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

Revised October 10, 2003 Submit 2 Copies to appropriate

District Office in accordance with Rule 116 on back side of form

Form C-141

#### **Release Notification and Corrective Action** 30-639-07442 **OPERATOR** Initial Report Final Report **Kelsi Harrington** Contact Telephone No. 505-599-3403

Name of Company Burlington Resources, a Wholly **Owned Subsidiary of ConocoPhillips Company** 3401 E. 30<sup>th</sup> St., Farmington, NM 87402 Address San Juan 28-5 Unit 27 Facility Name Facility Type Gas Well API# 3003907442 Surface Owner Private Mineral Owner Federal Lease No NMSF-079250 LOCATION OF RELEASE Feet from the North/South Line Unit Letter Section Township Range Feet from the East/West Line 15 28N 05W 850' North 1845' East Rio Arriba В Latitude 36.66597° N Longitude -107.34331° 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 Date and Hour of Discovery Unknown 10/11/10 Was Immediate Notice Given? If YES, To Whom? RCVD DEC 1'10 ☐ Yes ☐ No ☒ Not Required By Whom? Date and Hour -UIL CONS. DIV. Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. DIST. 3 ☐ Yes ⊠ No 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 the regulatory standard by USEPA method 418.1 for TPH, 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 Releases; 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 Kelon Harrington OIL CONSERVATION DIVISION Signature Printed Name: **Kelsi Harrington** Approved by District Supervisor: Approval Date: Expiration Date **Environmental Consultant** Title:

Conditions of Approval:

\* Attach Additional Sheets If Necessary

11/3/10

E-mail Address kelsi.g.harrington@conocophillips.com

Phone: 505-599-3403

NJK 1206637142

Attached



November 22, 2010

Project Number 92115-1461

Phone: (505) 599-3403

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

RE: BELOW GRADE TANK CLOSURE DOCUMENTATION FOR THE SAN JUAN 28-5 UNIT 27 (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 conducted at the San Juan 28-5 Unit 27 (hBr) well site located in Section15, Township 28N, Range 5W, Rio Arriba County, New Mexico. On October 11, 2010, a five (5)-point composite sample was collected from directly beneath the BGT; see attached *Field Notes*. The sample was analyzed in the field for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, and screened in the field 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 TPH using USEPA Method 8015, benzene and BTEX using USEPA Method 8021 and total chlorides using USEPA Method 4500. The sample returned results below the regulatory standards for benzene, BTEX and chlorides but above the regulatory standard for TPH using USEPA Method 418.1, confirming a release had occurred.

A brief site assessment was conducted at the well site, and the regulatory standard was determined to be 100 parts per million (ppm) TPH and 100 ppm organic vapors due to surface water being within 200 feet from the well site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases. The sample returned results below the regulatory standards for organic vapors and for TPH using USEPA Method 8015; see enclosed *Analytical Results*. Envirotech, Inc. recommends no further action in regards to this incident.

ConocoPhillips San Juan 28-5 #27 (hBr) **BGT Closure Documentation** Project No. 92115-1461 Page 2

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.

