

Bratcher, Mike, EMNRD

From: Amy Ruth <aruth@diversifiedfsi.com>
Sent: Tuesday, November 05, 2013 10:35 AM
To: Bratcher, Mike, EMNRD
Cc: Wall, Fred; Michael Patterson
Subject: 2RP-1873 Linn Energy Turner A #45
Attachments: Linn Energy Turner A #45 - Site Diagram w Sample Data.pdf; Linn Energy Turner A #45 Photo Page.pdf; H302385 LINN.pdf; H302539 LINN.pdf; Linn Energy Turner A #45 Groundwater Search TR.pdf

Hi Mike,

I had previously submitted a work plan for this site with an initial photo of the leak. We have completed delineating the leak area, and I have enclosed a site diagram, photos, 2 lab reports, and our groundwater search for your reference. I have provided some detail below and would like to propose an excavation to address this leak and backfill with compacted caliche if that is acceptable to you via email.

The site was excavated to 1' bgs to keep the source from percolating. The diagram shows an older view of the caliche pad that was available from Google Earth. The site looks very different now. Apache Corporation has expanded the caliche pad and installed a well immediately south of the Turner A #45, and in fact, shares the new caliche pad with that well. This is more apparent in the included photos. The leak occurred on top of and well within the boundaries of this new caliche pad.

For SP2 and SP4, the delineation field data shows that the numbers are reasonably low at 2'. Chloride at SP1 remains near 1000 mg/kg at 3' though it does show a downward trend with depth. SP3 fluctuates some before showing the same downward trend to complete at 8' bgs, though the field data does not exceed 1049 mg/kg within the lower profile. Our groundwater study for the surrounding township/ranges averages 236 ft for qualifying wells. The NMOCD groundwater trend map extrapolates depth to groundwater at 325 to 350 ft bgs.

Due to depth of groundwater and the depth of impact at the site, I would like to propose a 3' excavation in the vicinity of SP1 and a 2' excavation across the remaining leak area. Please call me with any questions and suggestions at your convenience.

Thank you!

