

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 August 8, 2011

Submit 1 Copy to appropriate District Office to  
accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company <b>Burlington Resources Oil &amp; Gas Company</b>	Contact <b>Crystal Tafoya</b>	
Address <b>3401 East 30<sup>th</sup> St, Farmington, NM</b>	Telephone No. <b>(505) 326-9837</b>	
Facility Name: <b>Box Canyon Com 1</b>	Facility Type: <b>Gas Well</b>	
Surface Owner <b>BLM</b>	Mineral Owner <b>Fee</b>	API No. <b>30-039-23127</b>

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>M</b>	<b>15</b>	<b>25N</b>	<b>6W</b>	<b>1200</b>	<b>South</b>	<b>720</b>	<b>West</b>	<b>Rio Arriba</b>

Latitude 36.39569 Longitude 107.46052

### NATURE OF RELEASE

Type of Release <b>Produced Fluids</b>	Volume of Release <b>522 yds</b>	Volume Recovered
Source of Release <b>Below Grade Tank</b>	Date and Hour of Occurrence <b>4/4/2012</b>	Date and Hour of Discovery
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>N/A</b>		<b>RCVD AUG 23 '12</b> <b>OIL CONS. DIV.</b>
Describe Cause of Problem and Remedial Action Taken.* <b>Below Grade Tank Closure Activities</b>		<b>DIST. 3</b>
Describe Area Affected and Cleanup Action Taken.* <b>Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 35'X40'X8' and 522yds of soil was transported to TNT landfarm and 522 yds of clean soil was transported from Aztec Machine and TNT and placed in the excavation site. The soil sampling report is attached for review.</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.		
Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Crystal Tafoya</b>	Approved by Environmental Specialist: 	
Title: <b>Field Environmental Specialist</b>	Approval Date: <b>9/06/2012</b>	Expiration Date:
E-mail Address: <b>crystal.tafoya@conocophillips.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>8/22/2012</b> Phone: <b>(505) 326-9837</b>		

\* Attach Additional Sheets If Necessary

nJK 1225054928



May 17, 2012

Project Number 92115-2125

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

Phone: (505) 324-5140  
Cell: (505) 320-0699

**RE: CONFIRMATION SAMPLING DOCUMENTATION FOR THE BOX CANYON COM #1 (hBr),  
RIO ARRIBA COUNTY, NEW MEXICO**

Dear Ms. Cowden:

Enclosed please find the field notes, site map, and analytical results for confirmation sampling activities performed at the Box Canyon Com #1 (hBr) well site located in Section 15, Township 25 North, Range 6 West, Rio Arriba County, New Mexico. A release of produced water had occurred from a below-grade tank on the location. Upon Envirotech personnel's arrival on March 5, 2012, a brief site assessment was conducted. 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 from the well site, a depth to groundwater of greater than 100 feet, and a distance of greater than 1000 feet to a well head protection area pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

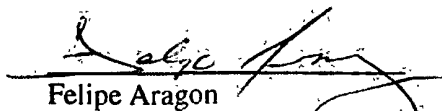
Prior to Envirotech personnel's arrival, the area of the release had been excavated by Keystone Oilfield Services to extents of approximately 30 feet by 24 feet by 7 feet deep. Upon arrival, one (1) composite sample was collected from the excavation and one (1) sample was collected from the spoils pile. Both samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The samples returned results above the regulatory standards for both TPH and organic vapors; see enclosed **Field Notes** and **Analytical Results**. Three (3) more composite samples were then collected from the excavation. One (1) sample was collected from the south and west walls; one (1) sample was collected from the north and east walls; and one (1) sample was collected from the bottom of the excavation. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The south and west wall sample returned results below the regulatory standards for TPH and organic vapors. The north and east wall sample and the bottom sample returned results above the regulatory standards for both TPH and organic vapors; see enclosed **Field Notes** and **Analytical Results**. Envirotech, Inc. recommended further excavation on the bottom, north wall, and east wall.

