

Turner B North Tank Battery

CLOSURE REPORT

2RP-1733 2RP-1734 2RP-1896

API No. 30-015-26612

Release Date: July 13, 2013, July 15, 2013, and August 27, 2013

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

November 14, 2013

Prepared by:

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

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

Turner B North Tank Battery

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 west of Maljamar NM, in Eddy County. The site resulted from several crude oil and produced water leaks within the battery firewall. Three of those leak events are addressed in full herein. The first leak occurred on July 13, 2013 when fluids leaked from a corroded tank bottom. A form C-141 was submitted to the NMOCD on July 16, 2013 (Appendix I). The second leak occurred on July 15, 2013 and resulted from a hole in a circulating steel line within the battery. A form C-141 was submitted on July 16, 2013. The third leak occurred on August 27, 2013 when a corroded tank bottom released fluids into the battery earthen containment area. A form C-141 was submitted to the NMOCD on August 28, 2013.

2 SITE ACTIVITIES

On September 6, 2013, Linn completed the removal of the tank battery equipment (See Site Photographs in Appendix II). DFSI personnel began excavating saturated soils by hand from the area of the lact unit contained at the north end, and also began excavating visually impacted soils from the main tank area. The earthen berms including the underlying soils were also removed. The lact unit was also temporarily relocated to allow for excavation and drilling beneath.

The entire area was excavated to 4 ft. below ground surface (bgs). The excavated soils were removed to a NMOCD approved disposal facility. Due to a rain event, the excavation bottom was dressed with a layer of clean imported caliche for ease of access by a drill rig.

On September 16, 2013 a drill rig was used to collect soil samples from 3 locations centrally placed within the excavation (Figure). At each soil bore, sampling commenced at 5 ft. below the excavation floor. Samples were collected in 5 ft. intervals, and were field screened for chloride and visual staining. Sampling continued at each soil bore until two consecutive samples with low chloride were obtained. Samples from each soil bore were submitted to a commercial laboratory for chloride, TPH (GRO/DRO), and BTEX (Benzene, Toluene, Ethyl benzene, Xylene) analyses (Appendix IV).

At DP1 (drill point), chloride at 54 ft. bgs was 448 mg/kg, GRO was less than 10 mg/kg, DRO was 13.1 mg/kg, and Total BTEX showed less than 0.300 mg/kg. Chloride in both DP2 and DP3 at 34 Diversified Field Service, Inc. Page 1

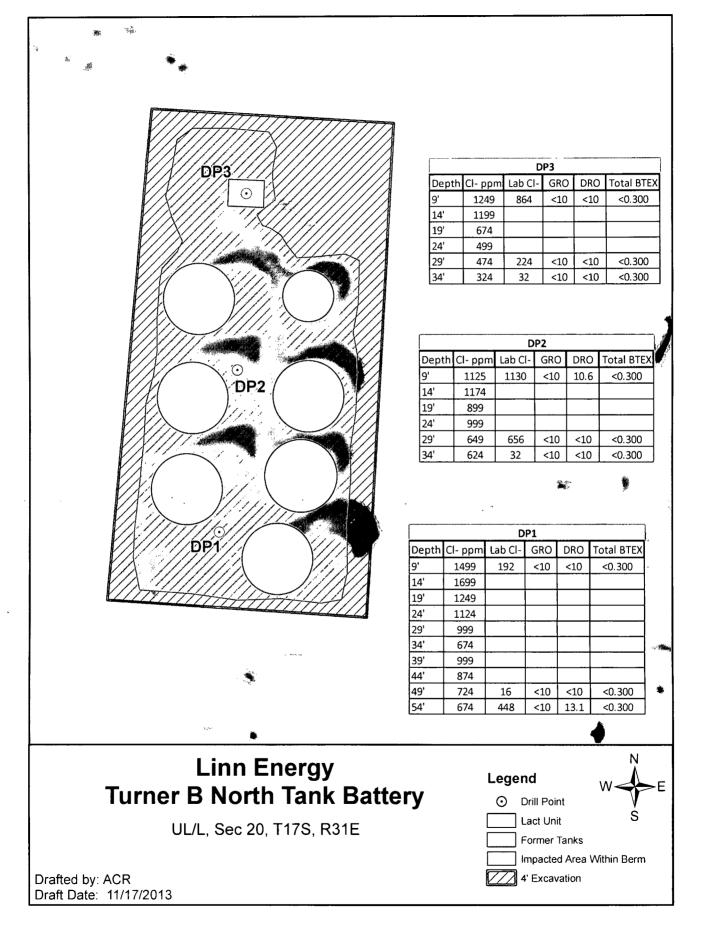
ft. bgs was 32 mg/kg, GRO/DRO were each less than 10 mg/kg, and Total BTEX showed less than 0.300 mg/kg. The soil bores were backfilled with clean soil and capped with bentonite.

On September 17, 2013 a 20 mil reinforced plastic liner was installed in the excavation floor. The excavation was backfilled with clean soil and caliche to ground surface, leveled, and compacted. A secondary containment system with steel sidewalls and a polyethylene liner was constructed above the compacted backfill. The new facility was assembled within the secondary containment.

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 263 ft. bgs (Appendix III). Based on the removal of soils containing elevated chloride and visual staining at the site, and the placement of a liner at 3 ft bgs, Linn submits the final NMOCD form C-141 (Appendix V) and respectfully requests the closure of the regulatory file for the site.

