

Russell Turner Injection Plant (Turner B #95)

CLOSURE REPORT

API No. 30-015-26612

Release Date: June 15th, 2015

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

NMOCD Case #: 2R-3058

August 7, 2017

Prepared by:

Laura Flores
Environmental Department
Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
Phone: (575)964-8394

Fax: (575)393-8396

LINN ENERGY 08/07/2017

Mike Bratcher Environmental Specialist NM Oil Conservation District-Division 2 811 S. First St. Artesia, NM 88210

RE: Linn Energy Closure Reports

Russell Turner Injection Plant (Turner B #95)

UL/L, Section 20, T17S, R31E API No. 30-015-26612 NMOCD Case #: 2R-3058

NMOCD Score: 0

Russell Turner Injection Plant (Turner B #042)

UL/E, Section 20, T17S, R31E API No. 30-015-05278 NMOCD Case #: 2R-3282

NMOCD Score: 0

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 northeast of Loco Hills, NM, in Eddy County. On June 15, 2015, the first release resulted from an injection line. The impacted area is approximately 200 yards north of the injection plant. Approximately 20 bbls of produced water was released and approximately 10 bbls of produced water was recovered. An initial C-141 was submitted to the NMOCD on June 18, 2015 and approved on June 22, 2015 (Appendix I).

A second release occurred on September 10, 2015, releasing approximately 5 barrels of produced water with none recovered. An initial C-141 was submitted to NMOCD on July 16, 2015 and approved on July 21, 2015 (Appendix II).

A third release occurred on July 22, 2015, releasing approximately 5 barrels of produced water with none recovered. An initial C-141 was submitted to NMOCD on July 27, 2015 and approved on July 28, 2015 (Appendix III).

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Site Assessment and Delineation

On June 18, 2015, DFSI personnel responded to the release site and dug up the line so a crew could fix it. The affected area was scraped to minimize the environmental impact. On June 30, 2015, DFSI personnel were on site to obtain soil samples. Six sample points were collected and field tested for chlorides, as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). The field samples were submitted to Cardinal Laboratory of Hobbs, NM to obtain confirmation. DFSI has conducted a groundwater study of the area and has determined, according to the New Mexico Office of the State Engineer, there is no known groundwater beneath the site. Therefore, no eminent danger of groundwater impact or threat to life is anticipated (Appendix IV).

Conclusion

As per the approved Work Plan, DFSI personnel were on site beginning February 17, 2017 (Appendix V). No work was required at SP1, SP2, SP3, SP4 and SP6 due to clean samples. The area of SP5 was excavated to a depth of 1' below ground surface. The surrounding terrain was blended and used to backfill the excavation to ground surface and contoured to the surrounding area. In the drainage area, erosion controls made with rock bundles were installed to help with the flow of rain water and to backfill naturally. The site was seeded with a blend of native vegetation (Appendix VI).

Due to the completion of approved corrective action, DFSI, on behalf of Linn Energy, submits the final C-141 (Appendices VII, VIII, IX) and respectfully requests the closure of the regulatory file for this site.

Please feel free to contact me with any questions concerning this closure request.

Sincerely,

Laura Flores

Diversified Field Services, Inc.

Laura Flores

206 West Snyder | Hobbs, NM 88240

Office: (575)964-8394 | Fax: (575)964-8396 | Email: Iflores@diversifiedfsi.com

cc Shelly Tucker

Appendix I – Initial C-141 (June 15, 2015)

Appendix II – Initial C-141 (July 17, 2015)

Appendix III – Initial C-141 (July 22, 2015)

LINN ENERGY 08/07/2017

Appendix IV – Groundwater Study

Appendix V – Site Photos

Appendix VI – Seeding Documentation

Appendix VII – Final C-141 (June 15, 2015)

Appendix VII - Final C-141 (July 17, 2015)

Appendix IX – Final C-141 (July 22, 2015)

Appendix I

INITIAL C-141 (JUNE 15, 2015)

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMΛC.

