



Skelly Unit #247

CLOSURE REQUEST

API No. 30-015-28788

Unit Letter N, Section 21, Township 17 South, Range 31 East

NMOCD Case #: 2R-4222

August 7, 2017

Prepared by:

Michael Alves

Environmental Department

Diversified Field Service, Inc.

206 W Snyder

Hobbs, NM 88240

Phone: (575)964-8394

Fax: (575)393-8396

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

RE: **Linn Skelly Unit #247**
Closure Request
UL/N, Section 21, T17S, R31E
API No. 30-015-26788
NMOCD Case #: 2R-4222
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 south of Loco Hills, NM, in Eddy County. The spill resulted from a separated injection line, releasing 400 barrels of produced water, with 350 barrels recovered. An initial C-141 was submitted to NMOCD on May 18, 2017 and approved on May 23, 2017 (Appendix I). The impacted area is on the road, with very little in the pasture area.

Site Assessment and Delineation

On May 18, 2017, DFSI personnel were on site to remove contaminated soil and obtain samples within the leak area (Appendix II). Five samples were obtained and field sampled for chloride levels, as well as BTEX (Figure 1). The BTEX samples were screened using a Mini Rae Photoionization Detector (PID). Field samples were submitted for analysis at Hall Environmental of Albuquerque, NM (Appendix III).

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 this site. Therefore, no eminent danger of groundwater impact or threat to life is anticipated (Appendix IV).

Conclusion

Due to the location of the release being within an active and traveled road and with overhead lines located directly above, DFSI, on behalf of Linn Energy, requests deferment of remediation activities until site abandonment and respectfully requests the closure of the regulatory file for this site with the submission of the Final C-141 (Appendix V).

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

Sincerely,



Michael Alves

Environmental Operations Foreman | Diversified Field Service, Inc.

