

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

19

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

30-039-22122

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact Shelly Cook-Cowden
Address 3401 E. 30th St., Farmington, NM 87402	Telephone No 505-324-5140
Facility Name San Juan 27-4 Unit #120	Facility Type Gas Well API#3003922122

Surface Owner: Forest	Mineral Owner: Federal	Lease No. NMSF - 080675
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LOCATION OF RELEASE

Unit Letter K	Section 34	Township 027N	Range 004W	Feet from the 1560'	North/South Line South	Feet from the 1595'	East/West Line West	County Rio Arriba
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Latitude **36.5272 ° N** Longitude **-107.242333 ° W**

NATURE OF RELEASE

Type of Release - Unknown	Volume of Release - Unknown	Volume Recovered
Source of Release - Below Grade Tank	Date and Hour of Occurrence - Unknown	Date and Hour of Discovery - August 19, 2011
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 above regulatory standard by USEPA method 418.1 for TPH and Organic Vapors, confirming a release. The sample was then transported to the lab and analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required.**

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: <i>Shelly Cook-Cowden</i>		OIL CONSERVATION DIVISION	
Printed Name Shelly Cook-Cowden		Approved by District Supervisor <i>[Signature]</i>	
Title Field Environmental Specialist		Approval Date 10/26/11	Expiration Date
E-mail Address Shelly g Cook-Cowden@ConocoPhillips.com		Conditions of Approval	Attached ☐
Date October 21, 2011 Phone 505-324-5140			

* Attach Additional Sheets If Necessary

nJK1129954935



October 13, 2011

Project Number 92115-1914

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 SAN JUAN 27-4 #120 (hBR) WELL SITE, RIO ARriba COUNTY, NEW MEXICO

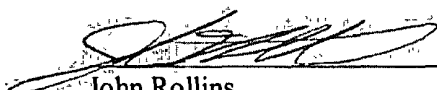
Dear Ms. Harrington,

Enclosed please find the field notes and analytical results for below-grade tank (BGT) closure activities performed at the San Juan 27-4 #120 (hBr) well site located in Section 34, Township 27 North, Range 4 West, Rio Arriba County, New Mexico. Prior to Envirotech's arrival on August 19, 2011, the BGT had been removed. 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 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 1000 ppm organic vapors due to horizontal distance to surface water between 200 and 1,000 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 standards for TPH using USEPA Method 418.1; 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.


John Rollins
Environmental Technician
jrollins@envirotech-inc.com



Enclosures: Analytical Results
Field Notes

Cc: Client File 92115

PAGE NO: 1 OF 1**envirotech**

5796 U.S. Hwy 84, Farmington, NM 87401

PHONE: (505) 632-0615

ENVIRONMENTAL SPECIALIST:

SRDATE STARTED: 8/12/11DATE FINISHED: 8/17/11LAT: 36.52683817LONG: 107.2420966**FIELD REPORT: BGT / PIT CLOSURE VERIFICATION**

LOCATION: NAME: SS 27-9 WELL #: 120 TEMP PIT: PERMANENT PIT BGT: X
LEGAL ADD: UNIT: K SEC: 39 TWP: 27N RNG: 4W PM: 11M
QTR/FOOTAGE: 1560 FSL + 1595 FVL CNTY: Rio Arriba ST: NM

EXCAVATION APPROX: FT. X FT. X FT. DEEP CUBIC YARDAGE: ✓DISPOSAL FACILITY: ✓ REMEDIATION METHOD: ✓LAND OWNER: ✓ API: ✓ BGT / PIT VOLUME: ✓CONSTRUCTION MATERIAL: Steel DOUBLE-WALLED, WITH LEAK DETECTION: Steel / SingleLOCATION APPROXIMATELY: 91' N FT. 2400 FROM WELLHEADDEPTH TO GROUNDWATER: >100**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