Prior to Envirotech personnel's return on April 9, 2012, the area of the release had been further excavated by Montoya Trucking to extents of approximately 30 feet by 52 feet by 10 feet deep.

Three (3) composite samples were collected from the excavation. One (1) sample was collected from the bottom at 10 feet BGS where sandstone was encountered. One (1) sample was collected from the north wall and one (1) sample was collected from the east wall. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. All three (3) samples returned results above the regulatory standard for TPH. All samples returned results below the regulatory standard for organic vapors, except for the north wall sample; see enclosed **Field Notes** and **Analytical Results**. The north wall was then excavated an additional four (4) feet and another composite sample was collected. The sample was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The sample returned results below the regulatory standards for both TPH and organic vapors; see enclosed **Field Notes** and **Analytical Results**. The samples collected from the bottom of the excavation at 10 feet BGS and the east wall were then collected into four (4)-ounce glass jars, 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. Both samples returned results below the regulatory standard for TPH; see enclosed **Analytical Results**. Therefore, 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.**

  
Felipe Aragon  
Senior Environmental ~~Field~~ Technician  
[faragon@envirotech-inc.com](mailto:faragon@envirotech-inc.com)

Enclosure(s): Field Notes  
Site Map  
Analytical Results

Cc: Client File Number 92115

Client:

ConocoPhillips  
(Cher)
**envirotech**  
 (505) 632-0615 (800) 362-1679  
 5796 U.S. Hwy 64, Farmington, NM 87401

Project No:

92115-2073

COC No:

No Labs

## FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF

LOCATION: NAME: Box Canyon 10m WELL #: 1 API: 3003723127

QUAD/UNIT: M SEC: 15 TWP: 25N RNG: 6W PM: CNTY: RAST: N.M.

QTR/FOOTAGE: 1100.5 / 720 W CONTRACTOR: KeyStone Oil Field

DATE STARTED: 3-5-12

DATE FINISHED:

ENVIRONMENTAL

SPECIALIST: F. Aragon

EXCAVATION APPROX: 30 FT. X 24 FT. X 7 FT. DEEP CUBIC YARDAGE:

DISPOSAL FACILITY: REMEDIATION METHOD:

LAND USE: Range LEASE: LAND OWNER: Fed

CAUSE OF RELEASE: BGT Release MATERIAL RELEASED: Produced water

SPILL LOCATED APPROXIMATELY: 110 FT. 333° FROM W. H. / Aligned

DEPTH TO GROUNDWATER: 7100 NEAREST WATER SOURCE: 6.16m NEAREST SURFACE WATER: 500'

NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION: Dab balls for 505-947-6986

Recommended further excavation of bottom, North &amp; East walls.

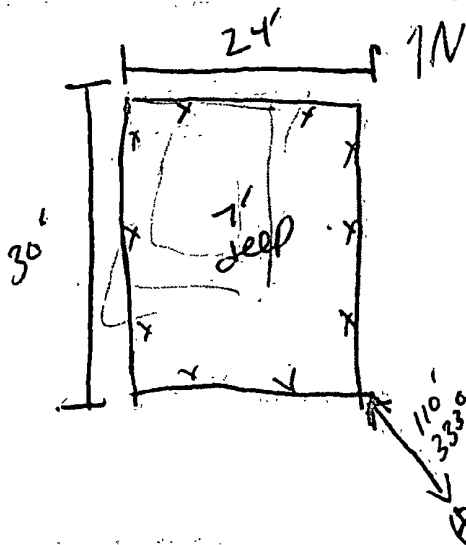
Left messages at Shelly @ 16:30 Relayed activities

SAMPLE DESCRIPTION	TIME	SAMPLE ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
100 STD	14:50	70057D	-	-	-	-	199	-
Exc. Comp. 7' deep	14:55	1	-	5	20	4	758	3032
Soil 15' Pile	15:48	2	-	5	20	4	25571	1302280
South & West walls	15:55	3	-	5	20	4	33	132152
North & East walls	16:00	4	-	5	20	4	871	3564
Bottom	16:03	5	-	5	20	4	791	3164

