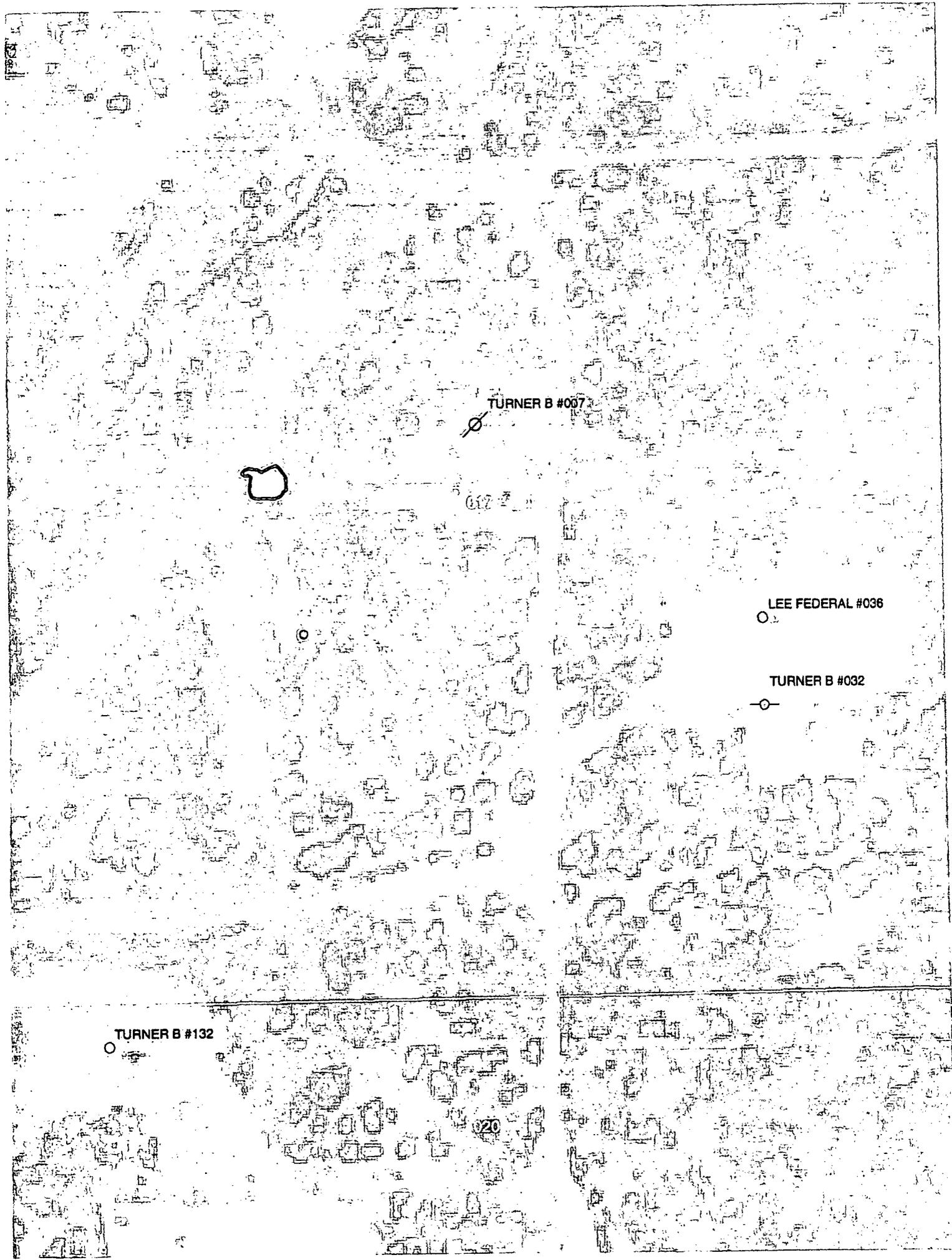
SUMMARY OF RESULTS OF RECLAMATION/CORRECTIVE ACTION:

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FOLLOW-UP REQUIREMENTS: (Circle any that apply)

NONE	VERBAL	LETTER	INC	NOTIFY P.E.T.	OTHER:
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TURNER B #007

LEE FEDERAL #036

TURNER B #032

TURNER B #132



012

020

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**SURFACE INSPECTION FORM**

Well Name: TURNER B		Well #: 7		API #: 300150518500S1		Well Status: WIW	
Footage: 660FSL 1980FEL	Alliquot: SWSE	Lot/Tract:	Section: 17	Twnship/Lat: 17S	Rng/Long: 31E	County: EDDY	State: NM
Case: NMLC029395B		Facility ID:		Associated Rights of Way:			
Lease: NMLC029395B	H2S Date:	H2S Gas Stream:		H2S Vapors:	H2S Radius:		
Hazard: Yes: HIGH H2S, 13945 PPM							
SME: BUREAU OF LAND MANAGEMENT		Operator Name: LINN OPERATING INCORPORATED					

Please be sure to complete for inspection

Inspector:		Company/SME Rep:			Phone #:		
Date:	Type:	Activity:	Office:	Travel:	Insp:		

**General Remarks:**

08/01/11--received notification of spill on this location from Dennis Potter, Linn Energy. During construction of Apache drilling pad for the Lee Federal 42, the construction crew dug into a Linn Operating buried fiberglass flowline off the northwest corner of the well pad. Line was in the west portion of the topsoil stock pile. An appropriate 811 call had been placed prior to building the pad (Hungry Horse contractor) and Linn had cleared all lines within the staked pad area, but had not cleared lines outside of that area. Line hit is just outside of staked well pad area. As a result, Linn Operating is taking the responsibility for the spill cleanup of this spill. No archeology issues due to clearance required for new pad. 08/03/11--onsite to assess spill. Pad is built. Spill is in the middle of the topsoil stockpile on western side. Whoever excavated the line, picked up the spill slop and dumped up on the topsoil stockpile above the spill, thereby contaminating a great deal of viable topsoil. Line has been repaired. GPS'd spill perimeter; perimeter includes contaminated portion of topsoil stockpile. Need to speak to Potter about more careful placement of contaminated materials. TG. 08/11/11--well currently in drilling status. Linn will probably delay spill remediation until drilling rig moved off location. Called Potter to see which Linn Operating well he wanted to tie this spill to; he said the Turner B #7. Undesirable Event number 11NU108TG. TG.