FIGURE - Site Diagram



Appendix I

INITIAL FORM C-141

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

District I State of	New Maying	RECEIVED						
1625 N. French Dr. Hobbs NM 88240	FNew Mexico and Natural Resource		n C-141 r 10, 2003					
1301 W. Grand Avenue, Artesia, NM 88210	ervation Division	Submit I Copy to appropriate District	Office in					
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 Sout	h St. Francis Dr.	NMOCD ARTERIA) NMAC					
	Fe, NM 87505							
Release Notificatio	on and Corrective	e Action						
NJMW1319932108	OPERATOR	🛛 Initial Report 🗌 Fin	al Report					
Name of Company: Linn Operating 269324 Address: 2130 W. Bender Hobbs, NM 88240	Contact: Gary Wink	<u>9 1730</u>						
Facility Name: Turner B North Battery - (Turner B 95)	Telephone No.: 575-738-1739 Facility Type: Battery - (closest well to spill)							
Surface Owner: Federal Mineral Owner	: Federal	API No.: 3001526612						
	ON OF RELEASE							
	th/South Line Feet from South 1000	the East/West Line County West Eddy						
			J					
Latitude: 32.81997112365	09 Longitude: -103.897	7239412252						
	E OF RELEASE							
Type of Release: Oil Source of Release: Tank	Volume of Release: 60 Date and Hour of Occu							
Was Immediate Notice Given?	07/13/2013 8:00am If YES, To Whom?	07/13/2013 8:00am						
Yes □ No □ Not Required		Mike Burton-BLM						
By Whom? Gary Wink	Date and Hour 07/15/2							
Was a Watercourse Reached?	If YES, Volume Impac	ting the Watercourse.						
If a Watercourse was Impacted, Describe Fully.*:								
	i							
Describe Cause of Problem and Remedial Action Taken.*: 7-12-13 clea	aned out tank #4 moved 60	BBLS of production over to tank #1.7-13-13 P	ulled up					
to battery seen oil tank #1 leaking from the bottom.called vac truck to pi	ick up stand fluid.							
Describe Area Affected and Cleanup Action Taken.* : Affected area app	prox 15'X20'.							
	·							
I hereby certify that the information given above is true and complete to								
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by								
should their operations have failed to adequately investigate and remedi or the environment. In addition, NMOCD acceptance of a C-141 report	ate contamination that pose	a threat to ground water, surface water, human	n health					
federal, state, or local laws and/or regulations.	· · · · · · · · · · · · · · · · · · ·							
Signature Harry W. Wink	OILC	ONSERVATION DIVISION						
Signature: Harry W. Winte	<u>.</u>							
Printed Name: Gary W. Wink U	Approved by District Sur	Signed By Mily Draney	<u>en</u>					
Title: Production Foreman	Approval Date: JUL 1.8	2013 Expiration Date:						
E-mail Address: gawink@linnencrgy.com	Conditions of Approval: Attached							
Date: 07/16/2013 Phone: 575-390-3477	Remediation per OCD Rule & Guidelines &							
* Attach Additional Sheets If Necessary	like approval by BLM. <u>SUBMIT REMEDIATION</u> 2RP-173							
	August 18,2013							
	5							
	:							

