



# Linn Energy Turner B #44

## CLOSURE REPORT

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BLM Event #NU13059TG

API No. 30-015-505311

**2RP-1488**

Release Date: 2/17/2012

Unit Letter N, Section 20, Township 17 South, Range 31 East

**May 15, 2014**

**Prepared by:**

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

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- 2 Site Activities
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Figure – Site Diagram with Sample Data

## APPENDICES

Appendix I – Initial Form C-141

Appendix II – Site Photographs

Appendix III – Groundwater Data

Appendix IV – Laboratory Analyses

Appendix V – Seed Report

Appendix VI – Correspondence

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# Turner B #44

## 1 INTRODUCTION

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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 'N', sec. 20, T17S R31E, in Eddy County. The leak resulted from a buried 2" injection line, whereby 64 bbls of produced water traversed into pasture area. There was an impact to pasture area of approximately 6,951 sq. ft. (Figure).

A form C-141 was submitted to the NMOCD on January 14, 2013 (RP-1488). (Appendix I)

## 2 SITE ACTIVITIES

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On August 26, 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 injection line as can be seen in photos. Furthermore sidewall and bottom confirmation samples were submitted to a commercial laboratory (Appendix VI).

On September 04, 2013 DFSI personnel revisited the site and established five sample points, and collected surface soil samples. Using a hand auger and Mini RAE Photoionization Detector (PID), the site was delineated at 1ft. bgs. intervals until Chloride analyses returned acceptable levels. However at SP1, 13ft. bgs. auger refusal was encountered, Chlorides returned at 1949 mg/kg, therefore a soil bore was arranged. The samples were submitted to a commercial laboratory for chloride, TPH, and BTEX analyses (Appendix IV).

Photographs of site activities can be viewed in Appendix II.

On February 17, 2014 a soil bore representative sample was retrieved and sent to a commercial laboratory for analysis of chlorides, GRO, DRO, and BTEX. At 35 ft. bgs. the lab returned results of chlorides at 560 mg/kg all other constituents were non detect.

On March 05, 2014 DFSI personnel revisited the site to further delineate sample points 2 thru 5 respectively. At depths of 2 to 3 ft. bgs. chlorides returned at levels below 275 mg/kg.

On March 07, 2014 DFSI submitted a request to NMOCD and NM BLM to line the excavation at 4 ft. bgs. with a 20 mil liner, and backfill with clean topsoil, blend, till and seed. On March 25, 2014 the excavation was backfilled with imported topsoil and the site was contoured to the surrounding landscape. DFSI personnel then seeded with 100 lbs. of native vegetation seed mix per BLM requirements (Appendix V).

### **3 CONCLUSION**







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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 220 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 VII), and respectfully requests the closure of the regulatory file for the site.



# Excavation Plat

## Legend

-  Sample Points
-  Soil Bores
-  Source
-  Above Ground Line
-  Buried Line
-  Spill

**Linn Turner B 44**

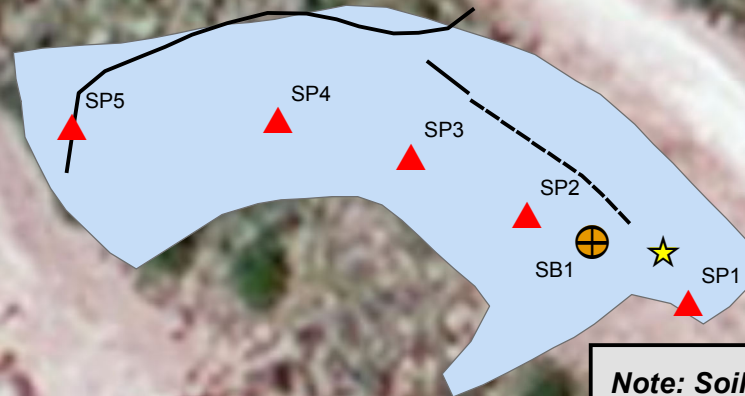
UL/N, Sec 20, T17S R31E

**Eddy County, NM**

*Drafted By: Lance Crenshaw, 02/26/2014*

*Not to Scale*

**Excavated Area:  
6,951 sq. ft.**



**Note: Soil bore (SB1) was moved from SP1 because drilling rig had no access due to the presence of valve boxes.**

**Lance Crenshaw**  
GIS Technician

Soil Remediation and Ground Water Remediation  
Environmental Assessments  
Regulatory Compliance



**Environmental**

**DFS**

**Services**

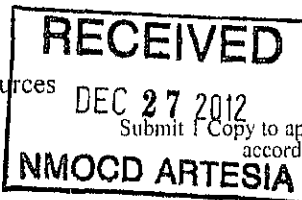
Office: 575-964-8394  
Fax: 575-964-8396

Cell: 575-441-2359  
Email: [lcrenshaw@diversifiedfsi.com](mailto:lcrenshaw@diversifiedfsi.com)

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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

### Release Notification and Corrective Action

nJMW 1301453324

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Linn Operating 269324 Contact: Jose Hernandez  
Address: 2130 W. Bender Hobbs, NM 88240 Telephone No.: 575-738-1739  
Facility Name: Turner B # 44 Facility Type: Injection

Surface Owner: Federal Mineral Owner: Federal API No.: 3001505311

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	20	17S	31E	660	South	2055	West	Eddy

Latitude: 32.8146162112349 Longitude: -103.893767541586

#### NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 64 bbls	Volume Recovered: 0
Source of Release: Steel Pipeline	Date and Hour of Occurrence: 12/17/2012 2pm	Date and Hour of Discovery: 12/17/2012 2:30pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? M. Bratcher- NM OCD Terry Gregston-BLM	
By Whom? Jose Hernandez	Date and Hour 12/18/2012 10am	
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.\*: DROVE TO LOCATION DOING DAILY ROUTINE NE OF THE TURNER B #137 PROD WELL. WE HAVE TWO TIN HORNS W/ INJECTION VALVE NOTICE WATER COMING OUT FROM AROUND THEM, TURNED INJECTION LINE OFF TO STOP WATER LEAK.