206 West Snyder | Hobbs, NM 88240

Office: (575)964-8394 | Mobile: (575)631-3364

Fax: (575)964-8396 | Email: Malves@diversifiedfsi.com

CC: Shelly Tucker, BLM

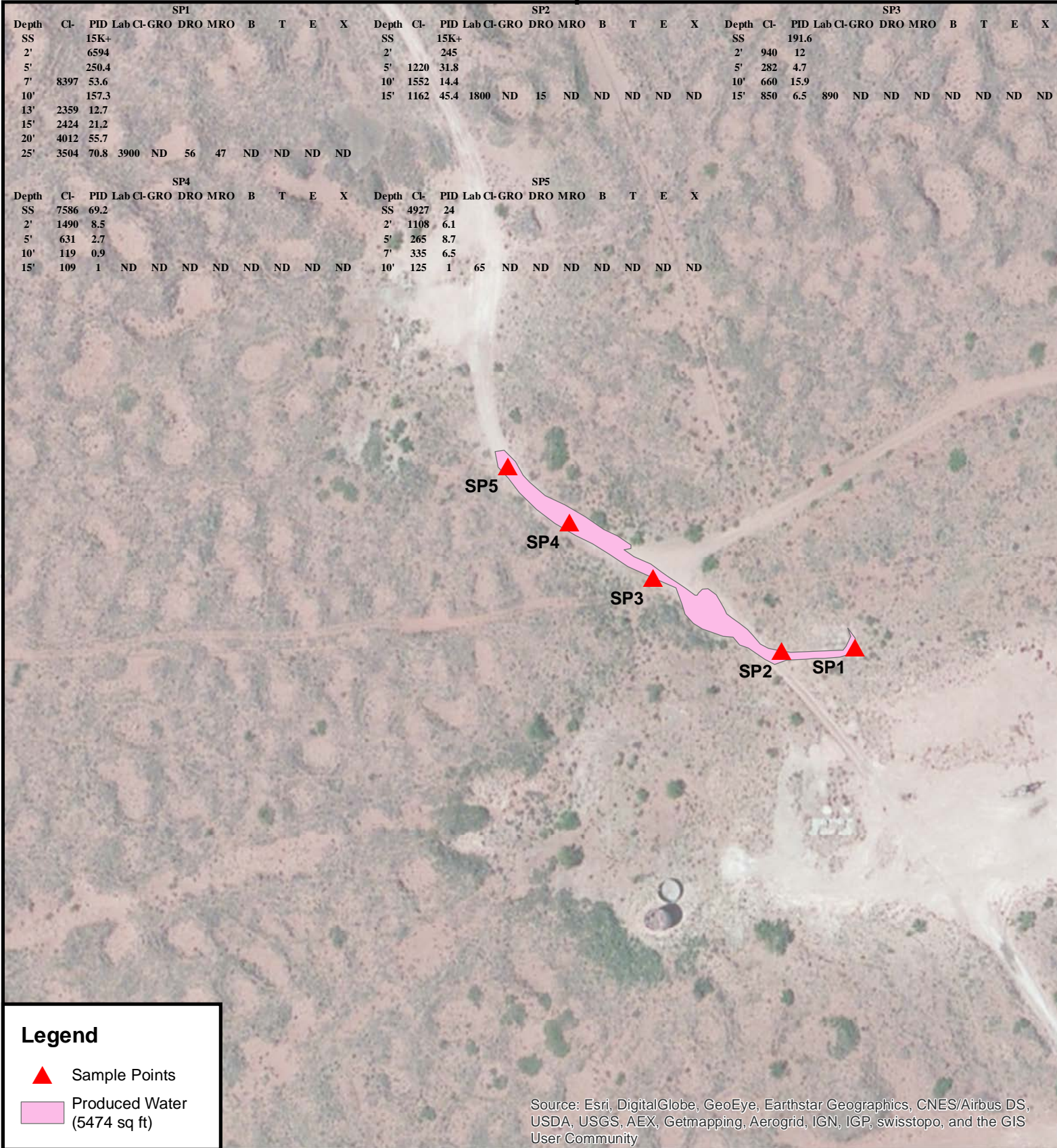
Figures: Site Diagram

Appendices: Initial C-141
Site Photos
Laboratory Analysis
Groundwater Study
Final C-141

Site Map

SP1											SP2											SP3										
Depth	Cl-	PID	Lab	Cl-GRO	DRO	MRO	B	T	E	X	Depth	Cl-	PID	Lab	Cl-GRO	DRO	MRO	B	T	E	X	Depth	Cl-	PID	Lab	Cl-GRO	DRO	MRO	B	T	E	X
SS		15K+									SS		15K+									SS		191.6								
2'		6594									2'		245									2'	940	12								
5'		250.4									5'	1220	31.8									5'	282	4.7								
7'	8397	53.6									10'	1552	14.4									10'	660	15.9								
10'		157.3									15'	1162	45.4	1800	ND	15	ND	ND	ND	ND	ND	15'	850	6.5	890	ND	ND	ND	ND	ND	ND	ND
13'	2359	12.7																														
15'	2424	21.2																														
20'	4012	55.7																														
25'	3504	70.8	3900	ND	56	47	ND	ND	ND	ND																						

SP4											SP5										
Depth	Cl-	PID	Lab	Cl-GRO	DRO	MRO	B	T	E	X	Depth	Cl-	PID	Lab	Cl-GRO	DRO	MRO	B	T	E	X
SS	7586	69.2									SS	4927	24								
2'	1490	8.5									2'	1108	6.1								
5'	631	2.7									5'	265	8.7								
10'	119	0.9									7'	335	6.5								
15'	109	1	ND	ND	ND	ND	ND	ND	ND	ND	10'	125	1	65	ND	ND	ND	ND	ND	ND	ND

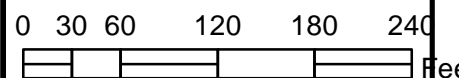


Legend

- Sample Points
- Produced Water (5474 sq ft)



Linn
Skelly Unit #247
Unit Letter N, Sec. 21, T17S, R31E
Eddy County, NM
API #: 30-015-28788
NMOCD Case #: 2R-4222



Appendix I

INITIAL C-141

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

NM OIL CONSERVATION

ARTESIA DISTRICT

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

MAY 23 2017

Form C-14
Revised August 8, 201

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

RECEIVED Copy to appropriate District Office in accordance with 19.15.29 NMAC

Release Notification and Corrective Action

NAB1714536076 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company LINN Operating, Inc. <u>204324</u>	Contact Aaron Hickert
Address 2130 W Bender Blvd Hobbs, NM 88240	Telephone No. 432-363-9496
Facility Name Skelly Unit #247	Facility Type Oil Well

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-28788
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	21	17S	31E	1110	South	2515	West	Eddy

Latitude 32.81638 Longitude -103.87608

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 400 Bbl	Volume Recovered 350 Bbl
Source of Release Injection Pipeline	Date and Hour of Occurrence 5/17/2017 10:30 PM	Date and Hour of Discovery 5/17/2017 10:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? M Bratcher-NMOCD, S Tucker-BLM	
By Whom? M Burton-Diversified	Date and Hour 5/18/2017 at 9:00am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Injection line parted near the header at an underground fitting causing the spill. Third party contacted Linn operator about spill, operator responded, found spill, shut in line at injection header, and called out a Vac truck to recover standing PW.

