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

30-039-07681

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **Burlington Resources, A Wholly Owned Subsidiary of COPC**		Contact **Kelsi Harrington**	
Address **3401 E. 30th St., Farmington, NM 87402**		Telephone No. **505-599-3403**	
Facility Name **San Juan 29-7 Unit 11**		Facility Type **Gas Well**	API# **3003907681**
Surface Owner **Federal**	Mineral Owner **Federal**		Lease No. **SF-078919**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	**03**	**29N**	**07W**	**660'**	**South**	**660'**	**West**	**Rio Arriba**

Latitude 36.74924° N **Longitude** -107.56446° W

NATURE OF RELEASE

Type of Release – **Produced Water & Condensate**	Volume of Release – **7 BBL (6.5 BBL PW & 0.5 BBL Condensate)**	Volume Recovered – **0 BBL**
Source of Release: **Production Tank**	Date and Hour of Occurrence **unknown**	Date and Hour of Discovery **7/22/10 12:00 p.m.**
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.* **On July 22, 2010, it was dicovered that there was a leak at the production tank as a result equipment fatigue. Upon discovery, the well shut in and the tank contents removed.**

Describe Area Affected and Cleanup Action Taken.* **All fluid was contained within the berm and no fluid was recovered. COPC has assessed the impacted area. Excavation and confirmation sampling occurred. 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 needed.**

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: Kelsi Harrington	OIL CONSERVATION DIVISION	
Printed Name: **Kelsi Harrington**	Approved by District Supervisor:	
Title: **Environmental Consultant**	Approval Date: 12/02/2011	Expiration Date:
E-mail Address: **kelsi.g.harrington@conocophillips.com**	Conditions of Approval:	Attached ☐
Date: **12/1/10** Phone: **505-599-3403**		

* Attach Additional Sheets If Necessary

nJK1133649889

RECEIVED
NOV 2010
OIL CONS. DIV. DIST. 3

envirotech

September 3, 2010

Project No. 92115-1377
92115-1383

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

Phone: (505) 599-3403
Cell: (505) 320-2461

RE: SPILL ASSESSMENT AND CONFIRMATION SAMPLING DOCUMENTATION FOR THE SAN JUAN 29-7 UNIT #11 (HBR), RIO ARRIBA COUNTY, NEW MEXICO

Dear Ms. Harrington,

Enclosed please find the field notes and analytical results for spill assessment and confirmation sampling activities performed at the San Juan 29-7 Unit #11 (hBr) well site located in Section 3, Township 29N, Range 7W, Rio Arriba County, New Mexico. Upon arrival, a brief site assessment was conducted, and the regulatory standards for the site were determined to be 1000 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors due to a horizontal distance to surface water between 200 and 1000 feet, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

On July 29, 2010, four (4) composite samples were collected from the area around the leaking above-grade storage tank (AST); see attached ***Field Notes***. One (1) sample was collected from the surface approximately one (1) foot from the leak. One (1) sample was collected one (1) foot below ground surface (BGS) at an angle under the AST. One (1) sample was collected three (3) feet BGS at an angle under the AST. One (1) sample was collected two (2) feet BGS at the perimeter of the area. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The sample collected from the perimeter of the area returned results below the regulatory standards for both TPH and organic vapors. However, the samples collected from the surface near the leak and under the AST returned results above the regulatory standards for both TPH and organic vapors; therefore, excavation was recommended.

Prior to Envirotech's return on August 16, 2010, the area of the release had been excavated to extents of approximately 30 feet by 17 feet by four (4) feet deep where sandstone was encountered. Five (5) composite samples were collected from the excavation. One (1) sample was collected from each of the four (4) walls, and one (1) sample was collected from the sandstone bottom at four (4) feet BGS. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The composite sample from the bottom of the excavation returned results above the regulatory standards for both TPH and organic vapors, and the samples from the walls returned results below the regulatory standards for both TPH and organic vapors; see attached ***Field Notes***. The sample collected from the bottom of the excavation was then collected 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 and for benzene and BTEX using USEPA Method 8021. The sample returned results below the regulatory standard for benzene but above the regulatory standards for BTEX and TPH; see attached ***Analytical Results***. However, because maximum reasonable extents of excavation were reached at sandstone at four (4) feet BGS, no further excavation was recommended.

On August 18, 2010, Envirotech, Inc. returned to the site to treat the excavation with potassium permanganate. Envirotech, Inc. recommends no further action in regards to this incident.