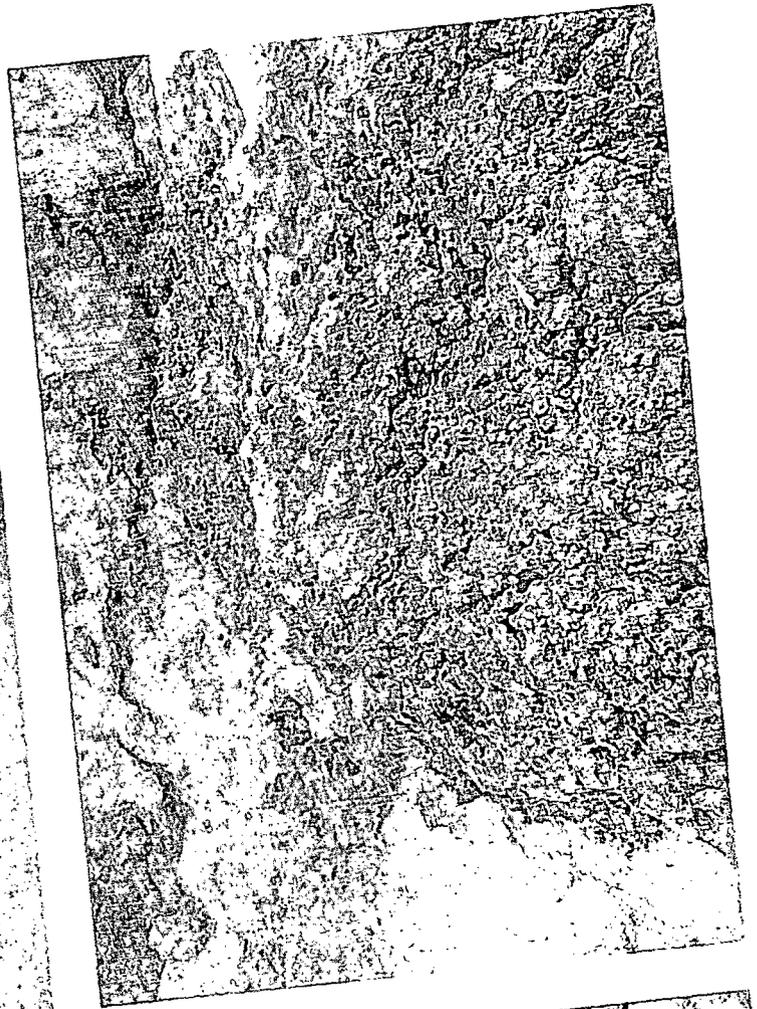
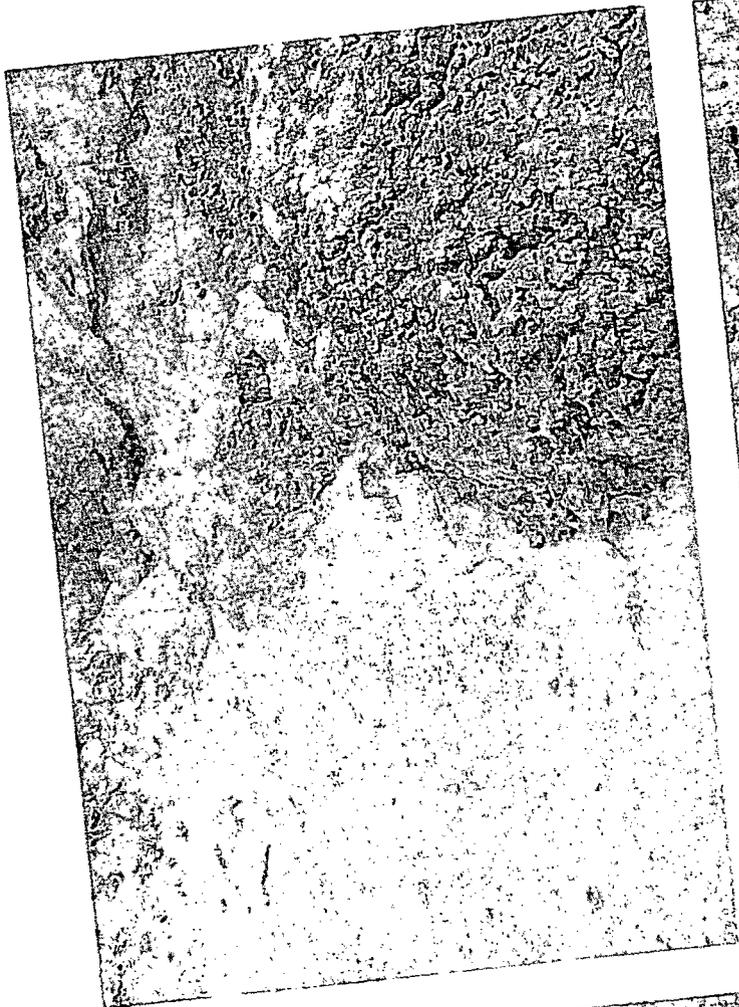
Author: TERRY GREGSTON