<u>istrict IV</u> 220 S. St. Franci	Road, Aztee is Dr., Santa			1220) South	St. Franc , NM <u>875</u>	is Dr.		weight with 19.15.29 NMAC				
-> (-		Rele				orrective A	ction					
		5100		LOON		OPERAT		🛛 Ini	itial Report 🔲 Final Rep				
Name of Cor Address: 213	npany: Li 30 W. Ben	nn Operatin ider Hobbs	<u>g Z</u> 5, NM 88	107367 3240		Contact: Gar Telephone N	ry Wink No.: 575-738-17	/39					
Pacility Nam						Facility Type: Battery							
Surface Own	er: Federa	al		Mineral	Owner: I	Federal		API	No.: 3001526612				
			0			N OF REI		F					
Unit Letter L	Section 20	Township 17S	Range 31E	Feet from the 2610		/South Line South	Feet from the 1000	East/West Line West	e County Eddy				
			Latiti	ude: 32.819971	11236509	9 Longitud	le: -103.897239	412252					
				NA	TURE	OF REL							
Fype of Relea Source of Rele	se: Oil ease: ?" cir	culating steel	line				Release: 87 bbls		e Recovered: 60 bbls nd Hour of Discovery:				
						07/15/2013	3 8:00am		2013 8:00am				
as Immediate Notice Given? 🛛 🖾 Yes 🗌 No 🗌 Not Requir					Required		er-NM OCD M	like Burton-BLM	1				
By Whom? G	Whom? Gary Wink is a Watercourse Reached?						Hour 07/15/2013						
	🗌 Yes 🛛 No						manie impaeting	and materedanse.					
Vas a Waterco	rse was Imj	pacted, Descr	ibe Fully.	*:									
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							RE	CEIVE	D						
District 1 1625 N. French	Dr., Hobbs, Ni	M 88240		St	ate of	New Mexi	ico I Rescurces Al			Form C-14					
District II 1301 W. Grand	Avenue, Artes	ia, NM 88210		Energy Mi	nerais	and Natura	Resources			Revised October 10, 20					
<u>District III</u> 1000 Rio Brazo:	s Road, Aztec,	NM 87410		Oil C	Consei	vation Div	vision NMO	CD"ATTS	accordance	priate District Office with 19.15.29 NMA					
District IV 1220 S. St. Fran	icis Dr., Santa I	Fe, NM 87505				h St. Franc e, NM 875									
		ang mata na	Dal	•				ation							
aJMh	1324	1937	460		ano	ion and Corrective Action OPERATOR									
	ompany: Lin	n Operatin	2	26932	4	Contact: Brian Wall									
							No.: 575-738-17 e: Battery	39	<u> </u>						
	Surface Owner: Federal Mineral Owner:								No.: 30015	26612					
_Surface Ow	mer: Federal	1						API	NO.: 30013	20012					
Unit Letter	LOCATION Unit Letter Section Township Range Feet from the North.						Feet from the	East/West Li	ne County						
L							1000	West	ne county	Eddy					
			Latit	ude: 32.819971	123650	9 Longitud	le: -103.897239	412252							
				NAT	URE	OF REL									
	elease: Oil / Pro				. , .		Release: 85bbls/		ne Recovered and Hour of I	1: 70bbls/ 0bbl Discovery:					
						08/27/2013			/2013 8:00ar						
Was Immedi	iate Notice Gi	_	Yes [] No 📋 Not R	equired	If YES, To Mike Burto	o Whom? on- BLM Mike I	Bratcher- NM (DCD						
By Whom? E	Brian Wall					Date and F	lour 08/27/2013	08/28/2013							
Was a Water	course Reach	ed?	Yes 🗵	No		If YES, Vo	olume Impacting I	he Watercours	e.						
If a Watercou	urse was Imp	acted, Descri	be Fully.	*;											
		m and Remed	dial Actio	n Taken.*: 8-27-	13 Pulle	d up to battery	y seen oil tank #3	leaking from t	ne bottom.cal	led vac truck to pick					
up stand fluid	d.														
Describe Are	a Affected ar	nd Cleanup A	Action Tal	cen.* : Affected a	rea app	rox 15'X20'. F	lad vaccum truck	pick up oil and	l clean up spi	<u>.</u>					
I hereby certi	ify that the in	formation gi	ven above	e is true and comp	plete to	the best of my	knowledge and u	inderstand that	pursuant to N	MOCD rules and					
regulations a	Il operators a	re required to	n report a	nd/or file certain i	release i	notifications as	nd perform correc	tive actions fo	r releases wh	ich may endanger operator of liability					
should their o	operations hav	ve failed to a	dequately	investigate and i	remedia	te contaminati	on that pose a thr	eat to ground v	vater, surface	water, human health					
or the environ federal, state,	nment. In add	dition, NMO s and/or regu	CD accep lations.	otance of a C-141	report	does not reliev	e the operator of	responsibility	for complianc	e with any other					
	, iD						OIL CON	SERVATI	ON DIVIS	SION					
Signature:	788-4								A.I						
Printed Name	Printed Name: Brian Wall						Approved by District Supervisorigned By Mile Bern								
Title: Constru	Title: Construction Foreman II						<u>P 06201</u>	3 Expira	tion Date:						
E-mail Addre						Conditions o				hed 🗍					
Date: 08/28/2				-367-0645	F	Remediation	per OCD Rule 8	Guidelines,	&						
Allach Addi	* Attach Additional Sheets If Necessary						DY BLM. <u>SUBMIT</u> OSAL NO LATER	REMEDIATI	<u>2 N</u>	-KK-1891					
					Č	-Detor	Ver 6,	2013		1					

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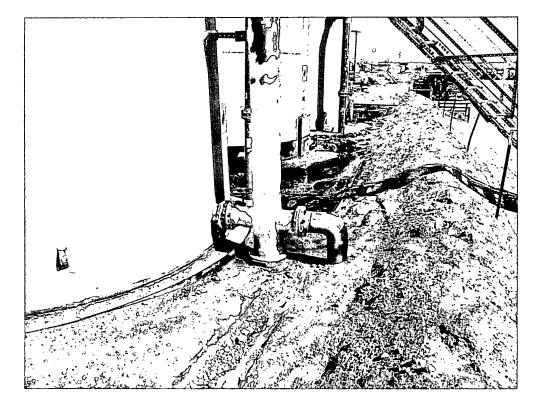
Appendix II

SITE PHOTOGRAPHS

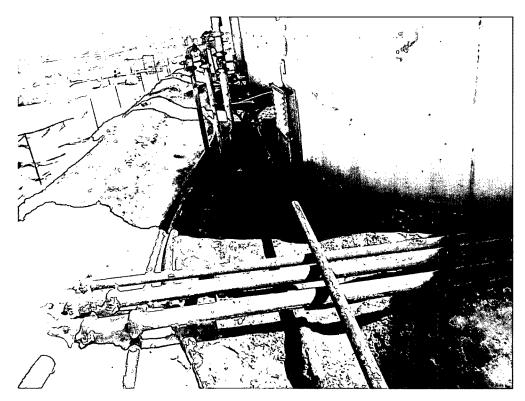
Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