We appreciate the opportunity to be of service. Should you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,
ENVIROTECH, INC.

Toni McKnight, EIT
Staff Engineer
tmcknight@envirotech-inc.com

Enclosure(s): Field Notes
Analytical Results

Cc: Client File 92115

nt: COPC

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

Location No:

C.O.C. No:

ELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF

DATE STARTED: 7/29/10

DATE FINISHED:

ENVIRONMENTAL SPECIALIST: Rene

CATION: NAME: San Juan 29-7 WELL #: 11

AD/UNIT: M SEC: 3 TWP: 29N RNG: 7W PM: NMPM CNTY: RA ST: N.M.

/FOOTAGE: 660' S & 660' W CONTRACTOR:

CAVATION APPROX: FT. X FT. X FT. DEEP CUBIC YARDAGE:

POSAL FACILITY: REMEDIATION METHOD:

ND USE: Grazing LEASE: SF078915 LAND OWNER:

USE OF RELEASE: Prod Tank Leaking MATERIAL RELEASED: Oil

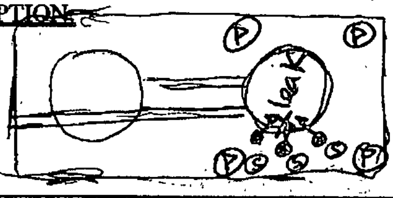
L LOCATED APPROXIMATELY: 70 FT. NE FROM Wellhead

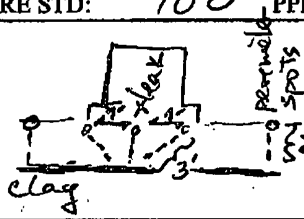
TH TO GROUNDWATER: 170' NEAREST WATER SOURCE: NA NEAREST SURFACE WATER: 250'

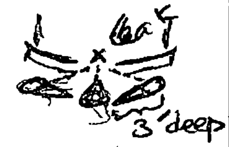
OCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 100 PPM

L AND EXCAVATION DESCRIPTION:

It was impossible continue digging due to hard rock layer.

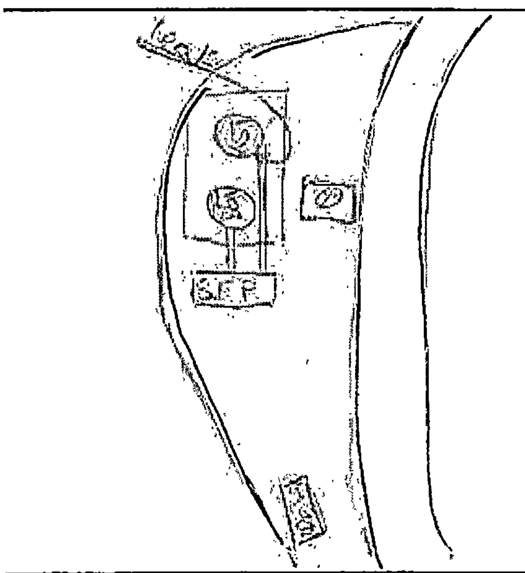






SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
214	[illegible]	200 std					214	
1 comp	13:20	surface		5	20	x 4	1890	7560
with angle under	13:25	Prod 1'					853	3412
prod Tank	13:30	Prod 3'					1122	4488
1 comp; 2' deep;	15:00	perimeter					36	144
no angle								

SPILL PERIMETER



OVM RESULTS

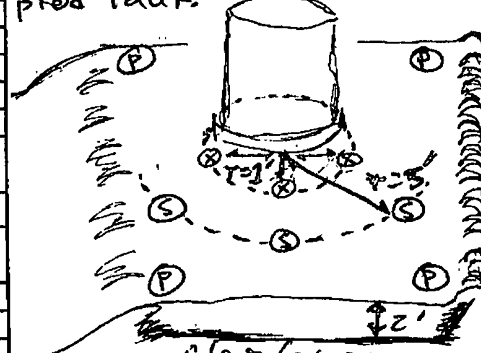
SAMPLE ID	FIELD HEADSPACE PID (ppm)
Surface	722
Prod 1'	698
Prod 3'	2230
perimeter	12

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

SPILL PROFILE

⊗ sample points close to leak, 3' deep with angle ~~and~~ directed under prod Tank.



Ⓢ survey points, 1' deep, Just took OVM readings.