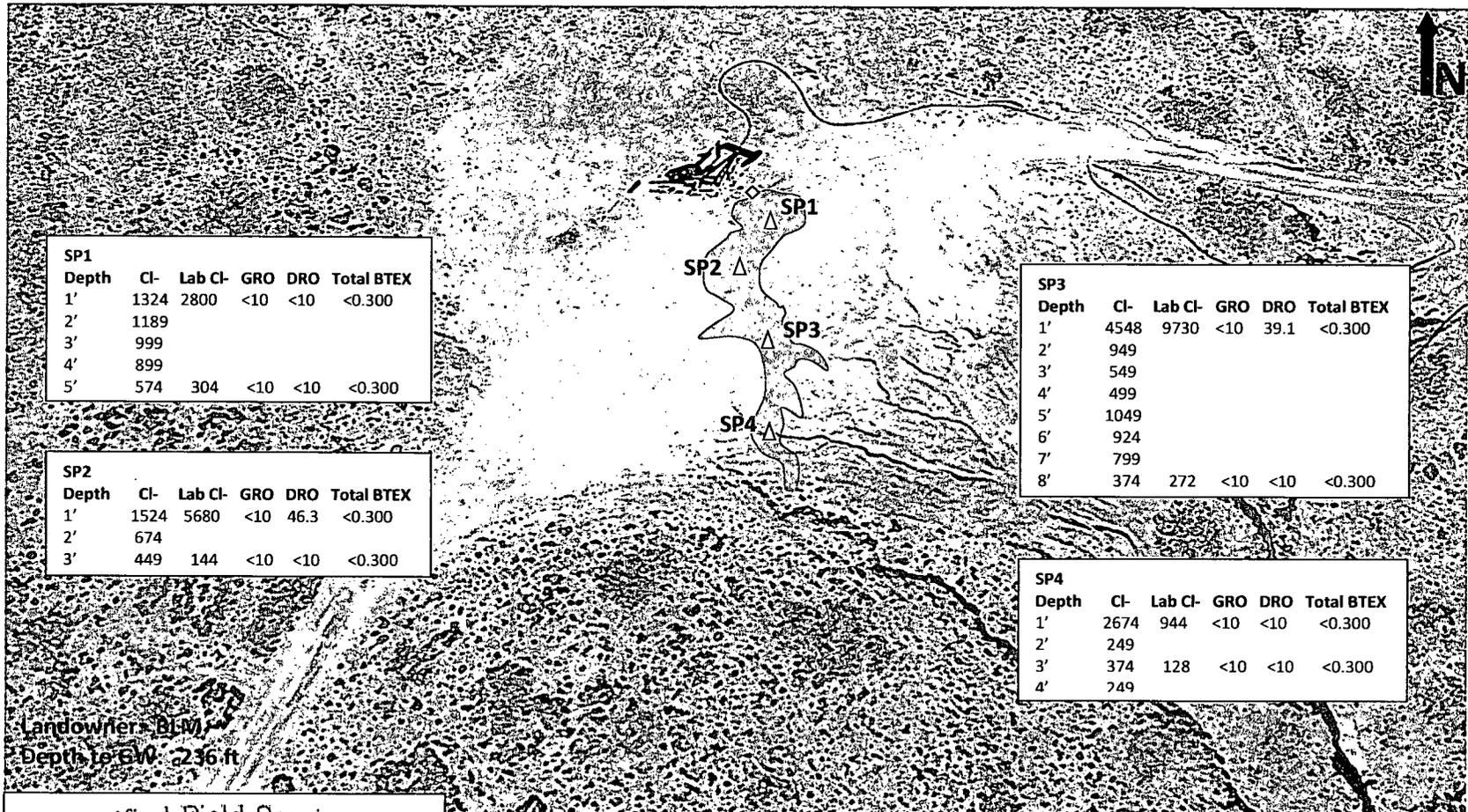
Amy C. Ruth

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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Site Diagram with Sample Data



SP1					
Depth	Cl-	Lab Cl-	GRO	DRO	Total BTEX
1'	1324	2800	<10	<10	<0.300
2'	1189				
3'	999				
4'	899				
5'	574	304	<10	<10	<0.300

SP2					
Depth	Cl-	Lab Cl-	GRO	DRO	Total BTEX
1'	1524	5680	<10	46.3	<0.300
2'	674				
3'	449	144	<10	<10	<0.300

SP3					
Depth	Cl-	Lab Cl-	GRO	DRO	Total BTEX
1'	4548	9730	<10	39.1	<0.300
2'	949				
3'	549				
4'	499				
5'	1049				
6'	924				
7'	799				
8'	374	272	<10	<10	<0.300

SP4					
Depth	Cl-	Lab Cl-	GRO	DRO	Total BTEX
1'	2674	944	<10	<10	<0.300
2'	249				
3'	374	128	<10	<10	<0.300
4'	749				

Landowner: BLM
 Depth to GW: 236 ft

Diversified Field Services, Inc.

C.C. & Co, LLC

J & M Welding and Fabrication, Inc.

