



East Hobbs San Andres #207

CLOSURE REPORT

API No. 30-025-37814

Release Date: February 23, 2017

Unit Letter H, Section 30, Township 18 South, Range 39 East

NMOCD Case #: 1R-4631

March 23, 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

Olivia Yu
Environmental Specialist
NM Oil Conservation District – Division 1
1625 N French Drive
Hobbs, NM 88240

RE: Linn Energy East Hobbs San Andres Unit #207
UL/H, Section 30, T18S, R39E
API No. 30-015-26612
NMOCD Case #: 2R-3058
NMOCD Score: 10

Ms. Yu,

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

The site is located east of Hobbs, NM, in Eddy County. The release resulted from a grass fire, caused by a power line spark. As the fire traveled, it burned the poly flow line, resulting approximately 0.5 barrels of oil and 9 barrels of produced water being released, with none recovered. An initial C-141 was submitted to the NMOCD on February 28, 2017 and approved on March 7, 2017 (Appendix I).

Site Assessment and Delineation

DFSI personnel responded to the release site and scraped the affected area to minimize the environmental impact. On February 28, 2017, DFSI personnel were on site to obtain soil samples (Appendix II). Three sample points and one background sample were collected to 2 ft below ground surface (bgs) and field tested for chlorides. Collection of samples halted at 2 ft bgs due to auger refusal and encountering hard rock. The field samples were submitted to Hall Laboratory of Albuquerque, NM to obtain confirmation, yielding concentrations below detectable limits throughout (Appendix III).

DFSI has conducted a groundwater study of the area and has determined, according to the New Mexico Office of the State Engineer, the average depth to groundwater is 76 ft bgs. Therefore, no eminent danger of groundwater impact or threat to life is anticipated (Appendix IV).

Conclusion

Due to the completion of removal of impacted soil and laboratory confirmation of soil samples collected yielding low concentrations of all constituents, DFSI, on behalf of Linn Energy, submits the final C-141 (Appendix V) 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.