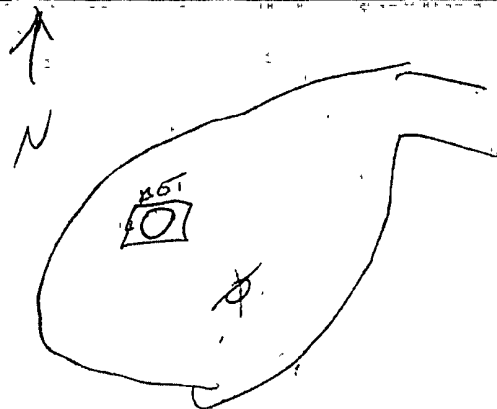
BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 1000 mg/kg

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

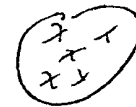
TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
10:05	200 STD	—	—	—	—	0.16	—
12:15	BGT	1	5	20	4	37	148
		2					
		3					
		4					
		5					
		6					

PERIMETER**FIELD CHLORIDES RESULTS****PROFILE**

SAMPLE ID	READING	CALC. (mg/kg)
BGT	ND	ND

PID RESULTS

SAMPLE ID	RESULTS (mg/kg)
BGT	ND



X = sample point

LAB SAMPLES**NOTES:**

SAMPLE ID	ANALYSIS	RESULTS
	BENZENE	
	BTEX	
	GRO & DRO	
	CHLORIDES	

WORKORDER #

WHO ORDERED

Conoco



(505) 632-0615 (800) 362-1879
5796 U.S. Hwy 64, Farmington, NM 87401

92115-1914

COC N°:

PAGE NO: 1 OF 1

DATE STARTED: 8/12/11

DATE FINISHED: 8/19/71

ENVIRONMENTAL

DISPOSAL FACILITY:	REMEDIATION METHOD:

LAND USE: _____ **LEASE #:** _____ **LAND OWNER**

CAUSE OF RELEASE: *BET Release* MATERIAL RELEASED: *BET Release*

SPIU LOCATED APPROXIMATELY: 31° $44'$ $44''$ N 10° $00'$ $00''$ E FROM: 36° $11'$ $10''$ N 10° $00'$ $00''$ E

DEPTH TO GROUNDWATER: 2.5' NEAREST WATER SOURCE: 3.5' NEAREST SURFACE WATER: 1.5'

NMOC BANKING SCORE: 16 NMOC DBH CLOSURE STD: 100 RBM

SOIL AND EXCAVATION DESCRIPTION:

$$CL = ND$$
[illegible]

SPILL PERIMETER

OVM RESULTS

'SPILL PROFILE

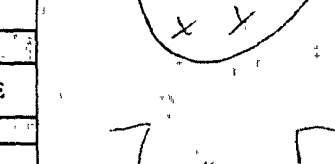


SAMPLE ID	FIELD HEADSPACE PID (ppm)
136T	ND





LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME



X = smoke point

TRAVEL NOTES: CALLED OUT:

ONSITE:



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 19-Aug-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	216
	200	
	500	
	1000	

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


Analyst

John Rollins

Print Name


Review

Toni Mcknight, EIT

Print Name

9/12/2011

Date

9/12/2011

Date



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 1
Sample ID: BGT
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-1914
Date Reported: 9/12/2011
Date Sampled: 8/19/2011
Date Analyzed: 8/19/2011
Analysis Needed: TPH-418.1

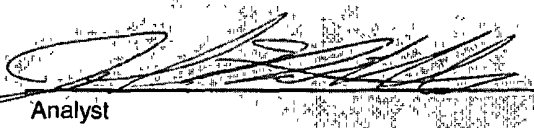
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	148	5.0

ND = Parameter not detected at the stated detection limit.