Diversified Construction

- Legend
- Stained Area (total 2,500 ft²)
 - Leak Source
 - Sample Point

Linn Energy Turner A

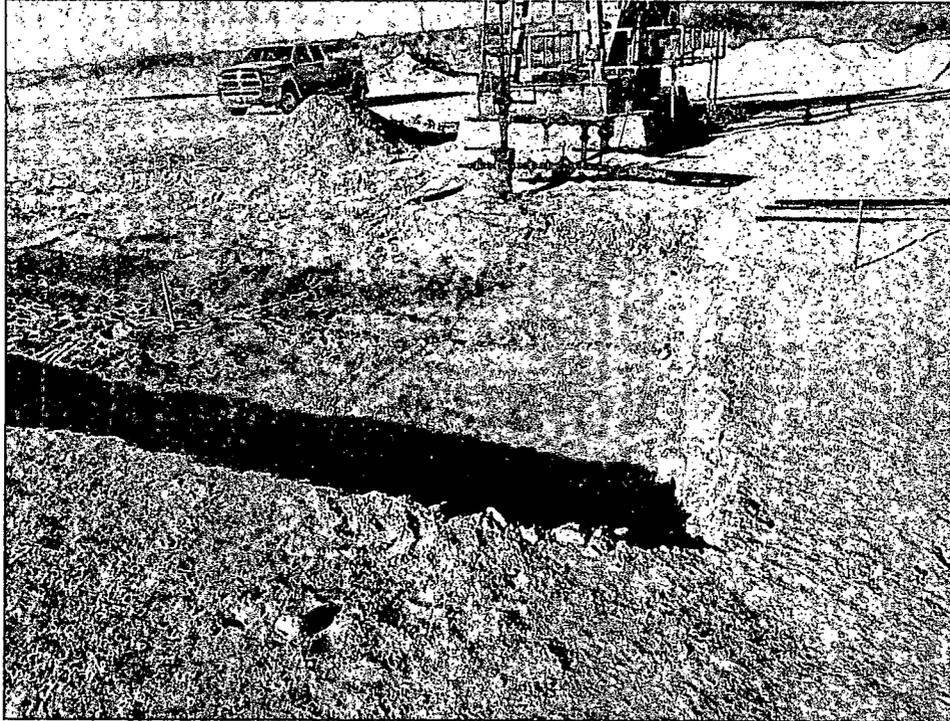
#045

UL/C, Sec 19, T17S R31E
 Eddy County, NM

Drafted By: A.C. Ruth, 11/4/13
 Not to Scale

Linn Energy Turner A #45

Unit Letter C, Section 19, T17S R31E



Excavated to 1 ft., facing west

10/26/13



Excavated to 1 ft., facing south

10/26/13

October 03, 2013

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: TURNER A #45

Enclosed are the results of analyses for samples received by the laboratory on 10/01/13 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.

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:	10/01/2013	Sampling Date:	10/01/2013
Reported:	10/03/2013	Sampling Type:	Soil
Project Name:	TURNER A #45	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' SURFACE (H302385-01)

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	10/02/2013	ND	1.97	98.6	2.00	1.41		
Toluene*	<0.050	0.050	10/02/2013	ND	2.03	102	2.00	2.05		
Ethylbenzene*	<0.050	0.050	10/02/2013	ND	2.13	106	2.00	1.11		
Total Xylenes*	<0.150	0.150	10/02/2013	ND	6.56	109	6.00	1.13		
Total BTEX	<0.300	0.300	10/02/2013	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	10/02/2013	ND	432	108	400	3.64		

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	10/02/2013	ND	206	103	200	0.565		
DRO >C10-C28	<10.0	10.0	10/02/2013	ND	203	102	200	4.45		

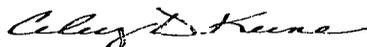
Surrogate: 1-Chlorooctane 99.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 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:	10/01/2013	Sampling Date:	10/01/2013
Reported:	10/03/2013	Sampling Type:	Soil
Project Name:	TURNER A #45	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' SURFACE (H302385-02)

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	10/02/2013	ND	1.97	98.6	2.00	1.41		
Toluene*	<0.050	0.050	10/02/2013	ND	2.03	102	2.00	2.05		
Ethylbenzene*	<0.050	0.050	10/02/2013	ND	2.13	106	2.00	1.11		
Total Xylenes*	<0.150	0.150	10/02/2013	ND	6.56	109	6.00	1.13		
Total BTEX	<0.300	0.300	10/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5680	16.0	10/02/2013	ND	432	108	400	3.64		

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	10/02/2013	ND	206	103	200	0.565		
DRO >C10-C28	46.3	10.0	10/02/2013	ND	203	102	200	4.45		