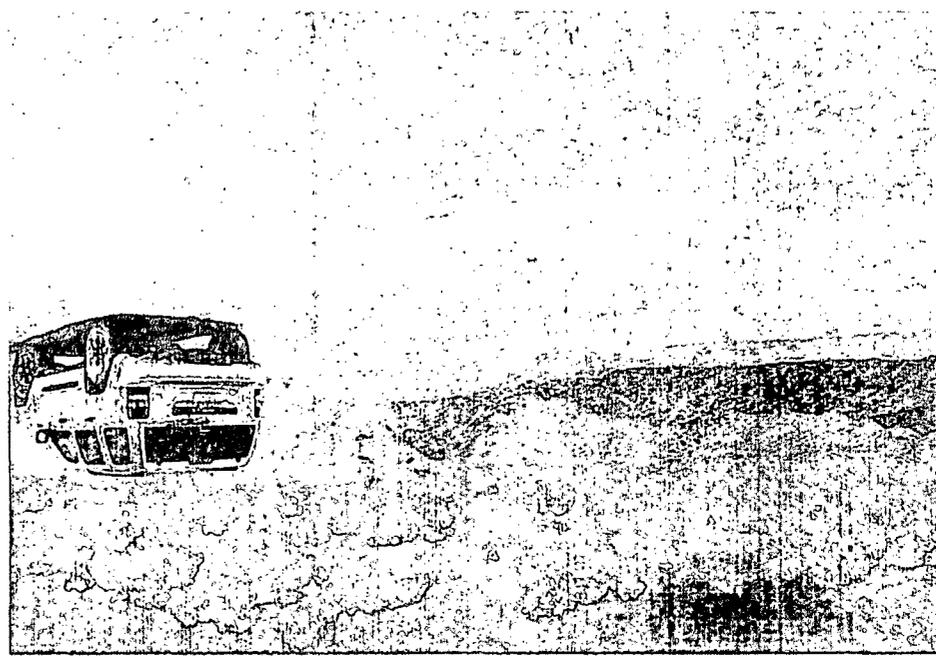
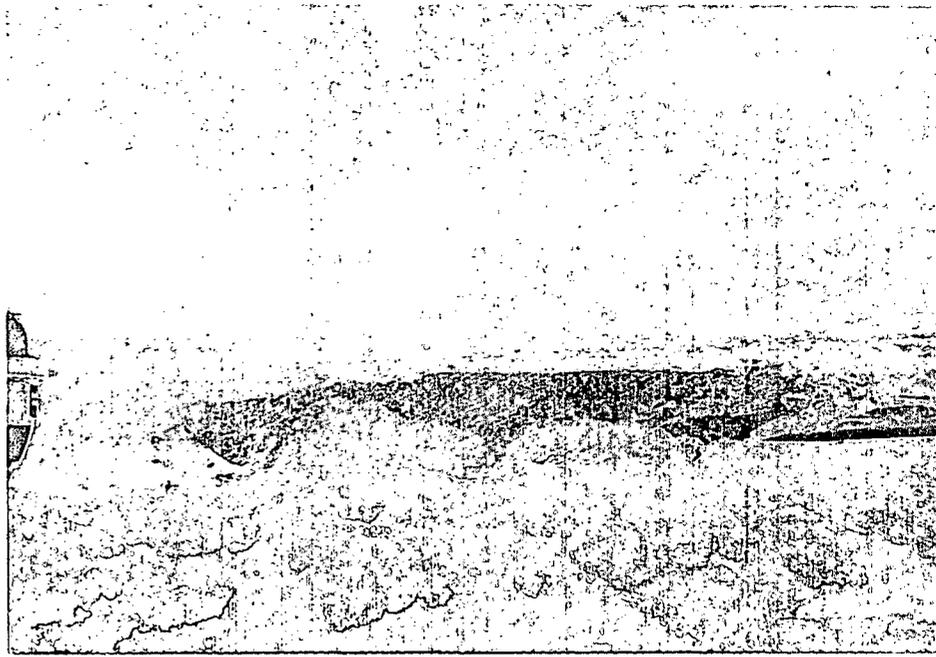
Date: 08/11/2011

Follow-up Requirements: (circle any that apply) NONE VERBAL LETTER INC NOTIFY PET

Follow-up Remarks:

CORRECT PROBLEM BY:	NEXT INSPECTION:
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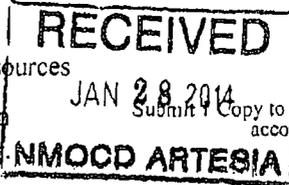




District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 Copy to appropriate District Office in accordance with 19.15.29 NMAC

**Release Notification and Corrective Action**

*nmlb1403652094* OPERATOR  Initial Report  Final Report

Name of Company: Linn Operating <i>269324</i>	Contact: Brian Wall
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: Turner B #7	Facility Type: Injection

Surface Owner: Federal	Mineral Owner:	API No.: 3001505185
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**LOCATION OF RELEASE**

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

Latitude: 32.8291123655792 Longitude: -103.889826027795

**NATURE OF RELEASE**

Type of Release: Produced Water	Volume of Release: 18 bbls	Volume Recovered: 15 bbls
Source of Release: 2" Fiberglass line	Date and Hour of Occurrence: 01/27/2014	Date and Hour of Discovery: 01/27/2014
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Burton-BLM Mike Bratcher- NM OCD	
By Whom? Brian Wall	Date and Hour 01/28/2014 0730	
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.\*: On Monday 1/27/14 Isidro Montez was making his morning rounds and I got a call that Diversified had hit a 2" Fiberglass injection line. Then I closed lateral valve that feeds that line to stop line from leaking. The line had been marked with yellow pin flags. It is the opinion of the operator that he didn't see the line. All liquid and contaminated soil was contained within the area were the clean up was taking place. A vacuum truck sucked up all residual liquid which were hauld off aprx 15bbls.

Describe Area Affected and Cleanup Action Taken.\* : Affected area is aprx 20'X20'. The spill was a fault of the contractor digging nearby. One call was turned in and Linn clearly marked site. Contractor is responsible for cleanup and cost.

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: <i>Brian Wall</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Brian Wall	Approved by District Supervisor: <i>Heard</i>	
Title: Construction Foreman II	Approval Date: <i>2-5-14</i>	Expiration Date:
E-mail Address: bwall@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 01/28/2013 Phone: 806-367-0645	Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	

\* Attach Additional Sheets If Necessary

3-5-14

*2RP-2176*

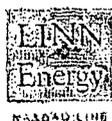
## Bratcher, Mike, EMNRD

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**From:** McCracken, Theresa <TMcCracken@linnenergy.com>  
**Sent:** Tuesday, January 28, 2014 8:43 AM  
**To:** mburton@blm.gov; Bratcher, Mike, EMNRD  
**Cc:** Callahan, Terry; Moreno, Laura; Butters, Thomas; Gonzales, EL; Wall, Fred; Hickert, Aaron; smcghee@diversifiedfsi.com; aruth@diversifiedfsi.com; mpatterson@diversifiedfsi.com  
**Subject:** Linn-Turner B #7 1-27-14  
**Attachments:** Turner 8 #7 Inj 1-27-14.pdf

Please find attached the initial C-141 for the above referenced location.

Thank you,



*Theresa McCracken*

Field Administrator

LINN Energy, LLC

2130 W Bender

Hobbs, NM 88240

T: 575-738-1739 / F: 575-738-1740

[tmccracken@linnenergy.com](mailto:tmccracken@linnenergy.com)

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# Appendix II

## SITE PHOTOGRAPHS

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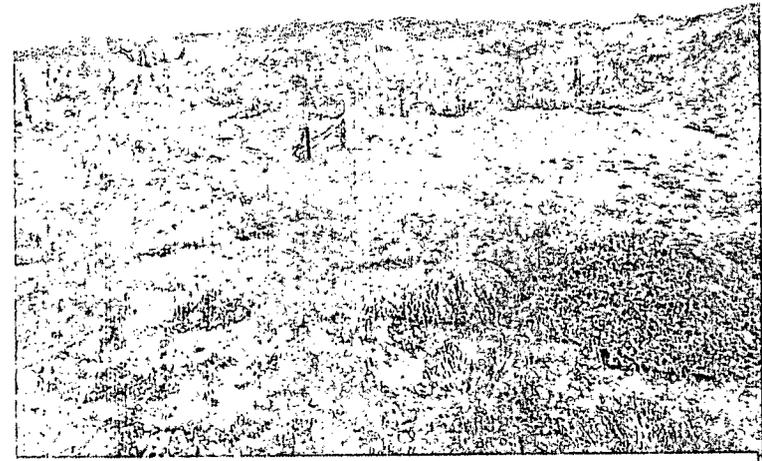
Diversified Field Service, Inc.  
3412 N. Dal Paso  
Hobbs, NM 88240  
(575) 964-8394