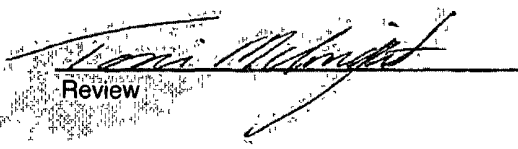
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: San Juan 27-4 #120

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

John Rollins
Printed


Review

Toni Mcknight, EIT
Printed



envirotech
Analytical Laboratory

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	ConocoPhillips	Project #:	92115-1907
Sample ID:	BGT	Date Reported:	08-22-11
Laboratory Number:	59342	Date Sampled:	08-19-11
Chain of Custody:	12396	Date Received:	08-19-11
Sample Matrix:	Soil	Date Analyzed:	08-22-11
Preservative:	Cool	Date Extracted:	08-20-11
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	6.8	1.2
o-Xylene	1.4	0.9
Total BTEX	8.2	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	89.7 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	81.6 %

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: San Juan 27-4 #120

Analyst

Review

Client: N/A
Sample ID: 0822BBLK QA/QC
Laboratory Number: 59342
Sample Matrix: Soil
Preservative: N/A
Condition: N/A

Project #: N/A
Date Reported: 08-22-11
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 08-22-11
Analysis: BTEX
Dilution: 10

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	2.0549E+006	2.0591E+006	0.2%	ND	0.1
Toluene	2.8377E+006	2.8434E+006	0.2%	ND	0.1
Ethylbenzene	2.8315E+006	2.9374E+006	0.2%	ND	0.1
p,m-Xylene	7.9261E+006	7.9419E+006	0.2%	ND	0.1
o-Xylene	2.8558E+006	2.8615E+006	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	6.8	6.7	1.5%	0 - 30%	1.2
o-Xylene	1.4	1.2	14.3%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	449	89.9%	39 - 150
Toluene	ND	500	486	97.1%	46 - 148
Ethylbenzene	ND	500	496	99.2%	32 - 160
p,m-Xylene	6.8	1000	1,000	99.3%	46 - 148
o-Xylene	1.4	500	492	98.0%	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 Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: 59311-59317, 59342

Analyst

Review



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Analytical Laboratory

Chloride

Client:	ConocoPhillips	Project #:	92115-1907
Sample ID:	BGT	Date Reported:	08/22/11
Lab ID#:	59342	Date Sampled:	08/19/11
Sample Matrix:	Soil	Date Received:	08/19/11
Preservative:	Cool	Date Analyzed:	08/22/11
Condition:	Intact	Chain of Custody:	12396

Parameter

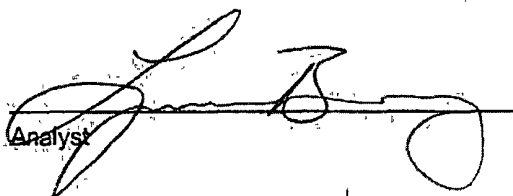
Concentration (mg/Kg)

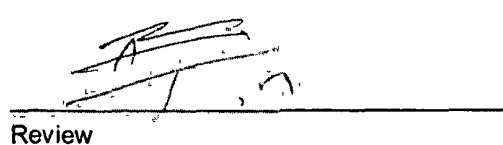
Total Chloride

60

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: **San Juan 27-4 #120**

Analyst 

Review 

RUSH

CHAIN OF CUSTODY RECORD

12396

Client: <u>Conoco</u>			Project Name / Location: <u>San Juan 27-4 #120</u>				ANALYSIS / PARAMETERS																	
Client Address:			Sampler Name: <u>John R</u>																					
Client Phone No.:			Client No.: <u>92115-1907</u>																					
Sample No. / Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No. / Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact
<u>BGT</u>	<u>8/19/11</u>	<u>10:30</u>	<u>59342</u>	<u>Soil</u> Solid	<u>Sludge</u> Aqueous	<u>1</u>			<u>✓</u>		<u>✓</u>							<u>✓</u>					<u>✓</u>	<u>✓</u>
				Soil Solid	Sludge Aqueous																			
				Soil Solid	Sludge Aqueous																			
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RUSH



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Analytical Laboratory

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