Describe Area Affected and Cleanup Action Taken.\*: WATER RUNS N NW 40 FT WIDE X 100 FT LONG IN PASTURE.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC D 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 NMOC D 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, NMOC D 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:

Printed Name: Jose Hernandez

Approved by District Supervisor:

Signed By *Mike Bratcher*

Title: Production Foreman

Approval Date:

JAN 14 2013

Expiration Date:

E-mail Address: jhernandez@linenergy.com

Conditions of Approval:

Attached ☐

Date: 12/27/2012

Phone: 575-942-9492

\* Attach Additional Sheets If Necessary

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

February 14, 2013

2RP-1488



## Linn Energy Turner B #044

Unit Letter N, Section 20, T17S R31E



Sign marking location and spill area 9/14/13



Previously excavated 8/28/13



Spill location and excavation southwest corner 9/4/13



Drilling soil bore 2/17/14



# Linn Energy Turner B #044

Unit Letter N, Section 20, T17S R31E



Installation of liner 3/18/14



Backfill of lined area 3/18/14



Tilled and seeded area 4/3/14



Site at completion 4/3/14

# GROUND WATER SEARCH

Linn Energy Turner B #44

UL:     N    

Sec:     20    

T:     17S    

R:     31E    

Groundwater Depth:                     220~                     ft.

● = NM Office of the State Engineer

● = U.S. Geological Survey (unknown well)

✕ = Site Location

Date: 05/14/2014

By: Rebecca Pons

	16S 30E	288' 314' 16S 31E 295'	65' 260' 248' 275' 254' 215' 16S 32E 210' 210' 221' 200'	
	17S 30E 80'	✕ 17S 31E	132' 81' 17S 32E	
	18S 30E 44'	18S 31E	65' 430' 18S 32E 460'	



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

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No records found.

**PLSS Search:**

**Township:** 16S

**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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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	Water Column		
	Code	basin	County	64	16	4	Sec	Tws						Rng	
<a href="#">L 03435</a>	L	LE	1	1	05	16S	31E	602954	3646955*						
<a href="#">L 03852</a>	R	L	LE	2	2	2	14	16S	31E	609126	3643913*		370	314	56
<a href="#">L 03852 POD4</a>	L	LE		3	4	3	13	16S	31E	609744	3642516*		333	299	34
<a href="#">L 03852 POD5</a>	L	LE		3	2		13	16S	31E	610238	3643427*		328	295	33
<a href="#">L 03852 X</a>	R	L	LE	4	4	4	13	16S	31E	610749	3642526*		333	299	34
<a href="#">L 03852 X2</a>	L	LE		3	2	2	13	16S	31E	610535	3643733*		330	287	43
<a href="#">L 04671</a>	L	LE		1	1	2	12	16S	31E	610114	3645538*		340	288	52
<a href="#">L 10203</a>	L	LE		4	4	3	14	16S	31E	608334	3642495*		310		
<a href="#">L 10206</a>	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

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)		(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) (NAD83 UTM in meters)	
WR File Nbr	Sub	basin	Use	Diversion	Owner
L 03435	L	PRO	0	LOWE DRILLING COMPANY	
				County	POD Number
				LE	L 03435
				Code	Grant
				Source	6416 4 Sec Tws Rng
				Shallow	1 1 05 16S 31E
				q q q	602954 3646955*
				X	Y

Record Count: 1

POD Search:

POD Number: L 03435

Sorted by: File Number

\*UTM location was derived from PLSS - see Help

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(quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	q	q	q	Source	6416	4	Sec	Tws	Rng	X	Y
<a href="#">L 04671</a>	L	PRO	0	JOHN H. TRIGG	LE	<a href="#">L 04671</a>				Shallow	1	1	2	12	16S	31E	610114	3645538*		

Record Count: 1

POD Search:

POD Number: L 04671

Sorted by: File Number

\*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  
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& no longer serves a  
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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	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">L 02381</a>	L	LE		3	1	13	16S	32E		619086	3643515*	308	215	93
<a href="#">L 02434</a>	L	LE				01	16S	32E		619661	3646531*	337		
<a href="#">L 02449</a>	L	LE				01	16S	32E		619661	3646531*	330	265	65
<a href="#">L 02617</a>	L	LE		4	4	02	16S	32E		618656	3645924*	322	270	52
<a href="#">L 02752</a>	L	LE		1	3	26	16S	32E		617521	3639880*	324	280	44
<a href="#">L 02846</a>	L	LE		4	2	11	16S	32E		617956	3645413*	328	275	53
<a href="#">L 02954</a>	L	LE		2	4	03	16S	32E		617043	3646310*	120	65	55
<a href="#">L 02993</a>	L	LE		3	3	215	16S	32E		616572	3643391*	100		
<a href="#">L 03631</a>	L	LE		1	2	02	16S	32E		618240	3647126*	315	250	65
<a href="#">L 04930</a>	L	LE			1	23	16S	32E		617698	3642092*	307	210	97
<a href="#">L 05494</a>	L	LE				36	16S	32E		619758	3638489*	303	200	103
<a href="#">L 06557</a>	L	LE		1	4	21	16S	32E		615089	3641466*	295	210	85
<a href="#">L 06807</a>	L	LE		1	4	09	16S	32E		615356	3644383*	290	248	42
<a href="#">L 07823</a>	L	LE		2	2	216	16S	32E		615561	3643981*	269	247	22
<a href="#">L 08084</a>	L	LE		1	1	116	16S	32E		614157	3643970*	317	260	57
<a href="#">L 08084 POD4</a>	L	LE			2	26	16S	32E		618522	3640492*	303	233	70
<a href="#">L 08084 POD5</a>	L	LE		4	1	426	16S	32E		618425	3639788*	296	165	131
<a href="#">L 08084 S3</a>	L	LE			2	26	16S	32E		618522	3640492*	305	205	100
<a href="#">L 08241</a>	L	LE		4	4	02	16S	32E		618656	3645924*	316		
<a href="#">L 10204</a>	L	LE		4	2	204	16S	32E		615524	3646993*	319		
<a href="#">L 10205</a>	L	LE		4	1	08	16S	32E		613038	3645066*	330		
<a href="#">L 11189</a>	L	LE		1	1	404	16S	32E		614932	3646391*	350		

\*UTM location was derived from PLSS - see Help

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## 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	6416	4	Sec	Tws	Ring	X	Y
<a href="#">L 02381</a>	L	PRO	0	GULF REFINING COMPANY		LE	<a href="#">L 02381</a>			Shallow	3	1	13	16S	32E	619086	3643515*

Record Count: 1

POD Search:

POD Number: L 02381

Sorted by: File Number

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(acre ft per annum)

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

Record Count: 1

POD Search:

POD Number: L 02449

Sorted by: File Number

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q q q	Sec	Tw	Ring	X	Y
<a href="#">L 02617</a>	L	PRO	0	GULF OIL CORPORATION	LE	<a href="#">L 02617</a>			Shallow	4	4	02	16S 32E	618656	3645924*

Record Count: 1

POD Search:

**POD Number:** L 02617

Sorted by: File Number

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WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	q	Sec	Tws	Rng	X	Y
<a href="#">L 02752</a>	L	DOL		3	W W WILLIAMS	LE	<a href="#">L 02752</a>			Shallow	1	3	26	16S	32E		617521	3639880*	