# Linn Energy Turner B #7

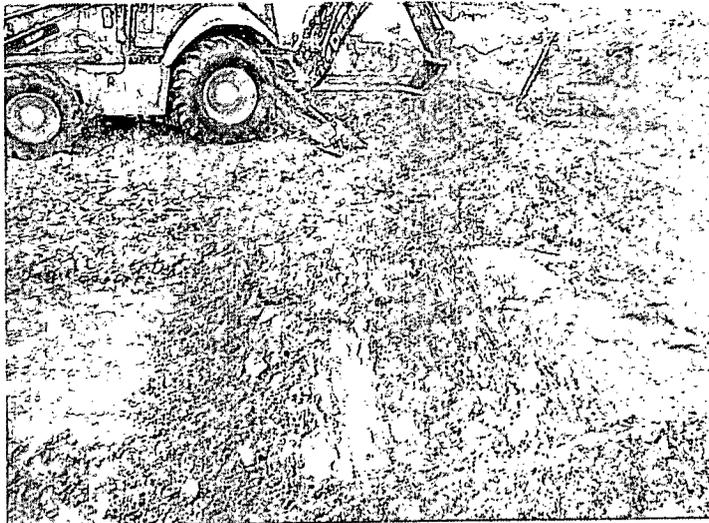
Unit O, Section 17, T17S R31E



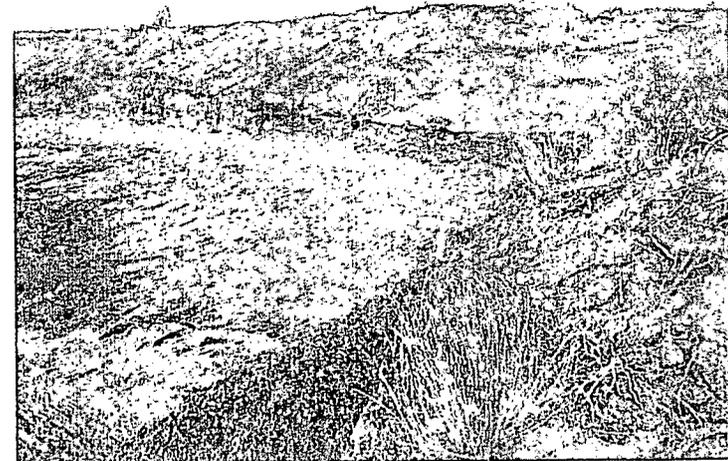
Sign marking location 8/02/13



Impacted Area-sample points 9/6/12



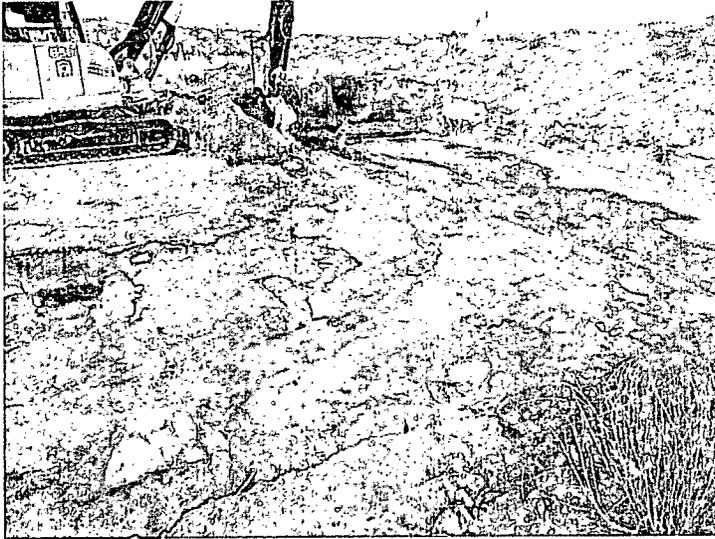
Excavation of impacted area 12/9/13



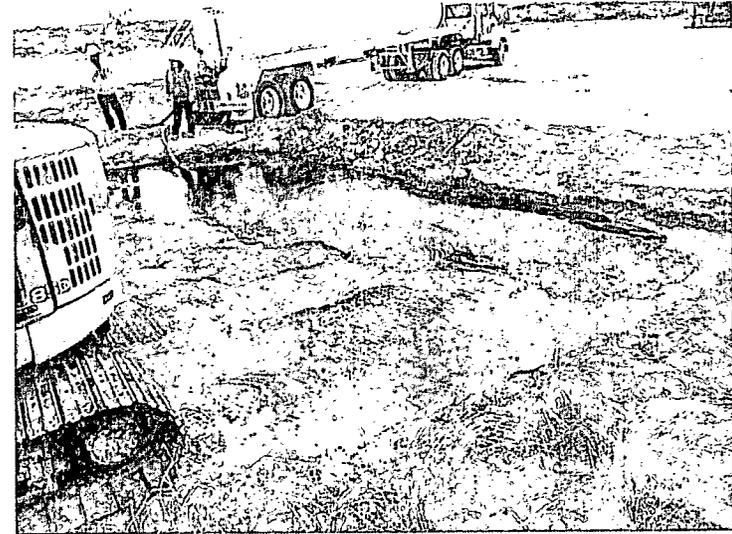
Excavated area 12/9/13

# Linn Energy Turner B #7

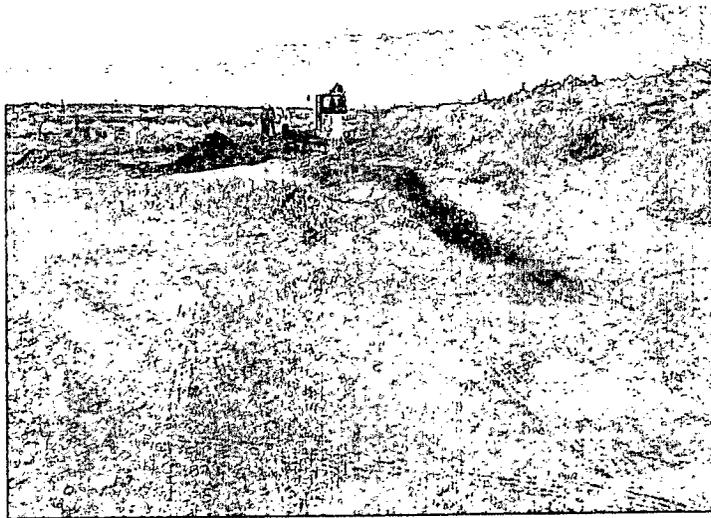
Unit Letter O, Section 17, T17S R31E



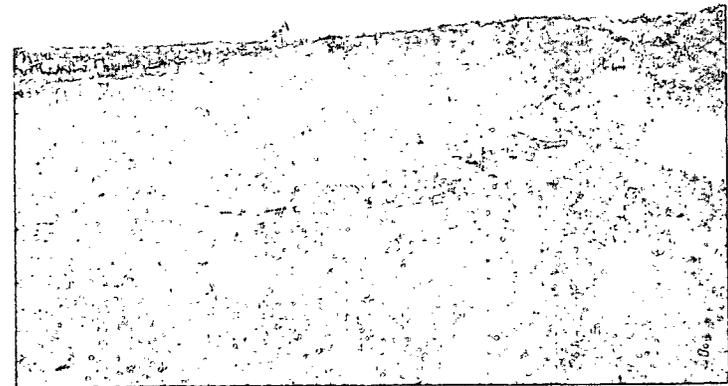
Subsequent line strike 1/27/14



Vacuumed spill 1/27/14



Scraping impacted pad area 1/28/14



Backfilled and seeded area 02/05/14

# Appendix III

## GROUNDWATER DATA

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Diversified Field Service, Inc.  
3412 N. Dal Paso  
Hobbs, NM 88240  
(575) 964-8394

# GROUND WATER SEARCH

Linn Energy Turner B #7

UL:   0        Sec:   17        T:   17S        R:   31E  

Groundwater Depth:                   236                   ft. averaged

- = NM Office of the State Engineer
- ◐ = U.S. Geological Survey (unknown well)
- ✕ = Site Location

Date: 12/18/13  
By: Amy Ruth

	<b>16S 30E</b>	<b>16S 31E</b>	<b>16S 32E</b>
	<b>17S 30E</b>	<b>✕ 17S 31E</b>	<b>17S 32E</b>
	<b>18S 30E</b>	<b>18S 31E</b>	<b>18S 32E</b>

65' 260'  
○ 265'  
○ 248' 275'  
○ 254' 215'  
○ 210' 210'  
○ 221'  
○ 200'

288' ○  
314' ○  
295' ○

○ 132'

○ 65'  
○ 430'  
○ 460'

○ 44'

○ 98'



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*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

---

No records found.

PLSS Search:

Township 18S Range 30E

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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.

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4/29/13 12:38 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# 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	Sub-	Code	basin	County	Q	Q	Q	Sec	Tws	Range	X	Y	Depth Well	Depth Water	Water Column
<u>L 03435</u>		L	LE		1	1	05	16S	31E		602954	3646955'			
<u>L 03852</u>	R	L	LE		2	2	14	16S	31E		609126	3643913'	370	314	56
<u>L 03852 POD4</u>		L	LE		3	4	13	16S	31E		609744	3642516'	333	299	34
<u>L 03852 POD5</u>		L	LE		3	2	13	16S	31E		610233	3643427'	328	295	33
<u>L 03852 X</u>	R	L	LE		4	4	13	16S	31E		610749	3642526'	333	295	34
<u>L 03852 X2</u>		L	LE		3	2	13	16S	31E		610536	3643733'	330	287	43
<u>L 04671</u>		L	LE		1	1	12	16S	31E		610114	3645538'	340	288	52
<u>L 10203</u>		L	LE		4	4	14	16S	31E		608334	3642495'	310		
<u>L 10206</u>		L	LE		2	2	23	16S	31E		609045	3642204'	280		

Average Depth to Water: 297 feet  
Minimum Depth: 287 feet  
Maximum Depth: 314 feet

Record Count: 9

PLSS Search:

Township 16S Range 31E

\*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.



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	q q q	Sec	Tws	Rng	X	Y
L 03435	L	PRO	0	LOWE DRILLING COMPANY	LE	L 03435		Shallow	1	1	05	16S 31E	602954	3646955