Linn Energy Turner B North Battery

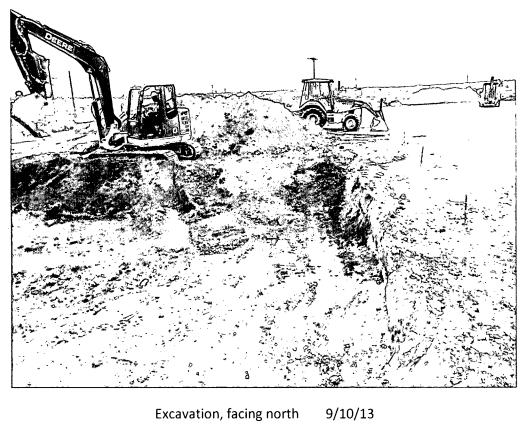
Unit Letter B, Section 28, T17S R31E

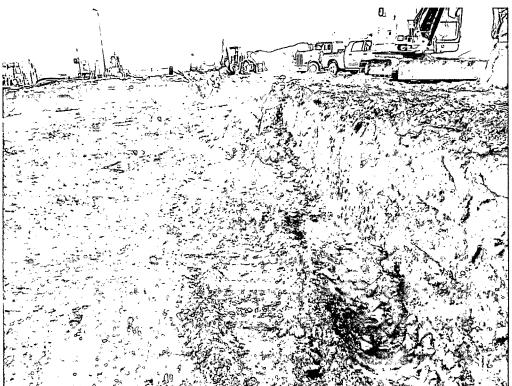


Impacted area, east side, facing north 08/23/13

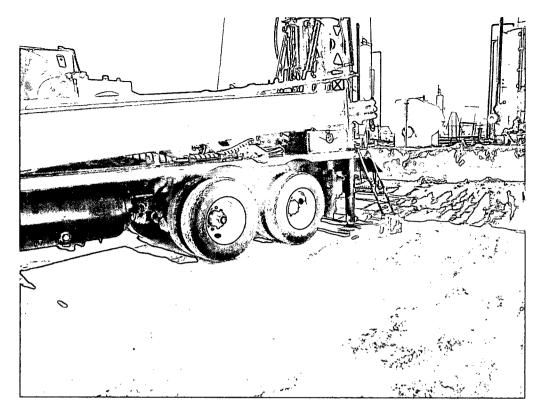


Impacted area, west side, facing north 08/23/13

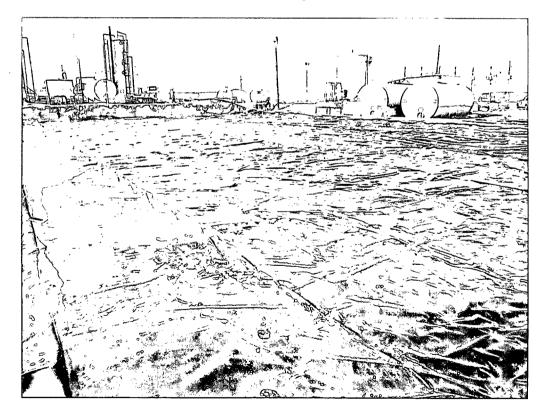




Excavation, facing north 9/13/13



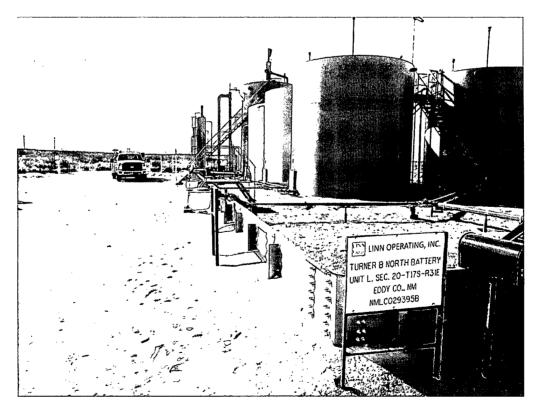
Installation of soil bore, facing south 09/16/13



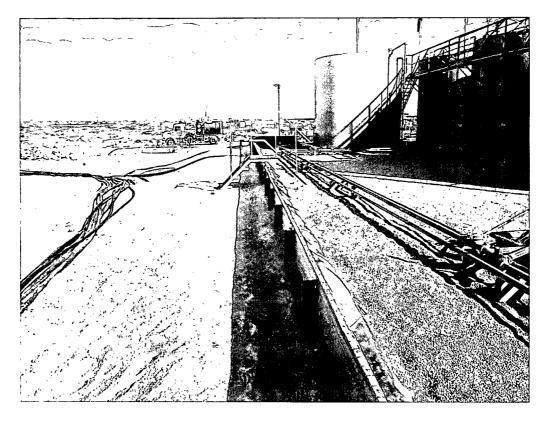
Installation of liner at 4' bgs, facing southwest 09/17/13



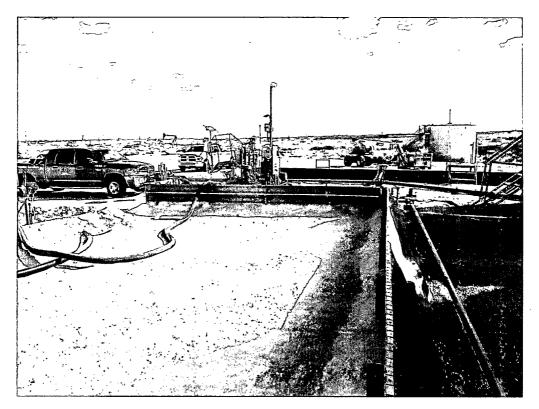
Compaction of caliche backfill, facing west 9/18/13



Final battery inside secondary containment, facing south 11/15/13



Final battery inside secondary containment, facing north 11/15/13



Lact unit inside secondary containment, facing east 11/15/13

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Appendix III

GROUNDWATER DATA

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

GROUND WATER SEARCH

	т	urner	B North Tar	k Ba	attery		
UL:	L	Sec:	20	т:_	175	R:	31E
Groundwa	ter Depth:		236		ft.		
 o = NM Office of the ● = U.S. Geological S ☆ = Site Location 		n well)					Date: 11/5/13 By: Amy Ruth
	16S 30E		28 314', 165 31E	8'0 295'	°248 254'° 165 3 2	^{' 260'} ^o 275' ² E ^{o2} ^o 210 ^o 221' ^{o2}	15'
	17S 30E		175 31E ☆		。 175 32	132' 2E	
	18S 30E	0 44'	098 185 31E		° _{65'} ° _{430'} 18S 32		



No records found.