Staff Engineer/Geologist

tmcknight@envirotech=inc.com

**Enclosures:** Field Notes

**Analytical Results** 

Cc: Client File No. 92115

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PAGE NO: OF	1			CH INC		ENVIRON	IMENTAL
	ENVIR			ISTS & ENGI	NEERS	SPECIALI	ST. CYY
92115 = 1461				Y 64 - 3014			
DATE STARTED: 10 /11 /2010	1		-	MEXICO 8740	1		99.99
DATE FINISHED: 10/11/2010	.279 /	. PHO	NE: (505) 6	32-0615		LONG:	1074,20.64
<u> </u>				SURE VE	RIFICA	TION	
LOCATION: NAME: San Tu	an 28.5	WELL #:43	27-	TEMP PIT:	PERMA	NENT PIT:	BGT: X
LEGAL ADD: UNIT:	SEC: 15		TWP: 🔊		RNG: 5.0	<u>ان ت</u>	PM: NOW.
QTR/FOOTAGE: 850/ENC +1845	FEL.	CNTY: R	1004001	Xi	ST: No Ec	s more	Co
EXCAVATION APPROX: 13A	FT. X	ro A	FT. X	ÑÁ	FT. DEEP	CUBIC YA	ARDAGE: NA
DISPOSAL FACILITY: 1054			REMEDIA	TION METHO	OD: 10 A		
LAND OWNER:		API:			BGT/PIT		
CONSTRUCTION MATERIAL: TOOC	Zzan p	DOUBLE-	WALLED,	WITH LEAK	DETECTIO	N: 100	
LOCATION APPROXIMATELY:	75	FT.	338	FROM WELL	HEAD		
DEPTH TO GROUNDWATER: 🗢 🎎			7,000			7 7	
TEMPORARY PIT - GROUNDWA			4 . *	an balan and me		****	
BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/k	g, GRO & DRO	FRACTION	N (8015) ≤ 5	00 mg/kg, TPH (	(418.1) ≤ 250	0 mg/kg, CH	LORIDES ≤ 500 mg/kg
TEMPORARY PIT - GROUNDWA					•	C 0,	
BENZENE \( \) 0.2 mg/kg, BTEX \( \) 50 mg/kg	_		I (9015) - 5/	in malka TDU (	410 1) - 2500	\ madea CIII	ODTDES < 1000 molles
	, OKO & DKO	TRACTION	1 (0012) 2 30	o mg/kg, irn (	410.1) 2 2300	mg/kg, Cru	Sykim nont z carmov
PERMANENT PIT OR BGT							
BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg	/kg, TPH (418.)	1) ≤ 100 mg/l	kg, CHLORI	DES ≤ 250 mg/k	ιg		
			FIEL	D 418.1 ANAL	YSIS		
	SAMPLE I.D.	LAB NO.			DILUTION	READING	
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BIEX				•		ì	
GRO & DRO							
CHLORIDES	Phineis	45					
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				TITO ONDER			7-7-0:

Client: CONOCOPAULIPS
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			)5) 632-0615 J.S. Hwy 64, Fan			C.O.C. No	
FIELD REPORT: SPILL CLO	OSURE V	ERIFIC	ATION			PAGE NO	
TOGATION. MANUSCHAUS TO TANK THE TOTAL TOTAL							ARTED: 70/11/10
							IISHED: 10/11/10
OTR/FOOTAGE: SOSOFNED 1845	TWF. SIGN	CONTRAC	TOR AND	CNITEM	81:10m1	ENVIRON	ST: 72-M
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EXCAVATION APPROX: N/A DISPOSAL FACILITY: N/A	FT. X	17.11)	FT. X	SIA			ARDAGE: NAA
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LAND USE: GRAZING CAUSE OF RELEASE: 台級人MA	5200 TC 1	LEASE:	MATERIAL	SSO.	LAND OW	NER:	cle rax
SPILL LOCATED APPROXIMATELY:						Asset (	CSTOWNED 1120
DEPTH TO GROUNDWATER: 104	NEAREST V	FI. もる) MTERSO	8% 8%	FROMULO	NEADEST	SIDEVCE	WATER: \$ (86"
NMOCD RANKING SCORE: 20°			PH CLOSURI			PPM	WATER:
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TRAVEL NOTES: CALLED OU	JT:			ONSITE:		<del></del> .	



## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

ConocoPhillips

Project #:

92115-1461

Sample No.:

1

Date Reported:

10/19/2010

Sample ID:

5 Pt. Composite

Date Sampled:

10/11/2010

Sample Matrix:

Soil

Date Analyzed:

10/11/2010

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

**Total Petroleum Hydrocarbons** 

160

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 28-5 Unit 27 (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyet

Toni McKnight, EIT

Printed

Review

Sarah Rowland, EIT

Printed



## **CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS**

Cal	ח	ata:	

11-Oct-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
ТРН	100		
	200	186	
	500		
	1000		

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

The Market			10/19/2010
Analyst	<u> </u>	Date	10/13/2010
Toni McKnight, EIT			
Print Name	)		
Sals Rall	, 		10/19/2010
Review		Date	
Sarah Rowland, EIT			