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

**Record Count:** 1

**POD Search:**

POD Number: L 03435

**Sorted by:** File Number

\*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.



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source		q q q			X	Y
									6416	4	Sec	Tws	Rng		
<u>L 03852</u>	L	MUN	375	CITY OF CARLSBAD	LE	<u>L 03852</u>		R	Shallow	2 2 2	14	16S	31E	609126	3643913
					LE	<u>L 03852 POD4</u>			Shallow	3 4 3	13	16S	31E	609744	3642516
					LE	<u>L 03852 POD5</u>		R	Shallow	3 2	13	16S	31E	610238	3643427
					LE	<u>L 03852 POD6</u>				3 2	13	16S	31E	610390	3643476
					LE	<u>L 03852 X</u>		R	Shallow	4 4 4	13	16S	31E	610749	3642526
					LE	<u>L 03852 X2</u>			Shallow	3 2 2	13	16S	31E	610535	3643733

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

**Record Count:** 6

**POD Search:**

POD Number: L 03852

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin Use Diversion Owner	County	POD Number	Code Grant	Source				X	Y	
					q	q	q	q			
L 04671	L PRO 0 JOHN H. TRIGG	LE	L 04671		6416	4	12	16S	31E	610114	3645538

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

**Record Count:** 1

**POD Search:**

POD Number: L 04671

**Sorted by:** File Number

\*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.



# 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

(quarters are 1=NW 2=NE 3=SW 4=SE)  
closed) (quarters are smallest to largest) (NAD83 UTM in meters)

(in feet)

POD Number	POD Sub-Code	basin	County	64	15	4	Q	Q	Q	Q	Sec	Tws	Range	X	Y	Depth Well	Depth Water	Water Column
L 02381	L	LE		3	1	13	16S	32E						619086	3643515'	308	215	93
L 02434	L	LE				01	16S	32E						619661	3646531'	337		
L 02449	L	LE				01	16S	32E						619661	3646531'	330	265	65
L 02617	L	LE		4	4	02	16S	32E						618656	3646924'	322	270	52
L 02752	L	LE		1	3	26	16S	32E						617321	3639880'	324	280	44
L 02846	L	LE		4	2	11	16S	32E						617956	3646410'	328	275	53
L 02954	L	LE		2	4	03	16S	32E						617043	3646310'	120	65	55
L 02993	L	LE		3	3	21	16S	32E						618572	3643991'	100		
L 03631	L	LE		1	2	02	16S	32E						618240	3647126'	315	250	65
L 04930	L	LE				23	16S	32E						617698	3642092'	307	210	97
L 05494	L	LE				36	16S	32E						619758	3638489'	303	200	103
L 06557	L	LE				4	21	16S	32E					615089	3641466'	295	210	85
L 06807	L	LE		1	4	4	09	16S	32E					615356	3644383'	290	248	42
L 07823	L	LE		2	2	2	16	16S	32E					615561	3643981'	269	247	22
L 08084	L	LE				1	16	16S	32E					614157	3643970'	317	260	57
L 08084 POD4	L	LE				2	26	16S	32E					618522	3640492'	303	233	70
L 08084 POD5	L	LE		4	1	4	25	16S	32E					618425	3639790'	296	165	131
L 08084 S3	L	LE				2	26	16S	32E					618522	3640492'	305	205	100
L 08241	L	LE		4	4	32	16S	32E						618656	3646924'	316		
L 10204	L	LE		4	2	2	04	16S	32E					615524	3646393'	319		
L 10205	L	LE		4	1	08	16S	32E						613038	3645066'	330		
L 11189	L	LE		1	1	4	04	16S	32E					614932	3646391'	350		