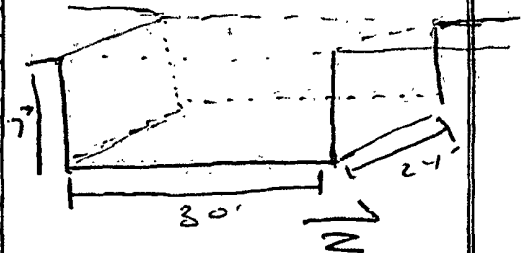
## SPILL PERIMETER

OVM  
RESULTS

## SPILL PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)	
100 STD	100 ppm	
1	299 ppm	
2	327	
3	1.7	
4	735	
5	481	
LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME



TRAVEL NOTES: CALLED OUT:

ONSITE: 14:00 / 16:30

Talked w/ Shelly 07:30 3-6-12

- Delayed results

- Shelly inquired if Remediator can need to be utilized w/ bigger equipment

° I agreed due to limited reach w/ on site bucket.

- Chloride levels  $\leq 250$  per Shelly.

- Shelly requesting 8021 on south west wall  
on next sampling event.  
as well as isolate north & east walls.

Client:

ConocoPhillips


**envirotech**  
 (505) 632-0615 (800) 362-1679

8798 U.S. Hwy 64, Farmington, NM 87401

Project No:

9215-2125

COC No:

13705

## FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1

DATE STARTED: 4-9-12

DATE FINISHED: 4-9-12

ENVIRONMENTAL

SPECIALIST: F. Aragon

 LOCATION: NAME: Box Canyon Com WELL #: 1 (hBr)  
 QUAD/UNIT: N 15 SEC 25N T2W R16W PM: CNTY: LA ST: NM  
 QTR/FOOTAGE: 1200S / 720 W CONTRACTOR: Montoya Trucking

EXCAVATION APPROX: 500 SKEIN FT. X FT. X 10 FT. DEEP CUBIC YARDAGE:

DISPOSAL FACILITY: T &amp; T Land farm / Lyndri. H. N. REMEDIATION METHOD: Land farm

LAND USE: Ramp LEASE: SP-07884 LAND OWNER: Fed

CAUSE OF RELEASE: BGT Release MATERIAL RELEASED: Produced water

SPILL LOCATED APPROXIMATELY: 110 FT. 110 333° FROM W. H. (Paved)

DEPTH TO GROUNDWATER: 4.00' (6) NEAREST WATER SOURCE: 2.16 m NEAREST SURFACE WATER: 500'

NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

## SOIL AND EXCAVATION DESCRIPTION:

- Sandstone @ 10' BGS

- Called Shelly @ 10:20, relayed results, she requested bottom? East well analyzed in Lab

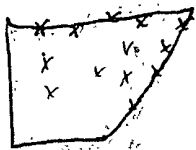
- Called Shelly @ 11:17 w/ North well result

SAMPLE DESCRIPTION	TIME	SAMPLE ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
500 STD	9:22	300 STD	-	-	-	-	505	-
Bottom Layer P.	9:55	1	-	5	20	4	302	1208
North well	9:57	2	-	5	20	4	1362	5468
East well	10:00	3	-	5	20	4	509	2036
North well Extd 4'	11:07	4	-	5	20	4	72	88