Ⓟ perimeter points, 2' deep

AVEL NOTES: CALLED OUT: ONSITE:

ent: COPC

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

Location No:

C.O.C. No:

ELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1

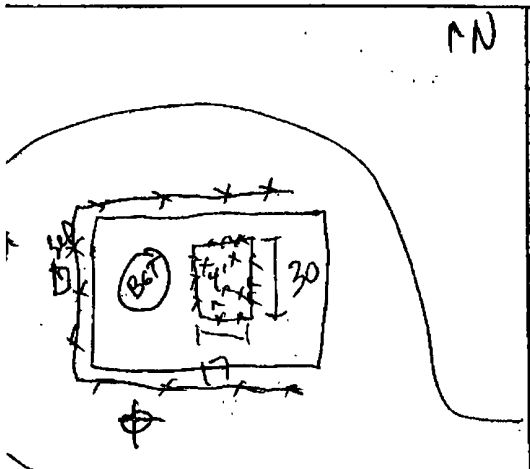
CATION: NAME: SAN JUAN 29-7 WELL #: #11
AD/UNIT: SEC: 3 TWP: 29N RNG: 7W PM: NM CNTY: RA ST: NM
V/FOOTAGE: 660' FSL & 660' FWL CONTRACTOR: MATRUCKING

DATE STARTED: Aug 16, 2010
DATE FINISHED: Aug 16, 2010
ENVIRONMENTAL SPECIALIST: TCM

CAVATION APPROX: 30 FT. X 17 FT. X 4 FT. DEEP CUBIC YARDAGE:
POSAL FACILITY: FEI REMEDIATION METHOD: LANDFARM
ND USE: ~~FEI~~ GRAZING LEASE: SF078919 LAND OWNER:
USE OF RELEASE: TANK BATT MATERIAL RELEASED: CONDENSATE
L LOCATED APPROXIMATELY: 20 FT. 29 FROM Wellhead
TH TO GROUNDWATER: 170' NEAREST WATER SOURCE: 7,000' NEAREST SURFACE WATER: ≈250'
OCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 11,000 PPM
L AND EXCAVATION DESCRIPTION: 4' to SANDSTONE BOTTOM
Lat: N 36.749353'
Long: W 107.565044'

AMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
TPH 209	11:35	—	—	—	—	—	201	—
orth WALL	11:54	1	—	5	20	4	13	52
outh WALL	11:56	2	—	5	20	4	13	52
AST WALL	11:58	3	—	5	20	4	17	68
EST WALL	12:00	4	—	5	20	4	15	60
ottom @ 4'	12:02	5	1	5	20	40	248	9920

SPILL PERIMETER



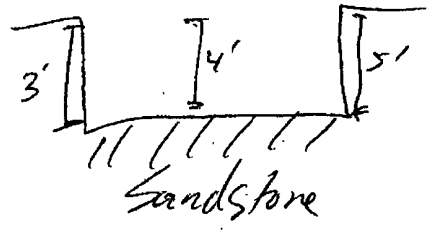
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1	0.5
2	45.3
3	5.7
4	13.6
5	660

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

SPILL PROFILE



Average 4' BGS

VEL NOTES: CALLED OUT: ARRIVED @ 1100 DONE @ 1215 ONSITE:

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1377
Sample No.:	1	Date Reported:	8/18/2010
Sample ID:	Surface	Date Sampled:	7/29/2010
Sample Matrix:	Soil	Date Analyzed:	7/29/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**7,560**	**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 29-7 Unit #11**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Rene Garcia Reyes
Printed

Review

Sarah Rowland, 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

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1377
Sample No.:	2	Date Reported:	8/18/2010
Sample ID:	Under AST 1' angled	Date Sampled:	7/29/2010
Sample Matrix:	Soil	Date Analyzed:	7/29/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**3,410**	**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 29-7 Unit #11**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Rene Garcia Reyes
Printed

Review

Sarah Rowland, EIT
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1377
Sample No.:	3	Date Reported:	8/18/2010
Sample ID:	Under AST 3' angled	Date Sampled:	7/29/2010
Sample Matrix:	Soil	Date Analyzed:	7/29/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**4,490**	**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 29-7 Unit #11**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Rene Garcia Reyes
Printed

Review

Sarah Rowland, EIT
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1377
Sample No.:	4	Date Reported:	8/18/2010
Sample ID:	Perimeter	Date Sampled:	7/29/2010
Sample Matrix:	Soil	Date Analyzed:	7/29/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**144**	**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 29-7 Unit #11**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Rene Garcia Reyes
Printed