Describe Area Affected and Cleanup Action Taken.*

Operator responded, found spill, and called out a Vac truck to recover standing PW. Spill traveled down lease road and pooled in a low area on road with very little getting into pasture. Delineation and initial cleanup in progress with sampling to occur afterwards. Pending results of sampling a work plan will be developed and final remediation to follow after approvals.

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

Signature: <u>Aaron Hickert</u>	OIL CONSERVATION DIVISION	
Printed Name: Aaron Hickert	Approved by Environmental Specialist <u>Crystal W...</u>	
Title: Sr. EH&S Representative	Approval Date: <u>5/23/17</u>	Expiration Date: <u>N/A</u>
E-mail Address: ahickert@linnenergy.com	Conditions of Approval: <u>see attached</u>	Attached <input checked="" type="checkbox"/>
Date: 5/18/2017 Phone: 432-363-9496		

* Attach Additional Sheets If Necessary

New forms can be found in the
New Mexico State Website in forms:
<http://www.emnrd.state.nm.us/OCD/forms.html>

2PP-4222

Appendix II

SITE PHOTOS

Skelly Unit #247



Site prior



Site prior



Collecting sample by hand auger



Excavating contaminated soil

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

June 02, 2017

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

RE: Skelly Unit 247

OrderNo.: 1705C76

Dear Michael Burton:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/24/2017 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 **1705C76**Date Reported: **6/2/2017****CLIENT:** Diversified Field Services, Inc**Client Sample ID:** SP1 @ 25'**Project:** Skelly Unit 247**Collection Date:** 5/18/2017 11:21:00 AM**Lab ID:** 1705C76-001**Matrix:** SOIL**Received Date:** 5/24/2017 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	3900	150		mg/Kg	100	5/30/2017 8:06:21 PM	32004
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	56	9.3		mg/Kg	1	5/26/2017 1:23:08 PM	31966
Motor Oil Range Organics (MRO)	47	47		mg/Kg	1	5/26/2017 1:23:08 PM	31966
Surr: DNOP	94.4	70-130		%Rec	1	5/26/2017 1:23:08 PM	31966
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/26/2017 9:46:00 PM	31961
Surr: BFB	100	54-150		%Rec	1	5/26/2017 9:46:00 PM	31961
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/26/2017 9:46:00 PM	31961
Toluene	ND	0.049		mg/Kg	1	5/26/2017 9:46:00 PM	31961
Ethylbenzene	ND	0.049		mg/Kg	1	5/26/2017 9:46:00 PM	31961
Xylenes, Total	ND	0.099		mg/Kg	1	5/26/2017 9:46:00 PM	31961
Surr: 4-Bromofluorobenzene	118	66.6-132		%Rec	1	5/26/2017 9:46:00 PM	31961

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 1705C76

Date Reported: 6/2/2017

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP2 @ 15'

Project: Skelly Unit 247

Collection Date: 5/18/2017 12:11:00 PM

Lab ID: 1705C76-002

Matrix: SOIL

Received Date: 5/24/2017 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1800	75		mg/Kg	50	5/30/2017 8:18:45 PM	32004
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	15	9.5		mg/Kg	1	5/26/2017 1:45:08 PM	31966
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/26/2017 1:45:08 PM	31966
Surr: DNOP	91.7	70-130		%Rec	1	5/26/2017 1:45:08 PM	31966
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/26/2017 10:10:10 PM	31961
Surr: BFB	101	54-150		%Rec	1	5/26/2017 10:10:10 PM	31961
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/26/2017 10:10:10 PM	31961
Toluene	ND	0.048		mg/Kg	1	5/26/2017 10:10:10 PM	31961
Ethylbenzene	ND	0.048		mg/Kg	1	5/26/2017 10:10:10 PM	31961
Xylenes, Total	ND	0.095		mg/Kg	1	5/26/2017 10:10:10 PM	31961
Surr: 4-Bromofluorobenzene	119	66.6-132		%Rec	1	5/26/2017 10:10:10 PM	31961

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 1705C76

Date Reported: 6/2/2017

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP3 @ 15'

Project: Skelly Unit 247

Collection Date: 5/18/2017 12:26:00 PM

Lab ID: 1705C76-003

Matrix: SOIL

Received Date: 5/24/2017 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	890	30		mg/Kg	20	5/30/2017 11:00:22 AM	32013
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/26/2017 2:07:18 PM	31966
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/26/2017 2:07:18 PM	31966
Surr: DNOP	95.2	70-130		%Rec	1	5/26/2017 2:07:18 PM	31966
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/26/2017 10:34:19 PM	31961
Surr: BFB	99.2	54-150		%Rec	1	5/26/2017 10:34:19 PM	31961
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/26/2017 10:34:19 PM	31961
Toluene	ND	0.047		mg/Kg	1	5/26/2017 10:34:19 PM	31961
Ethylbenzene	ND	0.047		mg/Kg	1	5/26/2017 10:34:19 PM	31961
Xylenes, Total	ND	0.093		mg/Kg	1	5/26/2017 10:34:19 PM	31961
Surr: 4-Bromofluorobenzene	116	66.6-132		%Rec	1	5/26/2017 10:34:19 PM	31961

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 **1705C76**

Date Reported: **6/2/2017**

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP4 @ 15'

Project: Skelly Unit 247

Collection Date: 5/18/2017 3:43:00 PM

Lab ID: 1705C76-004

Matrix: SOIL

Received Date: 5/24/2017 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	5/30/2017 11:37:36 AM	32013
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/26/2017 2:29:21 PM	31966
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/26/2017 2:29:21 PM	31966
Surr: DNOP	91.5	70-130		%Rec	1	5/26/2017 2:29:21 PM	31966
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/26/2017 10:58:29 PM	31961
Surr: BFB	102	54-150		%Rec	1	5/26/2017 10:58:29 PM	31961
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/26/2017 10:58:29 PM	31961
Toluene	ND	0.049		mg/Kg	1	5/26/2017 10:58:29 PM	31961
Ethylbenzene	ND	0.049		mg/Kg	1	5/26/2017 10:58:29 PM	31961
Xylenes, Total	ND	0.099		mg/Kg	1	5/26/2017 10:58:29 PM	31961
Surr: 4-Bromofluorobenzene	120	66.6-132		%Rec	1	5/26/2017 10:58:29 PM	31961

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 **1705C76**

Date Reported: **6/2/2017**

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP5 @ 10'

Project: Skelly Unit 247

Collection Date: 5/18/2017 3:12:00 PM

Lab ID: 1705C76-005

Matrix: SOIL

Received Date: 5/24/2017 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	65	30		mg/Kg	20	5/30/2017 11:50:00 AM	32013
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/26/2017 2:51:32 PM	31966
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/26/2017 2:51:32 PM	31966
Surr: DNOP	81.8	70-130		%Rec	1	5/26/2017 2:51:32 PM	31966
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/26/2017 11:22:41 PM	31961
Surr: BFB	98.8	54-150		%Rec	1	5/26/2017 11:22:41 PM	31961
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/26/2017 11:22:41 PM	31961
Toluene	ND	0.049		mg/Kg	1	5/26/2017 11:22:41 PM	31961
Ethylbenzene	ND	0.049		mg/Kg	1	5/26/2017 11:22:41 PM	31961
Xylenes, Total	ND	0.097		mg/Kg	1	5/26/2017 11:22:41 PM	31961
Surr: 4-Bromofluorobenzene	117	66.6-132		%Rec	1	5/26/2017 11:22:41 PM	31961

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#: 1705C76

02-Jun-17

Client: Diversified Field Services, Inc

Project: Skelly Unit 247

Sample ID	MB-32004		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	32004		RunNo:	43101				
Prep Date:	5/26/2017		Analysis Date:	5/26/2017		SeqNo:	1356954		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-32004		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 32004		RunNo: 43101					
Prep Date:	5/26/2017		Analysis Date: 5/26/2017		SeqNo: 1356955		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

Sample ID	MB-32013		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	32013		RunNo:	43126				
Prep Date:	5/30/2017		Analysis Date:	5/30/2017		SeqNo:	1358362		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-32013			SampType:	LCS		TestCode:	EPA Method 300.0: Anions			
Client ID:	LCSS			Batch ID:	32013		RunNo:	43126			
Prep Date:	5/30/2017			Analysis Date:	5/30/2017		SeqNo:	1358363		Units:	mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	93.1	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#: 1705C76

02-Jun-17

Client: Diversified Field Services, Inc

Project: Skelly Unit 247

Sample ID	MB-31966		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 31966		RunNo: 43088					
Prep Date:	5/25/2017		Analysis Date: 5/26/2017		SeqNo: 1356611		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	9.1		10.00		91.4	70	130			

Sample ID	LCS-31966		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 31966		RunNo: 43088					
Prep Date:	5/25/2017		Analysis Date: 5/26/2017		SeqNo: 1356913		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.2	73.2	114			
Surr: DNOP	4.0		5.000		80.9	70	130			

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#: 1705C76

02-Jun-17

Client: Diversified Field Services, Inc

Project: Skelly Unit 247

Sample ID	LCS-31961		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 31961		RunNo: 43104					
Prep Date:	5/25/2017		Analysis Date: 5/26/2017		SeqNo: 1356844		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	76.4	125			
Surr: BFB	1100		1000		114	54	150			

Sample ID	MB-31961		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 31961		RunNo: 43104					
Prep Date:	5/25/2017		Analysis Date: 5/26/2017		SeqNo: 1356845		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	1000		1000		101	54	150			

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#: 1705C76

02-Jun-17

Client: Diversified Field Services, Inc

Project: Skelly Unit 247

Sample ID	LCS-31961		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 31961		RunNo: 43104					
Prep Date:	5/25/2017		Analysis Date: 5/26/2017		SeqNo: 1356872		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	108	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		125	66.6	132			

Sample ID	MB-31961	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: 31961			RunNo: 43104					
Prep Date:	5/25/2017	Analysis Date: 5/26/2017			SeqNo: 1356873		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		117	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



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

Sample Log-In Check List

Client Name: DIVERSIFIED FIELD SE

Work Order Number: 1705C76

RcptNo: 1

Received By: Erin Melendrez 5/24/2017 9:55:00 AM

Completed By: Ashley Gallegos 5/24/2017 4:26:33 PM

Reviewed By: SRE 05/25/17

UAG
AG

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: Michael Burton Date: 5/24/2017
By Whom: Ashley Gallegos Via: ☐ eMail ☒ Phone ☐ Fax ☐ In Person
Regarding: High temp
Client Instructions: Proceed with analysis

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	7.5	Good	Yes			

Chain-of-Custody Record

Client: DIVERSIFIED

Mailing Address: Battleground St

Phone #: #8355

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

SKELLY UNIT #247

Project #:

Project Manager:

MICHAEL BURTON

Sampler: EUSAHRASLOW

On Ice: ☒ Yes ☐ No

Sample Temperature: 7.5°C

HEAL No.

1705C70

Preservative Type

COOL

Container Type and #

5AR

-001

-002

-003

-004

-005

Received by:

SPH

Date:

5/23/07

Time:

0600

Relinquished by:

SPH

Date:

5/23/07

Time:

1300

Received by:

SPH

Date:

05/24/07

Time:

0955

Remarks:

Temp approved per Michael 05/24/07

Burton wmg

EMAIL AL@DIVERSIFIED

Air Bubbles (Y or N)

BTEX + MTBE + TMB's (8021)

BTEX + MTBE + TPH (Gas only)

TPH 8015B (GRO / DRO / MRO)

TPH (Method 418.1)

EDB (Method 504.1)

PAH's (8310 or 8270 SIMS)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Analysis Request

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

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

(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): 15, 16, 17, 20, 21, Township: 17S Range: 31E
22, 27, 28, 29

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.

8/3/17 4:44 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

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: Skelly Unit #247	Facility Type: Oil Well

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-28788
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LOCATION OF RELEASE

Unit Letter N	Section 21	Township 17S	Range 31E	Feet from the 1110	North/South Line South	Feet from 2515	East/West Line West	County Eddy
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Latitude: 32.81638 Longitude: -103.87608

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 400 bbls	Volume Recovered: 350 bbls
Source of Release: Injection Pipeline	Date and Hour of Occurrence 05/17/2017 10:30 PM	Date and Hour of Discovery 05/17/2017 10:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? M. Bratcher – NMOCD, Shelly Tucker – BLM	
By Whom? Mike Burton (Diversified)	Date and Hour: 05/18/2017 9:00 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

Injection line parted near the header at an underground fitting causing the spill. Third party contacted Linn operator about spill, operator responded, found spill, shut in line at injection header, and called out a vacuum truck to recover standing PW. Operator responded, found spill, and called out a vacuum truck to recover standing PW. Spill traveled down lease road and pooled in a low area on road with very little getting into pasture.

Describe Area Affected and Cleanup Action Taken.

On May 18, 2017, DFSI personnel were on site to remove contaminated soil and obtain samples within the leak area. Five samples were obtained and field sampled for chloride levels, as well as BTEX. The BTEX samples were screened using a Mini Rae Photoionization Detector (PID). Field samples were submitted for analysis at Hall Environmental of Albuquerque, NM.

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 <input type="checkbox"/>
Date: 08/07/2017 Phone: 432-363-9496			

* Attach Additional Sheets If Necessary