## SPILL PERIMETER

## OVM RESULTS

## SPILL PROFILE

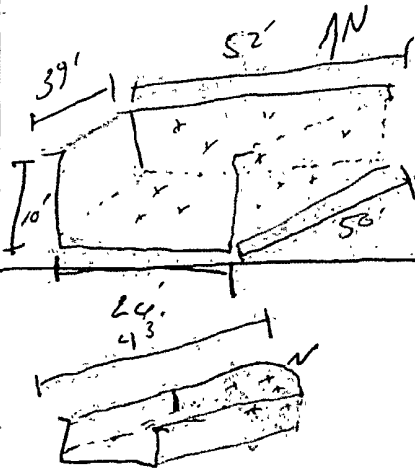


1N

SAMPLE ID	FIELD HEADSPACE PID (ppm)
100 STD	100 ppm
1	23.5
2	372
3	37.6
4	5.2

## LAB SAMPLES

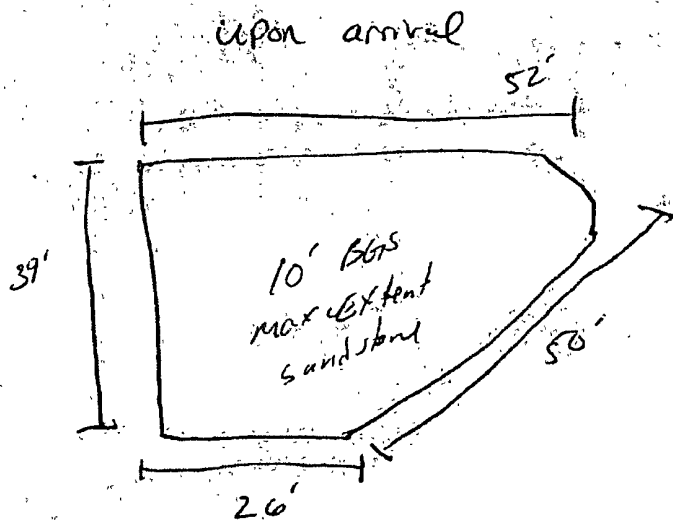
SAMPLE ID	ANALYSIS	TIME
1	80.8	9:56
3	80.5	9:58
	PUSH	



TRAVEL NOTES: CALLED OUT:

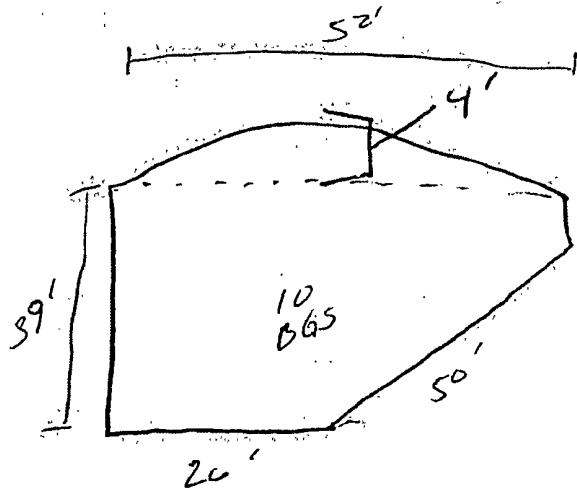
ONSITE:

9:00 / 11:45

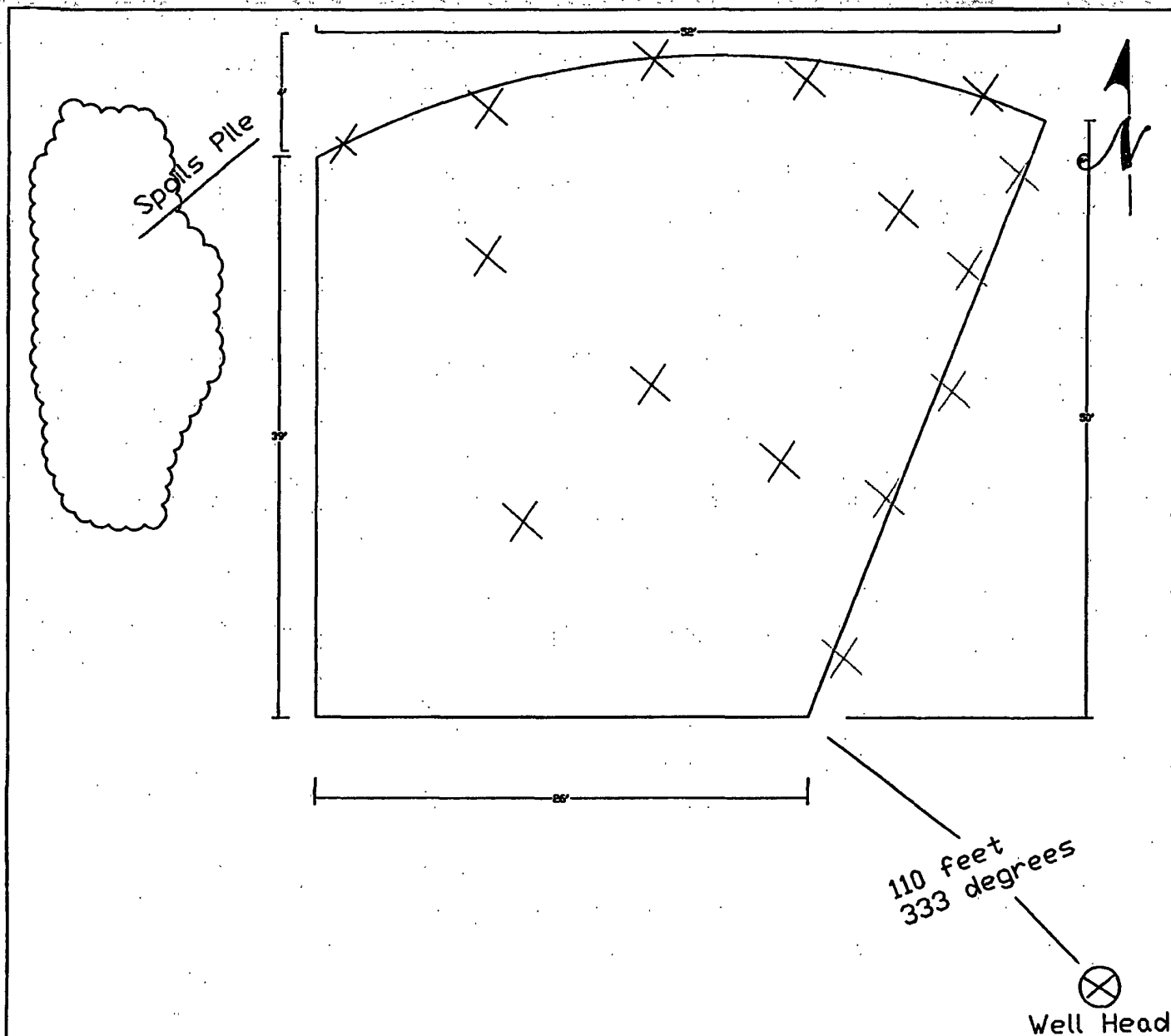


N7

North Wall Extended e 1030



N7



Sample ID / TPH ppm / OV ppm

X=Bottom Comp @10'BGS / 77ppm / 23.5ppm

X=North Wall Wall/88ppm / 5.2ppm

X=East Wall/163ppm / 37.6ppm

**ConocoPhillips  
Confirmation Sampling**  
Box Canyon Com #1 (hBr)  
Rio Arriba County, NM

SCALE: NTS

PROJECT NO92115-2125

FIGURE NO. 1

REV  
1

REVISIONS

4-09-12	FRA	Excavation Dimensions	
NO.	DATE	BY	DESCRIPTION
MAP DRWN	FRA	4-09-12	BASE DRWN 3-8-12



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615





EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-2125
Sample No.:	1	Date Reported:	4/19/2012
Sample ID:	Excavation Composite @ 7' BGS	Date Sampled:	3/5/2012
Sample Matrix:	Soil	Date Analyzed:	3/5/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

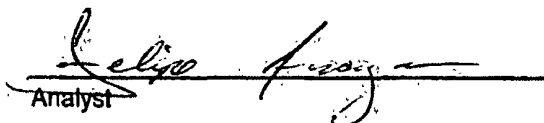
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	3,030	5.0

ND = Parameter not detected at the stated detection limit.