Review

Sarah Rowland, EIT
Printed

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 29-Jul-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	214	217
	500	
	1000	

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

Analyst

8/18/2010
Date

Rene Garcia Reyes
Print Name

Review

8/18/2010
Date

Sarah Rowland, EIT
Print Name

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1383
Sample No.:	1	Date Reported:	8/18/2010
Sample ID:	North Wall	Date Sampled:	8/16/2010
Sample Matrix:	Soil	Date Analyzed:	8/16/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**52**	**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 29-7 Unit #11**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Toni McKnight, EIT
Printed

Review

Sarah Rowland, EIT
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1383
Sample No.:	2	Date Reported:	8/18/2010
Sample ID:	South Wall	Date Sampled:	8/16/2010
Sample Matrix:	Soil	Date Analyzed:	8/16/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**52**	**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 29-7 Unit #11**

Instrument calibrated to 200 ppm standard. Zeroed before each sample.

Analyst

Toni McKnight, EIT
Printed

Review

Sarah Rowland, EIT
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1383
Sample No.:	3	Date Reported:	8/18/2010
Sample ID:	East Wall	Date Sampled:	8/16/2010
Sample Matrix:	Soil	Date Analyzed:	8/16/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**68**	**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 29-7 Unit #11**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Toni McKnight, EIT
Printed

Review

Sarah Rowland, EIT
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1383
Sample No.:	4	Date Reported:	8/18/2010
Sample ID:	West Wall	Date Sampled:	8/16/2010
Sample Matrix:	Soil	Date Analyzed:	8/16/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**60**	**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 29-7 Unit #11**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Toni McKnight, EIT
Printed

Review

Sarah Rowland, EIT
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1383
Sample No.:	5	Date Reported:	8/18/2010
Sample ID:	Sandstone Bottom at 4' BGS	Date Sampled:	8/16/2010
Sample Matrix:	Soil	Date Analyzed:	8/16/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**9,920**	**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 29-7 Unit #11**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Toni McKnight, EIT
Printed

Review

Sarah Rowland, 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

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 16-Aug-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	204	201
	500	
	1000	

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

Analyst — Date: 8/18/2010

Toni McKnight, EIT
Print Name

Review — Date: 8/18/2010

Sarah Rowland, 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
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	92115-1383
Sample ID:	Bottom (sandstone)	Date Reported:	08-17-10
Laboratory Number:	55573	Date Sampled:	08-16-10
Chain of Custody No:	10199	Date Received:	08-16-10
Sample Matrix:	Soil	Date Extracted:	08-16-10
Preservative:	Cool	Date Analyzed:	08-17-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**2,980**	**0.2**
Diesel Range (C10 - C28)	**63.8**	**0.1**
Total Petroleum Hydrocarbons	**3,040**	**0.2**

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 29-7 Unit #11 (hBr)**

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 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-17-10 QA/QC	Date Reported:	08-17-10
Laboratory Number:	55571	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-17-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	08-17-10	9.9960E+002	1.0000E+003	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	08-17-10	9.9960E+002	1.0000E+003	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**257**	**103%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**252**	**101%**	**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 55571-55576**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	92115-1383
Sample ID:	Bottom (sandstone)	Date Reported:	08-17-10
Laboratory Number:	55573	Date Sampled:	08-16-10
Chain of Custody:	10199	Date Received:	08-16-10
Sample Matrix:	Soil	Date Analyzed:	08-17-10
Preservative:	Cool	Date Extracted:	08-16-10
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**2,030**	**0.9**
Toluene	**52,200**	**1.0**
Ethylbenzene	**8,040**	**1.0**
p,m-Xylene	**76,600**	**1.2**
o-Xylene	**22,800**	**0.9**
Total BTEX	**162,000**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**105 %**
	1,4-difluorobenzene	**105 %**
	Bromochlorobenzene	**106 %**

