

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 <b>Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company</b>	Contact <b>Shelly Cook-Cowden</b>	
Address <b>3401 E. 30<sup>th</sup> St., Farmington, NM 87402</b>	Telephone No. <b>505-324-5140</b>	
Facility Name <b>Huerfano Unit #182</b>	Facility Type <b>Gas Well API# 3004520309</b>	
Surface Owner <b>Federal</b>	Mineral Owner <b>Federal</b>	Lease No. <b>NMSF-078060A</b>

**LOCATION OF RELEASE**

Unit Letter <b>D</b>	Section <b>28</b>	Township <b>026N</b>	Range <b>009W</b>	Feet from the <b>990'</b>	North/South Line <b>North</b>	Feet from the <b>890'</b>	East/West Line <b>West</b>	County <b>San Juan County</b>
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Latitude **36.46365 ° N** Longitude **107.79941 ° W**

**NATURE OF RELEASE**

Type of Release - <b>Produced Water</b>	Volume of Release - <b>Unknown</b>	Volume Recovered -
Source of Release - <b>Below Grade Tank</b>	Date and Hour of Occurrence - <b>Unknown</b>	Date and Hour of Discovery - <b>1/17/11</b>
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 *		
<b>OIL CONS. DIV. DIST. 3</b>		
Describe Cause of Problem and Remedial Action Taken *		
<b>Below Grade Tank Closure Activities.</b>		
Describe Area Affected and Cleanup Action Taken *		
<b>The below grade tank sample results were above the regulatory standard for TPH, confirming a release. A site assessment was then conducted and the closure standard was determined to be 100 ppm TPH. Since the sample results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases no further action is required.</b>		
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		
<b>OIL CONSERVATION DIVISION</b>		
Signature: <i>Shelly Cook-Cowden</i>	Approved by District Supervisor: <i>Bob Rijk</i>	
Printed Name: <b>Shelly Cook-Cowden</b>	Approval Date <b>3-3-11</b> Expiration Date	
Title: <b>Environmental Technician</b>	Conditions of Approval	
E-mail Address <b>Shelly.g.Cook-Cowden@ConocoPhillips.com</b>	Attached <input type="checkbox"/>	
Date: <b>March 1, 2011</b>	Phone: <b>505-324-5140</b>	
<b>nJK1122153143</b>		



February 3, 2011

Project Number 92115-1559

Ms. Kelsi Harrington  
ConocoPhillips  
3401 East 30<sup>th</sup> Street  
Farmington, New Mexico 87401

Phone: (505) 599-3403

**RE: BELOW GRADE TANK CLOSURE DOCUMENTATION FOR THE HUERFANO #182 (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 Huerfano #182 (hBr) well site located in Section 28, Township 26 North, Range 9 West, San Juan County, New Mexico. Upon Envirotech personnel's arrival on January 17, 2011 one (1) five (5)-point composite sample was collected from beneath the former BGT. The sample was analyzed in the field for TPH using USEPA Method 418.1, for organic vapors using a photoionization detector (PID) and for chlorides. The sample returned results above the BGT closure standard of 100 ppm for TPH confirming a release had occurred.

A brief site assessment was conducted and the regulatory standards were determined to be 1000 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors due to horizontal 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. 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; see attached *Analytical Results*. Envirotech, Inc. recommends no further action in regards to this incident.

PAGE NO: <u>1</u> OF <u>2</u> DATE STARTED: <u>1-17-11</u> DATE FINISHED: <u>1-17-11</u>	<b>ENVIROTECH INC</b> ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 - 3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	ENVIRONMENTAL SPECIALIST: <u>CD</u> LAT: <u>36.46374167</u> LONG: <u>-107.8000279</u>
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### FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: <u>Huerfano</u>	WELL #: <u>182</u>	TEMP PIT: <u>PERMANENT PIT:</u>	BGT: <u>X</u>
LEGAL ADD: UNIT: <u>SEC: 28</u>	TWP: <u>26N</u>	RNG: <u>9W</u>	PM: <u></u>
QTR/FOOTAGE: <u>890W 990N</u>	CNTY: <u>San Juan</u>	ST: <u>NM</u>	

EXCAVATION APPROX: <u>20</u> FT. X <u>20</u> FT. X <u>4</u> FT. DEEP	CUBIC YARDAGE: <u></u>
DISPOSAL FACILITY: <u>NA</u>	REMEDATION METHOD: <u>NA</u>
LAND OWNER: <u>BLM</u>	API: <u>3004520309</u>
CONSTRUCTION MATERIAL: <u>Steel</u>	BGT / PIT VOLUME: <u>120 barrel</u>
DOUBLE-WALLED WITH LEAK DETECTION: <u></u>	