PLSS Search:

Township: 16S Range: 30E



(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=PC been r O=orp C=the closed	eplace haned, file is)	(quar						IE 3=SW largest)		3 UTM in meters)		(In feet)	
		POD Sub-		Q	Q	Q						Depth	Depth V	Vater
POD Number	Code	basin	County	64	16	5 4	Sec	Tws	Rng	X	Y		Water Co	
L 03435		L	LE		1	1	05	16S	31E	602954	3646955* 🚱			
L 03852	R	L	LE	2	2	2	14	16S	31E	609126	3643913* 🕎	370	314	56
L 03852 POD4		L	LE	3	4	3	13	16S	31E	609744	3642516* 😌	333	299	34
L 03852 POD5		L	LE		3	2	13	16S	31E	610238	3643427* 🏵	328	295	33
L 03852 X	R	L	LE	4	4	4	13	16S	31E	610749	3642526* 😔	333	299	34
L 03852 X2		L	LE	3	2	2	13	16S	31E	610535	3643733* 🚱	330	287	43
L 04671		L	LE	1	1	2	12	16S	31E	610114	3645538* 📎	340	288	52
L 10203		L	LE	4	4	3	14	16S	31E	608334	3642495* 🚱	310		
L 10206		L	LE		2	2	23	16S	31E	609045	3642204* 🚱	280		
											Average Depth to	Water:	297 fee	t
											Minimum	Depth:	287 fee	t

Maximum Depth: 314 feet

Record Count: 9

PLSS Search:

Township: 16S Range: 31E

*UTM location was derived from PLSS - see Help



(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a	(R=POD has been replaced O=orphaned, C=the file is		rter	sa	re	1=N\	N 2=N	IE 3=SW	/ 4=SE)				
water right file.)	closed)	(qua	rter	s a	re	smal	lest to	largest)	(NAD83	UTM in meters)		(In feet	:)
	POD Sub-		0	0	Q						Donth	Denth	Water
POD Number	Code basin (ounty					Tws	Rng	X	Y_	•	-	Column
L 02381	L	LE		3	1	13	16S	32E	619086	3643515* 💮	308	215	93
L 02434	Ĺ	LE				01	16S	32E	619661	3646531* 💮	337		
L 02449	L	LE				01	16S	32E	619661	3646531* 💮	330	265	65
L 02617	L	LE		4	4	02	16S	32E	618656	3645924* 🚱	322	270	52
L 02752	L	LE		1	3	26	16S	32E	617521	3639880* 🚱	324	280	44
L 02846	L	LE	4	2	1	11	16S	32E	617956	3645413* 🌍	328	275	53
L 02954	L	LE		2	4	03	16S	32E	617043	3646310* 😜	120	65	55
L 02993	L	LE	3	3	2	15	16S	32E	616572	3643391* 😜	100		
L 03631	L	LE		1	2	02	16S	32E	618240	3647126* 😚	315	250	65
L_04930	L	LE			1	23	16S	32E	617698	3642092* 🚱	307	210	97
L 05494	L	LE				36	16S	32E	619758	3638489* 🔗	303	200	103
L 06557	L	LE		1	4	21	16S	32E	615089	3641466* 😌	295	210	85
L 06807	L	LE	1	4	4	09	16S	32E	615356	3644383* 💮	290	248	42
L 07823	L	LE	2	2	2	16	16S	32E	615561	3643981* 🚫	269	247	22
L_08084	L	LE	1	1	1	16	16S	32E	614157	3643970* 🚱	317	260	57
L 08084 POD4	L	LE			2	26	16S	32E	618522	3640492* 🚱	303	233	70
L 08084 POD5	L	LE	4	1	4	26	16S	32E	618425	3639788* 😔	296	165	131
L 08084 S3	L	LE			2	26	16S	32E	618522	3640492* 😌	305	205	100
L_08241	L	LE		4	4	02	16S	32E	618656	3645924* 🌍	316		
L 10204	L	LE	4	2	2	04	16S	32E	615524	3646993* 😌	319		
L 10205	L	LE		4	1	80	16S	32E	613038	3645066* 😜	330		
L 11189	L	LE	1	1	4	04	16S	32E	614932	3646391* 💮	350		

*UTM location was derived from PLSS - see Help

Average Depth to Water: 224 feet

- Minimum Depth: 65 feet
- Maximum Depth: 280 feet

Record Count: 22

PLSS Search:

Township: 16S Range: 32E



No records found.

PLSS Search:

Township: 17S Range: 30E



(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) POD	(quar						IE 3=SW largest)	,	3 UTM in meters)		(In feet)
	Sub-		Q	Q	Q						Depth	Depth Water
POD Number	Code basin C	ounty	64	16	4	Şeç	Tws	Rng	X	Y	Well	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



