OIL CONS. DIV DIST. 3

SEP 02 2015

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 to accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **Burlington Resources Oil & Gas Company**	Contact **Crystal Tafoya**
Address 3401 East 30th St, Farmington, NM	Telephone No.(505) 326-9837
Facility Name: **Lloyd 2A**	Facility Type: **Gas Well**

Surface Owner **Federal**	Mineral Owner **Federal (SF-078144)**	API No.**30-045-29531**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	**24**	**30N**	**11W**	**915**	**North**	**1485**	**West**	**San Juan**

Latitude 36.8021 Longitude -107.94603

NATURE OF RELEASE

Type of Release **Produced Water**	Volume of Release **Unknown**	Volume Recovered **Unknown**
Source of Release **Below Grade Tank**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **December 20, 2010**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Below-Grade Tank Closure activies with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC.

Describe Area Affected and Cleanup Action Taken.*
NMOCD action levels for releases are specified in NMOCD's Guidelines for Leaks, Spills and Releases and the release was assigned a ranking score of 10. Samples were collected and analytical results are below applicable NMOCD action levels. No further work will be performed. The final report is attached for review.

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: Crystal L. Tafoya	OIL CONSERVATION DIVISION Approved by Environmental Specialist:	
Printed Name: **Crystal Tafoya**		
Title: **Field Environmental Specialist**	Approval Date: 9/4/15	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval:	Attached ☐
Date: 8/31/15 Phone: (505) 326-9837		

* Attach Additional Sheets If Necessary

#Nes 1524742574

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December 28, 2010 Project Number 92115-1542

Ms. Kelsi Harrington
Conoco Phillips
3401 East 30th Street
Farmington, New Mexico 87401 Phone: (505) 599-3403

RE: BELOW GRADE TANK CLOSURE DOCUMENTATION FOR THE LLOYD UNIT 2A (HBR) WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Harrington,

Enclosed please find the field notes and analytical results for below grade tank (BGT) closure activities performed at the Lloyd Unit 2A (hBr) well site located in Section 24, Township 30 North, Range 11 West, San Juan County, New Mexico. Upon Envirotech personnel's arrival on December 20, 2010, one (1) five (5)-point composite sample was collected from beneath the former BGT. The sample was analyzed in the field for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, for organic vapors using a photoionization detector (PID) and for chlorides. Additionally, the sample was placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015, for benzene and BTEX using USEPA Method 8021 and for total chlorides using USEPA Method 4500. The sample returned results below the regulatory standards for benzene, BTEX and chlorides but above the regulatory standard of 100 parts per million (ppm) TPH using USEPA Method 418.1, confirming a release did occur.

A brief site assessment was conducted and the regulatory standards were determined to be 1000 ppm TPH and 100 ppm organic vapors due to depth to groundwater being approximately 100 feet, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Spills, Leaks, and Releases. The sample from beneath the former BGT returned results below the regulatory standard for TPH; see attached ***Analytical Results***. Envirotech, Inc. recommends no further action in regards to this incident.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,
ENVIROTECH, INC.

Barian Williamson
Senior Environmental Technician
bwilliamson@envirotech-inc.com

Enclosures: Analytical Results
Field Notes

Cc: Client File 92115

PAGE NO: 1 OF 1

DATE STARTED: 12-20-10

DATE FINISHED: 12-20-10

ENVIROTECH INC

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

ENVIRONMENTAL SPECIALIST: BWW

LAT: 36.802107

LONG: -107.446489

FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: Lloyd WELL #: 2A TEMP PIT: PERMANENT PIT: BGT: X

LEGAL ADD: UNIT: C SEC: 24 TWP: 30N RNG: 11W PM:

QTR/FOOTAGE: 1485W 915N CNTY: SJ ST: NM

EXCAVATION APPROX: 15 FT. X 15 FT. X 4 FT. DEEP CUBIC YARDAGE:

DISPOSAL FACILITY: N/A REMEDIATION METHOD: N/A

LAND OWNER: ~~Burlington~~ API: 3004529531 BGT / PIT VOLUME: 120 BBL

CONSTRUCTION MATERIAL: Steel DOUBLE-WALLED, WITH LEAK DETECTION: NO

LOCATION APPROXIMATELY: 52 FT. South FROM WELLHEAD

DEPTH TO GROUNDWATER: 100' SW→ 216' Rank 10 = 1000 TPH

___ TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP

BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 500 mg/kg

___ TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP

BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 1000 mg/kg

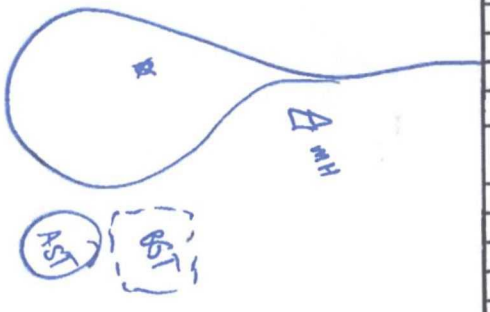
X PERMANENT PIT OR ~~BGT~~

BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg

FIELD 418.1 ANALYSIS

TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
13:08	200 STD		-	-	-	200	
13:14	BGT Sample	1	5	20	4	75	300
		2					
		3					
		4					
		5					
		6					

PERIMETER



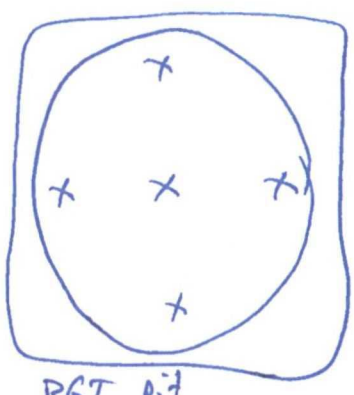
FIELD CHLORIDES RESULTS

SAMPLE ID	READING	CALC. (mg/kg)
1	0.8	< 33

PID RESULTS

SAMPLE ID	RESULTS (mg/kg)
1	0.0

PROFILE



LAB SAMPLES

SAMPLE ID	ANALYSIS	RESULTS
	BENZENE	
	BTEX	
	GRO & DRO	
	CHLORIDES	

NOTES: Collected 1 BGT Sample for 8015/8021/Cl-

WORKORDER # WHO ORDERED

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1542
Sample No.:	1	Date Reported:	12/23/2010
Sample ID:	BGT Sample	Date Sampled:	12/20/2010
Sample Matrix:	Soil	Date Analyzed:	12/20/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**300**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Lloyd Unit 2A (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Barian Williamson
Printed

Review

Greg Crabtree, PE
Printed

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 20-Dec-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	200
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Analyst

12/23/2010
Date

Barian Williamson
Print Name

Review

12/23/2010
Date

Greg Crabtree, PE
Print Name

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Field Chloride

Client:	ConocoPhillips	Project #:	92115-1542
Sample No.:	1	Date Reported:	12/23/2010
Sample ID:	BGT Sample	Date Sampled:	12/20/2010
Sample Matrix:	Soil	Date Analyzed:	12/20/2010
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**ND**	**33.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **Lloyd Unit 2A (hBr)**

Analyst

Barian Williamson
Printed

Review

Greg Crabtree, PE
Printed

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	92115-1542
Sample ID:	BGT Composite Sample	Date Reported:	12-21-10
Laboratory Number:	56863	Date Sampled:	12-20-10
Chain of Custody No:	10953	Date Received:	12-20-10
Sample Matrix:	Soil	Date Extracted:	12-20-10
Preservative:	Cool	Date Analyzed:	12-21-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**2.8**	**0.1**
Total Petroleum Hydrocarbons	**2.8**	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Lloyd #2A**

Analyst

Review

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EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-21-10 QA/QC	Date Reported:	12-21-10
Laboratory Number:	56863	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-21-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	12-21-10	9.9960E+002	1.0000E+003	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	12-21-10	9.9960E+002	1.0000E+003	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**2.8**	**2.6**	**7.1%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**257**	**103%**	**75 - 125%**
Diesel Range C10 - C28	**2.8**	**250**	**249**	**98.5%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 56863, 56874**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	92115-1542
Sample ID:	BGT Composite Sample	Date Reported:	12-21-10
Laboratory Number:	56863	Date Sampled:	12-20-10
Chain of Custody:	10953	Date Received:	12-20-10
Sample Matrix:	Soil	Date Analyzed:	12-21-10
Preservative:	Cool	Date Extracted:	12-21-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**110 %**
	1,4-difluorobenzene	**104 %**
	Bromochlorobenzene	**108 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Lloyd #2A**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	1221BBLK QA/QC	Date Reported:	12-21-10
Laboratory Number:	56863	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-21-10
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	3.7043E+006	3.7117E+006	0.2%	ND	0.1
Toluene	1.1242E+006	1.1264E+006	0.2%	ND	0.1
Ethylbenzene	8.6927E+005	8.7101E+005	0.2%	ND	0.1
p,m-Xylene	1.8714E+006	1.8751E+006	0.2%	ND	0.1
o-Xylene	7.0353E+005	7.0494E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	583	117%	39 - 150
Toluene	ND	500	579	116%	46 - 148
Ethylbenzene	ND	500	582	116%	32 - 160
p,m-Xylene	ND	1000	1,160	116%	46 - 148
o-Xylene	ND	500	584	117%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photolonization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 56863, 56824-56828, 56874**

Analyst

Review

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Chloride

Client:	ConocoPhillips	Project #:	92115-1542
Sample ID:	BGT Composite Sample	Date Reported:	12-21-10
Lab ID#:	56863	Date Sampled:	12-20-10
Sample Matrix:	Soil	Date Received:	12-20-10
Preservative:	Cool	Date Analyzed:	12-21-10
Condition:	Intact	Chain of Custody:	10953

Parameter	Concentration (mg/Kg)
Total Chloride	**50**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Lloyd #2A**

Analyst

Review

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"RUSH"

CHAIN OF CUSTODY RECORD

RUSH 10953

Client: COPC	Project Name / Location: Lloyd #2A
Client Address:	Sampler Name: BARIAN WILLIAMSON
Client Phone No.:	Client No.: 92115-1542

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	Preservative Cool	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
BGT Composite Sample	12/20/10	13:14	56863	(Soil) Solid Sludge Aqueous	1-4oz			X	X	X								X				Y	Y
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
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Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/20/10	14:35	Brandy Horne	12/20/10	1435
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

"RUSH"

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