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 29-7 Unit #11 (hBr)**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0817BBLK QA/QC	Date Reported:	08-17-10
Laboratory Number:	55571	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-17-10
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	8.3627E+005	8.3795E+005	0.2%	ND	0.1
Toluene	9.3497E+005	9.3684E+005	0.2%	ND	0.1
Ethylbenzene	8.6362E+005	8.6535E+005	0.2%	ND	0.1
p,m-Xylene	2.1295E+006	2.1338E+006	0.2%	ND	0.1
o-Xylene	7.6544E+005	7.6697E+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	50.1	100%	39 - 150
Toluene	ND	50.0	50.4	101%	46 - 148
Ethylbenzene	ND	50.0	49.2	98.3%	32 - 160
p,m-Xylene	ND	100	100	100%	46 - 148
o-Xylene	ND	50.0	50.2	100%	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 55571-55576, 55548-55550**

Analyst

Review

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-# RC-JD-

CHAIN OF CUSTODY RECORD

10199

RUSH

Client:	Project Name / Location:	ANALYSIS / PARAMETERS
CONOCO PHILLIPS	SAN JUAN 29-7 Unit #11 (hBr)	
Client Address:	Sampler Name: Toni McKnight	
Client Phone No.:	Client No.: 92115-1383	

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl₂	Preservative HCl	Preservative Cool	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
Bottom (SANDSTONE)	Aug 16 2010	12:02	55573	(Soil) Sludge Solid Aqueous	1/4oz			✓	✓	✓												Y	Y
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
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				Soil Sludge Solid Aqueous																			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Toni McKnight	Aug 16 2010	13:35	[signature]	8/16/10	1335
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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September 27, 2010

Project No. 92115-1377
92115-1383

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

Phone: (505) 599-3403
Cell: (505) 320-2461

RE: ADDENDUM TO SPILL ASSESSMENT AND CONFIRMATION SAMPLING DOCUMENTATION FOR THE SAN JUAN 29-7 UNIT #11 (HBR), RIO ARRIBA COUNTY, NEW MEXICO

Dear Ms. Harrington,

Enclosed please find the field notes and analytical results for additional confirmation sampling activities performed at the San Juan 29-7 Unit #11 (hBr) well site located in Section 3, Township 29N, Range 7W, Rio Arriba County, New Mexico. On August 26, 2010, one (1) composite sample was collected from the bottom of the excavation where potassium permanganate had previously been applied. The sample was collected 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 and for benzene and BTEX using USEPA Method 8021. 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.

We appreciate the opportunity to be of service. Should you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,
ENVIROTECH, INC.

Barian Williamson
Senior Environmental Field Technician
bwilliamson@envirotech-inc.com

Enclosure(s): Field Notes
Analytical Results

Cc: Client File 92115

nt: Conoco Phillips

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Location No: 92115 - 1377
C.O.C. No:

ELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1
DATE STARTED: 8-26-10
DATE FINISHED: 8-26-10
ENVIRONMENTAL SPECIALIST: B. W. Ilcewicz

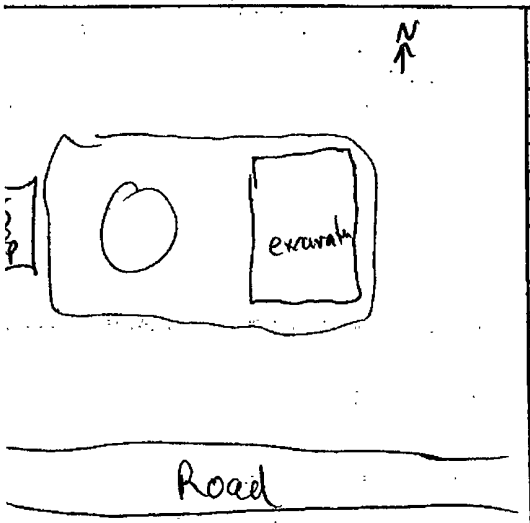
CATION: NAME: San Juan 29-7 WELL #: 11
AD/UNIT: SEC: 3 TWP: 29N RNG: 7W PM: CNTY: RA ST: NM
/FOOTAGE: CONTRACTOR:

CAVATION APPROX: 20 FT. X 15 FT. X 3 FT. DEEP CUBIC YARDAGE:
POSAL FACILITY: REMEDIATION METHOD: Removal
ND USE: Grazing LEASE: LAND OWNER: Fidel
USE OF RELEASE: Tank leak MATERIAL RELEASED: Condensate
L LOCATED APPROXIMATELY: FT. FROM
TH TO GROUNDWATER: 180' NEAREST WATER SOURCE: NEAREST SURFACE WATER: 240'
OCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM
AND EXCAVATION DESCRIPTION: collected (1) 5 pt composite sample from excavation bottom

bottom of excavation was sand stone

AMPLE DESCRIPITION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm

SPILL PERIMETER



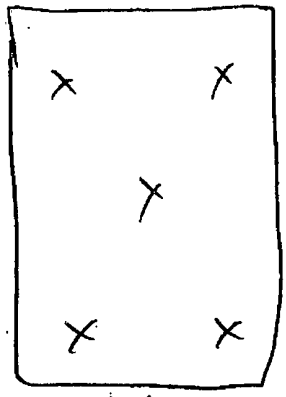
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