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 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:	10/01/2013	Sampling Date:	10/01/2013
Reported:	10/03/2013	Sampling Type:	Soil
Project Name:	TURNER A #45	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' SURFACE (H302385-03)

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	10/02/2013	ND	1.97	98.6	2.00	1.41		
Toluene*	<0.050	0.050	10/02/2013	ND	2.03	102	2.00	2.05		
Ethylbenzene*	<0.050	0.050	10/02/2013	ND	2.13	106	2.00	1.11		
Total Xylenes*	<0.150	0.150	10/02/2013	ND	6.56	109	6.00	1.13		
Total BTEX	<0.300	0.300	10/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9730	16.0	10/02/2013	ND	432	108	400	3.64		

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	10/02/2013	ND	206	103	200	0.565		
DRO >C10-C28	39.1	10.0	10/02/2013	ND	203	102	200	4.45		

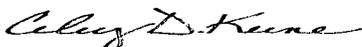
Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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* = 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:	10/01/2013	Sampling Date:	10/01/2013
Reported:	10/03/2013	Sampling Type:	Soil
Project Name:	TURNER A #45	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 1' SURFACE (H302385-04)

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	10/02/2013	ND	1.97	98.6	2.00	1.41		
Toluene*	<0.050	0.050	10/02/2013	ND	2.03	102	2.00	2.05		
Ethylbenzene*	<0.050	0.050	10/02/2013	ND	2.13	106	2.00	1.11		
Total Xylenes*	<0.150	0.150	10/02/2013	ND	6.56	109	6.00	1.13		
Total BTEX	<0.300	0.300	10/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	10/02/2013	ND	432	108	400	3.64		

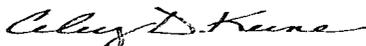
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/02/2013	ND	206	103	200	0.565		
DRO >C10-C28	<10.0	10.0	10/02/2013	ND	203	102	200	4.45		

Surrogate: 1-Chlorooctane 109 % 65.2-140
Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

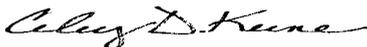
Notes and Definitions

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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Linn Energy</u>				BILL TO				ANALYSIS REQUEST																																	
Project Manager: <u>Brian Wall</u>				P.O. #:																																					
Address:				Company:																																					
City:		State:		Zip:		Attn:																																			
Phone #:		Fax #:		Address:																																					
Project #:		Project Owner:		City: <u>Same</u>																																					
Project Name:				State:																Zip:																					
Project Location: <u>Turner A #45</u>				Phone #:																																					
Sampler Name: <u>Miguel Gomez</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													
<u>H302389</u>																														chloride TJH BOLS M BTEX											
		<u>1 S1 @ 1' surface</u>		<u>6</u>		<u>1</u>																				<u>10-1-13</u>		<u>1:23</u>													
		<u>2 S2 @ 1' surface</u>		<u>6</u>		<u>1</u>																				<u>10-1-13</u>		<u>1:25</u>													
		<u>3 S3 @ 1' surface</u>		<u>6</u>		<u>1</u>																				<u>10-1-13</u>		<u>1:27</u>													
		<u>4 S4 @ 1' surface</u>		<u>6</u>		<u>1</u>																				<u>10-1-13</u>		<u>1:29</u>													

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Relinquished By: <u>Miguel Gomez</u>		Date: <u>10/1/13</u>		Received By: <u>Jodi Henson</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <u>4:25</u>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: <u>Bwall@linenergy.com</u> <u>aruth@diversifiedfsi.com</u>			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: <u>5.80</u>				Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<u>[Signature]</u>			

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

#54



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

October 25, 2013

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: TURNER A #45

Enclosed are the results of analyses for samples received by the laboratory on 10/21/13 16:07.

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,

A handwritten signature in cursive script that reads "Celey D. Keene".