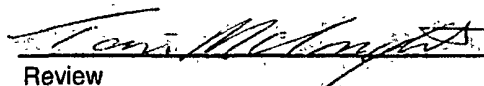
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Box Canyon Com #1 (hBr)**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
Analyst

Felipe Aragon  
Printed

  
Review

Toni McKnight, EIT  
Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2125
Sample No.:	2	Date Reported:	4/19/2012
Sample ID:	Spoils Pile	Date Sampled:	3/5/2012
Sample Matrix:	Soil	Date Analyzed:	3/5/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		


Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	2,280	5.0

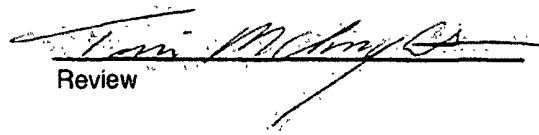
ND = Parameter not detected at the stated detection limit.

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

Comments: **Box Canyon Com #1 (hBr)**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
Analyst  
  
Felipe Aragon  
Printed

  
Review  
  
Toni McKnight, EIT  
Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2125
Sample No.:	3	Date Reported:	4/19/2012
Sample ID:	South & West Walls	Date Sampled:	3/5/2012
Sample Matrix:	Soil	Date Analyzed:	3/5/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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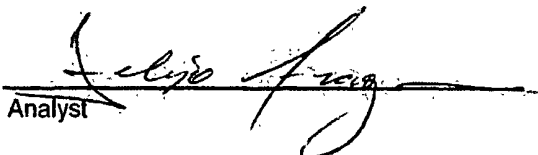
Total Petroleum Hydrocarbons	152	5.0
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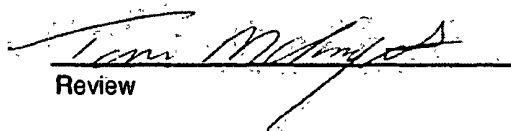
ND = Parameter not detected at the stated detection limit.

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

Comments: **Box Canyon Com #1 (hBr)**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
Analyst  
  
Felipe Aragon  
Printed

  
Review  
  
Toni McKnight, EIT  
Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2125
Sample No.:	4	Date Reported:	4/19/2012
Sample ID:	North & East Walls	Date Sampled:	3/5/2012
Sample Matrix:	Soil	Date Analyzed:	3/5/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

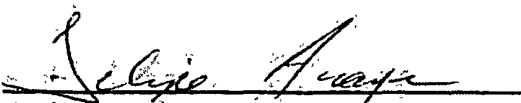
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	3,560	5.0

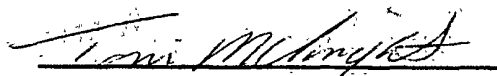
ND = Parameter not detected at the stated detection limit.

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

Comments: **Box Canyon Com #1 (hBr)**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
Analyst  
  
Felipe Aragon  
Printed

  
Review  
  
Toni McKnight, EIT  
Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2125
Sample No.:	5	Date Reported:	4/19/2012
Sample ID:	Bottom @ 7' BGS	Date Sampled:	3/5/2012
Sample Matrix:	Soil	Date Analyzed:	3/5/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	3,160	5.0
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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: **Box Canyon Com #1 (hBr)**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
Analyst

Felipe Aragon  
Printed

  
Review

Toni McKnight, EIT  
Printed



CONTINUOUS CALIBRATION  
EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Cal. Date: 5-Mar-12

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	199
	200	
	500	
	1000	

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

  
Analyst

4/19/2012  
Date

Felipe Aragon  
Print Name

  
Review

4/19/2012  
Date

Toni McKnight, EIT  
Print Name



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2125
Sample No.:	1	Date Reported:	4/19/2012
Sample ID:	Bottom Composite @ 10' BGS	Date Sampled:	4/9/2012
Sample Matrix:	Soil	Date Analyzed:	4/9/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