SPILL PROFILE



VEL NOTES: CALLED OUT: ONSITE:

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	92115-1377
Sample ID:	5 Pt Composite From Bottom	Date Reported:	08-31-10
Laboratory Number:	55689	Date Sampled:	08-26-10
Chain of Custody No:	10268	Date Received:	08-26-10
Sample Matrix:	Soil	Date Extracted:	08-30-10
Preservative:	Cool	Date Analyzed:	08-31-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**1.2**	**0.2**
Diesel Range (C10 - C28)	**2.8**	**0.1**
Total Petroleum Hydrocarbons	**4.0**	**0.2**

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 29-7 #11**

Analyst

Review

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EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-31-10 QA/QC	Date Reported:	08-31-10
Laboratory Number:	55689	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-31-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	08-31-10	9.9960E+002	1.0000E+003	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	08-31-10	9.9960E+002	1.0000E+003	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**1.2**	**1.2**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**2.8**	**3.0**	**7.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**1.2**	**250**	**255**	**101%**	**75 - 125%**
Diesel Range C10 - C28	**2.8**	**250**	**256**	**101%**	**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 55689, 55701-55705, 55715-55718**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	92115-1377
Sample ID:	5 Pt Composite From Bottom	Date Reported:	08-31-10
Laboratory Number:	55689	Date Sampled:	08-26-10
Chain of Custody:	10268	Date Received:	08-26-10
Sample Matrix:	Soil	Date Analyzed:	08-31-10
Preservative:	Cool	Date Extracted:	08-30-10
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**3.4**	**1.0**
p,m-Xylene	**45.9**	**1.2**
o-Xylene	**13.3**	**0.9**
Total BTEX	**62.6**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96.8 %**
	1,4-difluorobenzene	**97.3 %**
	Bromochlorobenzene	**100 %**

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 29-7 #11**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0831BBLK QA/QC	Date Reported:	08-31-10
Laboratory Number:	55689	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-31-10
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff: Accept. Range 0 - 15%	Blank Conc:	Detect. Limit:
Benzene	7.4643E+005	7.4793E+005	**0.2%**	**ND**	**0.1**
Toluene	8.2496E+005	8.2661E+005	**0.2%**	**ND**	**0.1**
Ethylbenzene	7.4852E+005	7.5002E+005	**0.2%**	**ND**	**0.1**
p,m-Xylene	1.8052E+006	1.8089E+006	**0.2%**	**ND**	**0.1**
o-Xylene	6.7051E+005	6.7185E+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	**3.4**	**3.0**	**11.8%**	**0 - 30%**	**1.0**
p,m-Xylene	**45.9**	**47.0**	**2.4%**	**0 - 30%**	**1.2**
o-Xylene	**13.3**	**13.3**	**0.0%**	**0 - 30%**	**0.9**

Spike Conc (ug/Kg)	Sample	Amount Spiked	Spiked Sample	%Recovery	Accept Range
Benzene	**ND**	**50.0**	**50.2**	**100%**	**39 - 150**
Toluene	**ND**	**50.0**	**50.6**	**101%**	**46 - 148**
Ethylbenzene	**3.4**	**50.0**	**50.3**	**100%**	**32 - 160**
p,m-Xylene	**45.9**	**100**	**104**	**99.0%**	**46 - 148**
o-Xylene	**13.3**	**50.0**	**51.5**	**100%**	**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 55689, 55701-55705, 55715-55718**

Analyst

Review

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CHAIN OF CUSTODY RECORD

10268

Client: Conoco Phillips	Project Name / Location: San Juan 29-7 # 11
Client Address:	Sampler Name: Barian Williamson
Client Phone No.:	Client No.: 92115-1377

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	Preservative Cool	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
5 point Composite from Bottom	8/26/10	14:40	55689	(Soil) Solid Sludge Aqueous	1-4oz			X	X	X												X	X
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
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Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/26/10	16:09	[signature]	8.26.10	16:09
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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