206 West Snyder | Hobbs, NM 88240

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

Appendix I – Initial C-141

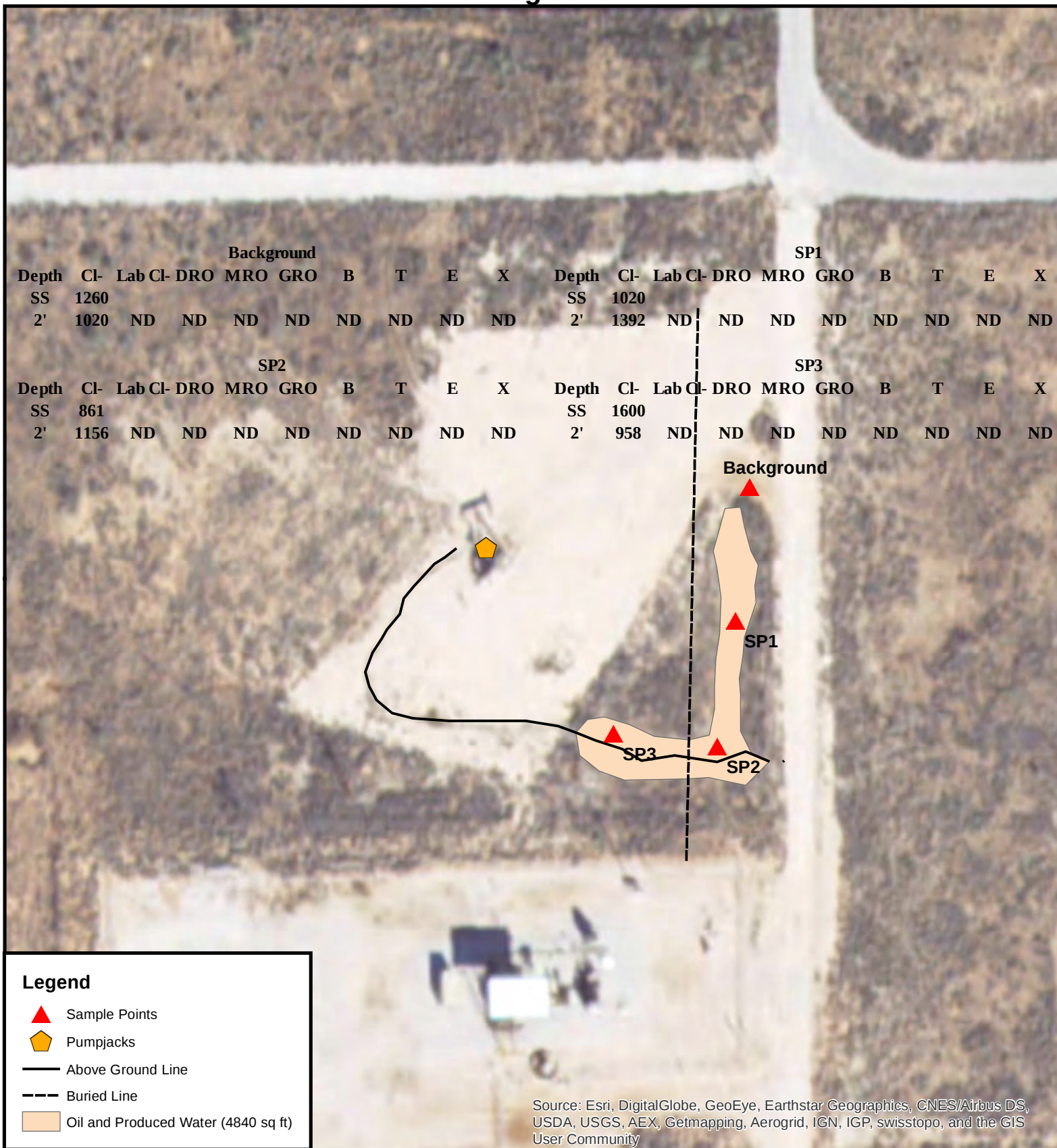
Appendix II – Site Photos

Appendix III – Laboratory Analysis

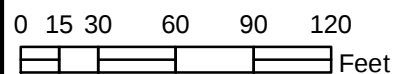
Appendix IV – Groundwater Study

Appendix V – Final C-141

Site Diagram



Linn
East HobbsSan Andres Unit #207
Lea County, NM
API #: 30-025-37814
NMOCD Case #: 1R-4631



Appendix I

INITIAL C-141

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company LINN Operating	Contact Rick Rickman—Aaron Hickert
Address Hobbs, N.M.	Telephone No. 575-513-8825 432-363-9496
Facility Name East Hobbs San Andres Unit #207	Facility Type oil

Surface Owner Private/State	Mineral Owner	API No.30-025-37814
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LOCATION OF RELEASE

Unit Letter H	Section 30	Township 18S	Range 39E	Feet from the 2330	North/South Line FNL	Feet from the 1197	East/West Line FEL	County LEA
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Latitude 32.719437 Longitude -103.080925

NATURE OF RELEASE

Type of Release oil and produced water	Volume of Release 9 bbl.	Volume Recovered 0
Source of Release poly flow line	Date and Hour of Occurrence 2-23-17 3:30 pm	Date and Hour of Discovery 2-23-17 4:30 pm
Was Immediate Notice Given? X Yes ☐ No ☐ Not Required	If YES, To Whom? Maxi Brown NMOCD	
By Whom? Rick Rickman	Date and Hour 4:30 pm	
Was a Watercourse Reached? ☐ Yes X No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED

By Olivia Yu at 7:22 am, Mar 07, 2017

Describe Cause of Problem and Remedial Action Taken.*

High winds resulted in power line contacting each other creating sparks. Creating a grass fire, As the fire traveled it burned the poly flow line to LINN EHSAU 207 resulting in a loss of approx. ½ bbl. oil and 9 bbl. water. The well was shut down and shut in until fire department had extinguished the fire, at that time repairs were made and the well returned to service

Describe Area Affected and Cleanup Action Taken.*

**The fire consumed the fluids that escaped from the flow line.
The affected area will be cleaned of debris and sampled for contamination by a third party contractor.
Should unacceptable levels be discovered a remediation plan will be made.**

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: Rick Rickman

Printed Name: Rick Rickman

Title: Production Foreman

E-mail Address: rrickman@linnenergy.com

Date: 2-28-17

Phone: 575-513-8825

Approved by Environmental Specialist:

Approval Date:

3/7/2017

Expiration Date:

Conditions of Approval:

see attached directive

Attached ☒

* Attach Additional Sheets If Necessary

1RP-4631

nOY1706627456

pOY1706628045

Appendix II

SITE PHOTOS

East Hobbs San Andres #207

Photo Page



Site prior



Collecting SP1



Collecting background sample

Appendix III

LABORATORY ANALYSIS

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 15, 2017

Rick Rickman
Diversified Field Services, Inc
315 S. Leech St
Hobbs, NM 88240
TEL: (575) 964-8394
FAX

RE: East Hobbs San Andres Unit 207

OrderNo.: 1703486

Dear Rick Rickman:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/9/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1703486

Date Reported: 3/15/2017

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP1@2'

Project: East Hobbs San Andres Unit 207

Collection Date: 2/28/2017 7:55:00 AM

Lab ID: 1703486-001

Matrix: SOIL

Received Date: 3/9/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	3/14/2017 1:28:21 PM	30685
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/13/2017 1:13:23 PM	30627
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/13/2017 1:13:23 PM	30627
Surr: DNOP	91.7	70-130		%Rec	1	3/13/2017 1:13:23 PM	30627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/10/2017 8:31:08 PM	30613
Surr: BFB	83.2	54-150		%Rec	1	3/10/2017 8:31:08 PM	30613
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.093		mg/Kg	1	3/10/2017 8:31:08 PM	30613
Benzene	ND	0.023		mg/Kg	1	3/10/2017 8:31:08 PM	30613
Toluene	ND	0.046		mg/Kg	1	3/10/2017 8:31:08 PM	30613
Ethylbenzene	ND	0.046		mg/Kg	1	3/10/2017 8:31:08 PM	30613
Xylenes, Total	ND	0.093		mg/Kg	1	3/10/2017 8:31:08 PM	30613
Surr: 4-Bromofluorobenzene	88.5	66.6-132		%Rec	1	3/10/2017 8:31:08 PM	30613

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1703486

Date Reported: 3/15/2017

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP2@2'

Project: East Hobbs San Andres Unit 207

Collection Date: 2/28/2017 8:07:00 AM

Lab ID: 1703486-002

Matrix: SOIL

Received Date: 3/9/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	3/14/2017 2:05:35 PM	30685
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/13/2017 2:27:32 PM	30627
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/13/2017 2:27:32 PM	30627
Surr: DNOP	92.6	70-130		%Rec	1	3/13/2017 2:27:32 PM	30627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/10/2017 8:57:18 PM	30613
Surr: BFB	83.9	54-150		%Rec	1	3/10/2017 8:57:18 PM	30613
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.092		mg/Kg	1	3/10/2017 8:57:18 PM	30613
Benzene	ND	0.023		mg/Kg	1	3/10/2017 8:57:18 PM	30613
Toluene	ND	0.046		mg/Kg	1	3/10/2017 8:57:18 PM	30613
Ethylbenzene	ND	0.046		mg/Kg	1	3/10/2017 8:57:18 PM	30613
Xylenes, Total	ND	0.092		mg/Kg	1	3/10/2017 8:57:18 PM	30613
Surr: 4-Bromofluorobenzene	91.4	66.6-132		%Rec	1	3/10/2017 8:57:18 PM	30613