(A CLW####################################	(R=POD been rep O=orpha C=the file closed)	blaced, ined, e is (qu						IE 3=SW largest)	-	UTM in meters)		(In feet)
	-	OD ub-	C	a	0						Denth	Depth Water
POD Number	-	asin Coun					Tws	Rng	X	Y		Water Column
L 04019		L LE	4	3	4	02	17S	32E	618468	3636166* 🔗	182	
L_04020		L LE	3	3	4	02	17S	32E	618268	3636166* 🏵	200	
L_04021	R	L LE	3	4	4	02	17S	32E	618670	3636170* 🔗	190	
L 04021 POD3		L LE		3	4	03	17S	32E	616761	3636252* 分	247	
L_04021 S		L LE	2	4	4	03	17S	32E	617262	3636354• 🏵	260	
L 13047 POD1		L LE				11	17S	32E	618187	3635254* 🅎	140	
L_13050 POD1		L LE	2	2	1	10	17S	32E	616463	3635945* 🔗	156	132 24
RA 08855		LE	4	1	1	10	17S	32E	616061	3635742* 🚱	158	
RA 09505		LE	2	2	1	10	17S	32E	616462	3635944 🔗	147	
RA 09505 S		LE	2	2	1	10	17S	32E	616463	3635945* 🏵	144	
RA 10175		LE		2	1	28	17S	32E	614814	3631005* 🚱	158	
RA 11684 POD1		LE	1	1	4	11	17S	32E	618216	3635124 🚱	275	
RA 11684 POD2		LE	1	1	4	11	17S	32E	618313	3635248 🔗	275	
RA 11684 POD3		LE	3	3	1	11	17S	32E	618262	3635371 🏵	275	
RA 11684 POD4		LE	1	3	2	11	17S	32E	618334	3635521 🚱	275	
RA 11684 POD5		LE	3	1	4	11	17S	32E	618353	3635047 🚱	275	
RA 11734 POD1		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



(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)	(quar					IE 3=SW		3 UTM in meters)		(In feet)	
POD Number CP 00818	POD Sub- Code basin C	County LE		4		Tws 18S	Rng 30E	X 599289	¥ 3620364* ऒ	-	Depth V Water Co	
<u>CP 00819</u> L 01978	L	LE	2	4	32	18S	30E	594878 598469	3618720* 🍪	150 65	44	21
Record Count: 3									Average Depth to Minimun Maximun	o Water: n Depth:	44 fee 44 fee	t

PLSS Search:

Township: 18S Range: 30E

*UTM location was derived from PLSS - see Help

W						State E Depth	0		
(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)	(quar		IE 3=SW		3 UTM in meters)		(in feet)
POD Number L 11092	POD Sub- Code basin (L	County LE		. –	X 606849	¥ 3623669* ⊗			Water Column 62
						Average Depth to Minimun			

Record Count: 1

PLSS Search:

Township: 18S Range: 31E

*UTM location was derived from PLSS - see Help

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

Maximum Depth:

98 feet



(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)	(quar					IE 3=SW	,	3 UTM in meters)		(In feet)
POD Number	POD Sub- Code basin C	ounty	Q Q 64 16			Tws	Rng	x	Y		Depth Water	Water Column
CP 00566		LE	44	1	04	18S	32E	614960	3627280* 🚱	133	65	68
<u>CP 00672</u>		LE	4	4	07	18S	32E	612475	3624947* 🏵	524	430	94
CP 00672 CLW475398	0	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 Minimun		318 fe 65 fe	

Record Count: 4

PLSS Search:

Township: 18S Range: 32E

*UTM location was derived from PLSS - see Help

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Maximum Depth: 460 feet

Appendix IV

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LABORATORY ANALYSES

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



September 19, 2013

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: TURNER B NORTH BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/18/13 13:20.

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/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

Cardinal Laboratories is accreditated 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	09/18/2013	Sampling Date:	09/16/2013
Reported:	09/19/2013	Sampling Type:	Soil
Project Name:	TURNER B NORTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: DP 1 @ 49' (H302268-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2013	ND	1.99	99.3	2.00	15.2	
Toluene*	<0.050	0.050	09/18/2013	ND	2.04	102	2.00	14.5	
Ethylbenzene*	<0.050	0.050	09/18/2013	ND	2.08	104	2.00	14.4	
Total Xylenes*	<0.150	0.150	09/18/2013	ND	6.18	103	6.00	14.5	
Total BTEX	<0.300	0.300	09/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 %	6 89.4-12	6				······		
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					

		, ng	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/19/2013	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2013	ND	195	97.4	200	3.77	
DRO >C10-C28	<10.0	10.0	09/19/2013	ND	191	95.6	200	2.38	
				ND	191	95.6	200	2.38	
Surrogate: 1-Chlorooctane	95.1	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 101% 63.6-154

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/18/2013	Sampling Date:	09/16/2013
Reported:	09/19/2013	Sampling Type:	Soil
Project Name:	TURNER B NORTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: DP 1 @ 9' (H302268-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2013	ND	1.99	99.3	2.00	15.2	
Toluene*	<0.050	0.050	09/18/2013	ND	2.04	102	2.00	14.5	
Ethylbenzene*	<0.050	0.050	09/18/2013	ND	2.08	104	2.00	14.4	
Total Xylenes*	<0.150	0.150	09/18/2013	ND	6.18	103	6.00	14.5	
Total BTEX	<0.300	0.300	09/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1149		6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/19/2013	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2013	ND	195	97.4	200	3.77	
DRO >C10-C28	<10.0	10.0	09/19/2013	ND	191	95.6	200	2.38	
Surrogate: 1-Chlorooctane	88.5	- 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.2	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/18/2013	Sampling Date:	09/16/2013
Reported:	09/19/2013	Sampling Type:	Soil
Project Name:	TURNER B NORTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: DP 1 @ 54' (H302268-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2013	ND	1.99	99.3	2.00	15.2	
Toluene*	<0.050	0.050	09/18/2013	ND	2.04	102	2.00	14.5	
Ethylbenzene*	<0.050	0.050	09/18/2013	ND	2.08	104	2.00	14.4	
Total Xylenes*	<0.150	0.150	09/18/2013	ND	6.18	103	6.00	14.5	
Total BTEX	<0.300	0.300	09/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/19/2013	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2013	ND	195	97.4	200	3.77	
DRO >C10-C28	13,1	10.0	09/19/2013	ND	191	95.6	200	2.38	
Surrogate: 1-Chlorooctane	87.4	65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.6	63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/18/2013	Sampling Date:	09/16/2013
Reported:	09/19/2013	Sampling Type:	Soil
Project Name:	TURNER B NORTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: DP 2 @ 9' (H302268-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	09/18/2013	ND	1.99	99.3	2.00	15.2	
Toluene*	<0.050	0.050	09/18/2013	ND	2.04	102	2.00	14.5	
Ethylbenzene*	<0.050	0.050	09/18/2013	ND	2.08	104	2.00	14.4	
Total Xylenes*	<0.150	0.150	09/18/2013	NĎ	6.18	103	6.00	14.5	
Total BTEX	<0.300	0.300	09/18/2013	ND					

