

Linn Energy Turner B #81

CLOSURE REPORT

BLM Event NU12001TG

API No. 30-015-26389

Release Date: 8/23/2012

Unit Letter J, Section 29, Township 17 South, Range 31 East

April 28, 2014

Prepared by:

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

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Turner B #81

1 INTRODUCTION

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, in Eddy County. The site resulted from a non-reportable produced water and oil leak in a ruptured flow line transition at the well head. The line rupture released produced water and oil onto approximately 408 square feet of the well pad. There was minimal impact to pasture area to the northwest of the pad. The corroded valve and elbow on the flow line were replaced. An initial form C-141 was submitted to the NMOCD on September 12, 2012 (Appendix I).

2 SITE ACTIVITIES

On August 20, 2013 DFSI personnel collected surface soil samples from the site (Figure). The samples were field screened for chloride and showed elevated levels one of the sample points. The samples were submitted to a commercial laboratory for chloride, TPH, and BTEX analyses (Appendix IV).

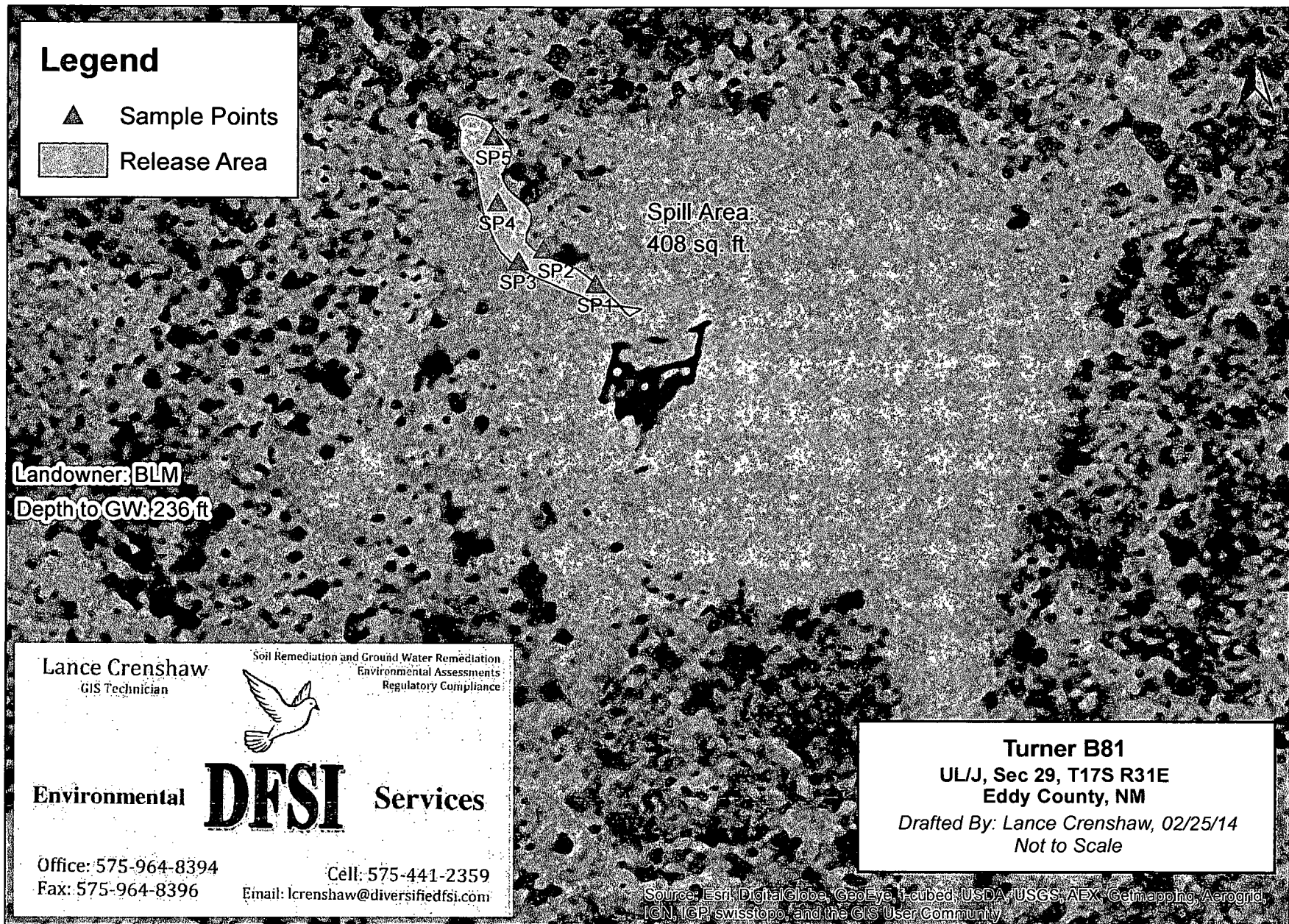
Visually impacted soils were excavated throughout the entire leak area and removed to a NMOCD approved disposal facility. Simultaneous soil field testing revealed low chloride and hydrocarbon levels at 1 to 2 ft. below ground surface (bgs) (Figure). However, chloride remained elevated at 1699 mg/kg at 4 ft. bgs near the well head on the pad. Due to SP1 being at the wellhead it was proposed and accepted by the BLM that this area would be excavated to 4ft. bgs., and backfilled with imported caliche. Soil samples were collected from the excavation floor and submitted to a laboratory for confirmation (Appendix IV). The second sample on the northwest of the well head on the pad indicated significant reduction in chloride at 1 ft. bgs. The lab returned analysis at 32 mg/kg. SP3 thru SP5 were located in the pasture. The commercial lab returned analysis for SP3 at 1ft bgs chloride of 48 mg/kg. SP4 and SP5 returned analyses of acceptable chloride levels at surface level. TPH totaled less than 10.0 mg/kg GRO and less than 21.0 mg/kg DRO in all confirmation samples. Photographs of site activities can be viewed in Appendix II.

On March 27, 2014 DFSI submitted a remediation request to NMOCD and the BLM. Henceforth, DFSI excavated SP1 to 4ft. bgs., and backfilled. Due to the location of SP1 at the well head no liner was installed. SP2, and SP3 were excavated from 1 to 1.5 ft. bgs. respectively, and backfilled with fresh caliche. SP4 and SP5 were located in the pasture. On April 10, 2014, this area was scraped, blended and re-seeded with Lesser Prairie Chicken seed mixture. Thereby restoring the pasture area to its natural state per BLM requirements.

3 CONCLUSION

According to the U.S. Geological Survey and the NM Office of the State Engineer, depth to groundwater in the area averages greater than 236 ft. bgs (Appendix III). Based on the removal of soils containing elevated chloride and visual staining at the site, DFSI, on behalf of Linn, submits the final form C-141 (Appendix V) and respectfully requests the closure of the regulatory file for the site.

Excavation Plat



Appendix I

INITIAL FORM C-141

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

District I
1625 N French Dr, Hobbs, NM 88240
District II
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

RECEIVED

AUG 30 2012

Form C-141
Revised October 10, 2003

NMOC DISTRICT OFFICE in
ARTESIA, NM 88210
Approved with 19.15.29 NMAC

Release Notification and Corrective Action

NJMW1225650461 OPERATOR ☒ Initial Report ☐ Final Report
Name of Company: Linn Operating 269324 Contact: Joe Hernandez
Address: 2130 W. Bender Hobbs, NM 88240 Telephone No.: 575-738-1739
Facility Name: Turner B # 81 Facility Type: Oil
Surface Owner: Federal Mineral Owner: Federal API No.: 3001526389

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	29	17S	31E	2545	South	2615	East	Eddy

Latitude: 32.8053082596052 Longitude: -103.891817672312

NATURE OF RELEASE

Type of Release: Produced Water / Oil	Volume of Release: .5bbls / .5bbls	Volume Recovered: 0 / 0
Source of Release: Pipeline	Date and Hour of Occurrence: 08/23/2012 12:15pm	Date and Hour of Discovery: 08/23/2012 12:20pm
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? Joe Hernandez	Date and Hour 08/23/2012 12:20pm	
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.*: 1/2 inch nipple between Valve and elbow on flow line was leaking due corrosion old fittings leaked around well head.		
Describe Area Affected and Cleanup Action Taken.*: ran off 15ft Northwest off location about 30feet long by 1ft wide. Further remedial action pending...		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: <u>[Signature]</u>	OIL CONSERVATION DIVISION	
Printed Name: Joe Hernandez	Approved by District Supervisor Signed By <u>[Signature]</u>	
Title: Production Foreman	Approval Date: SEP 12 2012	Expiration Date:
E-mail Address: jhernandez@linncenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 08/30/2012 Phone: 575-942-9492		