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1703486

Date Reported: 3/15/2017

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP3@2'

Project: East Hobbs San Andres Unit 207

Collection Date: 2/28/2017 8:17:00 AM

Lab ID: 1703486-003

Matrix: SOIL

Received Date: 3/9/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	3/14/2017 2:18:00 PM	30685
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/13/2017 2:52:11 PM	30627
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/13/2017 2:52:11 PM	30627
Surr: DNOP	92.1	70-130		%Rec	1	3/13/2017 2:52:11 PM	30627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/10/2017 9:23:25 PM	30613
Surr: BFB	86.3	54-150		%Rec	1	3/10/2017 9:23:25 PM	30613
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	3/10/2017 9:23:25 PM	30613
Benzene	ND	0.025		mg/Kg	1	3/10/2017 9:23:25 PM	30613
Toluene	ND	0.050		mg/Kg	1	3/10/2017 9:23:25 PM	30613
Ethylbenzene	ND	0.050		mg/Kg	1	3/10/2017 9:23:25 PM	30613
Xylenes, Total	ND	0.099		mg/Kg	1	3/10/2017 9:23:25 PM	30613
Surr: 4-Bromofluorobenzene	94.9	66.6-132		%Rec	1	3/10/2017 9:23:25 PM	30613

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 3 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1703486

Date Reported: 3/15/2017

CLIENT: Diversified Field Services, Inc

Client Sample ID: BKGD@2'

Project: East Hobbs San Andres Unit 207

Collection Date: 2/28/2017 11:47:00 AM

Lab ID: 1703486-004

Matrix: SOIL

Received Date: 3/9/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	3/14/2017 2:30:25 PM	30685
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/13/2017 3:16:45 PM	30627
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/13/2017 3:16:45 PM	30627
Surr: DNOP	93.3	70-130		%Rec	1	3/13/2017 3:16:45 PM	30627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/10/2017 9:49:33 PM	30613
Surr: BFB	82.4	54-150		%Rec	1	3/10/2017 9:49:33 PM	30613
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	3/10/2017 9:49:33 PM	30613
Benzene	ND	0.024		mg/Kg	1	3/10/2017 9:49:33 PM	30613
Toluene	ND	0.047		mg/Kg	1	3/10/2017 9:49:33 PM	30613
Ethylbenzene	ND	0.047		mg/Kg	1	3/10/2017 9:49:33 PM	30613
Xylenes, Total	ND	0.095		mg/Kg	1	3/10/2017 9:49:33 PM	30613
Surr: 4-Bromofluorobenzene	91.1	66.6-132		%Rec	1	3/10/2017 9:49:33 PM	30613

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703486

15-Mar-17

Client: Diversified Field Services, Inc
Project: East Hobbs San Andres Unit 207

Sample ID	MB-30685		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 30685		RunNo: 41363					
Prep Date:	3/14/2017		Analysis Date: 3/14/2017		SeqNo: 1297164		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-30685		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 30685		RunNo: 41363					
Prep Date:	3/14/2017		Analysis Date: 3/14/2017		SeqNo: 1297165		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.7	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703486

15-Mar-17

Client: Diversified Field Services, Inc
Project: East Hobbs San Andres Unit 207

Sample ID	MB-30627	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID: 30627			RunNo: 41321					
Prep Date:	3/10/2017	Analysis Date: 3/13/2017			SeqNo: 1294825		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.5	70	130			

Sample ID	LCS-30627		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 30627		RunNo: 41321					
Prep Date:	3/10/2017		Analysis Date: 3/13/2017		SeqNo: 1294826		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.5	63.8	116			
Surr: DNOP	4.5		5.000		89.2	70	130			