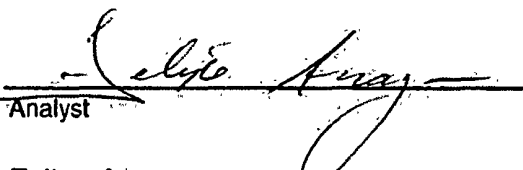
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,210	5.0

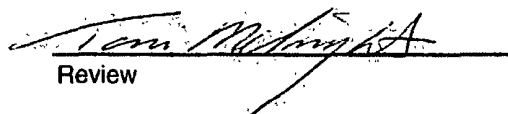
ND = Parameter not detected at the stated detection limit.

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

Comments: **Box Canyon Com #1 (hBr)**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
\_\_\_\_\_  
Analyst  
  
Felipe Aragon  
\_\_\_\_\_  
Printed

  
\_\_\_\_\_  
Review  
  
Toni McKnight, EIT  
\_\_\_\_\_  
Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2125
Sample No.:	2	Date Reported:	4/19/2012
Sample ID:	North Wall	Date Sampled:	4/9/2012
Sample Matrix:	Soil	Date Analyzed:	4/9/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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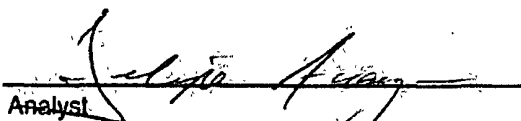
Total Petroleum Hydrocarbons	5,470	5.0
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ND = Parameter not detected at the stated detection limit.

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

Comments: **Box Canyon Com #1 (hBr)**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
Analyst

Felipe Aragon  
Printed

  
Review

Toni McKnight, EIT  
Printed





**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2125
Sample No.:	3	Date Reported:	4/19/2012
Sample ID:	East Wall	Date Sampled:	4/9/2012
Sample Matrix:	Soil	Date Analyzed:	4/9/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

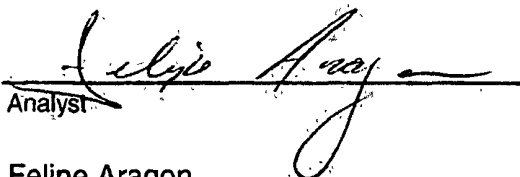
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	2,040	5.0

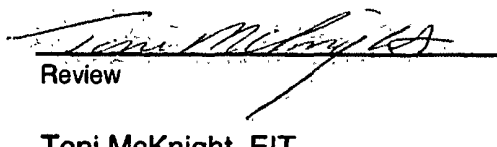
ND = Parameter not detected at the stated detection limit.

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

Comments: **Box Canyon Com #1 (hBr)**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
Analyst  
  
Felipe Aragon  
Printed

  
Review  
  
Toni McKnight, EIT  
Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2125
Sample No.:	4	Date Reported:	4/19/2012
Sample ID:	North Wall Extended 4'	Date Sampled:	4/9/2012
Sample Matrix:	Soil	Date Analyzed:	4/9/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	88	5.0
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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: **Box Canyon Com #1 (hBr)**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
Analyst

Felipe Aragon

Printed

  
Review

Toni McKnight, EIT

Printed



CONTINUOUS CALIBRATION  
EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Cal. Date: 9-Apr-12

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	505
	200	
	500	
	1000	

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

  
Analyst

4/19/2012  
Date

Felipe Aragon

Print Name

  
Review

4/19/2012  
Date

Toni McKnight, EIT

Print Name



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

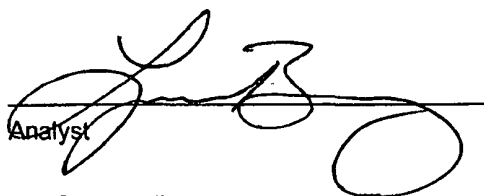
Client:	ConocoPhillips	Project #:	92115-2125
Sample ID:	Bottom Comp @ 10' BGS	Date Reported:	04-10-12
Laboratory Number:	61629	Date Sampled:	04-09-12
Chain of Custody No:	13705	Date Received:	04-09-12
Sample Matrix:	Soil	Date Extracted:	04-09-12
Preservative:	Cool	Date Analyzed:	04-10-12
Condition:	Intact	Analysis Requested:	8015 TPH
		Dilution:	3

