

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

SEP 02 2015

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: Schumacher 9	Facility Type: Gas Well
Surface Owner Federal	Mineral Owner Federal (SF-077764)
API No. 30-045-09438	

LOCATION OF RELEASE

Unit Letter N	Section 17	Township 30N	Range 10W	Feet from the 890	North/South Line South	Feet from the 1650	East/West Line West	County San Juan
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Latitude 36.80707 Longitude -107.91007

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 May 19, 2010
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.*
N/A


Describe Cause of Problem and Remedial Action Taken.*

Below-Grade Tank Closure activities 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: 	OIL CONSERVATION DIVISION	
Printed Name: Crystal Tafoya	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 9/4/15	Expiration Date:
E-mail Address: crystal.walker@conocophillips.com	Conditions of Approval: <input type="checkbox"/> Attached <input type="checkbox"/>	
Date: 8/31/2015 Phone: (505) 326-9837		

* Attach Additional Sheets If Necessary

#NCS 1524750103



June 10, 2010

Project No. 92115-1291

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

Phone: (505) 599-3403

**RE: BELOW GRADE TANK CLOSURE DOCUMENTATION FOR SCHUMACHER #9 (hBr) WELL SITE,
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 Schumacher #9 (hBr) well site located in Section 17, Township 30N, Range 10W, San Juan County, New Mexico. One (1) five (5)-point composite sample was collected from directly beneath the 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. The sample returned results below the regulatory limits of 250 ppm chlorides; however, the sample returned results above the regulatory limit of 100 ppm TPH, confirming a release. 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 total chlorides using USEPA Method 4500B, and for benzene and BTEX using USEPA Method 8021. The sample returned results below the regulatory limits of 250 ppm total chlorides, 0.2 ppm benzene and 50 ppm BTEX.

A brief site assessment was conducted and the closure standards were determined to be 1,000 ppm TPH and 100 ppm organic vapors due to the distance to surface water being between 200 and 1000 feet, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Spills, Leaks, and Releases. Because the sample was below the regulatory closure standards of 1,000 ppm TPH and 100 ppm organic vapors, no excavation was required. 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.

Sarah Rowland, EIT
Staff Scientist
srowland@envirotech-inc.com

Enclosures: Field Notes
Analytical Results

Cc: Client File No. 92115

**envirotech**

(505) 632-0615 (800) 362-1879

5786 U.S. Hwy 64, Farmington, NH 07401

ENVIRONMENTAL SPECIALIST:

S. Rowland

LAT: 36.807089

LONG: -107.910588

DATE STARTED: 5/19/10

DATE FINISHED: 5/19/10

FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION:	NAME: Schumacher 9	WELL #:	TEMP PIT:	PERMANENT PIT:	BGT:
LEGAL ADD:	UNIT: N	SEC: 17	TWP: 30N	RNG: 10W	PM: N1/4PM
DEPTH/FOOTAGE:	890 FTS	1650 FTW	CNTY: SJ	ST: NM	

EXCAVATION APPROX: 21 FT. X 20 FT. X 2 FT. DEEP CUBIC YARDAGE: 31

DISPOSAL FACILITY: 21a REMEDIATION METHOD:

AND OWNER: _____ API: _____ BGT / PIT VOLUME: _____

CONSTRUCTION MATERIAL: DOUBLE-WALLED, WITH LEAK DETECTION:

LOCATION APPROXIMATELY:	FT.	FROM WELLHEAD
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DEPTH TO GROUNDWATER: 220'

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

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

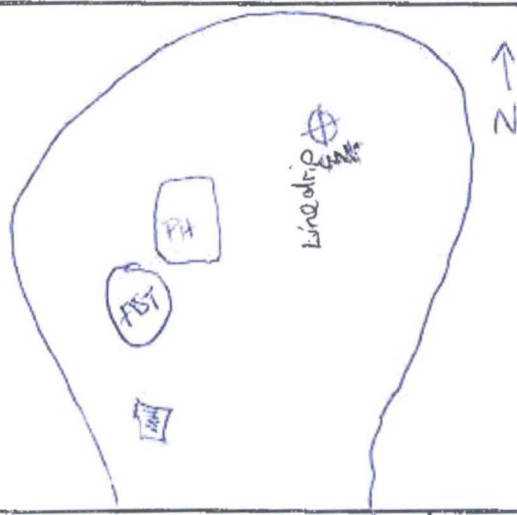
TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
11:18	200 STD		-	-	-	204	204
11:22	1	1	5	20		54	216
		2					
		3					
		4					
		5					
		6					

Pageath BGT

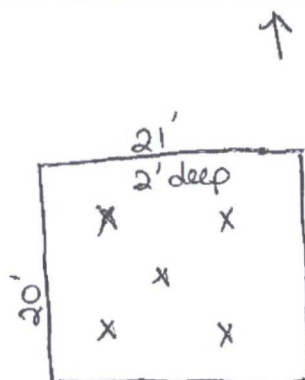
PERIMETER

FIELD CHLORIDES RESULTS

PROFILE



SAMPLE ID	READING	CALC. (mg/kg)
1	3.8	1160
PID RESULTS		
SAMPLE ID	RESULTS (ppm)	
109 Std	1.9	
	104	



5 pt. composite sample

LAB SAMPLES

SAMPLE ID	ANALYSIS	RESULTS
	BENZENE	
	BTEX	
	GRO & DRO	
	CHLORIDES	

NOTES:

2' x 2' x 2' deep

No visible wellhead
No excavation required

WORKORDER #

WHO ORDERED

Burlington
Resources

**envirotech**

(805) 632-0615 (800) 362-1879
5796 U.S. Hwy 64, Farmington, NM 87401

Location No:

92115-1291

C.O.C. No:

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1

DATE STARTED: 5/19/10

DATE FINISHED: 5/19/10

ENVIRONMENTAL

SPECIALIST: S. Rowland

LOCATION: NAME: Schomacher 9 WELL #:

UAD/UNIT: N SEC: 17 TWP: 30N RNG: 10W PM: NMPM CNTY: SJ ST: NM

TR/FOOTAGE: 890 FTS 1650FTW CONTRACTOR: Kelley

EXCAVATION APPROX: 21 FT. X 20 FT. X 2 FT. DEEP CUBIC YARDAGE: 31

ISPOSAL FACILITY: n/a

REMEDIATION METHOD:

AND USE:

LEASE:

LAND OWNER:

CAUSE OF RELEASE: BGT

MATERIAL RELEASED: Produced water & condensate

PILL LOCATED APPROXIMATELY:

ET.

FROM

DEPTH TO GROUNDWATER: 220' NEAREST WATER SOURCE:

NEAREST SURFACE WATER: 470'

MOCD RANKING SCORE: 10000

NMOCD TPH CLOSURE STD: 1500

PPM

OIL AND EXCAVATION DESCRIPTION:

~~H₀ Meter house sample~~

No visible well head

Release resulting from BGT not closing

No excavation required

[illegible]

SPILL PERIMETER

see BGT sheet

OVM RESULTS

[illegible]

SPILL PROFILE

see BGT sheet

RAVEL NOTES: _____ CALLED OUT: _____ ONSITE: _____



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

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

Project #: 92115-1291
Date Reported: 5/25/2010
Date Sampled: 5/19/2010
Date Analyzed: 5/19/2010
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	216	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: **Schumacker #9**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Sarah Rowland

Printed

Review

Robyn Jones

Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 19-May-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
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TPH	100	
	200	204
	500	
	1000	

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

Sarah Rowland

Analyst

5/25/10

Date

Sarah Rowland

Print Name

Robyn Jones

Review

5/25/10

Date

Robyn Jones

Print Name



Field Chloride

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

Project #: 92115-1291
Date Reported: 5/25/2010
Date Sampled: 5/19/2010
Date Analyzed: 5/19/2010
Analysis Needed: Chloride

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	160	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

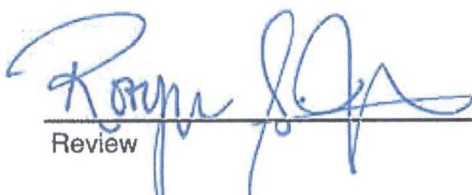
Comments: **Schumacher #9**



Analyst

Sarah Rowland

Printed



Review
Robyn Jones

Printed



envirotech

Analytical Laboratory

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	92115-1291
Sample ID:	Directly Beneath BGT	Date Reported:	05-21-10
Laboratory Number:	54303	Date Sampled:	05-19-10
Chain of Custody:	9400	Date Received:	05-19-10
Sample Matrix:	Soil	Date Analyzed:	05-20-10
Preservative:	Cool	Date Extracted:	05-19-10
Condition:	Intact	Analysis Requested:	BTEX

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	99.1 %
	1,4-difluorobenzene	105.1 %
	Bromochlorobenzene	102.0 %

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: Schumacher #9 (hBr)

Analyst

Review



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Analytical Laboratory

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0520BBLK QA/QC	Date Reported:	05-21-10
Laboratory Number:	54289	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-20-10
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect.
		Accept. Range 0 - 15%		Conc:	Limit
Benzene	2.0527E+006	2.0568E+006	0.2%	ND	0.1
Toluene	1.4129E+006	1.4157E+006	0.2%	ND	0.1
Ethylbenzene	1.0477E+006	1.0498E+006	0.2%	ND	0.1
p,m-Xylene	1.2790E+005	1.2815E+005	0.2%	ND	0.1
o-Xylene	3.8315E+005	3.8392E+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	69.3	139%	39 - 150
Toluene	ND	50.0	66.7	133%	46 - 148
Ethylbenzene	ND	50.0	58.9	118%	32 - 160
p,m-Xylene	ND	100	114	114%	46 - 148
o-Xylene	ND	50.0	54.3	109%	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 54253, 54254, 54289, 54290, 54303, 54308.

Analyst

Review



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Analytical Laboratory


Chloride

Client:	ConocoPhillips	Project #:	92115-1291
Sample ID:	Directly Beneath BGT	Date Reported:	05-24-10
Lab ID#:	54303	Date Sampled:	05-19-10
Sample Matrix:	Soil	Date Received:	05-19-10
Preservative:	Cool	Date Analyzed:	05-21-10
Condition:	Intact	Chain of Custody:	9400

Parameter	Concentration (mg/Kg)
Total Chloride	95

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: **Schumacher #9 (hBr)**



Analyst



Review

CHAIN OF CUSTODY RECORD

09400

Client: ConocoPhillips Burlington			Project Name / Location: Schumacher #9 (Ch Br)			ANALYSIS / PARAMETERS															
Client Address:			Sampler Name: R. Jones / S. Rowland			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
Client Phone No.:			Client No.: 9215-1291																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative															
						H ₂ O ₂	HCl	Ca													
Directly Beneath Bat	5/19/10	11:00	54303	Soil Solid	1-4oz			X		X										X	X
				Soil Solid	Sludge Aqueous																
				Soil Solid	Sludge Aqueous																
				Soil Solid	Sludge Aqueous																
				Soil Solid	Sludge Aqueous																
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