Sample ID	1703486-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SP1@2'		Batch ID: 30627		RunNo: 41324					
Prep Date:	3/10/2017		Analysis Date: 3/13/2017		SeqNo: 1295014		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.4	46.99	4.028	88.7	51.6	130			
Surr: DNOP	4.4		4.699		92.8	70	130			

Sample ID	1703486-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SP1@2'		Batch ID: 30627		RunNo: 41324					
Prep Date:	3/10/2017		Analysis Date: 3/13/2017		SeqNo: 1295047		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.9	49.50	4.028	84.1	51.6	130	0.160	20	
Surr: DNOP	4.5		4.950		91.6	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703486

15-Mar-17

Client: Diversified Field Services, Inc
Project: East Hobbs San Andres Unit 207

Sample ID	MB-30613		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 30613		RunNo: 41306					
Prep Date:	3/9/2017		Analysis Date: 3/10/2017		SeqNo: 1294532		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	820		1000		81.9	54	150			

Sample ID	LCS-30613		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 30613		RunNo: 41306					
Prep Date:	3/9/2017		Analysis Date: 3/10/2017		SeqNo: 1294534		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.2	76.4	125			
Surr: BFB	990		1000		99.4	54	150			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703486

15-Mar-17

Client: Diversified Field Services, Inc
Project: East Hobbs San Andres Unit 207

Sample ID	MB-30613		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 30613		RunNo: 41306					
Prep Date:	3/9/2017		Analysis Date: 3/10/2017		SeqNo: 1294570		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.9	66.6	132			

Sample ID	LCS-30613		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 30613		RunNo: 41306					
Prep Date:	3/9/2017		Analysis Date: 3/10/2017		SeqNo: 1294577		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.82	0.10	1.000	0	82.2	66.5	120			
Benzene	0.96	0.025	1.000	0	95.7	80	120			
Toluene	0.96	0.050	1.000	0	96.4	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.6	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.1	66.6	132			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: **DIVERSIFIED FIELD SE**

Work Order Number: **1703486**

RcptNo: **1**

Received by/date:

AJ

03/09/17

Logged By: **Lindsay Mangin**

3/9/2017 9:50:00 AM

[Signature]

Completed By: **Lindsay Mangin**

3/9/2017 12:30:35 PM

[Signature]

Reviewed By:

AJ

03/09/17

@ 1450

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			

Client: DFSI

Mailing Address: BILL TO LINN

Phone #: _____

email or Fax#: _____

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

☒ Standard ☐ Rush

EAST HOBBS SAN ANTONIO UNIT #207

Project Manager:

RICK RICKMAN
Sampler: FUSIAH RASCON

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.6°C

Container
Type and #Preservative
Type

HEAL No.

1703486

-0001

-007

-003

400-

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Date: 3-8-17	Time: 700	Relinquished by: 
--------------	-----------	--

Received by	Date	Time
<i>[Signature]</i>	3/8/17	0702

Remarks:

EMAIL Address

Date:	Time:	Relinquished by:
3/8/17	1900	

Received by: amw Date: 3/9/17 Time: 0000

M BURTUN
M ALVES
L FLORES
ERASCON

M. GURTON
M. ALVES → @DIVERSIFIEDFSI.COM

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Appendix IV

GROUNDWATER STUDY

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394



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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column	
L 01449		L	LE	2	1	4	19	18S	39E	679769	3623199*		110	45	65
L 01748		L	LE	2	3	1	08	18S	39E	680505	3626840*		125	48	77
L 01925		L	LE			3	20	18S	39E	680683	3622913*		100	51	49
L 02206		L	LE		4	3	19	18S	39E	679275	3622690*		110	60	50
L 02225		L	LE		4	4	07	18S	39E	680020	3625928*		130	62	68
L 02319		L	LE	4	4	3	19	18S	39E	679374	3622589*		90	60	30
L 02354		L	LE	4	4	3	19	18S	39E	679374	3622589*		100	43	57
L 02899		L	LE			1	20	18S	39E	680668	3623718*		121	66	55
L 03386		L	LE				19	18S	39E	679476	3623286*		100	40	60
L 03407		L	LE		4	4	07	18S	39E	680020	3625928*		120	55	65
L 03445		L	LE	4	2	1	20	18S	39E	680961	3623826*		100	51	49
L 03537		L	LE	2	4	3	20	18S	39E	680984	3622818*		102	40	62
L 03537	R	L	LE	2	4	3	20	18S	39E	680984	3622818*		102	40	62
L 03785		L	LE	1	1	1	20	18S	39E	680359	3624019*		100	65	35
L 03823		L	LE	1	2	1	08	18S	39E	680700	3627250*		135	70	65
L 03867		L	LE				20	18S	39E	681085	3623315*		85	12	73
L 04044	R	L	LE	1	1	3	20	18S	39E	680374	3623214*		100	58	42
L 04044 POD2		L	LE	1	1	3	20	18S	39E	680386	3623222		232		
L 04102		L	LE	2	1	3	20	18S	39E	680574	3623214*		105	65	40
L 04401		L	LE		4	3	08	18S	39E	680824	3625943*		100	70	30
L 04526	R	L	LE	1	1	3	20	18S	39E	680280	3626939		100	60	40
L 04526 POD2		L	LE	1	1	3	20	18S	39E	680347	3623243		229		
L 04529		L	LE	2	4	3	20	18S	39E	680984	3622818*		70	51	19
L 04571		L	LE	2	1	3	07	18S	39E	678906	3626408*		209	80	129
L 04571 POD4		L	LE		1	4	07	18S	39E	679610	3626323*		248	107	141
L 04571 S		L	LE	1	1	4	07	18S	39E	679509	3626422*		220	80	140
L 04571 S2		L	LE		1	4	07	18S	39E	679610	3626323*		176	70	106
L 04571 S2	R	L	LE		1	4	07	18S	39E	679610	3626323*		176	70	106
L 04571 S3		L	LE	4	2	2	07	18S	39E	680096	3627035*		223	120	103
L 04571 S4		L	LE	2	1	2	18	18S	39E	679724	3625617*		216	70	146
L 04780		L	LE	1	3	1	07	18S	39E	678623	3626844		266	120	146
L 04780	R	L	LE	1	3	1	07	18S	39E	678623	3626844		266	120	146
L 04780 POD2		L	LE	2	1	2	07	18S	39E	679694	3627228*		202	91	111