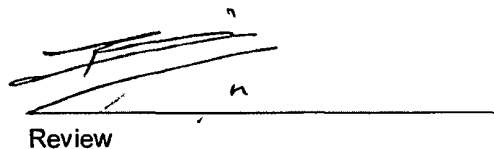
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	77.0	0.1
Total Petroleum Hydrocarbons	77.0	

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: **Confirmation Sampling/ Box Canyon Com #1**

  
Analyst

  
Review



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

Client:	ConocoPhillips	Project #:	92115-2125
Sample ID:	East Wall Comp'	Date Reported:	04-10-12
Laboratory Number:	61630	Date Sampled:	04-09-12
Chain of Custody No:	13705	Date Received:	04-09-12
Sample Matrix:	Soil	Date Extracted:	04-09-12
Preservative:	Cool	Date Analyzed:	04-10-12
Condition:	Intact	Analysis Requested:	8015 TPH
		Dilution:	3

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	163	0.1
Total Petroleum Hydrocarbons	163	

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: **Confirmation Sampling/ Box Canyon Com #1**

Analyst

Review



EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0410TCAL QA/QC	Date Reported:	04-10-12
Laboratory Number:	61622	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-10-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	04-10-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	04-10-12	9.9960E+02	1.0000E+03	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	

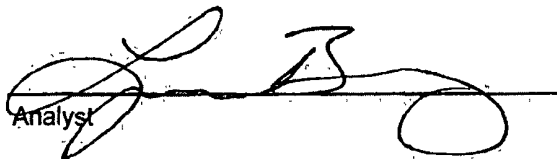
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	406	404	0.5%	0 - 30%

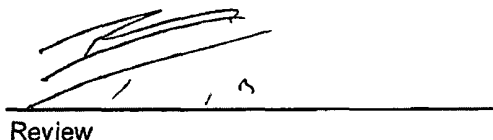
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	281	112%	75 - 125%
Diesel Range C10 - C28	406	250	665	101%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Was  
SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 61615, 61622-61626 and 61629-61630

Analyst 

Review 

Rush

## CHAIN OF CUSTODY RECORD

13705

Client: <u>Concepcion Phillips</u>			Project Name / Location: <u>Construction Sampling / Box Center Cont #1</u>			ANALYSIS / PARAMETERS													
Email results to: <u>F. Aragon</u>			Sampler Name: <u>F. Aragon</u>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: <u>92115-2125</u>																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative														
					HgCl <sub>2</sub>	HCl	Lead												
<u>Bottom Comp C10 BGS</u>	<u>4-9-12</u>	<u>9:50</u>	<u>611629</u>	<u>1-402</u>			<u>X</u>	<u>X</u>										<u>X</u>	<u>X</u>
<u>East Wall Comp</u>	<u>4-9-12</u>	<u>9:55</u>	<u>611630</u>	<u>1-402</u>			<u>X</u>	<u>X</u>										<u>X</u>	<u>X</u>
Relinquished by: (Signature) <u>[Signature]</u>				Date	Time	Received by: (Signature) <u>[Signature]</u>				Date	Time								
Relinquished by: (Signature) <u>[Signature]</u>				<u>4-9-12</u>	<u>13:45</u>	Received by: (Signature) <u>[Signature]</u>				<u>4-9-12</u>	<u>13:45</u>								
Sample Matrix																			
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			

Rush


**envirotech**  
 Analytical Laboratory

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