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:	10/21/2013	Sampling Date:	10/21/2013
Reported:	10/25/2013	Sampling Type:	Soil
Project Name:	TURNER A #45	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 5' (H302539-01)

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	10/22/2013	ND	2.14	107	2.00	0.577		
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813		
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211		
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365		
Total BTEX	<0.300	0.300	10/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 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	304	16.0	10/22/2013	ND	432	108	400	7.69		

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	10/22/2013	ND	200	99.9	200	3.36		
DRO >C10-C28	<10.0	10.0	10/22/2013	ND	192	95.9	200	2.97		

Surrogate: 1-Chlorooctane 125 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 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:	10/21/2013	Sampling Date:	10/21/2013
Reported:	10/25/2013	Sampling Type:	Soil
Project Name:	TURNER A #45	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 3' (H302539-02)

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	10/22/2013	ND	2.14	107	2.00	0.577		
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813		
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211		
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365		
Total BTEX	<0.300	0.300	10/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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	144	16.0	10/22/2013	ND	432	108	400	7.69		

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	10/24/2013	ND	180	90.0	200	2.46		
DRO >C10-C28	<10.0	10.0	10/24/2013	ND	175	87.4	200	1.75		

Surrogate: 1-Chlorooctane 89.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.4 % 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:	10/21/2013	Sampling Date:	10/21/2013
Reported:	10/25/2013	Sampling Type:	Soil
Project Name:	TURNER A #45	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 8' (H302539-03)

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	10/22/2013	ND	2.14	107	2.00	0.577		
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813		
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211		
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365		
Total BTEX	<0.300	0.300	10/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 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	272	16.0	10/22/2013	ND	432	108	400	7.69		

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	10/24/2013	ND	180	90.0	200	2.46		
DRO >C10-C28	<10.0	10.0	10/24/2013	ND	175	87.4	200	1.75		

Surrogate: 1-Chlorooctane 88.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.7 % 63.6-154

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Analytical Results For:

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

Received:	10/21/2013	Sampling Date:	10/21/2013
Reported:	10/25/2013	Sampling Type:	Soil
Project Name:	TURNER A #45	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 3' (H302539-04)

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	10/22/2013	ND	2.14	107	2.00	0.577		
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813		
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211		
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365		
Total BTEX	<0.300	0.300	10/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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	128	16.0	10/22/2013	ND	432	108	400	7.69		

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	10/23/2013	ND	180	90.0	200	2.46		
DRO >C10-C28	<10.0	10.0	10/23/2013	ND	175	87.4	200	1.75		

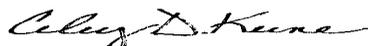
Surrogate: 1-Chlorooctane 82.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

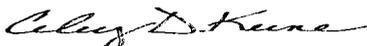
Notes and Definitions

- 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: <i>Linn Energy</i>			BILL TO				ANALYSIS REQUEST																				
Project Manager: <i>Brian Wall</i>			P.O. #:																								
Address:			Company:																								
City:	State:		Zip:			Attn:																					
Phone #:	Fax #:		Address:			<i>Same</i>																					
Project #:	Project Owner:		City:																								
Project Name:			State:														Zip:										
Project Location: <i>Turner A #45</i>			Phone #:														Fax #:										
Sampler Name: <i>Miguel Gomez</i>			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	Chloride	TPH	BTEX											
	<i>H302539</i>																										
	<i>1 SA1 @ 5</i>		<i>5</i>	<i>1</i>								<i>10-21-13</i>	<i>9:18</i>	<i>/</i>	<i>/</i>	<i>/</i>											
	<i>2 SA2 @ 31</i>		<i>5</i>	<i>1</i>								<i>10-21-13</i>	<i>9:33</i>	<i>/</i>	<i>/</i>	<i>/</i>											
	<i>3 SA3 @ 8</i>		<i>4</i>	<i>1</i>								<i>10-21-13</i>	<i>2:20</i>	<i>/</i>	<i>/</i>	<i>/</i>											
	<i>4 SA4 @ 31</i>		<i>4</i>	<i>1</i>								<i>10-21-13</i>	<i>10:25</i>	<i>/</i>	<i>/</i>	<i>/</i>											

