

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 CONS. DIV DIST. 3

SEP 08 2015

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Burlington Resources Oil & Gas Company	Contact Lindsay Dumas
Address 3401 East 30 th St, Farmington, NM	Telephone No.(505) 258-1643
Facility Name: Huerfano 169	Facility Type: Gas

Surface Owner BLM	Mineral Owner SF-078135	API No. 3004530503
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LOCATION OF RELEASE								
Unit Letter D	Section 34	Township 27N	Range 07W	Feet from the 395'	North/South Line FNL	Feet from the 790'	East/West Line FWL	County San Juan

Latitude 36.60959 Longitude -107.60227

NATURE OF RELEASE

Type of Release Produced Fluids	Volume of Release Unknown	Volume Recovered Unknown
Source of Release Below Grade Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 4/9/2010
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.	

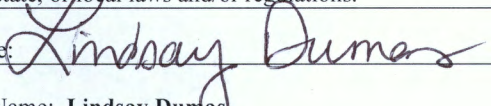
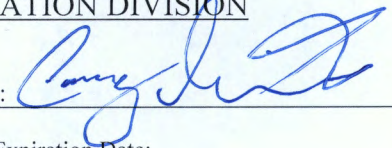
If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Below grade tank closure activities

Describe Area Affected and Cleanup Action Taken.*

The below grade tank sample results were below the regulatory limits of 0.2 ppm benzene, 50 ppm BTEX, and 100 ppm TPH; however the sample returned results above the regulatory limit of 250 ppm total chlorides, confirming a release. Chloride levels were 350 ppm. Analytical results for TPH, BTEX, and Chlorides were below the regulatory standards in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; therefore no further action is required. The final lab 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: 	OIL CONSERVATION DIVISION	
Printed Name: Lindsay Dumas	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 11/9/15	Expiration Date:
E-mail Address: Lindsay.Dumas@conocophillips.com	Conditions of Approval:	Attached ☐
Date: 9/4/2015	Phone: (505) 258-1643	

* Attach Additional Sheets If Necessary

#NCS 1531332164



May 27, 2010

Project No. 92115-1252

Ms. Kelsi Gurvitz
ConocoPhillips
3401 East 30th Street
Farmington, New Mexico 87401

Phone: (505) 599-3403

**RE: BELOW GRADE TANK CLOSURE DOCUMENTATION FOR HUERFANITO UNIT #169 (hBr),
SAN JUAN COUNTY, NEW MEXICO**

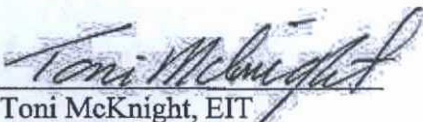
Dear Ms. Gurvitz,

Enclosed please find the field notes and analytical results for below-grade tank (BGT) closure activities performed at the Huerfanito Unit #169 (hBr) well site located in Section 34, Township 27N, Range 9W, San Juan County, New Mexico. One (1), five (5)-point composite sample was collected from directly beneath the below grade tank (BGT). The sample was analyzed in the field for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, for organic vapors using a Photo Ionization 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 laboratory to be analyzed for benzene and BTEX using USEPA Method 8021 and for total chlorides using USEPA Method 4500. The sample returned results below the regulatory limits of 0.2 ppm benzene, 50 ppm BTEX, and 100 ppm TPH; however, the sample returned results above the regulatory limit of 250 ppm total chlorides, confirming a release.

There is no regulatory limit for chlorides once a release is confirmed; therefore, 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.


Toni McKnight, EIT
Staff Engineer/Geologist
tmcknight@envirotech-inc.com

Enclosures: Field Notes
Analytical Results

Cc : Client File No. 92115

PAGE NO: <u>1</u> OF <u>1</u>	 envirotech (505) 832-0813 (800) 362-1872 5796 U.S. Hwy 64, Farmington, NM 87401	ENVIRONMENTAL SPECIALIST: <u>TZM</u>
DATE STARTED: <u>4/9/2010</u>	947-6271 -41604	LAT: <u>36° 31.6</u>
DATE FINISHED: <u>4/9/2010</u>		LONG: <u>107° 46.8</u>

FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: <u>Huerfano Unit</u>	WELL #: <u>69</u>	TEMP PIT: <u>PERMANENT PIT:</u>	BGT: <u>X</u>
LEGAL ADD: UNIT: <u>SEC: 39</u>	TWP: <u>27N</u>	RNG: <u>9W</u>	PM: <u>NM</u>
QTR/FOOTAGE: <u>670' FSC & 1585' FSL</u>		CNTY: <u>San Juan</u> ST: <u>New Mexico</u>	
EXCAVATION APPROX: <u>+</u> FT. X <u>-</u> FT. X <u>-</u> FT. DEEP	CUBIC YARDAGE: <u>-</u>		
DISPOSAL FACILITY: <u>-</u>	REMEDATION METHOD: <u>-</u>		
LAND OWNER: <u>-</u>	API: <u>30-045-30503</u> BGT/PIT VOLUME: <u>75 BC</u>		
CONSTRUCTION MATERIAL: <u>steel</u>	DOUBLE-WALLED, WITH LEAK DETECTION: <u>N/A</u>		
LOCATION APPROXIMATELY: <u>E 45</u> FT. <u>16°</u>	FROM WELLHEAD		
DEPTH TO GROUNDWATER: <u>~350'</u>			

- 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

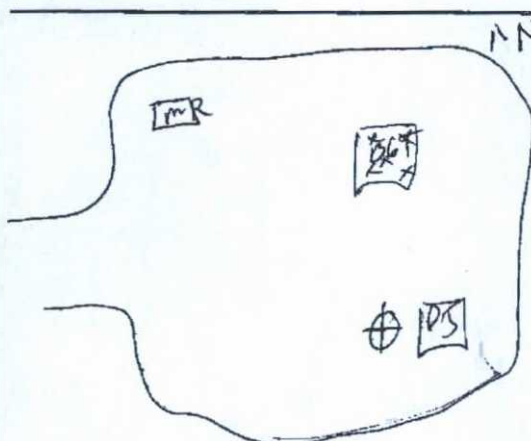
FIELD 418.1 ANALYSIS

TIME	SAMPLE ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
10:53	200 STD	-	-	-	-	200	200
11:00	SPT Core #	1	5	20	4	60	60
		2					
		3					
		4					
		5					
		6					

PERIMETER

FIELD CHLORIDES RESULTS

PROFILE



x = Samples

SAMPLE ID	READING	CALC. (mg/kg)
1	60.6	644

PID RESULTS

SAMPLE ID	RESULTS (ppm)
1	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	RESULTS
	BENZENE	
	BTEX	
	GRO & DRO	
	CHLORIDES	

NOTES:

WORKORDER #

WHO ORDERED

11:30 AM
Done 6/12/30



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: Burlington
Sample No.: 1
Sample ID: 5-Point Composite
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-1252
Date Reported: 4/27/2010
Date Sampled: 4/9/2010
Date Analyzed: 4/9/2010
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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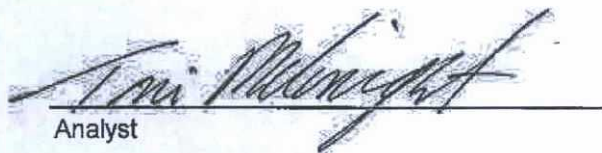
Total Petroleum Hydrocarbons	ND	5.0
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ND = Parameter not detected at the stated detection limit.

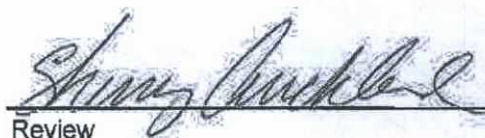
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Huerfanito Unit #169**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight
Printed


Review

Sherry Auckland
Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 9-Apr-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.

Toni McKnight
Analyst

4/27/10
Date

Toni McKnight

Print Name

Sherry Auckland
Review

5/6/10
Date

Sherry Auckland

Print Name



Field Chloride

Client:	Burlington	Project #:	92115-1252
Sample No.:	1	Date Reported:	4/27/2010
Sample ID:	5-Point Composite	Date Sampled:	4/9/2010
Sample Matrix:	Soil	Date Analyzed:	4/9/2010
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	644	27.0

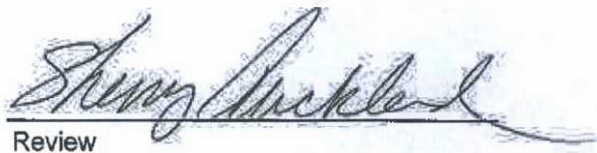
ND = Parameter not detected at the stated detection limit.

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

Comments: **Huerfanito Unit #169**


Analyst

Toni McKnight
Printed


Review

Sherry Auckland
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**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	Burlington	Project #:	92115-1252
Sample ID:	5PT Composite	Date Reported:	04-13-10
Laboratory Number:	53638	Date Sampled:	04-09-10
Chain of Custody:	9028	Date Received:	04-09-10
Sample Matrix:	Soil	Date Analyzed:	04-12-10
Preservative:	Cool	Date Extracted:	04-09-10
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	4.4	1.0
Ethylbenzene	3.1	1.0
p,m-Xylene	16.7	1.2
o-Xylene	8.8	0.9
Total BTEX	33.0	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95.4 %
	1,4-difluorobenzene	93.1 %
	Bromochlorobenzene	110 %

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: BGT Closure / Huerfanito Unit #169

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-12-BT QA/QC	Date Reported:	04-13-10
Laboratory Number:	53589	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-12-10
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	L-Cal RF:	C-Cal RF:	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	4.7162E+005	4.7256E+005	0.2%	ND	0.1
Toluene	4.3718E+005	4.3805E+005	0.2%	ND	0.1
Ethylbenzene	4.0961E+005	4.1043E+005	0.2%	ND	0.1
p,m-Xylene	9.6410E+005	9.6603E+005	0.2%	ND	0.1
o-Xylene	3.8183E+005	3.8259E+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	50.0	51.2	102%	39 - 150
Toluene	ND	50.0	52.3	105%	46 - 148
Ethylbenzene	ND	50.0	52.7	105%	32 - 160
p,m-Xylene	ND	100	105	105%	46 - 148
o-Xylene	ND	50.0	53.2	106%	46 - 148

ND - Parameter not detected at the stated detection limit.

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 Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 53589, 53599 - 53601, 53603 - 53605, 53638 and 53643 - 53644.

Analyst

Review



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Chloride

Client:	Burlington	Project #:	92115-1252
Sample ID:	5pt Composite	Date Reported:	04-13-10
Lab ID#:	53638	Date Sampled:	04-09-10
Sample Matrix:	Soil	Date Received:	04-09-10
Preservative:	Cool	Date Analyzed:	04-12-10
Condition:	Intact	Chain of Custody:	9028

Parameter	Concentration (mg/Kg)
Total Chloride	350

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: **BGT Closure / Huerfanito Unit #169**

Analyst

Review

CHAIN OF CUSTODY RECORD

09028

Client: <u>Burrington</u> <u>Huertato</u> <u>HTM</u>			Project Name / Location: <u>Huertato</u> <u>BGT closure/unit #169</u>			ANALYSIS / PARAMETERS																																									
Client Address:			Sampler Name: <u>Toni McKnight</u>			<table border="1"> <tr> <td>TPH (Method 8015)</td> <td>BTEX (Method 8021)</td> <td>VOC (Method 8260)</td> <td>RCRA 8 Metals</td> <td>Cation / Anion</td> <td>RCI</td> <td>TCLP with H/P</td> <td>PAH</td> <td>TPH (418.1)</td> <td>CHLORIDE</td> <td></td> <td></td> <td></td> <td>Sample Cool</td> <td>Sample Intact</td> </tr> <tr> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td>y</td> <td>y</td> </tr> </table>												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	✓	✓								✓				y	y
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																					
✓	✓								✓				y	y																																	
Client Phone No.:			Client No.: <u>92115-1252</u>																																												
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative H ₂ O ₂ HCl Cu									Sample Cool	Sample Intact																															
<u>Spt Composite</u>	<u>4/9/10</u>	<u>11:00</u>	<u>53638</u>	<u>Soil Solid</u>	<u>1/4oz</u>		✓	✓																																							
				Soil Solid	Sludge Aqueous																																										
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Relinquished by: (Signature) <u>Toni McKnight</u>						Date	Time	Received by: (Signature) <u>Brandon Fute</u>						Date	Time																																
						<u>4/9/10</u>	<u>12:30</u>							<u>04/09/10</u>	<u>12:30</u>																																
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Rush Please!!  **envirotech**
Analytical Laboratory

5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com