LOCATION APPROXIMATELY: <u>100</u> FT. <u>250'</u> FROM WELLHEAD
DEPTH TO GROUNDWATER: <u>710'</u>

TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP BENZENE $\leq 0.2$ mg/kg, BTEX $\leq 50$ mg/kg, GRO & DRO FRACTION (8015) $\leq 500$ mg/kg, TPH (418.1) $\leq 2500$ mg/kg, CHLORIDES $\leq 500$ mg/kg	
TEMPORARY PIT - GROUNDWATER $\geq 100$ FEET DEEP BENZENE $\leq 0.2$ mg/kg, BTEX $\leq 50$ mg/kg, GRO & DRO FRACTION (8015) $\leq 500$ mg/kg, TPH (418.1) $\leq 2500$ mg/kg, CHLORIDES $\leq 1000$ mg/kg	
<input checked="" type="checkbox"/> PERMANENT PIT OR BGT BENZENE $\leq 0.2$ mg/kg, BTEX $\leq 50$ mg/kg, TPH (418.1) $\leq 100$ mg/kg, CHLORIDES $\leq 250$ mg/kg	

#### FIELD 418.1 ANALYSIS

TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
7:50	200 STD					190	
10:20	5th Bottom	1	5	20	4	92	368
10:20	BGT	2					
		3					
		4					
		5					
		6					

#### PERIMETER

#### FIELD CHLORIDES RESULTS

#### PROFILE

	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>READING</th> <th>CALC. (mg/kg)</th> </tr> <tr> <td>1</td> <td>0.9</td> <td>33</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	SAMPLE ID	READING	CALC. (mg/kg)	1	0.9	33																												<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">PID RESULTS</th> </tr> <tr> <th>SAMPLE ID</th> <th>RESULTS (mg/kg)</th> </tr> <tr> <td>1</td> <td>1.3</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	PID RESULTS		SAMPLE ID	RESULTS (mg/kg)	1	1.3																
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SAMPLE ID	ANALYSIS	RESULTS																				
	BENZENE																					
	BTEX																					
	GRO & DRO																					
	CHLORIDES																					



**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 #: 92115-1559  
Date Reported: 2/3/2011  
Date Sampled: 1/17/2011  
Date Analyzed: 1/17/2011  
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	368	5.0

ND = Parameter not detected at the stated detection limit.

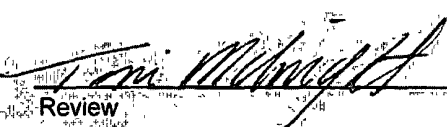
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978

Comments: Huerfano #182 (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

  
Analyst

Crystal Delgai  
Printed

  
Review

Toni McKnight, EIT  
Printed



## Field Chloride

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

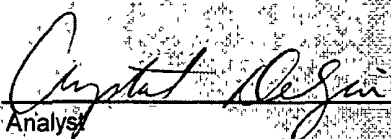
Project #: 92115-1559  
Date Reported: 2/3/2011  
Date Sampled: 1/17/2011  
Date Analyzed: 1/17/2011  
Analysis Needed: Chloride

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

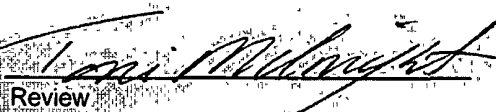
ND = Parameter not detected at the stated detection limit.

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

Comments: Huerfano #182 (hBr)

  
Analyst

Crystal Delgai  
Printed

  
Review

Toni McKnight, EIT  
Printed

Client:	N/A	Project #:	N/A
Sample ID:	0118BBLK QA/QC	Date Reported:	01-18-11
Laboratory Number:	57015	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-18-11
Condition:	N/A	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	1.5723E+005	1.5755E+005	0.2%	ND	0.1
Toluene	1.7592E+005	1.7627E+005	0.2%	ND	0.1
Ethylbenzene	1.5340E+005	1.5371E+005	0.2%	ND	0.1
p,m-Xylene	3.4128E+005	3.4196E+005	0.2%	ND	0.1
o-Xylene	1.3972E+005	1.4000E+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	488	97.5%	39 - 150
Toluene	ND	500	467	93.4%	46 - 148
Ethylbenzene	ND	500	456	91.2%	32 - 160
p,m-Xylene	ND	1000	938	93.8%	46 - 148
o-Xylene	ND	500	462	92.4%	46 - 148

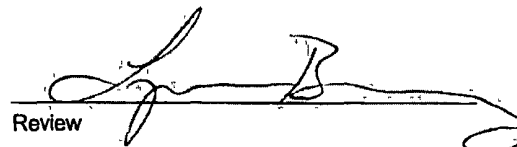
ND - Parameter not detected at the stated detection limit.

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 57015-57016**

  
 Analyst

  
 Review

# CHAIN OF CUSTODY RECORD

11020

Client: <b>Conoco Phillips</b>			Project Name / Location: <b>Huerfano #182</b>			ANALYSIS / PARAMETERS																																																	
Client Address:			Sampler Name: <b>C. Delgain</b>			<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>PCI</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></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></td> <td></td> <td></td> <td>✓</td> <td>✓</td> </tr> </table>														TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	PCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE							Sample Cool	Sample Intact	/	/							/								✓	✓
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						H <sub>2</sub> O <sub>2</sub>	HCl																																																
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RUSH



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