* Attach Additional Sheets If Necessary

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

October 12th, 2012

2RP-1288

Appendix II

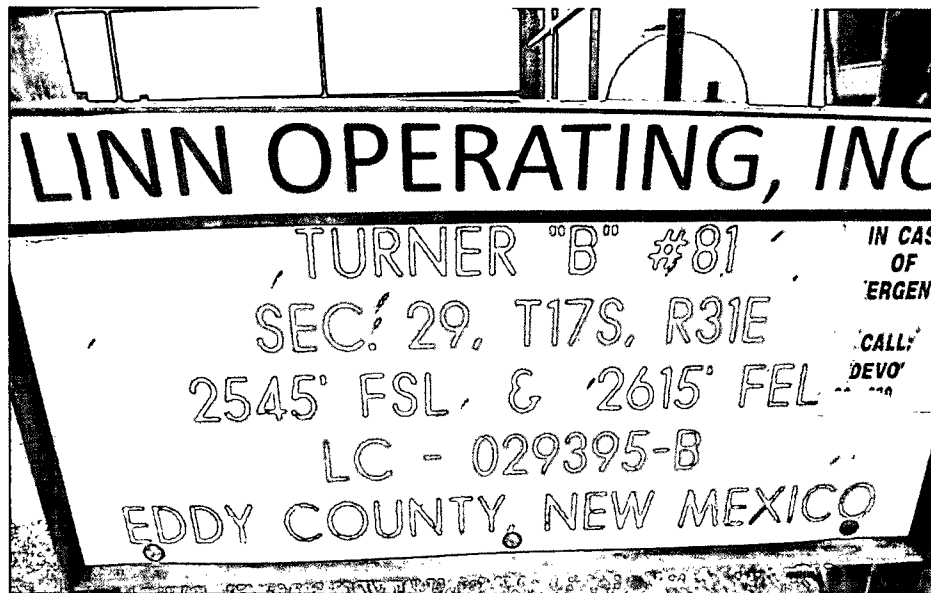
SITE PHOTOGRAPHS

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

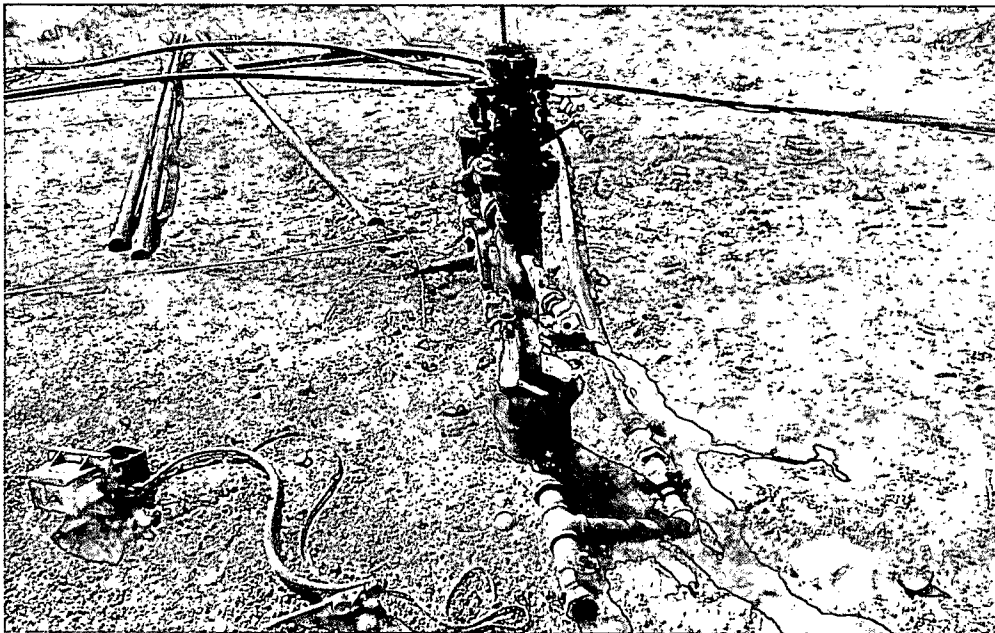
Linn Energy Turner B #81

Unit Letter J, Section 29, T17S R31E

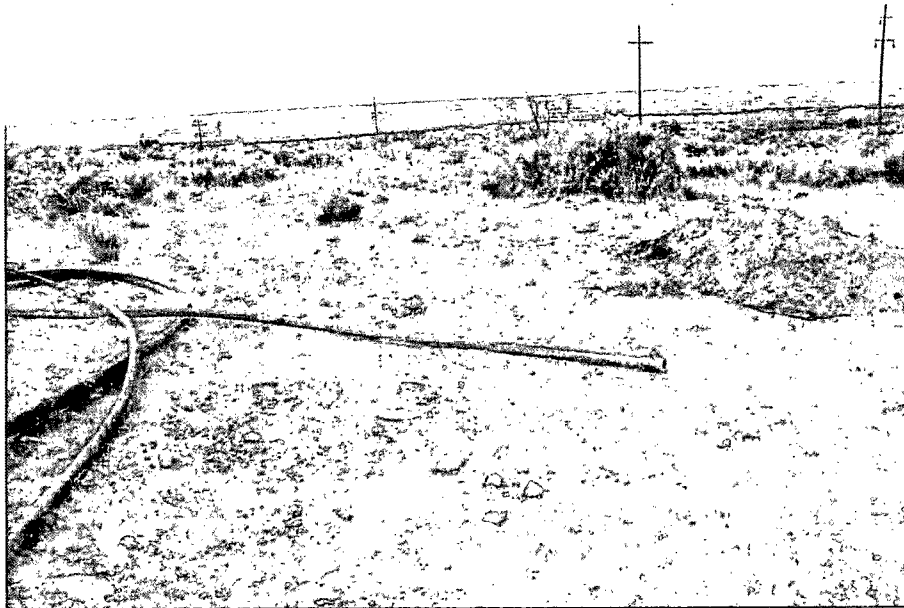
nn



Sign marking location 8/16/13



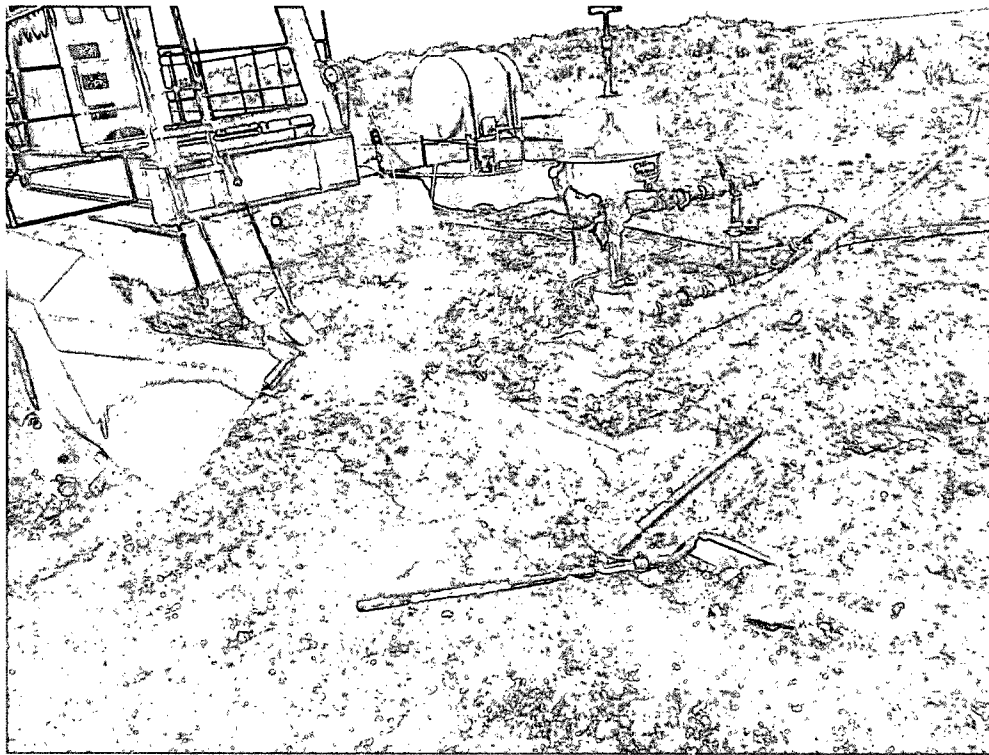
Valve leak location NW of lease road 08/16/13