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Relinquished By: <i>Miguel Gomez</i>		Date: <i>10/21/13</i>		Received By: <i>Jodi Henson</i>		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 #:	
Time:		Time:		Time:		REMARKS:			
						<i>Bwall@Linnenergy.com</i>			
						<i>A.ruth@diversifiedpsi.com</i>			
Delivered By: (Circle One)				Sample Condition:		CHECKED BY:			
Sampler - UPS - Bus - Other:				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		<i>[Signature]</i>			

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

#54



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

No records found.

PLSS Search:

Township: 16S Range: 30E

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4/29/13 12:38 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,

O=orphaned,

C=the file is (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								
<u>L 03435</u>	L	LE		1	1	05	16S	31E	602954	3646955*				
<u>L 03852</u>	R	LE		2	2	14	16S	31E	609126	3643913*	370	314	56	
<u>L 03852 POD4</u>	L	LE		3	4	13	16S	31E	609744	3642516*	333	299	34	
<u>L 03852 POD5</u>	L	LE		3	2	13	16S	31E	610238	3643427*	328	295	33	
<u>L 03852 X</u>	R	LE		4	4	13	16S	31E	610749	3642526*	333	299	34	
<u>L 03852 X2</u>	L	LE		3	2	13	16S	31E	610535	3643733*	330	287	43	
<u>L 04671</u>	L	LE		1	1	12	16S	31E	610114	3645538*	340	288	52	
<u>L 10203</u>	L	LE		4	4	14	16S	31E	608334	3642495*	310			
<u>L 10206</u>	L	LE		2	2	23	16S	31E	609045	3642204*	280			

Average Depth to Water: **297 feet**

Minimum Depth: **287 feet**

Maximum Depth: **314 feet**

Record Count: 9

PLSS Search:

Township: 16S

Range: 31E

*UTM location was derived from PLSS - see Help

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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-		Q Q Q				X	Y	Depth Well	Depth Water	Water Column		
	Code	basin	County	64	16	4						Sec	Tws
<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	1	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	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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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

No records found.

PLSS Search:

Township: 17S Range: 30E

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4/29/13 12:40 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,
O=orphaned,

C=the file is (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			Sec	Tws	Rng	X	Y	Depth Well	Depth Water Column
	Sub-	Q	Q							
RA 11590 POD1	ED	2	1	32	17S	31E	603315	3628545	158	
RA 11590 POD3	ED	3	1	2	32	17S	603932	3629260	60	
RA 11590 POD4	ED	4	1	1	32	17S	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 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 Q Q			Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
				64	16	4								
<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		

Average Depth to Water: **132 feet**

Minimum Depth: **132 feet**

Maximum Depth: **132 feet**

Record Count: 17

PLSS Search:

Township: 17S

Range: 32E

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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(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 Column	Water
	Sub-	Code	basin											
<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		
<u>L 01978</u>	L	LE		1	3	23	18S	30E		598469	3621964*	65	44	21

Average Depth to Water: **44 feet**

Minimum Depth: **44 feet**

Maximum Depth: **44 feet**

Record Count: 3

PLSS Search:

Township: 18S

Range: 30E

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,

O=orphaned,

C=the file is (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	64	16	4	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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Water Column/Average Depth to Water

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

(In feet)

POD Number	POD Sub-	Code	basin	County	64	16	4	Q Q Q	Sec	Tws	Rng	X	Y	Depth	Depth	Water
														Well	Water	Column
<u>CP 00566</u>		LE			4	4	1	04	18S	32E	614960	3627280*	133	65	68	
<u>CP 00672</u>		LE			4	4	07	18S	32E	612475	3624947*	524	430	94		
<u>CP 00672 CLW475398</u>	O	LE			4	4	07	18S	32E	612475	3624947*	540	460	80		
<u>CP 00677</u>		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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