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416	4	Sec	Tws	Rng	X	Y
L 02381		L	PRO		0 GULF REFINING COMPANY	LE	L 02381			Shallow	3	1	13	16S	32E	619086	3643515*

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

**Record Count:** 1

**POD Search:**

POD Number: L 02381

Sorted by: File Number

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin Use Diversion Owner	County	POD Number	Code Grant	Location				X	Y
					Source	6416 4	Sec	Tws		
L 02449	L PRO 0 PLYMOUTH OIL COMPANY	LE	L 02449		Shallow	01	16S	32E	619661	3646531

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

q q q

**Record Count:** 1

**POD Search:**

POD Number: L 02449

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
L 02617	L	PRO	0	GULF OIL CORPORATION	LE	L 02617			Shallow	4	4	02	16S	32E		618656	3645924

**Record Count:** 1

**POD Search:**

POD Number: L 02617

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	UTM (meters)				X	Y	
										q	q	q	q			
L 02752	L	DOL	3	W W WILLIAMS	LE	L 02752			Shallow	1	3	26	16S	32E	617521	3639880

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

**Record Count:** 1

**POD Search:**

POD Number: L 02752

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
L 02846	L	PRO		0	CONTINENTAL OIL COMPANY	LE	L 02846			Shallow	4	2	1	11	16S	32E	617956	3645413

**Record Count:** 1

**POD Search:**

POD Number: L 02846

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source				X	Y		
										q	q	q	q				
L 02954	L	PRO	0	SCHOENFELD-HUNTER-KITCH DRG	LE	L 02954				Shallow	2	4	03	16S	32E	617043	3646310*

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

**Record Count:** 1

**POD Search:**

POD Number: L 02954

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
L 03631	L	PRO		0 MAGNOLIA PETROLEUM COMPANY	LE	L 03631			Shallow	1	2	02	16S	32E		618240	3647126

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

**Record Count:** 1

**POD Search:**

POD Number: L 03631

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	Location (NAD83 UTM in meters)						
										q	q	q	q	X	Y	
L 04930	L	STK	3	JULIA WILLIAMS	LE	L 04930			Shallow	6416	4	23	16S	32E	617698	3642092

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest)

**Record Count:** 1

**POD Search:**

POD Number: L 04930

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant					X	Y
									Source	6416 4	Sec	Tws		
L 05494	L	COM	165	CITY OF CARLSBAD	LE	L 05494			Shallow	36	16S	32E	619758	3638489

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

**Record Count:** 1

**POD Search:**

POD Number: L 05494

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
L 06557	L	STK	3	TAYLOR CATTLE COMPANY	L.E.	L 06557			Shallow	1	4	21	16S	32E		615089	3641466

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

**Record Count:** 1

**POD Search:**

POD Number: L 06557

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
L 06807	L	PRO		0 SHARP DRILLING COMPANY	LE	L 06807			Shallow	1	4	4	09	16S	32E	615356	3644383'

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

**Record Count:** 1

**POD Search:**

POD Number: L 06807

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
L 07823	L	PRO		O E R WEST ENGINEERING	LE	L 07823			Shallow	2	2	2	16	16S	32E	615561	3643981

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

**Record Count:** 1

**POD Search:**

POD Number: L 07823

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	(acre ft per annum)				(NAD83 UTM in meters)			
										6	4	16	32E	X	Y		
<u>L 08084</u>	L	COM	750	MOR-WEST CORPORATION	LE	<u>L 08084</u>			Shallow	1	1	16	16S	32E	614157	3643970*	
					LE	<u>L 08084</u> POD4			Shallow	2	26	16S	32E	618522	3640492*		
					LE	<u>L 08084</u> POD5			Shallow	4	1	4	26	16S	32E	618425	3639788*
					LE	<u>L 08084</u> S	R		Shallow	2	1	1	36	16S	32E	619239	3639192*
					LE	<u>L 08084</u> S2	R		Shallow	3	1	1	36	16S	32E	619039	3638992*
					LE	<u>L 08084</u> S3			Shallow	2	26	16S	32E	618522	3640492*		

(R=POD has been replaced and no longer serves this file.  
C=the file is closed)

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

(quarters are smallest to largest)

**Record Count:** 6

**POD Search:**

POD Number: L 08084

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416	4	Sec	Tws	Rng	X	Y
L 08084	L	COM	750	MOR-WEST CORPORATION	LE	L 08084 S3				Shallow	2	26	16S	32E	618522	3640492'	

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)  
 q q q

**Record Count:** 1

**POD Search:**

POD Number: L 08084 S3

**Sorted by:** File Number

\*UTM location was derived from PLSS - see Help

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Record Count: 22

PLSS Search:

Township 16S

Range 32E

Average Depth to Water: 224 feet

Minimum Depth: 65 feet

Maximum Depth: 280 feet



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*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

---

No records found.

PLSS Search:

Township 17S      Range 30E

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WATER COLUMN, AVERAGE  
DEPTH TO WATER



# 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	POD		Q Q Q				X	Y	Depth Well	Depth Water Column	
	Sub-	Code	basin	County	64	16					4
<u>RA 11590 POD1</u>		ED	2	1	3	32	17S	31E	603315	3628545	158
<u>RA 11590 POD3</u>		ED	3	1	2	32	17S	31E	603932	3629260	80
<u>RA 11590 POD4</u>		ED	4	1	1	32	17S	31E	603308	3629253	55

Average Depth to Water: --  
Minimum Depth: --  
Maximum Depth: --

Record Count: 3

PLSS Search:

Township 17S Range 31E

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.