			Relea	ase Notifica	tion	and Co	rrective Ac	tion	• .::			_
<u> NAB 15</u>				^ / / / / / /	1	OPERAT	 		✓ Initial	Report	Final Report	<u> </u>
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(Turner B 9												
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Title: Produ	uction Supe	rvisor				Approval Da	ne: 6 22 1	5	Expiration	Date: N	IA	
E-mail Addr	css: elgonz	ales@linnene	ergy.com	·		Conditions o	f Approval:			Attache	od 🗆	
Date: 06/18	3/2015		Phone:	505-504-8002			tion per O.C.			idelines		
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Appendix II

INITIAL C-141 (JULY 17, 2015)

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

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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Appendix III

INITIAL C-141 (JULY 22, 2015)

NM OIL CONSERVATION

ARTESIA DISTRICT

JUL 27 2015

<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 District III

811 S. First St., Artesia, NM 88210

District IIII

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr. Sonta Fa, NM 875

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

RECEIVED
Submit I Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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Type of Rele							Release 5bbls			Recovered			
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Appendix IV

GROUNDWATER STUDY



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

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

No records found.

PLSS Search:

Section(s): 16, 17, 18, 19, 20, Township: 17S Range: 31E

21, 28, 29, 30

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.

3/21/17 1:35 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix V

SITE PHOTOS

Russell Turner Injection Plant (Turner B #95)

Photo Page



Site prior



Installing bags for erosion control



Site prior



Installing bags for erosion control

Appendix VI

SEEDING DOCUMENTATION

Curtis and Curtis, Inc. 4800 Worth Prince (Chovis Fun 8810) Phone: (575) 762-4759 Www.curtissged.com

Lat# M-13614

Diversified Construction
4 Acre LPC Mix
4-1 Acre Bogs @ 35,27 Bulk Pounds Each

		i					
*	r (%	. 1		i			
<u>Item</u> Plains Bristlegrass VNS Sand Blüestem		<u>Purity</u> 17.07%	<u>Garm</u> 83.00%	<u>Dormant</u> 0.00%	Total Germinatio 83,00%	<u>Test</u> in <u>Date</u> 09/15	Total PLS Pounds 20.00
Woodward	Texas	14.92%	95.00%	0.00%	95.00%	*11/15	•
Little Bluestern Aldous	Texes	8.95%	62.00%	33.00% -	-95.00%		775.00
Alg Bludstem Kaw	Missouri	17.54% {	82,00%	15.00% •	97.00%		··· 12,00
Coleopsis Plains	- Colorado.	6.30%	84.00%	6.00%		*10/15	, 24.0α
Sand Dropseed ,	Texas	3.09%	33,00%	-	90.00%	09/13	∻8.00
1110	•	70,	JJ,UU.Y@	59.00%	.92.00%	03/16	4.00

Other Crop; Weed Seed; Inert Matter; 7.92%
There Are 4 Bags For This Mix
This Bag Weighs 35.27 Bulk Pounds
Use This Bag For 1 Acres Total Bulk Pounds:

e i

Appendix VII

FINAL C-141 (JUNE 15, 2015)

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**

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

						OPERA'	ГOR		☐ Initial Report ☐ Final Repor					
		Linn Energy				Contact: Aaron Hickert								
		der, Hobbs,					No. 432-363-949							
Facility Nar	ne: Russel	l Turner Inje	ction Pla	nt (Turner B #0	95)	Facility Typ	e: Water Station	n						
Surface Ow	ner: Fede	ral		Mineral C)wner:				API No	PI No. 30-015-26612				
				LOCA	TION	OF REI	LEASE							
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from	East/V	East/West Line County					
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				NAT	URE	OF REL								
Type of Rele						-	Release: 20 bbls			Recovered: 1				
Source of Re	lease: FG -	- pipeline				Date and H	lour of Occurrenc	e		Hour of Disc 5 2:00 PM	covery			
Was Immedia	ite Notice C					If YES, To			00.10.20		-			
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By Whom?	D.	1 10				Date and H		1 11/ .						
Was a Water	course Keac		Yes 🛚	No		If YES, Vo	lume Impacting t	ne wate	rcourse.					
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Received alar	m from Rus shut in mas	ter valve to sto	n low disc	harge. Went to w			l one of the gauge north of water sta							
environmenta chlorides, as Cardinal Lab No work was surrounding t	2015, DFSI I impact. O well as BTE oratory of H required at errain was t	personnel respondence of June 30, 20 EX. The BTEX lobbs, NM to SP1, SP2, SP. blended and us	oonded to 15, DFSI p & samples obtain con 3, SP4 and sed to back	the release site an hersonnel were on were performed u firmation. As pe I SP6 due to clear sfill the excavatio	site to ousing a More the appearance of the sample on to grow	obtain soil san fini Rae Phot proved Work s. The area c und surface a	crew could fix it nples. Six sample toionization Detec Plan, DFSI persor of SP5 was excava and contoured to the o backfill naturall	e points etor (PII nnel we ited to a he surro	were colle D). The fiel re on site b depth of 1 unding are	cted and field d samples weginning Feb below ground a. In the draw	d tested ere sub oruary i and suri inage a	f for omitted to 17, 2017. face. The area, erosion		
regulations al public health should their o	l operators a or the envir perations ha ment. In a	are required to onment. The ave failed to a ddition, NMO	report an acceptanc dequately CD accept	d/or file certain re e of a C-141 repo investigate and re	elease no rt by the emediate	tifications an NMOCD ma contamination	knowledge and ur id perform correct arked as "Final Re on that pose a thre e the operator of r	tive acti eport" de eat to gre	ons for rele oes not reli ound water	eases which to eve the opera surface wat	nay enator of er, hun	danger liability nan health		
Signature:	Aa	-16	M				OIL CONS	SERV	ATION	DIVISIO	N			
Printed Name	: Aaron <u>Hic</u>	kert	•		A	Approved by	Environmental Sp	ecialist:	:					
Title: Sr EH&	S Represen	tative			A	pproval Date	o:	E	xpiration I	Date:				
E-mail Addre				Conditions of Approval:				Attached						
Date: 03/2 Attach Addit	2/2017 ional Shee	Phone: 432-3 ts If Necessa			3					100				