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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## Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr		Sub		basin		Use		Diversion		Owner		County		POD Number		Code		Grant		Source		Shallow		4 2 1 11 16S 32E		617956		3645413*	
		(acre ft per annum)																											
<a href="#">L 02846</a>		L		PRO		0		CONTINENTAL OIL COMPANY				LE		<a href="#">L 02846</a>						6416 4		4 2 1 11 16S 32E				617956		3645413*	

Record Count: 1

POD Search:

POD Number: L 02846

Sorted by: File Number

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
<a href="#">L 02954</a>	L	PRO	0	SCHOENFELD-HUNTER-KITCH DRG CO	LE	<a href="#">L 02954</a>			Shallow	2	4	03	16S	32E		617043	3646310*

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	64	16	4	Sec	Tws	Ring	X	Y
L 03631	L	PRO	0	MAGNOLIA PETROLEUM COMPANY	LE	L 03631				Shallow	1	2	02	16S	32E	618240	3647126*	

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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12/18/13 2:36 PM



# New Mexico Office of the State Engineer

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WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q q q	Sec	Tws	Rng	X	Y
<a href="#">L 04930</a>	L	STK		3 JULIA WILLIAMS	LE	<a href="#">L 04930</a>			Shallow	1	23	16S	32E	617698	3642092*

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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12/18/13 2:36 PM



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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	q	Sec	Tws	Rng	X	Y
<a href="#">L 05494</a>	L	COM		165	CITY OF CARLSBAD	LE	<a href="#">L 05494</a>			Shallow	64	16	4	36	16S	32E	619758	3638489*	

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)

(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)

Sub		(acre ft per annum)									
WR File Nbr	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q q q	
<a href="#">L 06557</a>	L	STK	3	TAYLOR CATTLE COMPANY	LE	<a href="#">L 06557</a>			Shallow	1 4 21	16S 32E 615089 3641466*

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)

										(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) (NAD83 UTM in meters)									
Sub																				q q q																			
WR File Nbr		basin		Use		Diversion		Owner		County		POD Number		Code		Grant		Source		6416 4		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*					

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)

(acre ft per annum)

(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) (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
<a href="#">L 07823</a>	L	PRO	0	E R WEST ENGINEERING	LE	<a href="#">L 07823</a>			Shallow	2	2	2	16	16S	32E	615561	3643981*

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	(acre ft per annum)			County	POD Number	Code	Grant	(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) (NAD83 UTM in meters)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	Sub	basin	Use					Diversion	Owner	Source	6416	4	Sec	Tws	Rng	X	Y	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q

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)

Sub		(acre ft per annum)		(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) (NAD83 UTM in meters)	
WR File Nbr	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source
<a href="#">L 08084</a>	L	COM	750	MOR-WEST CORPORATION	LE	<a href="#">L 08084 S3</a>			Shallow
							q q q	Sec	6416 4
								Tws	2 26
								Rng	16S 32E
									618522
									X
									Y
									3640492*

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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Average Depth to Water: **224 feet**  
Minimum Depth: **65 feet**  
Maximum Depth: **280 feet**

Record Count: 22

PLSS Search:

Township: 16S      Range: 32E



# 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	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">RA 11914 POD1</a>			ED	2	4	2	20	17S	30E	594801	3632002	85	80	5

Average Depth to Water: **80 feet**

Minimum Depth: **80 feet**

Maximum Depth: **80 feet**

**Record Count: 1**

**PLSS Search:**

**Township: 17S**

**Range: 30E**

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# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

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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) (NAD83 UTM in meters)

File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	q	q	q	Source	64	16	4	Sec	Tws	Rng	X	Y
<a href="#">1914</a>		EXP		0 LINN ENERGY	ED	<a href="#">RA 11914 POD1</a>						Shallow	2	4	2	20	17S	30E	594801	3632002

ord Count: 1

POD Search:

**POD Number:** RA 11914 POD1

Sorted by: File Number

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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  
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& 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				Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
	Sub-	Code	basin	County	64	16	4							
<a href="#">RA 11590 POD1</a>		ED			2	1	3	32	17S	31E	603315	3628545	158	
<a href="#">RA 11590 POD3</a>		ED			3	1	2	32	17S	31E	603932	3629260	60	
<a href="#">RA 11590 POD4</a>		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

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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  
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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	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">L 04019</a>	L	LE		4	3	4	02	17S	32E	618468	3636166*	182		
<a href="#">L 04020</a>	L	LE		3	3	4	02	17S	32E	618268	3636166*	200		
<a href="#">L 04021</a>	R	L	LE	3	4	4	02	17S	32E	618670	3636170*	190		
<a href="#">L 04021 POD3</a>	L	LE			3	4	03	17S	32E	616761	3636252*	247		
<a href="#">L 04021 S</a>	L	LE		2	4	4	03	17S	32E	617262	3636354*	260		
<a href="#">L 13047 POD1</a>	L	LE					11	17S	32E	618187	3635254*	140		
<a href="#">L 13050 POD1</a>	L	LE		2	2	1	10	17S	32E	616463	3635945*	156	132	24
<a href="#">RA 08855</a>		LE		4	1	1	10	17S	32E	616061	3635742*	158		
<a href="#">RA 09505</a>		LE		2	2	1	10	17S	32E	616462	3635944	147		
<a href="#">RA 09505 S</a>		LE		2	2	1	10	17S	32E	616463	3635945*	144		
<a href="#">RA 10175</a>		LE			2	1	28	17S	32E	614814	3631005*	158		
<a href="#">RA 11684 POD1</a>		LE		1	1	4	11	17S	32E	618216	3635124	275		
<a href="#">RA 11684 POD2</a>		LE		1	1	4	11	17S	32E	618313	3635248	275		
<a href="#">RA 11684 POD3</a>		LE		3	3	1	11	17S	32E	618262	3635371	275		
<a href="#">RA 11684 POD4</a>		LE		1	3	2	11	17S	32E	618334	3635521	275		
<a href="#">RA 11684 POD5</a>		LE		3	1	4	11	17S	32E	618353	3635047	275		
<a href="#">RA 11734 POD1</a>		LE		2	2	1	10	17S	32E	616556	3635929	165		
<a href="#">RA 11911 POD1</a>		LE		1	3	1	24	17S	32E	619192	3632296	35		
<a href="#">RA 12020 POD1</a>		LE		2	2	1	28	17S	32E	614828	3630954	120	81	39
<a href="#">RA 12042 POD1</a>		LE		2	2	1	28	17S	32E	614891	3631181	400		

\*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,  
C=the file is closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	q q q			Source	6416	4	Sec	Tws	Rng	X	Y
050	L	DOL	3	LARRY WOOTEN	LE	L 13050	POD1		Shallow	2	2	1	10	17S	32E	616463	3635945*		

ord Count: 1

POD Search:

**POD Number:** L 13050 POD1

Sorted by: File Number

**All location was derived from PLSS - see Help**

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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,  
C=the file is closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

q q q

Source 6416 4 Sec TwS Rng X Y  
Shallow 2 2 1 28 17S 32E 614827 3630954

Code Grant

County POD Number

LE RA 12020 POD1

(acre ft per annum)

Sub basin Use Diversion Owner  
MON 0 PHILLIPS 66 COMPANY

ord Count: 1

POD Search:

POD Number: RA 12020 POD1

Sorted by: File Number

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, quality, usability, or suitability for any particular purpose of the data.