# 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	Sub-Code	basin	County	Q 64	Q 15	Q 4	Sec	Tws	Ring	X	Y	Depth Well	Depth Water	Water Column
<u>L 04019</u>	L	LE		4	3	4	02	17S	32E	618468	3636166*	182		
<u>L 04020</u>	L	LE		3	3	4	02	17S	32E	618258	3636166*	200		
<u>L 04021</u>	R	L	LE	3	4	4	02	17S	32E	618670	3636170*	190		
<u>L 04021 POD3</u>	L	LE			3	4	03	17S	32E	616761	3636252*	247		
<u>L 04021 S</u>	L	LE		2	4	4	03	17S	32E	617262	3636354*	260		
<u>L 13047 POD1</u>	L	LE					11	17S	32E	619137	3635254*	140		
<u>L 13050 POD1</u>	L	LE		2	2	1	10	17S	32E	616463	3635945*	156	132	24
<u>RA 08855</u>		LE		4	1	1	10	17S	32E	616061	3635742*	168		
<u>RA 09505</u>		LE		2	2	1	10	17S	32E	616462	3635944*	147		
<u>RA 09505 S</u>		LE		2	2	1	10	17S	32E	616463	3635945*	144		
<u>RA 10175</u>		LE			2	1	23	17S	32E	614814	3631005*	158		
<u>RA 11684 POD1</u>		LE		1	1	4	11	17S	32E	618216	3636124*	275		
<u>RA 11684 POD2</u>		LE		1	1	4	11	17S	32E	618313	3635248*	275		
<u>RA 11684 POD3</u>		LE		3	3	1	11	17S	32E	618262	3635371*	275		
<u>RA 11684 POD4</u>		LE		1	3	2	11	17S	32E	618334	3635521*	275		
<u>RA 11684 POD5</u>		LE		3	1	4	11	17S	32E	618353	3635047*	275		
<u>RA 11734 POD1</u>		LE		2	2	1	10	17S	32E	616556	3635929*	155		

Average Depth to Water: 132 feet  
Minimum Depth: 132 feet  
Maximum Depth: 132 feet

Record Count: 17

PLSS Search:

Township: 17S Range: 32E

\*UTM location was derived from PLSS - see Help

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



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*New Mexico Office of the State Engineer*  
**Active & Inactive Points of Diversion**  
(with Ownership Information)

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No PODs found.

**POD Search:**

POD Number: L 13050 1

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ACTIVE & INACTIVE POINTS OF DIVERSION



# 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 (quarters are 1=NW 2=NE 3=SW 4=SE)  
closed) (quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q	Q	Q	Sec	Tws	Range	X	Y	Depth Well	Depth Water	Water Column
CP 00818	LE			1	4	26	18S	30E		599289	3620364*	240		
CP 00819	LE			2	4	32	18S	30E		594878	3618720*	150		
L 01978	L LE			1	3	23	18S	30E		598469	3621964*	65	44	21

Average Depth to Water: 44 feet  
Minimum Depth: 44 feet  
Maximum Depth: 44 feet

Record Count: 3

PLSS Search:

Township 18S Range 30E

\*UTM location was derived from PLSS - see Help

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# 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	Sub-Code	basin	County	Q Q Q			Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
				64	18	4								
L 11092	L	LE		2	3	15	18S	31E	606849	3623669*	93	150	98	62

Average Depth to Water: 93 feet  
 Minimum Depth: 93 feet  
 Maximum Depth: 93 feet

Record Count: 1

PLSS Search:

Township 18S Range 31E

\*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.



# 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	POD Sub-Code	basin	County	Q1	Q2	Q3	Q4	Sec	Tws	Range	X	Y	Depth Wall	Depth Water	Water Column
CP 00566		LE	4	4	1	04	18S	32E			614960	3627290*	133	65	68
CP 00672		LE	4	4	07	18S	32E				612475	3624947*	524	430	94
CP 00672 CLW475398	O	LE	4	4	07	18S	32E				612475	3624947*	540	460	80
CP 00677		LE	1	1	25	18S	32E				617750	3621373*	700		

Average Depth to Water: 313 feet  
Minimum Depth: 55 feet  
Maximum Depth: 460 feet

Record Count: 4

PLSS Search:

Township 18S Range 32E

\*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.



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*New Mexico Office of the State Engineer*  
**Active & Inactive Points of Diversion**  
(with Ownership Information)

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No PODs found.

POD Search:

POD Number: CP 00672 CLW475398

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12/18/13 2:46 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced and no longer serves this file. (quarters are 1=NW 2=NE 3=SW 4=SE)  
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	q q q	Sec	Tws	Rng	X	Y
CP 00677		PRO		O T X O PROD.	LE	CP 00677		6416 4	1 1	26	18S	32E	617750	3621373'

**Record Count:** 1

**POD Search:**

POD Number: CP 00677

**Sorted by:** File Number

\*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.

# Appendix IV

## LABORATORY ANALYSES

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Diversified Field Service, Inc.  
3412 N. Dal Paso  
Hobbs, NM 88240  
(575) 964-8394



November 06, 2013

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: TURNER B #7

Enclosed are the results of analyses for samples received by the laboratory on 10/31/13 13:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 10/31/2013  
 Reported: 11/06/2013  
 Project Name: TURNER B #7  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/31/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 SURFACE (H302656-01)**

BTEX 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	11/05/2013	ND	1.90	94.9	2.00	2.12		
Toluene*	<0.050	0.050	11/05/2013	ND	1.89	94.7	2.00	2.22		
Ethylbenzene*	<0.050	0.050	11/05/2013	ND	1.90	95.2	2.00	2.41		
Total Xylenes*	<0.150	0.150	11/05/2013	ND	5.57	92.9	6.00	2.39		
Total BTEX	<0.300	0.300	11/05/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6480	16.0	11/01/2013	ND	400	100	400	0.00		

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	11/01/2013	ND	175	87.6	200	8.35		
DRO >C10-C28	25.2	10.0	11/01/2013	ND	165	82.6	200	10.0		

Surrogate: 1-Chlorooctane 74.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 78.4 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 10/31/2013  
 Reported: 11/06/2013  
 Project Name: TURNER B #7  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/31/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 SURFACE (H302656-02)**

BTEX 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	11/05/2013	ND	1.90	94.9	2.00	2.12		
Toluene*	<0.050	0.050	11/05/2013	ND	1.89	94.7	2.00	2.22		
Ethylbenzene*	<0.050	0.050	11/05/2013	ND	1.90	95.2	2.00	2.41		
Total Xylenes*	<0.150	0.150	11/05/2013	ND	5.57	92.9	6.00	2.39		
Total BTEX	<0.300	0.300	11/05/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	11/01/2013	ND	400	100	400	0.00		

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	11/01/2013	ND	175	87.6	200	8.35		
DRO >C10-C28	<10.0	10.0	11/01/2013	ND	165	82.6	200	10.0		

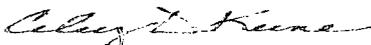
Surrogate: 1-Chlorooctane 89.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.2 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

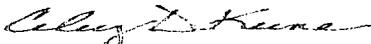
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

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\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: <u>Lean Energy</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																					
Project Manager: <u>Brian Wall</u>		P.O. #:																							
Address:		Company:																							
City:	State:	Zip:	Attn:																						
Phone #:	Fax #:		Address:																						
Project #:	Project Owner:		City:																						
Project Name: <u>Turner #7</u>	State:		Zip:																						
Project Location: <u>Eddie County</u>	Phone #:																								
Sampler Name: <u>Luis Gonzalez</u>	Fax #:																								
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(O/RAB OR (C)OMP. # CONTAINERS	MATRIX													PRESERV.	SAMPLING								
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
<u>H302656</u>																									
	<u>1 SP1 Surface</u>	<u>3/1</u>			<input checked="" type="checkbox"/>							<u>10/31/13</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
	<u>2 SP2 Surface</u>	<u>3/1</u>			<input checked="" type="checkbox"/>							<u>10/31/13</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										

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.

Relinquished By: <u>Luis Gonzalez</u>	Date: <u>10/21/13</u> Time: <u>1:50</u>	Received By: <u>Jodi Hanson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>JAH</u>		

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

#34

November 14, 2013

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: TURNER B #7

Enclosed are the results of analyses for samples received by the laboratory on 11/08/13 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 LINN ENERGY  
 BRIAN WALL  
 RR1, BOX 24 B  
 KINGFISHER OK, 73750  
 Fax To: (405) 375-6693

Received:	11/08/2013	Sampling Date:	11/06/2013
Reported:	11/14/2013	Sampling Type:	Soil
Project Name:	TURNER B #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 11 (H302739-01)**

BTEX 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	11/13/2013	ND	1.66	83.0	2.00	12.6		
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8		
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6		
Total BTEX	<0.300	0.300	11/13/2013	ND						

*Surrogate: 4-Bromofluorobenzene (PIC) 105 % 89.4-126*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>432</b>	16.0	11/13/2013	ND	400	100	400	3.92		

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	11/12/2013	ND	199	99.4	200	7.54		
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	186	92.9	200	7.14		

*Surrogate: 1-Chlorooctane 94.9 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 109 % 63.6-154*

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 LINN ENERGY  
 BRIAN WALL  
 RR1, BOX 24 B  
 KINGFISHER OK, 73750  
 Fax To: (405) 375-6693

 Received: 11/08/2013  
 Reported: 11/14/2013  
 Project Name: TURNER B #7  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 11/07/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 3 (H302739-02)**

BTEX 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	11/13/2013	ND	1.66	83.0	2.00	12.6		
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8		
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6		
Total BTEX	<0.300	0.300	11/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	11/13/2013	ND	400	100	400	3.92		

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	11/12/2013	ND	199	99.4	200	7.54		
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	186	92.9	200	7.14		

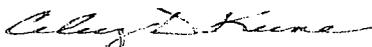
Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

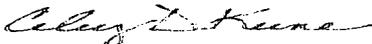
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: <i>Linn energy</i>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>													
Project Manager: <i>Brian Wall</i>		P.O. #:															
Address:		Company:															
City:	State:	Zip:	Attn:														
Phone #:	Fax #:		Address:														
Project #:	Project Owner:		City: <i>same</i>														
Project Name: <i>TURNER B#2</i>			State:														
Project Location:			Zip:														
Sampler Name: <i>Miguel Gomez</i>			Phone #:														
		Fax #:															
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	CHLORIDE	TPH	BTEX
<i>H302739</i>																	
<i>1</i>	<i>SR1 @ 11</i>	<i>4</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-6-13</i>	<i>2:59</i>	<i>X</i>	<i>X</i>	<i>X</i>
<i>2</i>	<i>SR2 @ 3</i>	<i>4</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11-7-13</i>	<i>7:15</i>	<i>X</i>	<i>X</i>	<i>X</i>

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.

Relinquished By:	Date: <i>11/8/13</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Miguel Gomez</i>	Time: <i>4:00</i>	<i>Jodi Jensen</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		<i>Bwall@Linnenergy.com</i>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	<i>ARuth@diversifiedFSL.com</i>	
Sampler - UPS - Bus - Other: <i>2.42</i>	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	<i>[Signature]</i>		
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #54

# Appendix V

## CORRESPONDENCE

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Diversified Field Service, Inc.  
3412 N. Dal Paso  
Hobbs, NM 88240  
(575) 964-8394

Turner B7

Lmm

1-27-14

Sample ID	g soil	g water	mL sample	Agar 3	CL	ATD	Time
SPI 0 <del>1" 1"</del>	16	40	10	0.9	224	0.5	11:50
SPI 0 <del>1" 1"</del>	16	40	10	1.7	4248	0.6	11:55
SPI 0 <del>1" 1"</del>	16	40	10	0.9	224	2.4	
SPI 0 <del>1" 1"</del>	16	40	10	.08	199	44.5	12:00
SPI 0 1"	16	40	10	.09	224	1.8	12:30

# Appendix VI

FINAL FORM C-141

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Diversified Field Service, Inc.  
3412 N. Dal Paso  
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 Operating, Inc.	Contact: Brian Wall
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No. 575-738-1739
Facility Name: Turner B #7	Facility Type: Injection
Surface Owner Federal	Mineral Owner Federal
API No. 30-015-05185	

**LOCATION OF RELEASE**

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

Latitude 32.8291123655792 Longitude -103.889826027795

**NATURE OF RELEASE**

Type of Release: Produced water	Volume of Release 18 bbls	Volume Recovered 15 bbls
Source of Release: 1" fiberglass line	Date and Hour of Occurrence 01/27/2014	Date and Hour of Discovery 01/27/2014 unknown
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher NMOCD - Mike Burton BLM	
By Whom? Brian Wall	Date and Hour: 01/28/2014 0730	
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.* NA		
Describe Cause of Problem and Remedial Action Taken.* DFSI struck a 2" fiberglass injection line. The construction foreman closed the lateral valve to prevent further leakage. The spill was contained within the previously excavated area. A vacuum truck was utilized to remove all residual fluids. There was 15 bbls of fluids removed.		
Describe Area Affected and Cleanup Action Taken.* Residual fluids remained in the previously excavated area. DFSI scraped, lined and backfilled the area, contouring to the landscape and seeding restoring the site to its natural and reclaimed state per BLM guidelines. The impacted soils were removed to an NMOCD approved facility.		
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: <i>Fred B Wall</i>	Approved by Environmental Specialist:	
Printed Name: Brian Wall	Approval Date:	Expiration Date:
Title: Construction Foreman II	Conditions of Approval:	
E-mail Address: bwall@linenergy.com	Attached <input type="checkbox"/>	
Date: 05/23/2014 Phone: 806-367-0645		

\* Attach Additional Sheets If Necessary

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
JUN 04 2014  
RECEIVED