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 1130 16.0 09/19/2013 ND 416 104 400 3.77 TPH 8015M Analyzed By: MS mg/kg Analyte Result Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier % Recovery GRO C6-C10 <10.0 10.0 09/19/2013 ND 195 3.77 97.4 200 DRO >C10-C28 10.6 10.0 09/19/2013 ND 191 95.6 200 2.38 Surrogate: 1-Chlorooctane 87.0% 65.2-140

Surrogate: 1-Chlorooctadecane 92.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Received:	09/18/2013	Sampling Date:	09/16/2013
Reported:	09/19/2013	Sampling Type:	Soil
Project Name:	TURNER B NORTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: DP 2 @ 34' (H302268-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2013	ND	1.99	99.3	2.00	15.2	
Toluene*	<0.050	0.050	09/18/2013	ND	2.04	102	2.00	14.5	
Ethylbenzene*	<0.050	0.050	09/18/2013	ND	2.08	104	2.00	14.4	
Total Xylenes*	<0.150	0.150	09/18/2013	ND	6.18	103	6.00	14.5	
Total BTEX	<0.300	0.300	09/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/19/2013	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2013	ND	195	97.4	200	3.77	
DRO >C10-C28	<10.0	10.0	09/19/2013	ND	191	95.6	200	2.38	
Surrogate: 1-Chlorooctane	96.6	65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.6 9	63.6-15	4						

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Celeg Di Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	09/18/2013	Sampling Date:	09/16/2013
Reported:	09/19/2013	Sampling Type:	Soil
Project Name:	TURNER B NORTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: DP 2 @ 29' (H302268-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2013	ND ND	1.99 2.04	99.3	2.00	15.2 14.5	
Toluene*	<0.050	0.050	09/18/2013			102	2.00		
Ethylbenzene*	<0.050	0.050	09/18/2013	ND	2.08	104	2.00	14.4	
Total Xylenes*	<0.150	0.150	09/18/2013	ND	6.18	103	6.00	14.5	
Total BTEX	<0.300	0.300	09/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	111 9	6 89.4-12	6			<u></u>			
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	09/19/2013	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2013	ND	195	97.4	200	3.77	
DRO >C10-C28	<10.0	10.0	09/19/2013	ND	191	95.6	200	2.38	
Surrogate: 1-Chlorooctane	93.9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	102 %	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/18/2013	Sampling Date:	09/16/2013
Reported:	09/19/2013	Sampling Type:	Soil
Project Name:	TURNER B NORTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: DP 3 @ 9' (H302268-07)

BIEX 8021B	mg,	кд	Analyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2013	ND	1.99	99.3	2.00	15.2	
Toluene*	<0.050	0.050	09/18/2013	ND	2.04	102	2.00	14.5	
Ethylbenzene*	<0.050	0.050	09/18/2013	ND	2.08	104	2.00	14.4	
Total Xylenes*	<0.150	0.150	09/18/2013	ND	6.18	103	6.00	14.5	
Total BTEX	<0.300	0.300	09/18/2013	ND					

Amplumed Buy MC

Surrogate: 4-Bromofluorobenzene (PIL 113 % 89.4-126

Chloride, SM4500CI-B	mg,	mg/kg		alyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	09/19/2013	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2013	ND	195	97.4	200	3.77	
DRO >C10-C28	<10.0	10.0	09/19/2013	ND	191	95.6	200	2.38	
Surrogate: 1-Chlorooctane	98.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/18/2013	Sampling Date:	09/16/2013
Reported:	09/19/2013	Sampling Type:	Soil
Project Name:	TURNER B NORTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: DP 3 @ 29' (H302268-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2013	ND	1.99	99.3	2.00	15.2	
Toluene*	<0.050	0.050	09/18/2013 ND 2	2.04	102	2.00	14.5		
Ethylbenzene*	<0.050	0.050	09/18/2013	ND	2.08	104	2.00	14.4	
Total Xylenes*	<0.150	0.150	09/18/2013	ND	6.18	103	6.00	14.5	
Total BTEX	<0.300	0.300	09/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/19/2013	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2013	ND	195	97.4	200	3.77	
DRO >C10-C28	<10.0	10.0	09/19/2013	ND 191 95.6 20		200	2.38		
Surrogate: 1-Chlorooctane	104 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	104%	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/18/2013	Sampling Date:	09/16/2013
Reported:	09/19/2013	Sampling Type:	Soil
Project Name:	TURNER B NORTH BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: DP 3 @ 34' (H302268-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2013	ND	1.99	99.3	2.00	15.2	
Toluene*	<0.050	0.050	09/18/2013	ND	2.04	102	2.00	14.5	
Ethylbenzene*	<0.050	0.050	09/18/2013	ND	2.08	104	2.00	14.4	
Total Xylenes*	<0.150	0.150	09/18/2013	ND	6.18	103	6.00	14.5	
Total BTEX	<0.300	0.300	09/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	6 89.4-12	6	·					
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/19/2013	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/19/2013	ND	195	97.4	200	3.77	
DRO >C10-C28	<10.0	10.0	09/19/2013	ND	191	95.6	200	2.38	
Surrogate: 1-Chlorooctane	91.3 \$	65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.6 9	63.6-15	4						