L 04814 POD3		L	LE	2	4	3	20	18S	39E	680984	3622818*		150	65	85
L 04856		L	LE		1	3	07	18S	39E	678807	3626309*		210		
L 04982		L	LE		2	3	19	18S	39E	679268	3623093*		100	65	35
L 05268		L	LE	1	1	1	17	18S	39E	680328	3625631*		100	48	52
L 05578		L	LE		3	3	20	18S	39E	680482	3622712*		100	50	50
L 06274		L	LE			3	20	18S	39E	680683	3622913*		75	50	25
L 06314		L	LE	3	1	3	20	18S	39E	680374	3623014*		188	65	123
L 06732		L	LE	4	1	3	20	18S	39E	680574	3623014*		125	60	65
L 06793	R	L	LE			3	20	18S	39E	680683	3622913*		110	94	16
L 06793 POD2		L	LE			3	20	18S	39E	680683	3622913*		150	85	65
L 06833	R	L	LE		1	3	20	18S	39E	680475	3623115*		172	65	107
L 06833 POD2		L	LE	2	1	3	20	18S	39E	680584	3623248		238	140	98
L 07233		L	LE	4	4	3	20	18S	39E	680984	3622618*		123	62	61
L 07501		L	LE	3	3	3	20	18S	39E	680381	3622611*		120	62	58
L 07571		L	LE	3	2	3	20	18S	39E	680776	3623021*		110	70	40
L 07674		L	LE	3	2	3	20	18S	39E	680776	3623021*		150	80	70
L 07755		L	LE	3	1	3	20	18S	39E	680374	3623014*		108	54	54
L 07763	R	L	LE		4	3	20	18S	39E	680745	3622510		128	53	75
L 07763 POD2		L	LE		4	3	20	18S	39E	680745	3622510		227	140	87
L 07767		L	LE	3	2	3	20	18S	39E	680776	3623021*		130	70	60
L 08022		L	LE			4	20	18S	39E	681488	3622927*		150	70	80
L 08196 POD2		L	LE	4	3	3	20	18S	39E	680581	3622611		272		
L 08305		L	LE				20	18S	39E	681085	3623315*		150	85	65
L 08326	R	L	LE	2	4	3	20	18S	39E	680948	3622871		150	60	90
L 08326 POD2		L	LE	4	2	4	20	18S	39E	680948	3622871		250	80	170
L 08515		L	LE		3	4	20	18S	39E	681287	3622726*		120	63	57
L 08850		L	LE	1	1	2	07	18S	39E	679494	3627228*		150	65	85
L 09860		L	LE	1	1	3	20	18S	39E	680374	3623214*		150	68	82
L 10005		L	LE			3	20	18S	39E	680683	3622913*		150		
L 10012		L	LE		3	3	19	18S	39E	678873	3622683*		140	87	53
L 10104		L	LE	2	4	3	20	18S	39E	680984	3622818*		133	67	66
L 10104	R	L	LE	2	4	3	20	18S	39E	680984	3622818*		133	67	66
L 10195		L	LE			3	20	18S	39E	680683	3622913*		150	20	130
L 10428		L	LE	1	2	3	20	18S	39E	680776	3623221*		160	60	100
L 10528		L	LE	2	1	2	07	18S	39E	679694	3627228*		170	78	92
L 10547		L	LE		3	3	20	18S	39E	680482	3622712*		158	80	78
L 10779		L	LE		3	4	19	18S	39E	679678	3622697*		198	90	108
L 10831		L	LE			3	20	18S	39E	680683	3622913*		150	78	72
L 10904		L	LE		4	3	19	18S	39E	679275	3622690*		198	90	108
L 11068		L	LE			3	20	18S	39E	680683	3622913*		190		
L 11158 POD1		L	LE	4	1	3	08	18S	39E	680513	3626237*		223	100	123
L 11158 POD2		L	LE	1	2	3	08	18S	39E	680715	3626444*		223	100	123

75 feet

12 feet

156 feet

Record Count: 102

PLSS Search:

Section(s): 7, 8, 17, 18, 19, Township: 18S Range: 39E
20

*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.