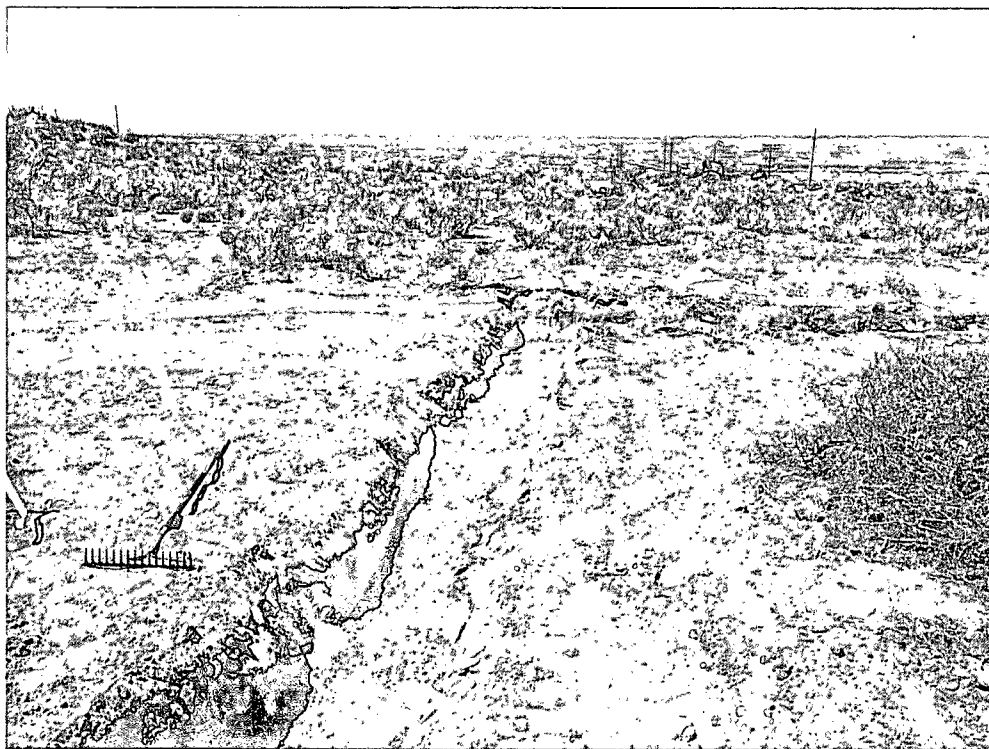
Impacted soil 8/16/12



Affected run off area 15 ft. NW of location 8/16/12



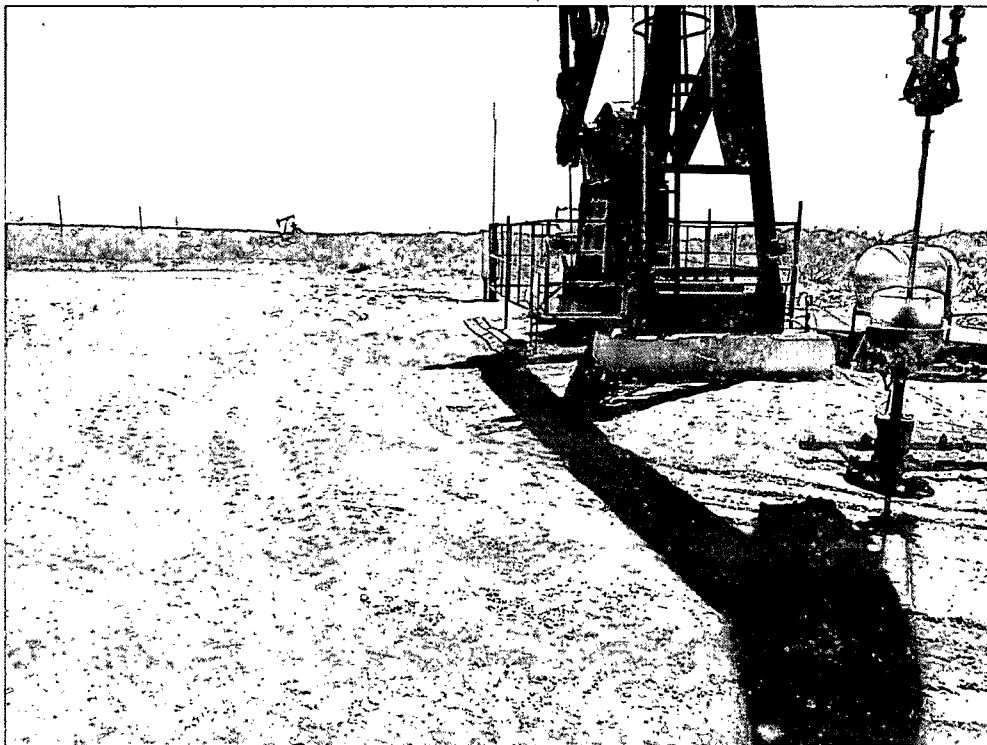
Excavation of impacted area 4/7/14



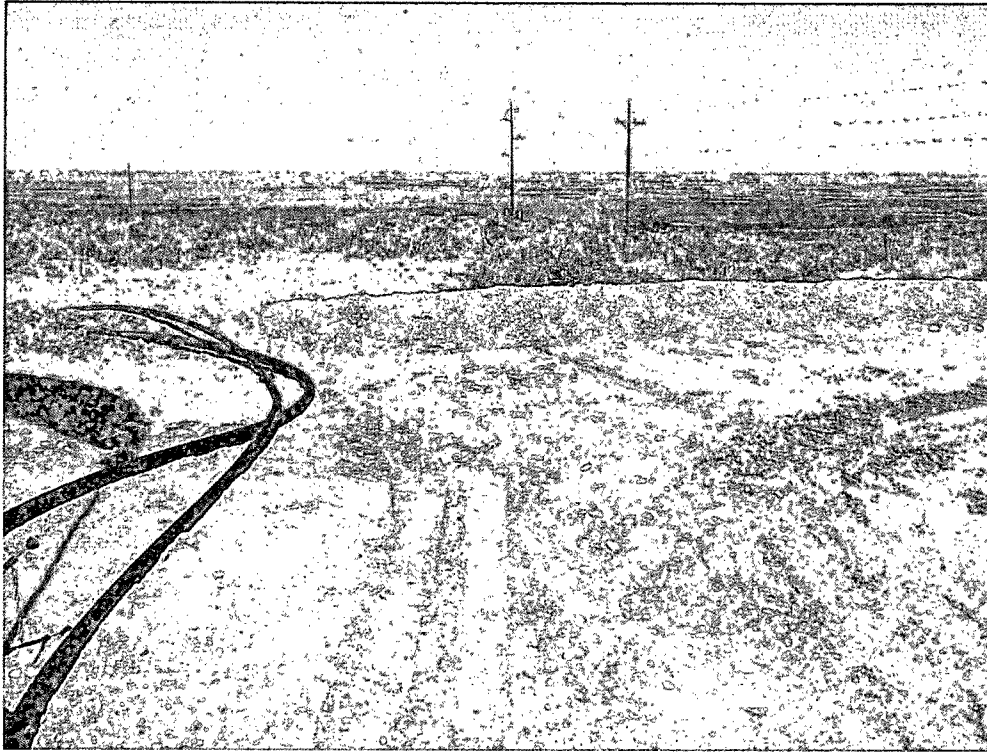
Excavation of impacted run off area 4/8/14



Site at completion 4/11/14



Site at completion of well head area 04/15/14



Pasture area after tilled and seeded 4/22/14

Appendix III

GROUNDWATER DATA

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

GROUND WATER SEARCH

Linn Energy Turner B #81

UL: J

Sec: 29

T: 17S

R: 31E

Groundwater Depth: 236 ft. averaged

○ = NM Office of the State Engineer

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

✕ = Site Location

Date: 04/24/14

By: Rebecca Pons

	16S 30E	288'○ 314'○ 16S 31E 295'○	65' 260'○ 248'○ 275'○ 254'○ 16S 32E 210'○ 215'○ 210'○ 221'○ 200'○	
	17S 30E	17S 31E ✕	132'○ 17S 32E	
	18S 30E 44'○	98'○ 18S 31E	65'○ 430'○ 18S 32E 460'○	



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

No records found.

PLSS Search:

Township: 16S

Range: 30E



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-		Q Q Q						X	Y	Depth Well	Depth Water	Water Column		
	Code	basin	County	64	16	4	Sec	Tws						Rng	
<u>L 03435</u>		L	LE	1	1	05	16S	31E	602954	3646955*					
<u>L 03852</u>	R	L	LE	2	2	2	14	16S	31E	609126	3643913*		370	314	56
<u>L 03852 POD4</u>		L	LE	3	4	3	13	16S	31E	609744	3642516*		333	299	34
<u>L 03852 POD5</u>		L	LE		3	2	13	16S	31E	610238	3643427*		328	295	33
<u>L 03852 X</u>	R	L	LE	4	4	4	13	16S	31E	610749	3642526*		333	299	34
<u>L 03852 X2</u>		L	LE	3	2	2	13	16S	31E	610535	3643733*		330	287	43
<u>L 04671</u>		L	LE	1	1	2	12	16S	31E	610114	3645538*		340	288	52
<u>L 10203</u>		L	LE	4	4	3	14	16S	31E	608334	3642495*		310		
<u>L 10206</u>		L	LE		2	2	23	16S	31E	609045	3642204*		280		

Average Depth to Water: 297 feet

Minimum Depth: 287 feet

Maximum Depth: 314 feet

Record Count: 9

PLSS Search:

Township: 16S

Range: 31E

*UTM location was derived from PLSS - see Help

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

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

(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)

Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y
		Shallow	1	1	05	16S	31E		602954	3646955*

(acre ft per annum)

File Nbr	Sub basin	Use	Diversion	Owner
3435	L	PRO		0 LOWE DRILLING COMPANY

County POD Number
LE L 03435

Code Grant

	q	q	q				
Source	6416	4	Sec	Tws	Rng	X	Y
Shallow	1	1	05	16S	31E	602954	3646955*

Word Count: 1

POD Search:

POD Number: L 03435

Sorted by: File Number

RM location was derived from PLSS - see Help

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

Word Count: 6

POD Search:

POD Number: L 03852

Sorted by: File Number

M 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)																
(acre ft per annum)																
Sub																
File Nbr	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416	4	Sec	Tws	Rng	X	Y
671	L	PRO	0	JOHN H. TRIGG	LE	L 04671			Shallow	1	1	2	12	16S	31E	610114 3645538*

Word Count: 1

POD Search:

POD Number: L 04671

Sorted by: File Number



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-	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
Code	basin	County	64	16	4								
<u>L 02381</u>	L	LE	3	1	13	16S	32E		619086	3643515*	308	215	93
<u>L 02434</u>	L	LE			01	16S	32E		619661	3646531*	337		
<u>L 02449</u>	L	LE			01	16S	32E		619661	3646531*	330	265	65
<u>L 02617</u>	L	LE	4	4	02	16S	32E		618656	3645924*	322	270	52
<u>L 02752</u>	L	LE	1	3	26	16S	32E		617521	3639880*	324	280	44
<u>L 02846</u>	L	LE	4	2	11	16S	32E		617956	3645413*	328	275	53
<u>L 02954</u>	L	LE	2	4	03	16S	32E		617043	3646310*	120	65	55
<u>L 02993</u>	L	LE	3	3	2	15	16S	32E	616572	3643391*	100		
<u>L 03631</u>	L	LE	1	2	02	16S	32E		618240	3647126*	315	250	65
<u>L 04930</u>	L	LE		1	23	16S	32E		617698	3642092*	307	210	97
<u>L 05494</u>	L	LE			36	16S	32E		619758	3638489*	303	200	103
<u>L 06557</u>	L	LE	1	4	21	16S	32E		615089	3641466*	295	210	85
<u>L 06807</u>	L	LE	1	4	09	16S	32E		615356	3644383*	290	248	42
<u>L 07823</u>	L	LE	2	2	2	16	16S	32E	615561	3643981*	269	247	22
<u>L 08084</u>	L	LE	1	1	1	16	16S	32E	614157	3643970*	317	260	57
<u>L 08084 POD4</u>	L	LE		2	26	16S	32E		618522	3640492*	303	233	70
<u>L 08084 POD5</u>	L	LE	4	1	4	26	16S	32E	618425	3639788*	296	165	131
<u>L 08084 S3</u>	L	LE		2	26	16S	32E		618522	3640492*	305	205	100
<u>L 08241</u>	L	LE	4	4	02	16S	32E		618656	3645924*	316		
<u>L 10204</u>	L	LE	4	2	2	04	16S	32E	615524	3646993*	319		
<u>L 10205</u>	L	LE	4	1	08	16S	32E		613038	3645066*	330		
<u>L 11189</u>	L	LE	1	1	4	04	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)

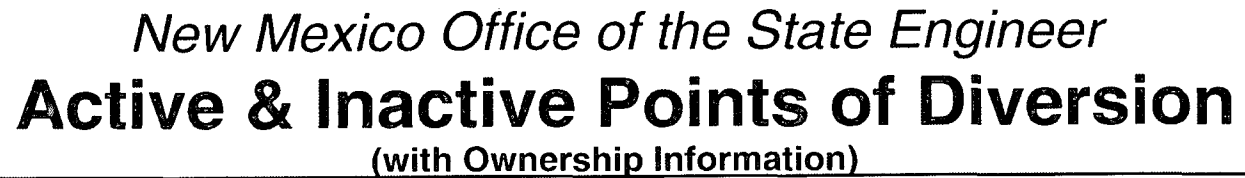
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(acre ft per annum)																					
Sub										q q q											
WR File Nbr		basin	Use	Diversion	Owner	County		POD Number		Code		Grant		Source		6416 4	Sec	Tws	Rng	X	
L 02381		L	PRO		0 GULF REFINING COMPANY	LE		L 02381						Shallow		3	1	13	16S	32E	619086 36435



WR File Nbr	(acre ft per annum)				County	POD Number
	Sub basin	Use	Diversion	Owner		
L 02449	L	PRO	0	PLYMOUTH OIL COMPANY	LE	L 02449

q q q						
Source	6416 4	Sec	Tws	Rng	X	
Shallow		01	16S	32E	619661	36466

ACTIVE & INACTIVE POINTS OF DIVE



(acre ft per annum)

ACTIVE & INACTIVE POINTS OF DIVERGENCE



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 me									
(acre ft per annum)																			
Sub										q q q									
WR File Nbr		basin	Use	Diversion	Owner	County POD Number				Code Grant		Source		6416 4	Sec	Tws	Rng	X	
L 02752		L	DOL		3 W W WILLIAMS	LE L 02752						Shallow		1	3	26	16S	32E	617521 36391



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Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)										(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		Rng		X			
L 02846		L		PRO				0		CONTINENTAL OIL COMPANY		LE		L 02846						Shallow		4		2		11		16S		32E		617956 36454	

Record Count: 1

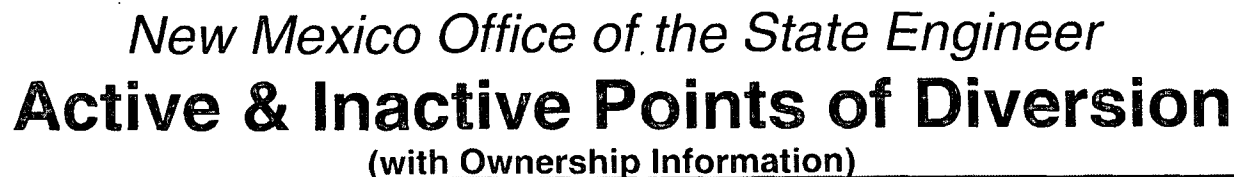
POD Search:

POD Number: L 02846

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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(acre ft per annum)

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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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)									



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, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in me							
Sub									q q q					
WR File Nbr	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416 4	Sec	Tws	Rng	X
L 04930	L	STK		3 JULIA WILLIAMS	LE	L 04930			Shallow	1	23	16S	32E	617698 36420

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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(acre ft per annum)

ACTIVE & INACTIVE POINTS OF DIVI



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, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in me	
								q q q	
WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source 6416 4 Sec Tws Rng X
L 06557	L	STK		3	TAYLOR CATTLE COMPANY	LE	L 06557		Shallow 1 4 21 16S 32E 615089 3641

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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	(acre ft per annum)						C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in me										
	Sub																	
WR File Nbr	basin	Use	Diversion	Owner		County	POD Number		Code	Grant	Source	6416	4	Sec	Tws	Rng	X	
L 06807	L	PRO		0 SHARP DRILLING COMPANY		LE	L 06807				Shallow	1	4	4	09	16S	32E	615356 3644:

Sorted by: File Number

ACTIVE & INACTIVE POINTS OF DIVI



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 met
WR File Nbr	Sub basin Use Diversion Owner		County	POD Number	Code Grant	Source	q q q 6416 4 Sec Tws Rng X
<u>L 07823</u>	L PRO 0 E R WEST ENGINEERING		LE	<u>L 07823</u>		Shallow	2 2 2 16 16S 32E 615561 36439

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)

(acre ft per annum)							(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 me									
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	6416 4	Sec	Tws	Rng	X			
<u>L 08084</u>	L	COM	750	MOR-WEST CORPORATION	LE	<u>L 08084</u>		Shallow	1	1	1	16	16S	32E	614157	36439
					LE	<u>L 08084 POD4</u>		Shallow		2	26	16S	32E		618522	3640
					LE	<u>L 08084 POD5</u>		Shallow	4	1	4	26	16S	32E	618425	3639
					LE	<u>L 08084 S</u>	R	Shallow	2	1	1	36	16S	32E	619239	3639
					LE	<u>L 08084 S2</u>	R	Shallow	3	1	1	36	16S	32E	619039	3638
					LE	<u>L 08084 S3</u>		Shallow		2	26	16S	32E		618522	3640

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)

										(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)																																																	
										(acre ft per annum)																																																	
										Sub																																																	
WR File Nbr										basin Use Diversion Owner										County POD Number										Code Grant										Source 6416 4 Sec TwS Rng										X									
L 08084										L COM 750 MOR-WEST CORPORATION										LE L 08084 S3																				Shallow										2 26 16S 32E 618522 36404									

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

closed) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD

Sub-

Q Q Q

POD Number

Code basin County 64 16 4 Sec Tws Rng

X

Y

Depth Depth Water
Well Water Column

RA 11914 POD1

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

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.



(acre ft per annum)					C=the file is closed)		(quarters are smallest to largest) (NAD83 UTM in meters)								
File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416 4	Sec	Tw	Rng	X	Y
1914		EXP		0 LINN ENERGY	ED	RA 11914	POD1		Shallow	2 4 2	20	17S	30E	594801	3632002

ord Count: 1

POD Search:

POD Number: RA 11914 POD1

Sorted by: File Number



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

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

(R=POD has
been replaced,

O=orphaned,

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)

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

(In feet)

POD Number	POD Sub-	Code	basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RA 11590 POD1		ED			2	1	3	32	17S	31E	603315	3628545	158		
RA 11590 POD3		ED			3	1	2	32	17S	31E	603932	3629260	60		
RA 11590 POD4		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



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

(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)	
File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source
050	L	DOL		3	LARRY WOOTEN	LE	L 13050 POD1			Shallow

ord Count: 1

POD Search:

POD Number: L 13050 POD1

Sorted by: File Number

1 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)																
		Sub																
File Nbr	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416	4	Sec	Tws	Rng	X	Y		
2020		MON		0 PHILLIPS 66 COMPANY	LE	RA 12020 POD1			Shallow	2	2	1	28	17S	32E	614827	3630954	

(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)

ord Count: 1

POD Search:

POD Number: RA 12020 POD1

Sorted by: File Number

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
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		Q Q Q						X	Y	Depth Well	Depth Water	Water Column	
	Sub-Code	basin	County	64	16	4	Sec	Tws						Rng
<u>CP 00818</u>			LE	1	4	26	18S	30E	599289	3620364*		240		
<u>CP 00819</u>			LE	2	4	32	18S	30E	594878	3618720*		150		
L 01978	L	LE		1	3	23	18S	30E	598469	3621964*		65	44	21

Average Depth to Water: 44 feet

Minimum Depth: 44 feet

Maximum Depth: 44 feet

Record Count: 3

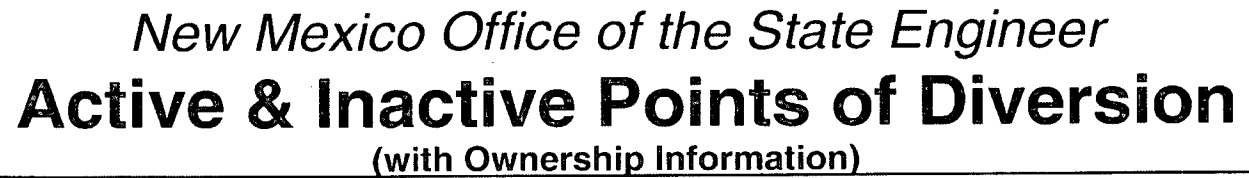
PLSS Search:

Township: 18S

Range: 30E

*UTM location was derived from PLSS - see Help

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.



WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	(quarters are smallest to largest)					X	36219	
									Source	6416	4	Sec	Tws			Rng
L 01978	L	DOM		3 L A JOHNSON	LE	L 01978			Shallow	1	3	23	18S	30E	598469	36219

ACTIVE & INACTIVE POINTS OF DIVER



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

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

(R=POD has
been replaced,

O=orphaned,

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)

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

(In feet)

POD Number	POD Sub-Code	basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 11092	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

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(acre ft per annum)

ACTIVE & INACTIVE POINTS OF DIVE



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

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub- Code	basin	County	Q Q Q			Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
				64	16	4								
CP 00566			LE	4	4	1	04	18S	32E	614960	3627280*	133	65	68
CP 00672			LE	4	4	07	18S	32E	612475	3624947*	524	430	94	
CP 00672 CLW475398	O		LE	4	4	07	18S	32E	612475	3624947*	540	460	80	
CP 00677			LE	1	1	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)																
WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416	4	Sec	Tws	Rng	X		
CP 00566			DOM		3 B.E. FRIZZELL	LE	CP 00566			Shallow	4	4	1	04	18S	32E	614960	36272

(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 met

q q q

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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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 met									
(acre ft per annum)																			
Sub										q q q									
WR File Nbr	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416	4	Sec	Tws	Rng	X				
CP 00672		STK		3 VIRGIL LINAM ESTATE	LE	CP 00672			Shallow	4	4	07	18S	32E	612475	36245			

(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 met

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.



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

No PODs found.

POD Search:

POD Number: CP 00672 CLW475398



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q q q	6416 4	Sec	Tws	Rng	X
CP 00677		PRO		0 T X O PROD.	LE	CP 00677					1 1	26	18S	32E	617750 36213

Record Count: 1

POD Search:

POD Number: CP 00677

Sorted by: File Number

*UTM location was derived from PLSS - see Help

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

Appendix IV

LABORATORY ANALYSES

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

August 29, 2013

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: TURNER B #81

Enclosed are the results of analyses for samples received by the laboratory on 08/23/13 10:15.

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.

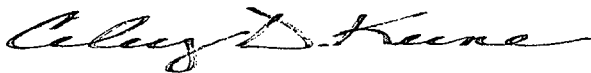
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/23/2013
 Reported: 08/29/2013
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 08/20/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 SURFACE (H302027-01)

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2013	ND	1.77	88.3	2.00	4.34	
Toluene*	<0.050	0.050	08/27/2013	ND	1.77	88.6	2.00	2.43	
Ethylbenzene*	<0.050	0.050	08/27/2013	ND	1.85	92.3	2.00	2.93	
Total Xylenes*	<0.150	0.150	08/27/2013	ND	5.58	93.0	6.00	3.42	
Total BTX	<0.300	0.300	08/27/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

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	08/28/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/28/2013	ND	182	90.8	200	1.55	
DRO >C10-C28	600	10.0	08/28/2013	ND	168	83.8	200	0.0292	

Surrogate: 1-Chlorooctane 95.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/23/2013
 Reported: 08/29/2013
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 08/20/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 SURFACE (H302027-02)

BTEX 8021B			mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2013	ND	1.77	88.3	2.00	4.34		
Toluene*	<0.050	0.050	08/27/2013	ND	1.77	88.6	2.00	2.43		
Ethylbenzene*	<0.050	0.050	08/27/2013	ND	1.85	92.3	2.00	2.93		
Total Xylenes*	<0.150	0.150	08/27/2013	ND	5.58	93.0	6.00	3.42		
Total BTEX	<0.300	0.300	08/27/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 89.4-126

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	08/28/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/28/2013	ND	182	90.8	200	1.55	
DRO >C10-C28	<10.0	10.0	08/28/2013	ND	168	83.8	200	0.0292	

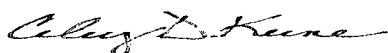
Surrogate: 1-Chlorooctane 93.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.3 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/23/2013
 Reported: 08/29/2013
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 08/20/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H302027-03)

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2013	ND	1.77	88.3	2.00	4.34	
Toluene*	<0.050	0.050	08/27/2013	ND	1.77	88.6	2.00	2.43	
Ethylbenzene*	<0.050	0.050	08/27/2013	ND	1.85	92.3	2.00	2.93	
Total Xylenes*	<0.150	0.150	08/27/2013	ND	5.58	93.0	6.00	3.42	
Total BTX	<0.300	0.300	08/27/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/28/2013	ND	182	90.8	200	1.55	
DRO >C10-C28	<10.0	10.0	08/28/2013	ND	168	83.8	200	0.0292	


Surrogate: 1-Chlorooctane 96.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/23/2013
 Reported: 08/29/2013
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 08/20/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 SURFACE (H302027-04)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2013	ND	1.77	88.3	2.00	4.34	
Toluene*	<0.050	0.050	08/27/2013	ND	1.77	88.6	2.00	2.43	
Ethylbenzene*	<0.050	0.050	08/27/2013	ND	1.85	92.3	2.00	2.93	
Total Xylenes*	<0.150	0.150	08/27/2013	ND	5.58	93.0	6.00	3.42	
Total BTEX	<0.300	0.300	08/27/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	08/28/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/28/2013	ND	182	90.8	200	1.55	
DRO >C10-C28	<10.0	10.0	08/28/2013	ND	168	83.8	200	0.0292	

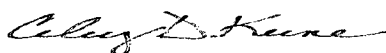
Surrogate: 1-Chlorooctane 86.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/23/2013
 Reported: 08/29/2013
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 08/20/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 SURFACE (H302027-05)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2013	ND	1.77	88.3	2.00	4.34		
Toluene*	<0.050	0.050	08/27/2013	ND	1.77	88.6	2.00	2.43		
Ethylbenzene*	<0.050	0.050	08/27/2013	ND	1.85	92.3	2.00	2.93		
Total Xylenes*	<0.150	0.150	08/27/2013	ND	5.58	93.0	6.00	3.42		
Total BTEX	<0.300	0.300	08/27/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/28/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/28/2013	ND	182	90.8	200	1.55	
DRO >C10-C28	1340	10.0	08/28/2013	ND	168	83.8	200	0.0292	

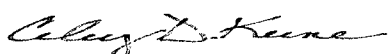
Surrogate: 1-Chlorooctane 88.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/23/2013
 Reported: 08/29/2013
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 08/20/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H302027-06)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2013	ND	1.77	88.3	2.00	4.34		
Toluene*	<0.050	0.050	08/28/2013	ND	1.77	88.6	2.00	2.43		
Ethylbenzene*	<0.050	0.050	08/28/2013	ND	1.85	92.3	2.00	2.93		
Total Xylenes*	<0.150	0.150	08/28/2013	ND	5.58	93.0	6.00	3.42		
Total BTEX	<0.300	0.300	08/28/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

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	08/28/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/28/2013	ND	182	90.8	200	1.55	
DRO >C10-C28	18.6	10.0	08/28/2013	ND	168	83.8	200	0.0292	


Surrogate: 1-Chlorooctane 91.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.2 % 63.6-154

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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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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: Linn Energy				BILL TO				ANALYSIS REQUEST											
Project Manager: Brian Wall				P.O. #:				<div style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">SAME</div> <div style="position: absolute; top: 100px; left: 100px; font-size: 1.5em;">Btex</div> <div style="position: absolute; top: 150px; left: 100px; font-size: 1.5em;">TPH 8015m</div> <div style="position: absolute; top: 200px; left: 100px; font-size: 1.5em;">CJ-</div>											
Address:				Company:															
City:				Attn:															
Phone #:				Address:															
Project #:				City:															
Project Name: Turner B #81				State:															
Project Location: Matjamar				Zip:															
Sampler Name: Daniel Lockhart				Phone #:															
Fax #:				Fax #:															

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			SAMPLING		DATE	TIME
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER				
		H302027																
	1	SP1 Surf		G	1			✓					✓			8-20-13	11:42	
	2	SP2 Surf		G	1			✓					✓			8-20-13	11:43	
	3	SP3 @ 1'		G	1			✓					✓			8-20-13	12:57	
	4	SP3 Surf		G	1			✓					✓			8-20-13	11:44	
	5	SP4 Surf		G	1			✓					✓			8-20-13	11:45	
	6	SP4 @ 1'		G	1			✓					✓			8-20-13	1:36	

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Relinquished By: <i>[Signature]</i>		Date: 8/23/13	Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: 10:15	Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: <i>[Signature]</i>		REMARKS: Email results: bwall@linnenergy.com aruth@diversifiedfsi.com	

February 27, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: TURNER B #81

Enclosed are the results of analyses for samples received by the laboratory on 02/20/14 13:20.