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Celey D. Kerne

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 SM4500CI-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

Page 11 of 12



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 88 575) 393-2326 FAX (575) 393-247			
Company Name:	Linn energy		B/470	ANALYSIS REQUEST
Project Manager:			P.O. #:	
Address:	;		Company:	
City:	State:	Zip:	Attn:	
Phone #:	Fax #:		Address:	
Project #:	Project Owne	r:	City:	
Project Name:			State: Zip:	
Project Location:	Turner B North 1	BAHOFY AND	Phone #:	
Sampler Name:	Mtaull Giomer		Fax #:	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	5708
		(C)OMP. ERS ATER TER		
Lab I.D.	Sample I.D.	ATEF	· ا ا · · · · · · · · · · · · · · · · ·	
Lau I.D.	Sample I.D.	AB OR JNDW GE	ER : COO	4 H TEX
H301268.		(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE OTHER: BWIL BLAD OTHER:	3 H G
	DDI Q, 49'	61	9-16-13	
Ζ.	DPIQ 9'	GI	1 9.16-13	
3	DP1 3 54'		V 9.16.13	
41	PZ@ 9'	G1	9.16.13	
51	PZ @ 34'		1 9.16.17	
6	PZ @ 29	GI J GI J	1.16.13	
	$2P_3 \oplus 4^-$	GIV	19.16.13	
<u> </u>		GI	V 9.16-12	
	<u>2r 3 @ 34</u>		7.16.15	
	Damages. Cardinal's liability and client's exclusive remedy for a			
service. In no event shall Card	those for negligence and any other cause whatsoever shall be final be liable for incidental or consequental damages, includin out of or related to the performance of services hereunder by?	g without limitation, business interruptions,	loss of use, or loss of profits incurred by client, its subsidi-	iaries,
Relinquished By:		Received By:	/ Phone Re	esult: 🗆 Yes 📮 No 🛛 Add'l Phone #:
in hours	Time:	Stepha	REMARK	(§·
Relinguished By:	bromer Date: 7 75	Received By:	Bwa	11 D linn on orgy com
Steph	Megh 117 - 53	Alma A	Arut	The linn on orgy .com the diversified FS:.com
Delivered By:	(Circle One) 9/18/13	Sample Condition	CHECKED BY:	nh i i
Sampler - UPS -	Bus - Other:			<u></u>

cardinal cannot accept verbal changes. Please fax written changes to (575) 393,262

Appendix V

FINAL FORM C-141

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

State of New Mexico Energy Minerals and Natural Resources

> **Oil Conservation Division** 1220 South St. Francis Dr.

RECEIVED

NOV 19 2013

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in **NMOCD AF**lactordatice with 19.15.29 NMAC.

API No. 30-015-28465

Santa Fe, NM 87505

Release Notification and Corrective Action

OPERATOR	Initial Report	🛛 Final Report
Contact: Brian Wall		
Telephone No.: 575-738-1739		
Facility Type: Battery		
	Contact: Brian Wall Telephone No.: 575-738-1739	Contact: Brian Wall Telephone No.: 575-738-1739

Surface Owner: Federal

LOCATION OF RELEASE

Mineral Owner: Unknown

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County]
L	20	175	31E	2610	South	1000	West	Eddy	

Latitude 32.819971 Longitude 103.897239

NATURE OF RELEASE

Type of Release: Oil/Produced Water	Volume of Release 85 bbls/5bbls	Volume Re	ecovered 70 bbls/0 bbls
Source of Release: Battery	Date and Hour of Occurrence: 08/27/2013 8:00 am	Date and H 8/27/2013	lour of Discovery: 1:00 am
Was Immediate Notice Given?	If YES, To Whom?		
Yes No Not Required	Mike Burton – BLM Mike Bratcher - NMOCD		
By Whom? Brian Wall	Date and Hour: 8/28/2013		
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.		
🗌 Yes 🖾 No			
If a Watercourse was Impacted, Describe Fully.*			
NA			
Describe Cause of Problem and Remedial Action Taken.*			
8-27-2013 Pulled up to battery, seen oil tank #3 leaking from the bottom, called vacuum truck to pick up standing fluid.			
Describe Area Affected and Cleanup Action Taken.*			
Spill affected the entire area within the earthen containment. The facility was temporarily dismantled, and the site was excavated to 4 ft below ground			
surface. All earthen berms and the underlying soils were removed. Impacted soils were removed to a NMOCD approved disposal facility. Soil samples			
were collected via drill rig and were submitted to a commercial lab for chloride, TPH, and BTEX analyses. A 20 mil reinforced plastic liner was installed			
at 4 ft. The excavation was backfilled with clean soil and caliche. The site was compacted and leveled. A poly lined containment system was installed in place of the formerly bermed area and the battery was reconstructed within the new containment.			
place of the formerry berned area and the battery was reconstructed within the new containingit.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and			
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger			
public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability			
should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health			
or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other			
federal, state, or local laws and/or regulations.			
	OIL CONSERVATION DIVISION		
Signature:			
	Approved by Environmental Specialist:		
Printed Name: Brian Wall			
Title: Construction Foreman II	Approval Date:	Evairation D	ato:
	Approval Date.	Expiration D	ate.
E-mail Address: bwall@linnenergy.com	Conditions of Approval:		
	containens of Approval.		Attached
Date: Phone: 806-367-0645			

* Attach Additional Sheets If Necessary