Appendix VIII

FINAL C-141 (JULY 17, 2015)

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 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141 Revised August 8, 2011

1220 South St. Francis Dr.

			Kele	ease mounic	atio	n and Co	rrective A	CHOI	L			
						OPERA?	☐ Initia	al Report	\boxtimes	Final Report		
Name of Co	mpany: I	Linn Energy				Contact: Aa	ron Hickert					
Address: 21	30 W Ben	der, Hobbs,	NM 8824	0		Telephone 1	No. 432-363-949	96				
Facility Nar	ne: Russel	l Turner Inje	ction Pla	nt (Turner B #0	95)	Facility Typ	e: Water Station	n				
Surface Ow	nar: Eadar	rol .		Mineral O	lumar				ADINO	. 30-015-26	5612	
Surface Ow.	ilet. Pedel	ıaı		I Willieral C	WIICI.				AFI NO	. 30-013-20	1012	
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		h/South Line Feet from East/West Line Co						
L	20	17S	31E	2610	S	South 1000 West Eddy						
	Latitude: 32.8199711236509 Longitude: -103.897239412252											
C	NATURE OF RELEASE											
Type of Release							Release: 25 bbls	-		Recovered: (
Source of Rei	ease: 4 1	ransier Line				07/13/2015	our of Occurrenc	e		Hour of Disc 5 7:00 AM	overy	
Was Immedia	te Notice C	iven?				If YES, To			011131201	J 7.00 71141		
			Yes	No 🔲 Not Re	quired							
By Whom?						Date and H	our:					
Was a Watero	ourse Reac					If YES, Vo	lume Impacting t	he Wate	ercourse.			72
			Yes 🛚	No								
If a Watercou	rse was Imp	pacted, Descri	be Fully.*	1								
Describe Area On June 18, 2 environmenta chlorides, as v Cardinal Labo No work was	ked out to ver Injection e. The affe Affected a 015, DFSI I impact. Or well as BTE oratory of H required at	where the proc Station. Whe ected area is 4' and Cleanup A personnel resp n June 30, 20 EX. The BTEX lobbs, NM to SP1, SP2, SP	tuce water re the 4" to wide by 4 action Tak bonded to 15, DFSI p & samples obtain con 3, SP4 and	was coming from ransit line broke la 400' long, running	d dug u site to sing a ! r the app	pugh a washou west from the pught the line so a obtain soil sar Mini Rae Phot proved Work es. The area c	at spot, and, due to spot of the leak. a crew could fix it apples. Six sample oionization Detect Plan, DFSI person of SP5 was excava	The afe points ctor (PII nnel we ated to a	fected area were colled D). The field re on site but depth of 1	was scraped cted and field d samples we eginning Fet ' below grou	to min d tested ere sub oruary 1	nout spot, the nimize the d for omitted to 17, 2017. face. The
controls made vegetation. I hereby certif	with rock	bundles were	installed to	o help with the flo	ow of ra	nin water and the best of my	o backfill naturali	ly. The	site was see	eded with a b	olend of	f native
public health of should their of	or the environment of the perations had ment. In accordance to the perations of the perations are the peration are the perations are the perations are the perations are the p	onment. The ave failed to a ddition, NMO	acceptanc dequately CD accept	d/or file certain re e of a C-141 report investigate and re tance of a C-141 r	rt by the mediate	e NMOCD ma e contamination	orked as "Final Re on that pose a thre	eport" d eat to gr	oes not reli ound water	eve the opera , surface wat	ator of l er, hun	liability nan health
Signature:	Sa	-18	THE				OIL CONS			<u>DIVISIO</u>	<u>N</u>	
Printed Name	: Aaron Hid	:kert				Approved by	Environmental Sp	ecialist	:			
Title: Sr EH&				-		Approval Date	m t	I	Expiration I	Date:		
E-mail Addres						Conditions of	Approval:			Attached		
Date: 03/2	2/2017	Phone: 432-3									- 0	