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.

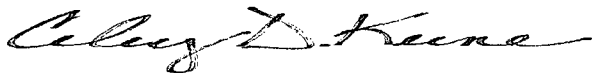
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:	02/20/2014	Sampling Date:	02/20/2014
Reported:	02/27/2014	Sampling Type:	Soil
Project Name:	TURNER B #81	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1 (H400516-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/24/2014	ND	432	108	400	3.77	

Sample ID: SP 2 @ 2 (H400516-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/24/2014	ND	432	108	400	3.77		

Sample ID: SP 3 @ 1 (H400516-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/24/2014	ND	432	108	400	3.77	


Sample ID: SP 3 @ 2 (H400516-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/26/2014	ND	400	100	400	0.00	

Cardinal Laboratories

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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:	02/20/2014	Sampling Date:	02/20/2014
Reported:	02/27/2014	Sampling Type:	Soil
Project Name:	TURNER B #81	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 1 (H400516-05)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/26/2014	ND	400	100	400	0.00	

Sample ID: SP 5 @ SURFACE (H400516-06)

Chloride, SM4500CI-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	02/26/2014	ND	400	100	400	3.92	

Sample ID: SP 4 @ 2 (H400516-07)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/26/2014	ND	400	100	400	3.92	


Sample ID: SP 5 @ 1 (H400516-08)

Chloride, SM4500CI-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	02/26/2014	ND	400	100	400	3.92	

Cardinal Laboratories

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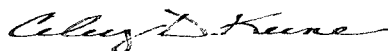
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories***=Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Linn Energy</u>				BILL TO				ANALYSIS REQUEST																	
Project Manager: <u>Brian Wall</u>				P.O. #:																					
Address:				Company: <u>Linn Energy</u>																					
City:		State:		Zip:		Attn: <u>Brian Wall</u>																			
Phone #:		Fax #:		Address:																					
Project #:		Project Owner:		City:																					
Project Name:				State:																Zip:					
Project Location: <u>Turner B 81</u>				Phone #:																					
Sampler Name:				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(GIRAB OR (C)OMP. # CONTAINERS		MATRIX				PRESERV.		SAMPLING													
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME													
<u>H400515</u>																									
<u>1 SP. 201</u>				<u>1</u>						<u>X</u>		<u>2/20/14</u> <u>12:00</u>		<u>X</u>											
<u>2 SP. 302</u>				<u>1</u>						<u>X</u>		<u>2/20/14</u> <u>12:00</u>		<u>X</u>											
<u>3 SP. 301</u>				<u>1</u>						<u>X</u>		<u>2/20/14</u> <u>12:00</u>		<u>X</u>											
<u>4 SP. 302</u>				<u>1</u>						<u>X</u>		<u>2/20/14</u> <u>12:00</u>		<u>X</u>											
<u>5 SP. 401</u>				<u>1</u>						<u>X</u>		<u>2/20/14</u> <u>12:00</u>		<u>X</u>											
<u>6 SP. 501</u>				<u>1</u>						<u>X</u>		<u>2/20/14</u> <u>12:00</u>		<u>X</u>											
<u>7 SP. 402</u>				<u>1</u>						<u>X</u>		<u>2/20/14</u> <u>12:00</u>		<u>X</u>											
<u>8 SP. 501</u>				<u>1</u>						<u>X</u>		<u>2/20/14</u> <u>12:00</u>		<u>X</u>											

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

Relinquished By: <u>[Signature]</u>		Date: <u>2/20/14</u>		Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One)		Time: <u>1:20</u>		Sample Condition		CHECKED BY: <u>[Signature]</u>		REMARKS:	
Sampler - UPS - Bus - Other:		4.80		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				bwall@linenergy.com ngbdden@diversified.com	

April 16, 2014

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: TURNER B #81

Enclosed are the results of analyses for samples received by the laboratory on 04/11/14 14:47.

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.

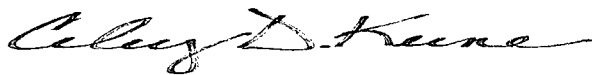
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/11/2014
 Reported: 04/16/2014
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 04/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: BS 1 @ 3' (H401114-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2014	ND	2.25	113	2.00	9.92	
Toluene*	<0.050	0.050	04/15/2014	ND	2.13	106	2.00	10.0	
Ethylbenzene*	<0.050	0.050	04/15/2014	ND	2.10	105	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/15/2014	ND	6.11	102	6.00	9.41	
Total BTEX	<0.300	0.300	04/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 115 % 89.4-126

Chloride, SM4500CI-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	04/16/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/16/2014	ND	199	99.3	200	1.82	
DRO >C10-C28	<10.0	10.0	04/16/2014	ND	218	109	200	2.81	

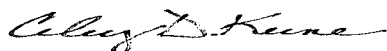
Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/11/2014
 Reported: 04/16/2014
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 04/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: BS 2 @ 3' (H401114-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2014	ND	2.25	113	2.00	9.92	
Toluene*	<0.050	0.050	04/15/2014	ND	2.13	106	2.00	10.0	
Ethylbenzene*	<0.050	0.050	04/15/2014	ND	2.10	105	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/15/2014	ND	6.11	102	6.00	9.41	
Total BTEX	<0.300	0.300	04/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/16/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/16/2014	ND	199	99.3	200	1.82	
DRO >C10-C28	<10.0	10.0	04/16/2014	ND	218	109	200	2.81	

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/11/2014
 Reported: 04/16/2014
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 04/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: BS 3 @ 3' (H401114-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2014	ND	2.25	113	2.00	9.92	
Toluene*	<0.050	0.050	04/15/2014	ND	2.13	106	2.00	10.0	
Ethylbenzene*	<0.050	0.050	04/15/2014	ND	2.10	105	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/15/2014	ND	6.11	102	6.00	9.41	
Total BTEX	<0.300	0.300	04/15/2014	ND					

Surrogate: 4-Bromofluorobenzene (PII) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	04/16/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/16/2014	ND	199	99.3	200	1.82	
DRO >C10-C28	<10.0	10.0	04/16/2014	ND	218	109	200	2.81	


Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories***=Accredited Analyte**

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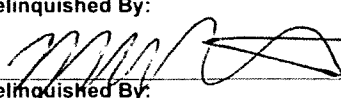

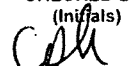
Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Linn Energy Project Manager: Brian Wall Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: Sidewall + Bottom Samples Project Location: Turner B 81 Sampler Name: Michael Alvar				BILL TO P.O. #: Company: Linn Energy Attn: Brian Wall Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																																			
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING																											
										GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
		H401114-																																									
		01 BS 1 @ 3'																																									
		02 BS 2 @ 3'																																									
		03 BS 3 @ 3'																																									

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Relinquished By:  Date: 4/9/14 Time: 2:47		Received By:  Date: Time:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Relinquished By: Date: Time:		Received By: Date: Time:		REMARKS: E-mail Results To: Ngladden@diversifiedfsi.com Rpons@diversifiedfsi.com Tjennings@diversifiedfsi.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 	

April 21, 2014

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: TURNER B #81

Enclosed are the results of analyses for samples received by the laboratory on 04/11/14 14:47.

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.

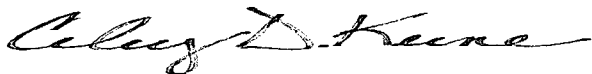
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/11/2014
 Reported: 04/21/2014
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 04/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SW 1 @ 1' (H401115-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2014	ND	2.54	127	2.00	0.0570	
Toluene*	<0.050	0.050	04/16/2014	ND	2.42	121	2.00	0.392	
Ethylbenzene*	<0.050	0.050	04/16/2014	ND	2.39	120	2.00	0.684	
Total Xylenes*	<0.150	0.150	04/16/2014	ND	6.93	115	6.00	1.27	
Total BTEX	<0.300	0.300	04/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 118 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/16/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/16/2014	ND	199	99.3	200	1.82	
DRO >C10-C28	<10.0	10.0	04/16/2014	ND	218	109	200	2.81	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/11/2014
 Reported: 04/21/2014
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 04/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SW 2 @ 1' (H401115-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/16/2014	ND	2.54	127	2.00	0.0570		
Toluene*	<0.050	0.050	04/16/2014	ND	2.42	121	2.00	0.392		
Ethylbenzene*	<0.050	0.050	04/16/2014	ND	2.39	120	2.00	0.684		
Total Xylenes*	<0.150	0.150	04/16/2014	ND	6.93	115	6.00	1.27		
Total BTEX	<0.300	0.300	04/16/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/16/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/16/2014	ND	199	99.3	200	1.82	
DRO >C10-C28	21.0	10.0	04/16/2014	ND	218	109	200	2.81	