Print Name



#### **Field Chloride**

Client:

ConocoPhillips

92115-1461

Sample No.:

1

40/40/0040

Sample ID:

5 Pt. Composite

10/19/2010

Sample Matrix:

o i i. Compos

10/11/2010

Chloride

Preservative:

Soil Cool Date Analyzed: 10/11

Project #:

Date Reported:

Date Sampled:

Analysis Needed:

10/11/2010

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(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:

San Juan 28-5 Unit 27 (hBr)

Analyst

Toni McKnight, EIT

Printed

Review

Sarah Rowland, EIT

Printed



## **EPA METHOD 8015 Modified** Nonhalogenated Volatile Organics **Total Petroleum Hydrocarbons**

Client:	ConocoPhillips	Project #:	92115-1461
Sample ID:	5 Pt Composite	Date Reported:	10-12-10
Laboratory Number:	56144	Date Sampled:	10-11-10
Chain of Custody No:	10507	Date Received:	10-11-10
Sample Matrix:	Soil	Date Extracted:	10-12-10
Preservative:	Cool	Date Analyzed:	10-12-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

San Juan 28-5 #27 (hBr)

Analyst

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



## **EPA Method 8015 Modified** Nonhalogenated Volatile Organics **Total Petroleum Hydrocarbons**

#### **Quality Assurance Report**

Client: Sample ID: QA/QC

Project #:

N/A

10-12-10 QA/QC

Date Reported:

10-12-10

Laboratory Number:

56123

Date Sampled:

N/A

Sample Matrix:

Methylene Chloride

Date Received:

N/A 10-12-10

Preservative: Condition:

N/A N/A

Date Analyzed: Analysis Requested:

**TPH** 

Gasoline Range C5 - C10

10-12-10

#CaliREX CECAURE MACCEPT Range 9.9960E+002 1.0000E+003

0.04%

0 - 15%

Diesel Range C10 - C28

10-12-10

ND

ND

ND

ND

9.9960E+002

Concentration

1.0000E+003

0.04%

0 - 15%

Blank Conc. (mg/L - mg/Kg)

Gasoline Range C5 - C10 Diesel Range C10 - C28

ND

0.2

Detection Limit

Duplicate Conc.: (mg/Kg) Sample Duplicate: Whiterence Vaccept Range

ND

250

250

0.1

Gasoline Range C5 - C10 Diesel Range C10 - C28

ND ND

0.0% 0.0% 0 - 30% 0 - 30%

Spike Conc. (mg/Kg) Gasoline Range C5 - C10

Diesel Range C10 - C28

Sample. Spike Added ... Spike Result ....

250

256

100% 102%

75 - 125% 75 - 125%

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for Samples 56123-56127, 56140-56144

Analyst

Review



### **EPA METHOD 8021 AROMATIC VOLATILE ORGANICS**

Client:	ConocoPhillips	Project #:	92115-1461
Sample ID:	5 Pt Composite	Date Reported:	10-12-10
Laboratory Number:	56144	Date Sampled:	10-11-10
Chain of Custody:	10507	Date Received:	10-11-10
Sample Matrix:	Soil	Date Analyzed:	10-12-10
Preservative:	Cool	Date Extracted:	10-12-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

	W114401	. •	
		Det.	
	Concentration	Limit	
Parameter	(ug/Kg)	(ug/Kg)	
Benzene	ND	0.9	
Toluene	ND	1.0	
Ethylbenzene	ND	1.0	
p,m-Xylene	3.0	1.2	
o-Xvlene	1.6	0.9	

ND - Parameter not detected at the stated detection limit

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.6 %
	1,4-difluorobenzene	102 %
	Bromochlorobenzene	97.1 %

References:

**Total BTEX** 

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

4.6

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

San Juan 28-5 #27 (hBr)