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ACTIVE & INACTIVE POINTS OF DIVERSION



Average Depth to Water: 106 feet

Minimum Depth: 81 feet

Maximum Depth: 132 feet

Record Count: 20

PLSS Search:

Township: 17S

Range: 32E



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water




(A CLW##### in the  
POD suffix indicates the  
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& 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	Water Column	
	Sub-Code	basin	County	64	16	4	Sec	Tws						Rng
<a href="#">CP 00818</a>			LE	1	4	26	18S	30E	599289	3620364*		240		
<a href="#">CP 00819</a>			LE	2	4	32	18S	30E	594878	3618720*		150		
<a href="#">L 01978</a>	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

## Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

(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) (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
<a href="#">L 01978</a>	L	DOM		3	L A JOHNSON	LE	<a href="#">L 01978</a>			Shallow	1	3	23	18S	30E		598469	3621964*

Record Count: 1

POD Search:

**POD Number:** L 01978

Sorted by: File Number

\*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 (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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">L 11092</a>	L	LE		2	3	15	18S	31E		606849	3623669*	160	98	62

Average Depth to Water: 98 feet

Minimum Depth: 98 feet

Maximum Depth: 98 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

## Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)

(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) (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
<a href="#">L 11092</a>	L	DOM		3 NEW HOPE BAPTIST	LE	<a href="#">L 11092</a>			Shallow	2	3	15	18S	31E	606849 3623669*

Record Count: 1

POD Search:

**POD Number:** L 11092

Sorted by: File Number

\*UTM location was derived from PLSS - see Help

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12/18/13 2:44 PM





# 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	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water Column	Water
<a href="#">CP 00566</a>		LE		4	4	1	04	18S	32E	614960	3627280*	133	65	68
<a href="#">CP 00672</a>		LE		4	4	07	18S	32E	612475	3624947*	524	430	94	
<a href="#">CP 00672 CLW475398</a>	O	LE		4	4	07	18S	32E	612475	3624947*	540	460	80	
<a href="#">CP 00677</a>		LE		1	1	26	18S	32E	617750	3621373*	700			

Average Depth to Water: **318 feet**

Minimum Depth: **65 feet**

Maximum Depth: **460 feet**

**Record Count: 4**

**PLSS Search:**

**Township: 18S**

**Range: 32E**

\*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)

(acre ft per annum)				(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) (NAD83 UTM in meters)									
Sub				q q q													
WR File Nbr	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	64	16	4	Sec	Tws	Ring	X	Y
<a href="#">CP 00566</a>	DOM			3 B.E. FRIZZELL	LE	<a href="#">CP 00566</a>			Shallow	4	4	1	04	18S	32E	614960	3627280* 

Record Count: 1

POD Search:

POD Number: CP 00566

Sorted by: File Number

\*UTM location was derived from PLSS - see Help

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12/18/13 2:45 PM



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

Sub			(acre ft per annum)						(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) (NAD83 UTM in meters)		
WR File Nbr	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
<a href="#">CP 00672</a>	STK		3	VIRGIL LINAM ESTATE	LE	<a href="#">CP 00672</a>			Shallow	4	4	07	18S	32E		612475	3624947*

Record Count: 1

POD Search:

POD Number: CP 00672

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.

12/18/13 2:46 PM



# *New Mexico Office of the State Engineer*

## **Active & Inactive Points of Diversion**

(with Ownership Information)

**POD Search:**

**POD Number:** CP 00672 CLW475398

No PODs found.

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.

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)

(acre ft per annum)

(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) (NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source			Sec			Tws			Rng			X	Y
									64	16	4	1	1	26	18S	32E	617750	3621373*				
CP 00677		PRO	0	T X O PROD.	LE	CP 00677			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.

12/18/13 2:47 PM



SP1	CHL	SP2	CHL	SP3	CHL	SP4	CHL	SP5	CHL	BH1	CHL	SP7	CHL	SP8	CHL	SP9	CHL	SP10	CHL
Surface	374	Surface	8347	Surface	no data	Surface	no data	1'	no data	10'	2474								
1'	524	1'	2749	1'	no data	1'	no data	2'	no data	15'	1574								
2'	1249	2'	no data	2'	no data	2'	no data	3'	no data	20'	3024								
3'	2049	3'	no data	3'	no data	3'	no data	4'	no data	25'	2249								
4'	2499	4'	no data	4'	no data	4'	no data	1'	249	30'	874								
5'	1374	5'	no data	3'	274	3'	249	2'	374	35'	624								
6'	2799	6'	999	4'	274	4'	374	3'	199	30'	624								
7'	1874	7'	549	5'	274	5'	224	4'	199	35'	560								
8'	1274	8'	274	6'	249	6'	249	5'	174										
9'	1024	2'	274	7'	249	7'	199												
10'	749	4'	249																
11'	949	5'	249																
12'	999	6'	274																
13'	1949	7'	174																
Auger Refusal																			

Excavate to 2' dispose  
and backfill

Excavate to 4'  
install 20 mil liner

|

SW1	CHL	SW2	CHL	SW3	CHL	SW4	CHL	SW5	CHL	SW6	CHL	SW7	CHL	SP18	CHL	SP19	CHL	SP20	CHL
2' @ surf	325	2' @ surf	325	2' @ surf	350	2' @ surf	2449	2' @ surf	1125	2' @ surf	375	2' @ surf	300						
2' @ 1'	225	2' @ 1'	275	2' @ 1'	225	2' @ 1'	975	2' @ 1'	350	2' @ 1'	250	2' @ 1'	250						

SP21	CHL	SP22	CHL	SP22	CHL	SP23	CHL	SP24	CHL	SP25	CHL	SP26	CHL	SP27	CHL	SP28	CHL	SP29	CHL	SP30	CHL

Lab Confirmation Sample

Field Sampling

Needs Delineation and confirmation samples

Drilling/Bore



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

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February 26, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: TURNER B #44

Enclosed are the results of analyses for samples received by the laboratory on 02/17/14 15:30.

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,

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:	02/17/2014	Sampling Date:	02/17/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	TURNER B #44	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BH #1 @ 30 (H400471-01)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2014	ND	2.46	123	2.00	2.42	
Toluene*	<0.050	0.050	02/20/2014	ND	2.17	108	2.00	2.14	
Ethylbenzene*	<0.050	0.050	02/20/2014	ND	2.18	109	2.00	3.74	
Total Xylenes*	<0.150	0.150	02/20/2014	ND	6.35	106	6.00	3.42	
Total BTEX	<0.300	0.300	02/20/2014	ND					

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 94.8 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	02/20/2014	ND	416	104	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	02/19/2014	ND	200	100	200	5.07	
DRO >C10-C28	<10.0	10.0	02/19/2014	ND	192	96.2	200	7.57	

Surrogate: 1-Chlorooctane 86.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.7 % 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: 02/17/2014  
 Reported: 02/26/2014  
 Project Name: TURNER B #44  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 02/17/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BH #1 @ 35 (H400471-02)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2014	ND	2.46	123	2.00	2.42	
Toluene*	<0.050	0.050	02/20/2014	ND	2.17	108	2.00	2.14	
Ethylbenzene*	<0.050	0.050	02/20/2014	ND	2.18	109	2.00	3.74	
Total Xylenes*	<0.150	0.150	02/20/2014	ND	6.35	106	6.00	3.42	
Total BTEx	<0.300	0.300	02/20/2014	ND					

Surrogate: Dibromofluoromethane 110 % 61.3-142  
 Surrogate: Toluene-d8 97.3 % 71.3-129  
 Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	02/20/2014	ND	416	104	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	02/19/2014	ND	200	100	200	5.07	
DRO >C10-C28	<10.0	10.0	02/19/2014	ND	192	96.2	200	7.57	

Surrogate: 1-Chlorooctane 78.9 % 65.2-140  
 Surrogate: 1-Chlorooctadecane 83.1 % 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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Cardinal Laboratories

\*=Accredited Analyte

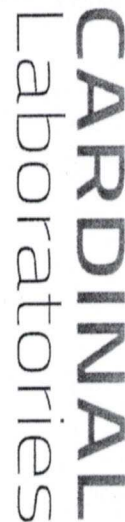
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Celey D. Keene, Lab Director/Quality Manager





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

June 05, 2013

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: TURNER B #44

Enclosed are the results of analyses for samples received by the laboratory on 06/03/13 16:25.

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:**

ETECH Environmental & Safety Solutions, Inc.  
 KIT PRICHARD  
 P. O. BOX 8469  
 MIDLAND TX, 79708  
 Fax To: (432) 563-2213

Received:	06/03/2013	Sampling Date:	06/03/2013
Reported:	06/05/2013	Sampling Type:	Soil
Project Name:	TURNER B #44	Sampling Condition:	** (See Notes)
Project Number:	253-3862-000	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

**Sample ID: SP 1 BOTTOM 6' (H301295-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/05/2013	ND	400	100	400	0.00	

**Sample ID: SP 1 S WALL 3' (H301295-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/05/2013	ND	400	100	400	0.00	

**Sample ID: SP 1 E WALL 3' (H301295-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/05/2013	ND	400	100	400	0.00	

**Sample ID: SP 2 BOTTOM 6' (H301295-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/05/2013	ND	400	100	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

ETECH Environmental & Safety Solutions, Inc.  
KIT PRICHARD  
P. O. BOX 8469  
MIDLAND TX, 79708  
Fax To: (432) 563-2213

Received: 06/03/2013  
Reported: 06/05/2013  
Project Name: TURNER B #44  
Project Number: 253-3862-000  
Project Location: EDDY COUNTY

Sampling Date: 06/03/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: SP 2 W WALL 3' (H301295-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/05/2013	ND	400	100	400	0.00	

**Sample ID: SP 3 BOTTOM 6' (H301295-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/05/2013	ND	400	100	400	0.00	

**Sample ID: SP 3 W WALL 3' (H301295-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/05/2013	ND	400	100	400	0.00	

**Sample ID: SP 4 BOTTOM 6' (H301295-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/05/2013	ND	400	100	400	0.00	

**Sample ID: SP 4 N WALL 3' (H301295-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	06/05/2013	ND	400	100	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

ETECH Environmental & Safety Solutions, Inc.  
 KIT PRICHARD  
 P. O. BOX 8469  
 MIDLAND TX, 79708  
 Fax To: (432) 563-2213

Received: 06/03/2013  
 Reported: 06/05/2013  
 Project Name: TURNER B #44  
 Project Number: 253-3862-000  
 Project Location: EDDY COUNTY

Sampling Date: 06/03/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 E WALL 3' (H301295-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/05/2013	ND	432	108	400	0.00		

**Sample ID: SP 5 BOTTOM 4' (H301295-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2013	ND	432	108	400	0.00	

**Sample ID: SP 5 N WALL 2' (H301295-12)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/05/2013	ND	432	108	400	0.00	

**Sample ID: SP 5 S WALL 2' (H301295-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/05/2013	ND	432	108	400	0.00		

**Sample ID: SP 5 W WALL 2' (H301295-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/05/2013	ND	432	108	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 ETECH Environmental & Safety Solutions, Inc.  
 KIT PRICHARD  
 P. O. BOX 8469  
 MIDLAND TX, 79708  
 Fax To: (432) 563-2213

 Received: 06/03/2013  
 Reported: 06/05/2013  
 Project Name: TURNER B #44  
 Project Number: 253-3862-000  
 Project Location: EDDY COUNTY

 Sampling Date: 06/03/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 BOTTOM 2' (H301295-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/05/2013	ND	432	108	400	0.00	

**Sample ID: SP 6 N WALL 1' (H301295-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/05/2013	ND	432	108	400	0.00		

**Sample ID: SP 6 S WALL 1' (H301295-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	06/05/2013	ND	432	108	400	0.00	

**Sample ID: SP 6 W WALL 1' (H301295-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	06/05/2013	ND	432	108	400	0.00		

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

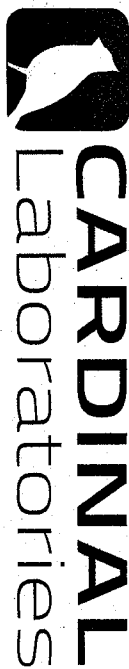
\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Etech Envision metal</u>		P.O. # <u>253-3862-000</u>		BILL TO																													
Project Manager: <u>Kit Pichard</u>		Company:		ANALYSIS REQUEST																													
Address:		Attn:																															
City:		Address:																															
State:		City:																															
Zip:		State:																															
Phone #:		Fax #:																															
Project #: <u>253-3862-000</u>		Project Owner:																															
Project Name: <u>Turner B 44</u>		City:																															
Project Location: <u>Eddy county</u>		State:																															
Sampler Name: <u>Terry Osborn</u>		Phone #:																															
FOR LAB USE ONLY		Fax #:																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		MATRIX		PRESERV.		SAMPLING																	
1		SP1 Bottom 6'																DATE		TIME		chlorides											
2		SP1 S. well 3'																6/3/13															
3		SP1 E. well 3'																															
4		SP2 Bottom 6'																															
5		SP2 W. well 3'																															
6		SP3 Bottom 6'																															
7		SP3 W. well 3'																															
8		SP4 Bottom 6'																															
9		SP4 N. well 3'																															
10		SP4 E. well 3'																															
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and clients' exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other causes 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.</p>																																	
Relinquished By: <u>[Signature]</u>		Date: <u>6/13/13</u>		Received By: <u>[Signature]</u>		Date: <u>6/13/13</u>		Time: <u>4:25</u>		Time: <u>4:25</u>		Sample Condition		CHECKED BY: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:											
Delivered By: (Circle One)		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:											
Sampler - UPS - Bus - Other:		372		Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>											

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2826



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Fitch</u>		P.O. # <u>253-3862-000</u>		BILL TO												ANALYSIS REQUEST																									
Project Manager: <u>Kit Pritchard</u>		Company:																																							
Address:		Attn:																																							
City:		Address:																																							
State:		City:																																							
Zip:		State:																																							
Phone #:		Fax #:																																							
Project #: <u>253-3862-000</u>		Project Owner:																																							
Project Name: <u>Turner B 44</u>		City:																																							
Project Location: <u>Eddy County</u>		State:																																							
Zip:		Phone #:																																							
Fax #:		Fax #:																																							
Sampler Name: <u>Terry Osborn</u>																																									
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													
H3012945		11 SP5 Bottom 4'																								6/3/13		V		Chlorides											
12 SP5 N.Well 2'																																									
13 SP5 S.Well 2'																																									
14 SP5 W.Well 2'																																									
15 SP5 Bottom 2'																																									
16 SP6 N.Well 1'																																									
17 SP6 S.Well 1'																																									
18 SP6 W.Well 1'																																									
Relinquished By: <u>[Signature]</u>		Date: <u>6-3-13</u>		Time: <u></u>		Received By: <u>[Signature]</u>		Date: <u></u>		Time: <u></u>		Sample Condition		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Checked By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: <u></u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #: <u></u>		REMARKS:															
Delivered By: (Circle One)		370		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Checked By: <u>[Signature]</u>																																			
Sampler - UPS - Bus - Other:		370		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Checked By: <u>[Signature]</u>																																			

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #521



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

---

March 11, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: TURNER B #44

Enclosed are the results of analyses for samples received by the laboratory on 03/06/14 16:55.

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  
BRIAN WALL  
2130 W. BENDER  
HOBBS NM, 88240  
Fax To: (575) 738-1740Received: 03/06/2014  
Reported: 03/11/2014  
Project Name: TURNER B #44  
Project Number: NONE GIVEN  
Project Location: NOT GIVENSampling Date: 03/05/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson**Sample ID: SW 1 @ 2 @ 1 (H400704-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2014	ND	416	104	400	3.77	

**Sample ID: SW 2 @ 2 @ 1 (H400704-02)**

Chloride, SM4500Cl-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	03/11/2014	ND	432	108	400	0.00	

**Sample ID: SW 3 @ 1 @ 1 (H400704-03)**

Chloride, SM4500Cl-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	03/11/2014	ND	432	108	400	0.00	

**Sample ID: SW 5 @ 2 @ 1 (H400704-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/11/2014	ND	432	108	400	0.00	

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) 738-1740Received: 03/06/2014  
Reported: 03/11/2014  
Project Name: TURNER B #44  
Project Number: NONE GIVEN  
Project Location: NOT GIVENSampling Date: 03/05/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson**Sample ID: SW 6 @ 2 @ 1 (H400704-05)**

Chloride, SM4500Cl-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	03/11/2014	ND	432	108	400	0.00		

**Sample ID: SW 7 @ 2 @ 1 (H400704-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2014	ND	432	108	400	0.00	

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



## Page 5 of 5

**(575) 393-2326 FAX (575) 393-2476**

[illegible]

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393-2326



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

---

March 11, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: TURNER B #44

Enclosed are the results of analyses for samples received by the laboratory on 03/06/14 16:55.

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

Received:	03/06/2014	Sampling Date:	03/05/2014
Reported:	03/11/2014	Sampling Type:	Soil
Project Name:	TURNER B #44	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 7 (H400705-01)**

Chloride, SM4500Cl-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	03/11/2014	ND	432	108	400	0.00	

**Sample ID: SP 3 @ 7 (H400705-02)**

Chloride, SM4500Cl-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	03/11/2014	ND	432	108	400	0.00	

**Sample ID: SP 4 @ 7 (H400705-03)**

Chloride, SM4500Cl-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	03/11/2014	ND	432	108	400	0.00	

**Sample ID: SP 5 @ 5 (H400705-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/11/2014	ND	432	108	400	0.00	

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



# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

### BILL TO

### ANALYSIS REQUEST

Company Name: West Lim

Project Manager: Natlie Gladden

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Location: Turner B 44

Sampler Name: Michael Allen

FOR LAB USE ONLY

Lab I.D. Sample I.D.

HUETD5

1 SP 207

2 SP 307

3 SP 407

4 SP 505

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March 13, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: TURNER B #44

Enclosed are the results of analyses for samples received by the laboratory on 03/12/14 9:09.

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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**LINN OPERATING-HOBBS  
BRIAN WALL  
2130 W. BENDER  
HOBBS NM, 88240  
Fax To: (575) 738-1740Received: 03/12/2014  
Reported: 03/13/2014  
Project Name: TURNER B #44  
Project Number: NONE GIVEN  
Project Location: NOT GIVENSampling Date: 03/07/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson**Sample ID: SW 4 @ 2 @ 1 (H400748-01)****Chloride, SM4500Cl-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	03/13/2014	ND	416	104	400	3.92	

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



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

**(575) 393-2326 FAX (575) 393-2476**

† Cardinal cannot accept verbal changes. Please fax written changes to (515) 393-2520

# DIVERSIFIED FIELD SERVICES, INC.

## RECLAMATION FORM

SITE: Turner B 44

Start Date: 3-25-14

Completion Date: 3-26-14

- Step 1 Remove caliche and/or all discolored material (soil, caliche, et al) for disposal.
- Step 2 Look for any discolored material under pad. Sample and perform field tests.  
If above limits, remove 1' and resample and test. If sample is still above limits, contact Environmental Director before proceeding further.
- Step 3 Grid clean area and establish between 2 and 5 sample points.
- Step 4 Take appropriate samples and run field tests on samples.

**Note:** If any samples come back higher than allowed limit or are close to limit, contact Environmental Director before proceeding.

- Step 5 When field sample tests are shown to be acceptable, backfill and contour soil to depth as required.
- Step 6 Re-seed reclaimed area with seed required by landowner (BLM) and give seed tag to Environmental Office upon completion.

**Note:** Record the amount of seed used on tag.

Seed Type: LPC  
Lbs. Used: 100 #

- Step 7 Ensure samples are taken to the appropriate Scientific Lab for analyses and this form is returned to the Environmental Office upon job completion.

**NOTES:**

Remediation Site

Supervisor:

Stephen D. McCall

# Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 282-9892

Permit # TX00905

LPC Sand Shinery W/Ragweed and Saltbush 500#

INV52812

Description		Pure Seed	Germ	Dormant	Origin
Bluestem, Big "Kaw" ( <i>Andropogon gerardii</i> )		15.83%	95.00%	0.00%	TX
Bluestem, Little "Cimarron" ( <i>Schizachyrium scoparium</i> )		7.62%	90.00%	8.00%	TX
Bluestem, Sand "Woodward" ( <i>Andropogon hallii</i> )		13.12%	95.00%	0.00%	TX
Bristlegrass, Plains, "VNS" ( <i>Setaria vulpiseta</i> )		14.24%	76.00%	11.00%	TX
Coreopsis Plains ( <i>Coreopsis tinctoria</i> )		5.06%	97.00%	0.00%	TX
Dropseed, Sand, "VNS" ( <i>Sporobolus cryptandrus</i> )		2.60%	95.00%	3.00%	TX
Fourwing saltbush, "VNS" ( <i>Atriplex canescens</i> )		19.10%	12.00%	40.00%	NM
Ragweed, "Western" ( <i>Ambrosia L.</i> )		6.45%	77.00%	0.00%	KY
Purity: 84.02%					
Inert Matter: 9.85%					
		Other Crop Seed: 6.11%			
		Weed Seed: 0.02%			

Noxious Weeds: None

Test Date: 11/2013

Net Wt: 25.00 lbs





# Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

LPC Sand Shinery W/Ragweed and Saltbush 500#

INV52812

## Description

Bluestem, Big "Kaw" (*Andropogon gerardii*)  
 Bluestem, Little "Cimarron" (*Schizachyrium scoparium*)  
 Bluestem, Sand "Woodward" (*Andropogon hallii*)  
 Bristlegrass, Plains, "VNS" (*Setaria vulpiseta*)  
 Coreopsis Plains (*Coreopsis tinctoria*)  
 Dropseed, Sand, "VNS" (*Sporobolus cryptandrus*)  
 Fourwing saltbush, "VNS" (*Atriplex canescens*)  
 Ragweed, "Western" (*Ambrosia L.*)

## Pure Seed

15.83%  
 7.62%  
 13.12%  
 14.24%  
 5.06%  
 2.60%  
 19.10%  
 6.45%

## Germ

95.00%  
 90.00%  
 95.00%  
 76.00%  
 97.00%  
 95.00%  
 12.00%  
 77.00%

## Dormant

0.00%  
 8.00%  
 0.00%  
 11.00%  
 0.00%  
 3.00%  
 40.00%  
 0.00%

## Origin

TX  
 TX  
 TX  
 TX  
 TX  
 TX  
 NM  
 KY

Purity: 84.02%

Inert Matter: 9.85%

Other Crop Seed: 6.11%

Weed Seed: 0.02%

Noxious Weeds: None

Test Date: 11/2013

Net Wt: 25.00 lbs

## Natalie Gladden

---

**From:** Fred Holmes <fred@etechenv.com>  
**Sent:** Monday, March 03, 2014 9:38 AM  
**To:** Amy Ruth  
**Cc:** 'Kit Prichard'  
**Subject:** RE: Linn Energy Turner B #44  
**Attachments:** H301295 TB 44 Clearance 060313.pdf

Amy: Attached are the clearance analytical results. That is all I think we have.

*Fred Holmes*

**Etech Environmental & Safety Solutions, Inc.**

P.O. Box 8469  
Midland, Texas 79708-8469  
Phone: 432-563-2200  
Fax: 432-563-2213  
E-mail: [fred@etechenv.com](mailto:fred@etechenv.com)

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**From:** Amy Ruth [<mailto:aruth@diversifiedfsi.com>]  
**Sent:** Monday, March 03, 2014 10:27 AM  
**To:** fred@etechenv.com  
**Cc:** Kit Prichard  
**Subject:** Linn Energy Turner B #44  
**Importance:** High

Hi Fred,

We are trying to close the site Turner B #44 for Linn Energy. It is our understanding that eTECH began sampling the site. In order to save Linn money here, we would not re-sample, and document with full credit the data collected from eTECH within our closure. Can you forward me any sample data and/or labs you have on the site? Or if this is easier, please give the lab permission to release the reports to us.

Thank you!!

*Amy C. Ruth*

Environmental Director  
Diversified Field Services, Inc.  
3412 N. Dal Paso  
Hobbs, NM 88240  
Office: (575)964-8394  
Mobile: (575)390-5454

Fax: (575)964-8396

*"Nothing will work unless you do." -Maya Angelou*

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

June 05, 2013

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: TURNER B #44

Enclosed are the results of analyses for samples received by the laboratory on 06/03/13 16:25.

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 black ink that reads "Caley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Caley D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 ETECH Environmental & Safety Solutions, Inc.  
 KIT PRICHARD  
 P. O. BOX 8469  
 MIDLAND TX, 79708  
 Fax To: (432) 563-2213

 Received: 06/03/2013  
 Reported: 06/05/2013  
 Project Name: TURNER B #44  
 Project Number: 253-3862-000  
 Project Location: EDDY COUNTY

 Sampling Date: 06/03/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 BOTTOM 6' (H301295-01)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/05/2013	ND	400	100	400	0.00	

**Sample ID: SP 1 S WALL 3' (H301295-02)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/05/2013	ND	400	100	400	0.00	

**Sample ID: SP 1 E WALL 3' (H301295-03)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/05/2013	ND	400	100	400	0.00	

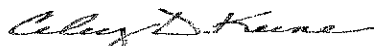
**Sample ID: SP 2 BOTTOM 6' (H301295-04)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/05/2013	ND	400	100	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ETECH Environmental & Safety Solutions, Inc.  
 KIT PRICHARD  
 P. O. BOX 8469  
 MIDLAND TX, 79708  
 Fax To: (432) 563-2213

 Received: 06/03/2013  
 Reported: 06/05/2013  
 Project Name: TURNER B #44  
 Project Number: 253-3862-000  
 Project Location: EDDY COUNTY

 Sampling Date: 06/03/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 W WALL 3' (H301295-05)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/05/2013	ND	400	100	400	0.00	

**Sample ID: SP 3 BOTTOM 6' (H301295-06)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/05/2013	ND	400	100	400	0.00	

**Sample ID: SP 3 W WALL 3' (H301295-07)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/05/2013	ND	400	100	400	0.00	

**Sample ID: SP 4 BOTTOM 6' (H301295-08)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/05/2013	ND	400	100	400	0.00	

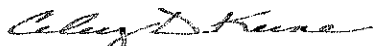
**Sample ID: SP 4 N WALL 3' (H301295-09)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	06/05/2013	ND	400	100	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 ETECH Environmental & Safety Solutions, Inc.  
 KIT PRICHARD  
 P. O. BOX 8469  
 MIDLAND TX, 79708  
 Fax To: (432) 563-2213

 Received: 06/03/2013  
 Reported: 06/05/2013  
 Project Name: TURNER B #44  
 Project Number: 253-3862-000  
 Project Location: EDDY COUNTY

 Sampling Date: 06/03/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 E WALL 3' (H301295-10)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/05/2013	ND	432	108	400	0.00	

**Sample ID: SP 5 BOTTOM 4' (H301295-11)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2013	ND	432	108	400	0.00	

**Sample ID: SP 5 N WALL 2' (H301295-12)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/05/2013	ND	432	108	400	0.00	

**Sample ID: SP 5 S WALL 2' (H301295-13)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2013	ND	432	108	400	0.00	

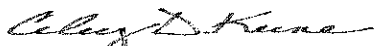
**Sample ID: SP 5 W WALL 2' (H301295-14)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/05/2013	ND	432	108	400	0.00	

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 ETECH Environmental & Safety Solutions, Inc.  
 KIT PRICHARD  
 P. O. BOX 8469  
 MIDLAND TX, 79708  
 Fax To: (432) 563-2213

 Received: 06/03/2013  
 Reported: 06/05/2013  
 Project Name: TURNER B #44  
 Project Number: 253-3862-000  
 Project Location: EDDY COUNTY

 Sampling Date: 06/03/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 BOTTOM 2' (H301295-15)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/05/2013	ND	432	108	400	0.00	

**Sample ID: SP 6 N WALL 1' (H301295-16)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/05/2013	ND	432	108	400	0.00	

**Sample ID: SP 6 S WALL 1' (H301295-17)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	06/05/2013	ND	432	108	400	0.00	


**Sample ID: SP 6 W WALL 1' (H301295-18)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	06/05/2013	ND	432	108	400	0.00	

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

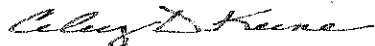
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Cardinal Laboratories

\* = Accredited Analyte

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.



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Celey D. Keene, Lab Director/Quality Manager



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

175 #



# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Etch</u>		P.O. #: <u>253-3862-000</u>	
Project Manager: <u>Kit Pritchard</u>		Company:	
Address:		Attn:	
City:		Address:	
State:		City:	
Zip:		State:	
Phone #: <u>253-3862-000</u>		Fax #: <u>253-3862-000</u>	
Project #: <u>253-3862-000</u>		Project Owner:	
Project Name: <u>Turner B 44</u>		City:	
Project Location: <u>Eddy County</u>		State:	
Sample Name: <u>Terry Osborn</u>		Zip:	
FOR LAB USE ONLY		Phone #:	
Fax #:		PRESERV	
Lab I.D. <u>H301245</u>		SAMPLING	
Sample I.D.		DATE	
(G)RAB OR (C)OMP.		TIME	
# CONTAINERS		Chlorides	
GROUNDWATER			
WASTEWATER			
SOIL			
OIL			
SLUDGE			
OTHER:			
ACID/BASE:			
ICE / COOL			
OTHER:			
Matrix			
SP5 Bottom 4'			
12 SP5 N.Wall 2'			
13 SP5 S.Wall 2'			
14 SP5 W.Wall 2'			
15 SP5 Bottom 2'			
16 SP6 N.Wall 1'			
17 SP6 S.Wall 1'			
18 SP6 W.Wall 1'			
Relinquished By: <u>[Signature]</u>		Date: <u>6/3/13</u>	
Relinquished By: <u>[Signature]</u>		Time: <u>10:30</u>	
Received By: <u>[Signature]</u>		Date: <u>6/3/13</u>	
Received By: <u>[Signature]</u>		Time: <u>10:30</u>	
Delivered By: (Circle One)		Sample Condition	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
372		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
CHECKED BY: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
REMARKS:		Add'l Phone #: <u>[Blank]</u>	
		Add'l Fax #: <u>[Blank]</u>	

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

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

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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 A #44	Facility Type: Injection

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-505311
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### LOCATION OF RELEASE

Unit Letter N	Section 20	Township 17S	Range 31E	Feet from the 660	North/South Line South	Feet from 2055	East/West Line West	County Eddy
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Latitude: 32.8146162112349 Longitude -103.893767541586

### NATURE OF RELEASE

Type of Release: Produced water	Volume of Release 64 bbls	Volume Recovered 0
Source of Release: Stuffing Box	Date and Hour of Occurrence 12/17/2012 2PM	Date and Hour of Discovery 12/17/2012 2:30 PM
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 Terry Gregston-BLM	
By Whom? Jose Hernandez	Date and Hour: 12/18/2012 10 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.\*  
NA

Describe Cause of Problem and Remedial Action Taken.\* DROVE TO LOCATION DOING DAILY ROUTINE NE OF THE TURNER B #137 PROD WELL. WE HAVE TWO TIN HORNS W/ INJECTION VALVE NOTICE WATER COMING OUT FROM AROUND THEM, TURNED INJECTION LINE OFF TO STOP WATER LEAK.

Describe Area Affected and Cleanup Action Taken. There was a 6,951 sq. ft. of pasture area impacted. DFSI was retained to remediate the site.

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.

		<b><u>OIL CONSERVATION DIVISION</u></b>	
Signature: <i>Fred B Wall</i>		Approved by Environmental Specialist:	
Printed Name: Brian Wall			
Title: Construction Foreman II		Approval Date:	Expiration Date:
E-mail Address: bwall@linenergy.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 05/15/20014 Phone: 806-367-0645			

\* Attach Additional Sheets If Necessary