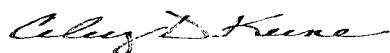
Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/11/2014
 Reported: 04/21/2014
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 04/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SW 3 @ 1' (H401115-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2014	ND	2.54	127	2.00	0.0570	
Toluene*	<0.050	0.050	04/16/2014	ND	2.42	121	2.00	0.392	
Ethylbenzene*	<0.050	0.050	04/16/2014	ND	2.39	120	2.00	0.684	
Total Xylenes*	<0.150	0.150	04/16/2014	ND	6.93	115	6.00	1.27	
Total BTEX	<0.300	0.300	04/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/16/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/16/2014	ND	199	99.3	200	1.82	
DRO >C10-C28	<10.0	10.0	04/16/2014	ND	218	109	200	2.81	


Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/11/2014
 Reported: 04/21/2014
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 04/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SW 4 @ 1' (H401115-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2014	ND	2.54	127	2.00	0.0570	
Toluene*	<0.050	0.050	04/16/2014	ND	2.42	121	2.00	0.392	
Ethylbenzene*	<0.050	0.050	04/16/2014	ND	2.39	120	2.00	0.684	
Total Xylenes*	<0.150	0.150	04/16/2014	ND	6.93	115	6.00	1.27	
Total BTEx	<0.300	0.300	04/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/16/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/16/2014	ND	199	99.3	200	1.82	
DRO >C10-C28	<10.0	10.0	04/16/2014	ND	218	109	200	2.81	

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/11/2014
 Reported: 04/21/2014
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 04/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SW 5 @ 1' (H401115-05)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/17/2014	ND	2.68	134	2.00	12.6	
Toluene*	<0.050	0.050	04/17/2014	ND	2.55	127	2.00	13.1	
Ethylbenzene*	<0.050	0.050	04/17/2014	ND	2.53	126	2.00	14.0	
Total Xylenes*	<0.150	0.150	04/17/2014	ND	7.29	122	6.00	13.9	
Total BTEX	<0.300	0.300	04/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 119 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/16/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/16/2014	ND	199	99.3	200	1.82	
DRO >C10-C28	<10.0	10.0	04/16/2014	ND	218	109	200	2.81	

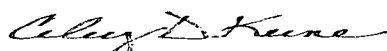
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/11/2014
 Reported: 04/21/2014
 Project Name: TURNER B #81
 Project Number: NONE GIVEN
 Project Location: MALJAMAR, NM

Sampling Date: 04/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SW 6 @ 1' (H401115-06)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/17/2014	ND	2.68	134	2.00	12.6	
Toluene*	<0.050	0.050	04/17/2014	ND	2.55	127	2.00	13.1	
Ethylbenzene*	<0.050	0.050	04/17/2014	ND	2.53	126	2.00	14.0	
Total Xylenes*	<0.150	0.150	04/17/2014	ND	7.29	122	6.00	13.9	
Total BTEx	<0.300	0.300	04/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/16/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/16/2014	ND	199	99.3	200	1.82	
DRO >C10-C28	<10.0	10.0	04/16/2014	ND	218	109	200	2.81	

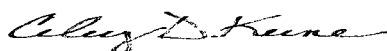
Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

Cardinal Laboratories

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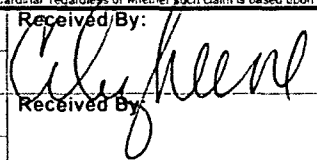
Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Linn Energy</u>		BILL TO		ANALYSIS REQUEST																							
Project Manager: <u>Brian Wall</u>		P.O. #:																									
Address:		Company: <u>Linn Energy</u>																									
City:	State:	Zip:	Attn: <u>Brian Wall</u>																								
Phone #:	Fax #:	Address:																									
Project #:	Project Owner:		City:																								
Project Name: <u>Sidewall + Bottom</u>			State:													Zip:											
Project Location: <u>Turner B 81 SW Sample</u>			Phone #:																								
Sampler Name: <u>Michael</u>			Fax #:																								
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	MATRIX					PRESERV		SAMPLING																
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
H401115-																											
01 SW 100'		8	1			X				X			4/9/14	12:01	X	X	X										
02 SW 200'		8	1			X				X			4/9/14	12:09	X	X	X										
03 SW 300'		8	1			X				X			4/9/14	12:11	X	X	X										
04 SW 400'		8	1			X				X			4/9/14	12:15	X	X	X										
05 SW 500'		8	1			X				X			4/9/14	12:25	X	X	X										
06 SW 600'		8	1			X				X			4/9/14	12:30	X	X	X										
07 SW 700'		8	1			X				X			4/9/14	12:35	X	X	X										

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Relinquished By: 	Date: <u>4/11/14</u> Time: <u>2:47</u>	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	<u>5.2C</u>	Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>CPH</u>
REMARKS:			E-mail Results To: Ngladden@diversifiedfsi.com Rpons@diversifiedfsi.com Tjennings@diversifiedfsi.com

Company Name: _____
Location Name: _____

SP Date: 4/29/2013
2/20/2014 2/27/2014
4/2/2014

Re-test Date: 4/11/17

SP1	CHL	TPH	SP2	CHL	TPH	SP3	CHL	TPH	SP4	CHL	TPH	SP5	CHL	TPH	SW1	CHL	TPH	SW2	CHL	TPH	SW3	CHL	TPH	SW4	CHL	TPH	SW5	CHL	TPH
Surface	128	600	Surface	4160	<10	Surface	299	0.2	Surface	160	1150	Surface	274	0.1	1"	274	0.4	1"	274	0.4	1"	274	0.3	1"	274	0.05	1"	274	0.4
1"	899	0.3	1"	299	0.2	1"	299	0.2	1"	174	18.6	1"	299	0.2	1"	274	0.4	1"	274	0.4	1"	274	0.3	1"	274	0.05	1"	274	0.4
2"	1449	0.3	2"	299	0.2	2"	299	0.2	2"	299	0.4	2"	299	0.2	2"	274	0.4	2"	274	0.4	2"	274	0.3	2"	274	0.05	2"	274	0.4
3"	224	0.3	3"	48	0.2	3"	48	0.2	3"	299	0.4	3"	299	0.2	3"	274	0.4	3"	274	0.4	3"	274	0.3	3"	274	0.05	3"	274	0.4
4"	1099	0.6	4"	80	0.2	4"	80	0.2	4"	299	0.4	4"	299	0.2	4"	274	0.4	4"	274	0.4	4"	274	0.3	4"	274	0.05	4"	274	0.4
5"	1524	1.4	5"	48	0.2	5"	48	0.2	5"	299	0.4	5"	299	0.2	5"	274	0.4	5"	274	0.4	5"	274	0.3	5"	274	0.05	5"	274	0.4
6"	1524	0.02	6"	48	0.2	6"	48	0.2	6"	299	0.4	6"	299	0.2	6"	274	0.4	6"	274	0.4	6"	274	0.3	6"	274	0.05	6"	274	0.4
7"	1324	0.6	7"	48	0.2	7"	48	0.2	7"	299	0.4	7"	299	0.2	7"	274	0.4	7"	274	0.4	7"	274	0.3	7"	274	0.05	7"	274	0.4
8"	1449	0.1	8"	48	0.2	8"	48	0.2	8"	299	0.4	8"	299	0.2	8"	274	0.4	8"	274	0.4	8"	274	0.3	8"	274	0.05	8"	274	0.4
9"	1049	0.4	9"	48	0.2	9"	48	0.2	9"	299	0.4	9"	299	0.2	9"	274	0.4	9"	274	0.4	9"	274	0.3	9"	274	0.05	9"	274	0.4
10"	1424	0.1	10"	48	0.2	10"	48	0.2	10"	299	0.4	10"	299	0.2	10"	274	0.4	10"	274	0.4	10"	274	0.3	10"	274	0.05	10"	274	0.4
11"	2499	0.4	11"	48	0.2	11"	48	0.2	11"	299	0.4	11"	299	0.2	11"	274	0.4	11"	274	0.4	11"	274	0.3	11"	274	0.05	11"	274	0.4
12"	1449	1.07	12"	48	0.2	12"	48	0.2	12"	299	0.4	12"	299	0.2	12"	274	0.4	12"	274	0.4	12"	274	0.3	12"	274	0.05	12"	274	0.4
13"	1399	0.7	13"	48	0.2	13"	48	0.2	13"	299	0.4	13"	299	0.2	13"	274	0.4	13"	274	0.4	13"	274	0.3	13"	274	0.05	13"	274	0.4
14"	1399	0.7	14"	48	0.2	14"	48	0.2	14"	299	0.4	14"	299	0.2	14"	274	0.4	14"	274	0.4	14"	274	0.3	14"	274	0.05	14"	274	0.4
15"	1399	0.7	15"	48	0.2	15"	48	0.2	15"	299	0.4	15"	299	0.2	15"	274	0.4	15"	274	0.4	15"	274	0.3	15"	274	0.05	15"	274	0.4
16"	1399	0.7	16"	48	0.2	16"	48	0.2	16"	299	0.4	16"	299	0.2	16"	274	0.4	16"	274	0.4	16"	274	0.3	16"	274	0.05	16"	274	0.4
17"	1374	0.9	17"	48	0.2	17"	48	0.2	17"	299	0.4	17"	299	0.2	17"	274	0.4	17"	274	0.4	17"	274	0.3	17"	274	0.05	17"	274	0.4
18"	749	13.8	18"	48	0.2	18"	48	0.2	18"	299	0.4	18"	299	0.2	18"	274	0.4	18"	274	0.4	18"	274	0.3	18"	274	0.05	18"	274	0.4
19"	684		19"	48	0.2	19"	48	0.2	19"	299	0.4	19"	299	0.2	19"	274	0.4	19"	274	0.4	19"	274	0.3	19"	274	0.05	19"	274	0.4