3/21/17 2:38 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
POD Number	Code													
L 01341		L	LE	1	1	1	12	18S	38E	677081	3627183* 	78	56	22
L 01409		L	LE		2	1	12	18S	38E	677585	3627091* 	170	65	105
L 01409	R	L	LE		2	1	12	18S	38E	677585	3627091* 	170	65	105
L 01409 POD3		L	LE	4	4	1	12	18S	38E	677691	3626588* 	193	65	128
L 01409 S		L	LE	3	4	1	12	18S	38E	677491	3626588* 			
L 02208		L	LE		4	3	24	18S	38E	677666	3622660* 	103	64	39
L 02214		L	LE	4	1	2	12	18S	38E	678086	3626998* 	94	70	24
L 02287		L	LE	4	1	2	12	18S	38E	678086	3626998* 	180	78	102
L 02287 S		L	LE	1	2	2	12	18S	38E	678178	3626990 	298	130	168
L 02287 S2		L	LE	3	4	2	12	18S	38E	678286	3626514 	258	137	121
L 02525		L	LE		3	3	13	18S	38E	677234	3624264* 	60	35	25
L 02906		L	LE	2	2	4	12	18S	38E	678503	3626400* 	180	63	117
L 02906 POD3		L	LE	1	2	4	12	18S	38E	678215	3626487 	195		
L 02906 S		L	LE	2	3	4	12	18S	38E	678108	3625990* 	250	90	160
L 03812		L	LE	3	1	2	12	18S	38E	677886	3626998* 	100	55	45
L 03828		L	LE	3	3	4	24	18S	38E	677967	3622567* 	115	85	30
L 04889		L	LE	3	3	4	12	18S	38E	677908	3625790* 	125		
L 06912		L	LE	4	4	1	12	18S	38E	677691	3626588* 	150		
L 07420		L	LE	1	1	1	12	18S	38E	677081	3627183* 	150	80	70
L 08816	R	L	LE	3	3	4	12	18S	38E	677908	3625790* 	155	70	85
L 09155	R	L	LE	3	3	4	12	18S	38E	677908	3625790* 	155	80	75
L 09155 POD2		L	LE	3	3	4	12	18S	38E	677968	3625788 	253	113	140
L 10931		L	LE			4	24	18S	38E	678269	3622869* 	210		
L 12617 POD1		L	LE	2	2	1	12	18S	38E	677789	3627298 	250	101	149
L 12834 POD1		L	LE	1	1	3	13	18S	38E	677100	3624691 	252		

Average Depth to Water: 79 feet

Minimum Depth: 35 feet

Maximum Depth: 137 feet

Record Count: 25

PLSS Search:

Section(s): 12, 13, 24

Township: 18S

Range: 38E

*UTM location was derived from PLSS - see Help

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

Appendix V

FINAL C-141

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Linn Energy	Contact: Aaron Hickert
Address: 2130 W Bender, Hobbs, NM 88240	Telephone No. 432-363-9496
Facility Name: East Hobbs San Andres Unit #207	Facility Type: Oil

Surface Owner: Private / State	Mineral Owner:	API No. 30-025-37814
--------------------------------	----------------	----------------------

LOCATION OF RELEASE

Unit Letter H	Section 30	Township 18S	Range 39E	Feet from the 2330	North/South Line North	Feet from 1197	East/West Line East	County Lea
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-------------------	------------------------	---------------

Latitude: 32.719437 Longitude: -103.080925

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 0.5 bbls / 9 bbls	Volume Recovered: 0
Source of Release: Poly flowline	Date and Hour of Occurrence 02/23/2017 3:30 PM	Date and Hour of Discovery 02/23/2017 4:30 PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Maxey Brown - NMOCD	
By Whom? Rick Rickman	Date and Hour: 4:30 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

High winds resulted in power line contacting each other, creating sparks and grass fire. As the fire traveled, it burned the poly flowline to Linn EHSAU 207, resulting in a loss of approximately 0.5 bbls of oil and 9 bbls of produced water. The well was shut down and shut in until fire department extinguished the fire. At that time, repairs were made and the well returned to service. The fire consumed the fluids that escaped from the flow line.

Describe Area Affected and Cleanup Action Taken.

DFSI personnel responded to the release site and scraped the affected area to minimize the environmental impact. On February 28, 2017, DFSI personnel were on site to obtain soil samples. Three sample points and one background sample were collected to 2 ft below ground surface (bgs) and field tested for chlorides. Collection of samples halted at 2 ft bgs due to auger refusal and encountering hard rock. The field samples were submitted to Hall Laboratory of Albuquerque, NM to obtain confirmation, yielding concentrations below detectable limits throughout.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Aaron Hickert	Approved by Environmental Specialist:	
Title: Sr EH&S Representative	Approval Date:	Expiration Date:
E-mail Address: ahickert@linenergy.com	Conditions of Approval:	Attached ☐
Date: 03/22/2017 Phone: 432-363-9496		

* Attach Additional Sheets If Necessary