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 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

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 **Huerfanito Unit #42**	Facility Type **Gas Well API# 3004506251**

Surface Owner **Federal**	Mineral Owner **Federal**	Lease No. **NMSF – 078356 - B**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	**27**	**027N**	**009W**	**1845'**	**North**	**945'**	**West**	**San Juan County**

Latitude 36.5484 ° N **Longitude 107.78109 ° W**

NATURE OF RELEASE

Type of Release -	Volume of Release -	Volume Recovered -
Source of Release -	Date and Hour of Occurrence -	Date and Hour of Discovery -
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.*

RECEIVED
MAR 2011
OIL CONS. DIV. DIST 3

Describe Cause of Problem and Remedial Action Taken.*
Below Grade Tank Closure Activities.

Describe Area Affected and Cleanup Action Taken.*
Since the sample results were below the regulatory standards set forth in the NMOCD Guidelines foe Remediation of Leaks, Spills and Releases 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: Shelly Cook-Cowden	OIL CONSERVATION DIVISION	
Printed Name: **Shelly Cook-Cowden**	Approved by District Supervisor: Brad Fell	
Title: **Environmental Technician**	Approval Date: 3/11/11	Expiration Date:
E-mail Address: **Shelly.g.Cook-Cowden@ConocoPhillips.com**	Conditions of Approval: nJK1122141448	Attached ☐
Date: **March 7, 2011** Phone: **505-324-5140**		

* Attach Additional Sheets If Necessary

10

envirotech

March 7, 2011 Project Number 92115-1609

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

RE: BELOW GRADE TANK CLOSURE DOCUMENTATION FOR THE HUERFANITO #42 (HBR) WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Harrington:

Attached please find the field notes and analytical results for below grade tank (BGT) closure activities conducted at the Huerfanito #42 (hBr) well site located in Section 27, Township 27 North, Range 9 West, San Juan County, New Mexico. Upon Envirotech personnel's arrival on February 21, 2011, one (1) five (5)-point composite sample was collected from beneath the BGT; see attached ***Field Notes***. 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 all constituents analyzed, confirming a release did not occur; 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.

Rene García Reyes
Senior Environmental Field Technician
rgarcia@envirotech-inc.com

Enclosures: Field Notes
Analytical Results

Cc: Client File 92115

PAGE NO: 1 OF 1	**ENVIROTECH INC** ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 - 3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	ENVIRONMENTAL SPECIALIST: Tow
DATE STARTED: 2/21/2011		LAT: 36° 32.8
DATE FINISHED: 2/21/2011		LONG: 107° 46.9

FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: Huerfanito WELL #: 42 TEMP PIT: PERMANENT PIT: BGT: ✓
LEGAL ADD: UNIT: SEC: 27 TWP: 27N RNG: 9W PM: NM-PM
QTR/FOOTAGE: 1845' N. & 945' W CNTY: San Juan ST: New Mexico

EXCAVATION APPROX: 20 FT. X 20 FT. X 4 FT. DEEP CUBIC YARDAGE:
DISPOSAL FACILITY: N/A REMEDIATION METHOD: N/A
LAND OWNER: Fed API: 30-045-06 BGT / PIT VOLUME: 120 bbl
CONSTRUCTION MATERIAL: DOUBLE-WALLED, WITH LEAK DETECTION:

LOCATION APPROXIMATELY: 30 FT. West FROM WELLHEAD
DEPTH TO GROUNDWATER:

___ 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

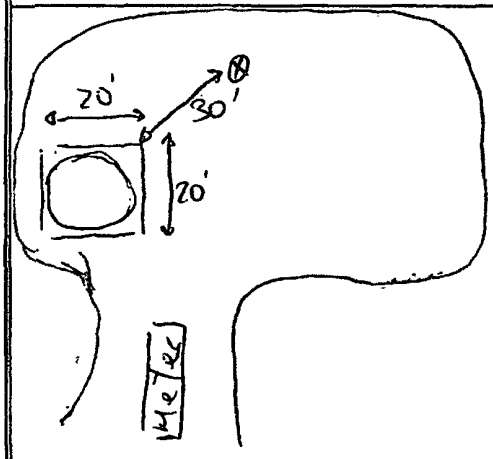
___ TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP
BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 1000 mg/kg

✓ 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)
4:00	200 STD		-	-	-	200	
4:15	Beneath BGT	1	5	20	x4	03	12
		2					
		3					
		4					
		5					
		6					

PERIMETER



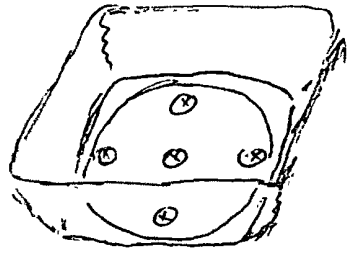
FIELD CHLORIDES RESULTS

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

PID RESULTS

SAMPLE ID	RESULTS (mg/kg)
Beneath BGT	ND

PROFILE



8 sampled points

LAB SAMPLES

SAMPLE ID	ANALYSIS	RESULTS
	BENZENE	
	BTEX	
	GRO & DRO	
	CHLORIDES	

NOTES: Used GAC & OVM.

WORKORDER # WHO ORDERED

CHAIN OF CUSTODY RECORD

Rush 11174

Client: COPC	Project Name / Location: Huerfanito #42 / BGT Closure
Client Address:	Sampler Name: René García Reyes
Client Phone No.:	Client No.: 92115-1609

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl2	Preservative HCl	Preservative Ice	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
Beneath BGT	14:15	2/21/11	57273	Soil (circled) Sludge Solid Aqueous	4oz			X		X								X				X	X
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	2/21/11	15:55	[signature]	2/21/11	15:54

RUSH

envirotech
Analytical Laboratory

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

ACCENT Printing • Form 28-0807

envirotech

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 21-Feb-11

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

2/24/2011
Date

Rene Garcia Reyes
Print Name

Review

2/24/2011
Date

Robyn Jones, EIT
Print Name

5796 US Highway 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1609
Sample No.:	1	Date Reported:	2/24/2011
Sample ID:	Beneath BGT	Date Sampled:	2/21/2011
Sample Matrix:	Soil	Date Analyzed:	2/21/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**12**	**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: **Huerfanito #42 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Rene Garcia Reyes
Printed

Review

Robyn Jones, EIT
Printed

5796 US Highway 64, Farmington, NM 87401 | Ph (505)632-0615 Fr (800)362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

envirotech

Field Chloride

Client:	ConocoPhillips	Project #:	92115-1609
Sample No.:	1	Date Reported:	2/24/2011
Sample ID:	Beneath BGT	Date Sampled:	2/21/2011
Sample Matrix:	Soil	Date Analyzed:	2/21/2011
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**ND**	**28.0**

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 #42 (hBr)**

Analyst

Rene Garcia Reyes
Printed

Review

Robyn Jones, EIT
Printed

5796 US Highway 64, Farmington, NM 87401 | Ph (505)632-0615 Fr (800)362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	92115-1609
Sample ID:	Beneath BGT	Date Reported:	02-22-11
Laboratory Number:	57273	Date Sampled:	02-21-11
Chain of Custody:	11174	Date Received:	02-21-11
Sample Matrix:	Soil	Date Analyzed:	02-22-11
Preservative:	Cool	Date Extracted:	02-21-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**19.2**	**1.0**
Ethylbenzene	**2.4**	**1.0**
p,m-Xylene	**61.7**	**1.2**
o-Xylene	**10.1**	**0.9**
Total BTEX	**93.4**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96.5 %**
	1,4-difluorobenzene	**85.2 %**
	Bromochlorobenzene	**105 %**

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: **Huerfanito #42/BGT Closure**

Analyst

Review

5796 US Highway 64, Farmington, NM 87401 | Ph (505)632-0615 Fr (800)362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0222BBLK QA/QC	Date Reported:	02-22-11
Laboratory Number:	57278	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-22-11
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	1.3874E+005	1.3902E+005	0.2%	ND	0.1
Toluene	1.4508E+005	1.4537E+005	0.2%	ND	0.1
Ethylbenzene	1.2774E+005	1.2799E+005	0.2%	ND	0.1
p,m-Xylene	2.9449E+005	2.9509E+005	0.2%	ND	0.1
o-Xylene	1.2153E+005	1.2178E+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	517	103%	39 - 150
Toluene	ND	500	492	98.5%	46 - 148
Ethylbenzene	ND	500	509	102%	32 - 160
p,m-Xylene	ND	1000	1,060	106%	46 - 148
o-Xylene	ND	500	483	96.6%	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: QA/QC for Samples 57267-57269, 57273, 57278

Analyst

Review

5796 US Highway 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

envirotech
Analytical Laboratory

Chloride

Client:	ConocoPhillips	Project #:	92115-1609
Sample ID:	Beneath BGT	Date Reported:	02/22/11
Lab ID#:	57273	Date Sampled:	02/21/11
Sample Matrix:	Soil	Date Received:	02/21/11
Preservative:	Cool	Date Analyzed:	02/22/11
Condition:	Intact	Chain of Custody:	11174

Parameter	Concentration (mg/Kg)
Total Chloride	**10**

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: **Huerfanito #42/BGT Closure**

Analyst

Review

5796 US Highway 64, Farmington, NM 87401 | Ph (505)632-0615 Fr (800)362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com