SW6	CHL	TPH	SW7	CHL	TPH	BS1	CHL	TPH	BS2	CHL	TPH	BS3	CHL	TPH	SP16	CHL	TPH	SP17	CHL	TPH	SP18	CHL	TPH	SP19	CHL	TPH
1"	448	<10	1"	448	<10	1"	448	<10	1"	448	<10	1"	448	<10	1"	448	<10	1"	448	<10	1"	448	<10	1"	448	<10
2"	448	<10	2"	448	<10	2"	448	<10	2"	448	<10	2"	448	<10	2"	448	<10	2"	448	<10	2"	448	<10	2"	448	<10
3"	448	<10	3"	448	<10	3"	448	<10	3"	448	<10	3"	448	<10	3"	448	<10	3"	448	<10	3"	448	<10	3"	448	<10
4"	448	<10	4"	448	<10	4"	448	<10	4"	448	<10	4"	448	<10	4"	448	<10	4"	448	<10	4"	448	<10	4"	448	<10
5"	448	<10	5"	448	<10	5"	448	<10	5"	448	<10	5"	448	<10	5"	448	<10	5"	448	<10	5"	448	<10	5"	448	<10
6"	448	<10	6"	448	<10	6"	448	<10	6"	448	<10	6"	448	<10	6"	448	<10	6"	448	<10	6"	448	<10	6"	448	<10
7"	448	<10	7"	448	<10	7"	448	<10	7"	448	<10	7"	448	<10	7"	448	<10	7"	448	<10	7"	448	<10	7"	448	<10
8"	448	<10	8"	448	<10	8"	448	<10	8"	448	<10	8"	448	<10	8"	448	<10	8"	448	<10	8"	448	<10	8"	448	<10
9"	448	<10	9"	448	<10	9"	448	<10	9"	448	<10	9"	448	<10	9"	448	<10	9"	448	<10	9"	448	<10	9"	448	<10
10"	448	<10	10"	448	<10	10"	448	<10	10"	448	<10	10"	448	<10	10"	448	<10	10"	448	<10	10"	448	<10	10"	448	<10
11"	448	<10	11"	448	<10	11"	448	<10	11"	448	<10	11"	448	<10	11"	448	<10	11"	448	<10	11"	448	<10	11"	448	<10
12"	448	<10	12"	448	<10	12"	448	<10	12"	448	<10	12"	448	<10	12"	448	<10	12"	448	<10	12"	448	<10	12"	448	<10
13"	448	<10	13"	448	<10	13"	448	<10	13"	448	<10	13"	448	<10	13"	448	<10	13"	448	<10	13"	448	<10	13"	448	<10
14"	448	<10	14"	448	<10	14"	448	<10	14"	448	<10	14"	448	<10	14"	448	<10	14"	448	<10	14"	448	<10	14"	448	<10
15"	448	<10	15"	448	<10	15"	448	<10	15"	448	<10	15"	448	<10	15"	448	<10	15"	448	<10	15"	448	<10	15"	448	<10
16"	448	<10	16"	448	<10	16"	448	<10	16"	448	<10	16"	448	<10	16"	448	<10	16"	448	<10	16"	448	<10	16"	448	<10
17"	448	<10	17"	448	<10	17"	448	<10	17"	448	<10	17"	448	<10	17"	448	<10	17"	448	<10	17"	448	<10	17"	448	<10
18"	448	<10	18"	448	<10	18"	448	<10	18"	448	<10	18"	448	<10	18"	448	<10	18"	448	<10	18"	448	<10	18"	448	<10
19"	448	<10	19"	448	<10	19"	448	<10	19"	448	<10	19"	448	<10	19"	448	<10	19"	448	<10	19"	448	<10	19"	448	<10

Lab Confirmation Sample
Field Sampling
Neven Determination and Confirmation Samples



Appendix V

CORRESPONDENCE

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

Natalie Gladden

From: Burton, Michael <mburton@blm.gov>
Sent: Monday, March 31, 2014 3:23 PM
To: Natalie Gladden
Subject: Re: Linn Energy Turner B #81

Natalie,
This plan is approved. Thanks

Mike Burton
BLM-CFO
Environmental Protection Specialist
575-234-2226 office
575-361-3574 cell
mburton@blm.gov

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On Mon, Mar 31, 2014 at 9:10 AM, Natalie Gladden <ngladden@diversifiedfsi.com> wrote:

Mr. Bratcher and Mr. Burton,

Please find the Remediation Work Plan for the Linn Energy Turner B #81 site. Please review, and concur if approved.

Thanks and have a great week!

Natalie Gladden

ENVIRONMENTAL DIRECTOR

DFSI ENVIRONMENTAL SERVICES

CELL: 575-602-1786

OFFICE: 575-964-8394

FAX: 575-964-8396

EMAIL: ngladden@diversifiedfsi.com

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Diversified Field Service, Inc.

Thursday March 27, 2014

Environmental Department

3412 N. Dal Paso

Hobbs, NM 88240

Phone: (575)964-8394

Fax: (575)964-8396

Mike Bratcher

NMOCD

Environmental Specialist

811 S First St.

Artesia, NM 882210

RE: Linn Energy Turner B #81 – Work Remediation Plan

UL/J, Section 29, T17S

R31E API No.

30-015-26389

Mr. Bratcher

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

The site is located northwest of Maljamar NM, in Eddy County. The site resulted from a flow line leak due to corrosion of fittings around the well head. The line rupture released fluids approximately 400 ft. east of location impacting a small area about 30 ft. long by 1 ft. wide. This was a non-reportable incident that occurred on August 23, 2012.

Therefore, no C-141 was formally filed with the NMOCD.

Proposed Site Activities

DFSI personnel scraped and cleaned the site area. Impacted soils will be removed to an NMOCD approved disposal facility. All soil samples were submitted to a commercial laboratory for analyses. There were five sample points, and all sample points returned acceptable levels at 1ft. to 2ft. bgs., with the exception of SP1. The lab confirmed a reduction in Chloride analyses to below 304 mg/kg at SP2 thru SP5. SP2 thru SP5 would be excavated from 1ft. bgs. to 1.5 ft. bgs. respectively and backfilled. SP1 was delineated to 20ft. bgs., and indicated a steady decrease in Chlorides. Due to the location of SP1, which is at the wellhead, DFSI is proposing to excavate this area to 4ft. bgs. and backfill. SP4 and SP5 were in pasture area. This area will be re-seeded and restored to its natural state according to BLM guidelines.

Conclusion

Upon completion of remediation activities in accordance with NMOCD and BLM requirements, DFSI will submit a request to close the regulatory file for the site.

Please contact me with any questions and/or concerns. Thank you.

Diversified Field Service, Inc.

Thursday March 27, 2014

Environmental Department


3412 N. Dal Paso

Hobbs, NM 88240

Phone: (575)964-8394

Fax: (575)964-8396

Sincerely,

A handwritten signature in black ink that reads "Natalie Gladden". The signature is fluid and cursive, with the first name "Natalie" and last name "Gladden" clearly distinguishable.

Natalie Gladden

Environmental Consultant

Diversified Field Service, Inc.

315 S. Leech

Hobbs, NM 88240

Office: (575)397-6437

Mobile: (575)602-1786

Fax: (575)393-2981

Attachments: Site Diagram
Site Photographs
Initial Form C-141
Labs

cc Mike Bratcher BLM

Appendix VI

FINAL FORM C-141

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

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

State of New Mexico
Energy Minerals and Natural Resources
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 B #81	Facility Type: Oil Production

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-26389
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LOCATION OF RELEASE

Unit Letter J	Section 29	Township 17S	Range 31E	Feet from the 2545	North/South Line South	Feet from the 2615	East/West Line East	County Eddy
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Latitude 32.8053082596052 Longitude -103.891817672312

NATURE OF RELEASE

Type of Release: Oil	Volume of Release .5bbls/.5bbls	Volume Recovered 0
Source of Release: pipeline	Date and Hour of Occurrence 08/23/2012 12:15 pm	Date and Hour of Discovery 08/23/12 12:20pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM Terry Gregston, Mike Bratcher NMOCD	
By Whom? Joe Hernandez	Date and Hour: 12/23/12 12:20 PM	
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	<div>RECEIVED MAY 06 2014 NMOCD ARTESIA</div>
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Describe Cause of Problem and Remedial Action Taken.* 1/2 inch nipple between the valve and elbow on the flow line was leaking due to corrosion on the fittings that leaked around the well head. The fittings were replace.

Describe Area Affected and Cleanup Action Taken.* The spill traversed approximately 15 ft. Northwest of the location, impacting an area of 30 feet long by 1 ft wide. Linn energy retained DFSI for the remediation of this site. All impacted soil was removed to an NMOCD approved facility. The impacted pasture area was remediated and re-seeded according to BLM guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Brian Wall		Approved by Environmental Specialist:	
Title: Construction Foreman II		Approval Date:	Expiration Date:
E-mail Address: bwall@linenergy.com		Conditions of Approval:	
Date: 04/28/2014 Phone: 806-367-0645		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary