

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 April 3, 2017  
Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

OVF1801028713

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company Hilcorp Energy Company	Contact Clara Cardoza
Address 382 Rd 3100 Aztec NM 87410	Telephone No. 505-564-0733
Facility Name P1-P2 Pipeline	Facility Type Pipeline

Surface Owner Federal	Mineral Owner	API No. N/A
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LOCATION OF RELEASE

Unit Letter	Section 16	Township 28N	Range 11W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude 36.6776352 Longitude -107.8841248 NAD83

NATURE OF RELEASE

Type of Release Hydrocarbon	Volume of Release Unknown	Volume Recovered none
Source of Release Pipeline	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 12/20/2017 2:30 P.M.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
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.\*

NMOCD  
AUG 06 2018

Describe Cause of Problem and Remedial Action Taken.\*  
During a pipeline modification historic hydrocarbon impacted soil was encountered. The project manager contacted environmental and I went to the site to collect a sample of the impacted soil. Both GRO and BTEX confirmed remediation will need to be done at this site.

DISTRICT III

Describe Area Affected and Cleanup Action Taken.\*  
Hilcorp Energy will delineate this site to determine the extent of contamination. This will be scheduled in the next 30 days. **After delineation was completed excavation of site removed approximately 270 cubic yards of impacted soil. Attached are the confirmation sample\*\* results and a figure depicting the sample locations.**

\*\*please note the confirmation samples were mistakenly labeled PZ Meter

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: Clara Cardoza	Approved by Environmental Specialist: 	
Title: Environmental Specialist	Approval Date: 8/6/18	Expiration Date:
E-mail Address: ccardoza@hilcorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 08/03/2018	Phone: 505-564-0733	

\* Attach Additional Sheets If Necessary

OVF1801029165





### Confirmation Sample Location

Sample Date:  
April 27, 2018

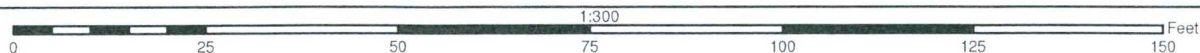


Created By:  
Kevin Cole  
January 30, 2018  
TE Project No.: HEC-180005

**P1-P2 Pipeline/Pioneer 2 Gas Gathering**  
**Hillcorp Energy Company**  
**Dakota Basin, San Juan County, New Mexico**

Datum: NAD83  
Imagery Source: ESRI  
Vector Source: TE

 Excavation







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

May 09, 2018

Heather Woods  
Rule Engineering LLC  
501 Airport Dr., Ste 205  
Farmington, NM 87401  
TEL: (505) 325-1055  
FAX

RE: PZ Meter

OrderNo.: 1804E23

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/28/2018 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](http://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.****CLIENT:** Rule Engineering LLC**Client Sample ID:** SC-1**Project:** PZ Meter**Collection Date:** 4/27/2018 9:45:00 AM**Lab ID:** 1804E23-001**Matrix:** SOIL**Received Date:** 4/28/2018 10:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/4/2018 1:39:46 PM	37876
Surr: BFB	110	70-130		%Rec	1	5/4/2018 1:39:46 PM	37876
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/2/2018 5:52:12 PM	37891
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/2/2018 5:52:12 PM	37891
Surr: DNOP	101	70-130		%Rec	1	5/2/2018 5:52:12 PM	37891
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.024		mg/Kg	1	5/2/2018 6:52:03 PM	37876
Toluene	ND	0.047		mg/Kg	1	5/2/2018 6:52:03 PM	37876
Ethylbenzene	ND	0.047		mg/Kg	1	5/2/2018 6:52:03 PM	37876
Xylenes, Total	0.11	0.095		mg/Kg	1	5/2/2018 6:52:03 PM	37876
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	5/2/2018 6:52:03 PM	37876
Surr: Toluene-d8	80.2	70-130		%Rec	1	5/2/2018 6:52:03 PM	37876

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	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 1804E23

Date Reported: 5/9/2018

CLIENT: Rule Engineering LLC

Client Sample ID: SC-2

Project: PZ Meter

Collection Date: 4/27/2018 9:52:00 AM

Lab ID: 1804E23-002

Matrix: SOIL

Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/2/2018 7:15:09 PM	37876
Surr: BFB	116	70-130		%Rec	1	5/2/2018 7:15:09 PM	37876
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/2/2018 6:14:23 PM	37891
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/2/2018 6:14:23 PM	37891
Surr: DNOP	92.0	70-130		%Rec	1	5/2/2018 6:14:23 PM	37891
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.024		mg/Kg	1	5/2/2018 7:15:09 PM	37876
Toluene	ND	0.047		mg/Kg	1	5/2/2018 7:15:09 PM	37876
Ethylbenzene	ND	0.047		mg/Kg	1	5/2/2018 7:15:09 PM	37876
Xylenes, Total	ND	0.095		mg/Kg	1	5/2/2018 7:15:09 PM	37876
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	5/2/2018 7:15:09 PM	37876
Surr: Toluene-d8	86.2	70-130		%Rec	1	5/2/2018 7:15:09 PM	37876

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
	PQL	Practical Quantitative Limit	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 **1804E23**

Date Reported: 5/9/2018

**CLIENT:** Rule Engineering LLC

**Client Sample ID:** SC-3

**Project:** PZ Meter

**Collection Date:** 4/27/2018 10:04:00 AM

**Lab ID:** 1804E23-003

**Matrix:** SOIL

**Received Date:** 4/28/2018 10:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/2/2018 7:38:11 PM	37876
Surr: BFB	118	70-130		%Rec	1	5/2/2018 7:38:11 PM	37876
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/2/2018 6:36:18 PM	37891
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/2/2018 6:36:18 PM	37891
Surr: DNOP	97.4	70-130		%Rec	1	5/2/2018 6:36:18 PM	37891
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.024		mg/Kg	1	5/2/2018 7:38:11 PM	37876
Toluene	ND	0.047		mg/Kg	1	5/2/2018 7:38:11 PM	37876
Ethylbenzene	ND	0.047		mg/Kg	1	5/2/2018 7:38:11 PM	37876
Xylenes, Total	ND	0.095		mg/Kg	1	5/2/2018 7:38:11 PM	37876
Surr: 4-Bromofluorobenzene	129	70-130		%Rec	1	5/2/2018 7:38:11 PM	37876
Surr: Toluene-d8	86.7	70-130		%Rec	1	5/2/2018 7:38:11 PM	37876

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

<b>Qualifiers:</b>	*	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
	PQL	Practical Quantitative Limit	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 1804E23

Date Reported: 5/9/2018

CLIENT: Rule Engineering LLC

Client Sample ID: SC-4

Project: PZ Meter

Collection Date: 4/27/2018 10:23:00 AM

Lab ID: 1804E23-004

Matrix: SOIL

Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/2/2018 8:01:18 PM	37876
Surr: BFB	116	70-130		%Rec	1	5/2/2018 8:01:18 PM	37876
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/2/2018 6:58:27 PM	37891
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/2/2018 6:58:27 PM	37891
Surr: DNOP	98.8	70-130		%Rec	1	5/2/2018 6:58:27 PM	37891
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.025		mg/Kg	1	5/2/2018 8:01:18 PM	37876
Toluene	ND	0.050		mg/Kg	1	5/2/2018 8:01:18 PM	37876
Ethylbenzene	ND	0.050		mg/Kg	1	5/2/2018 8:01:18 PM	37876
Xylenes, Total	ND	0.099		mg/Kg	1	5/2/2018 8:01:18 PM	37876
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	5/2/2018 8:01:18 PM	37876
Surr: Toluene-d8	87.3	70-130		%Rec	1	5/2/2018 8:01:18 PM	37876

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
	PQL	Practical Quantitative Limit	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#: 1804E23

09-May-18

Client: Rule Engineering LLC

Project: PZ Meter

Sample ID	LCS-37891		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 37891		RunNo: 50978					
Prep Date:	5/1/2018		Analysis Date: 5/2/2018		SeqNo: 1655745		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.9	70	130			
Surr: DNOP	4.8		5.000		96.1	70	130			

Sample ID	MB-37891		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 37891		RunNo: 50978					
Prep Date:	5/1/2018		Analysis Date: 5/2/2018		SeqNo: 1655746		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	10		10.00		105	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  
PQL Practical Quantitative Limit  
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#: 1804E23

09-May-18

Client: Rule Engineering LLC

Project: PZ Meter

Sample ID	Ics-37876		SampType: LCS4			TestCode: EPA Method 8260B: Volatiles Short List				
Client ID:	BatchQC		Batch ID: 37876			RunNo: 50985				
Prep Date:	5/1/2018		Analysis Date: 5/2/2018			SeqNo: 1655456		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.0	80	120			
Toluene	0.97	0.050	1.000	0	96.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	0.58		0.5000		115	70	130			
Surr: Toluene-d8	0.45		0.5000		90.5	70	130			

Sample ID	mb-37876		SampType: MBLK			TestCode: EPA Method 8260B: Volatiles Short List				
Client ID:	PBS		Batch ID: 37876			RunNo: 50985				
Prep Date:	5/1/2018		Analysis Date: 5/2/2018			SeqNo: 1655457		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	0.65		0.5000		130	70	130			S
Surr: Toluene-d8	0.44		0.5000		88.2	70	130			

### 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
PQL Practical Quantitative Limit	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#: 1804E23

09-May-18

Client: Rule Engineering LLC

Project: PZ Meter

Sample ID	Ics-37876	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS	Batch ID: 37876			RunNo: 50985					
Prep Date:	5/1/2018	Analysis Date: 5/2/2018			SeqNo: 1655451		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.0	70	130			
Surr: BFB	500		500.0		99.0	70	130			

Sample ID	mb-37876		SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range				
Client ID:	PBS		Batch ID: 37876			RunNo: 50985				
Prep Date:	5/1/2018		Analysis Date: 5/2/2018			SeqNo: 1655452		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	600		500.0		120	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  
PQL Practical Quantitative Limit  
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