Appendix IX

FINAL C-141 (JULY 22, 2015)

<u>District I</u> 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 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Submit 1 Copy to appropriate District Office in accordance with 19,15,29 NMAC.

Form C-141 Revised August 8, 2011

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

			Rele	ase Notific	catio	n and Co	rrective A	ction					
						OPERA	ГOR	[Initia	al Report	\boxtimes	Final Repor	
		Linn Energy				Contact: Aa							
		der, Hobbs,		nt (Turner B #0	105)		No. 432-363-949 e: Water Station						
			cuon Pia	`		racinty Typ	e: water Station						
Surface Ow	ner: Fede	ral		Mineral C	Owner:	ner: API No. 30-015-26612							
				LOCA	ATIO	N OF REI	LEASE						
Unit Letter L	Section 20	Township 17S	Range 31E	Feet from the 2610		Feet from East/West Line County South 1000 West Eddy				County Eddy			
			Latiti			9 Longitud OF RELI	e: -103.8972394	112252					
Type of Rele	ase: Produc	ed Water		INAI	UKE		Release: 5 bbls		Volume F	Recovered:	0		
Source of Re	Source of Release: 4" Transfer Line						our of Occurrenc	e	Date and	Hour of Dis 5 7:00 AM		/	
Was Immedi	ate Notice C		Yes 🔲	No 🔲 Not Re	equired	If YES, To	Whom?						
By Whom?						Date and H							
Was a Water	course Reac		Yes 🛚	No		If YES, Vo	lume Impacting t	he Water	course.				
If a Watercou	rse was Im	pacted, Descri	be Fully.*										
On June 18, and chlorides, as Cardinal Lab No work was surrounding to controls mad vegetation.	2015, DFSI al impact. O well as BTE oratory of H required at errain was h e with rock	n June 30, 20 EX. The BTEX lobbs, NM to SP1, SP2, SP plended and us bundles were	nonded to 15, DFSI p 3 samples obtain con 3, SP4 and sed to back installed to	the release site ar personnel were or were performed to ifirmation. As pet I SP6 due to clear still the excavation to help with the flat	n site to using a er the ap n sampl on to gre ow of ra	obtain soil sar Mini Rae Phot proved Work es. The area o ound surface a ain water and t	crew could fix it nples. Six sample oionization Detec Plan, DFSI person of SP5 was excavand and contoured to the o backfill natural	e points vertor (PID) nnel were nted to a cone surrou ly. The si	were colle). The fiel e on site be depth of 1 nding area te was sec	cted and fie d samples we ginning Fe below grown. In the drawded with a	ld teste vere su bruary und su ninage blend o	ed for abmitted to 17, 2017. rface. The area, erosion of native	
regulations al public health should their o or the environ	l operators a or the enviruperations ha ament. In a	are required to conment. The ave failed to a	report an acceptanc dequately CD accept	d/or file certain re e of a C-141 repo investigate and re	elease n ort by th emediat	otifications an e NMOCD ma e contamination	knowledge and und perform correct arked as "Final Room that pose a three the operator of r	tive actio eport" do at to gro	ns for rele es not reli- und water	ases which eve the oper , surface wa	may en rator of iter, hu	ndanger f liability man health	
Signature:	la	-4/2	X				OIL CONS	SERV <i>A</i>	ATION	DIVISIO	<u>N</u>		
Printed Name	: Aaron Hic	kert	-			Approved by 1	Environmental Sp	ecialist:					
Title: Sr EH&	S Represen	tative			_	Approval Date	D:	E	epiration I	Date:		200	
		@linnenergy.c			\dashv	Conditions of Approval:							
Date: 03/2 Attach Addit	22/2017 ional Shee	Phone: 432-3									_		