Analyst

Review



# EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A		Project #:		N/A				
Sample ID:	1012BBLK QA/Q	D.	Date Reported:		10-12-10				
Laboratory Number:	56123		Date Sampled:		N/A				
Sample Matrix:	Soil		Date Received:		N/A				
Preservative:	·N/A		Date Analyzed:		10-12-10				
Condition:	N/A		Analysis		BTEX				
			Dilution:		10				
The state of the s		The state of the s		COLOR DE LA CASA DE LA	THE RESERVE THE PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PA				
Callbration and Detection Limits (ug/L)	J-Calification	Commence of the second		Blanks Conc	Detection Limit:				
	#ESTRE	Commence of the second		<b>用是"我们的"。一个一个一个人的现在分词</b>	Detection Limits				
Detection/Limits (ug/L)		Accept Ran	ge ()/15%	Conc	Limit: 0.1				
Detection(Limits (ug/L))	4.8102E+005	Accept Ran 4 8199E+005	<u>de(0/∈15%)</u> 0.2%	ND	0.1 0.1				
Detection Limits (ug/L) Benzene Toluene	4.8102E+005 5 8823E+005	Accest Ran 4 8199E+005 5.8941E+005	ge (/4.15% 0.2% 0.2%	ND ND	Limit: 0.1				

Ouplicate Conc. (ug/Kg)	Sample Di	plicate	////Diffs vit	*Accept Ranger	Detectium
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))		puntiSpiked Spi	ked Sample // //	Recovery:   Lil	Accept/Range
Benzene	ND	500	499	100%	39 - 150
Toluene	ND	500	502	100%	46 - 148
Ethylbenzene	ND	500	512	102%	32 - 160
p,m-Xylene	ND	1000	1,020	102%	46 - 148
o-Xylene	ND	500	520	104%	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 56123-56127, 56144

Analyst Review



#### Chloride

Client:	ConocoPhillips	Project #:	92115-1461
Sample ID:	5 Pt Composite	Date Reported:	10-12 <b>-</b> 10
Lab ID#:	56144	Date Sampled:	10-11-10
Sample Matrix:	Soil	Date Received:	10-11-10
Preservative:	Cool	Date Analyzed:	10-12-10
Condition:	Intact	Chain of Custody:	10507

Parameter	Concentration (mg/Kg)

**Total Chloride** 30

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Reference:

Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: San Juan 28-5 #27 (hBr)

Review

TUNDHX

## **CHAIN OF CUSTODY RECORD**

10507

Client:		1	Drainat Nama /	Location	:	/	, , <u>, , , , , , , , , , , , , , , , , </u>						,	ANAL	YSIS	/ PAR	AME	TERS	 								
ConocoPh	11115	)	<u> 2010 TO</u>	<u> NAU</u>	20-5	#27(	h	Dr'	<b>)</b>	<b>/</b>							, <u>,</u>	<b>/</b>	 								
Client Address:	·		Sampler Name:	m	1				<u>```</u>	<u>7</u>	6							}									
			Ton.	NJUAN 28-5 #27 (hBr)  NTUAN 28-5 #27 (hBr)  No.: MUKn: ght  10.:  2115 - 1461			8	ğ	182	डू	_		۵														
Client Phone No.:			Client No.:				E P	BTEX (Method 8021)	VOC (Method 8260)	Meta	Meta	Meta	Meta	RCRA 8 Metals	inio	Cation / Anion		TCLP with H/P		3.1	w			00	Sample Intact		
	I =		42113	6 l			Met				(Me	TPH (Method 8015)	Met	( <b>⊠</b>		(Me	481	/ u		wit		418				D el	le Ir
Sample No./	Sample Date	Sample Time	Lab No.	>	ample Matrix	No./Volume of Containers	rrese	rvative	-	Ê	8	CR.	atio	<u>况</u>	딩	AH.	TPH (418.1)	CHLORIDE			Sample Cool	amb					
5 ot C was 'L				Soil	Sludge		1,8012	<u> </u>	-	"/	-	ш.	0	ш.	<u> </u>	<u>n</u>	<del> </del>	9/	-		S	S					
5pt Composite	711/10	15511	56144	Solid	Aqueous	1/402		V	V	V			,					V			Y	Y					
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