

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 Burlington Resources Oil & Gas Company	Contact Crystal Tafoya
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9837
Facility Name: San Juan 32-9 Unit 14C	Facility Type: 30-045-30112

Surface Owner BLM	Mineral Owner BLM (SF-080376)	API No. 30-045-30112
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LOCATION OF RELEASE

Unit Letter J	Section 9	Township 31N	Range 9W	Feet from the 1815	North/South Line South	Feet from the 1525	East/West Line East	County San Juan
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Latitude 36.91027 Longitude 107.78133

NATURE OF RELEASE

Type of Release Produced Water/Oil	Volume of Release 3bbls/2bbls	Volume Recovered 2bbls/1.5bbls
Source of Release Production Pit	Date and Hour of Occurrence Unknown	Date and Hour of Discovery August 26, 2013 at 1:25PM
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	RCVD NOV 6 '13
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. OIL CONS. DIV. DIST. 3	

If a Watercourse was Impacted, Describe Fully.*
N/A

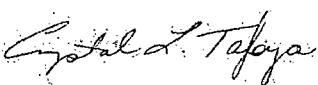
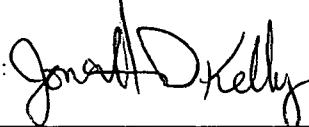
Describe Cause of Problem and Remedial Action Taken.*

92bbl production pit overflowed allowing 3bbls of produced water and 2bbls of oil to release into the containment. The well was immediately shut-in and a water truck called to location was able to recover 2bbls produced water and 1.5bbls oil. The release did not leave containment.

Describe Area Affected and Cleanup Action Taken.*

NMOCD action levels for releases are specified in NMOCD's Guidelines for Leaks, Spills and Releases and the release was assigned a ranking score of 20. An excavation 40' x 15' x 2' and 45 cubic yards of soil was transported to a third party landfarm. Excavation and confirmation sampling occurred. Analytical results for TPH, BTEX and Chlorides were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required. The final report is attached for review

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: 	OIL CONSERVATION DIVISION	
Printed Name: Crystal Tafoya	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 8/27/2014	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 11/4/2013 Phone: (505) 326-9837		

* Attach Additional Sheets If Necessary

n JK1423952975

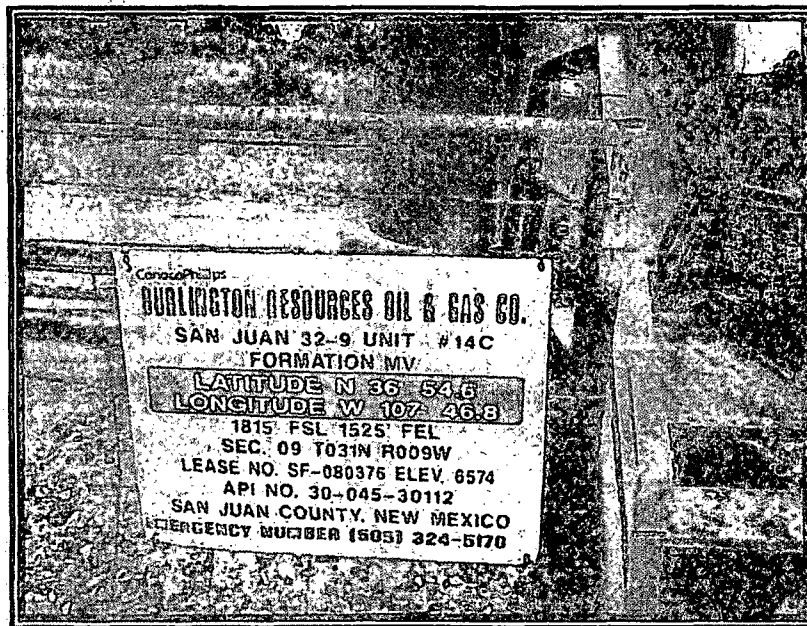
38

SPILL ASSESSMENT AND CONFIRMATION SAMPLING REPORT

RCVD NOV 6 '13
OIL CONS. DIV.
DIST. 3

LOCATION:
CONOCOPHILLIPS
SAN JUAN 32-9 #14C (HBR)
SECTION 9, TOWNSHIP 31 NORTH, RANGE 9 WEST
SAN JUAN COUNTY, NEW MEXICO

CONTRACTED BY:
CONOCOPHILLIPS
MS. CRYSTAL TAFOYA
3401 EAST 30TH STREET
FARMINGTON, NEW MEXICO 87402



PROJECT NUMBER 92115-2484
AUGUST 2013

CONOCOPHILLIPS
SPILL ASSESSMENT AND CONFIRMATION SAMPLING REPORT
SAN JUAN 32-9 #14C (HBR) WELL SITE
SECTION 9, TOWNSHIP 31 NORTH, RANGE 9 WEST
SAN JUAN COUNTY, NEW MEXICO

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	Figure 3, Confirmation Sampling Map
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	Appendix B, Field Notes

INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by ConocoPhillips to provide spill assessment and confirmation sampling activities due to a spill of approximately five (5) barrels (BBL) of produced water and used lube oil at the San Juan 32-9 14C (hBr) well site located in Section 9, Township 31 North, Range 9 West, San Juan County, New Mexico; see **Figure 1, Vicinity Map**. The release covered an area of approximately 45 feet by 10 feet by six (6) inches deep and was excavated to the extents of 40 feet by 15 feet by two (2) feet deep; see **Figure 2, Spill Assessment Map, Figure 3, Confirmation Sampling Map** and **Appendix B, Field Notes**. Activities included sample collection and analysis, documentation and reporting.

ACTIVITIES PERFORMED

Envirotech, Inc. was contacted on August 29, 2013, with a request to respond to a release from an above-ground storage tank (AST) that occurred at the above referenced location. Upon arrival, a brief site assessment was conducted. Depth to groundwater was greater than 100 feet, the nearest surface water was less than 200 feet, and the release area was not located within a wellhead protection area. Therefore, the regulatory standards for the site were determined to be 100 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

A total of four (4) samples were collected from within the release area; one (1) surface composite sample, one (1) sample at six (6) inches below ground surface (BGS), one (1) sample at two (2) feet BGS, and one (1) sample at five (5) feet BGS. All samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). Additionally, the surface composite sample was screened in the field for chlorides. All sample test results were above regulatory standards for TPH, but below the standards for organic vapors. The chloride results on the surface composite sample was 195 mg/L; see **Table 1, Summary of Analytical Results, Appendix A, Analytical Results** and **Appendix B, Field Notes**. The area of release was estimated to be approximately 45 feet by 10 feet by six (6) inches deep.

Envirotech personnel returned to the site on September 6, 2013, for confirmation sampling activities. Prior to arrival, the spill area had been excavated to the extents of approximately 40 feet by 15 feet by two (2) feet deep. During the assessment of the excavation a leak from the valve was observed. A sample was collected from the saturated area and was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The sample returned results of non-detect (ND). Six (6) composite samples were collected from the excavation area; one from the Bottom West, one (1) from the Bottom East and one (1) each from the four (4) walls of the excavated area. All samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. All six (6) samples returned results below regulatory standard for organic vapors. Five (5) of the seven (6) samples analyzed for

TPH returned results at or above regulatory standard; the Bottom West, the Bottom East, the North Wall, the South Wall and the West Wall; see enclosed see *Table 1, Summary of Analytical Results, Appendix A, Analytical Results* and *Appendix B, Field Notes*. These five (5) samples were placed in 4-ounce 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. All samples resulted in non-detect (ND) for TPH; see *Table 1, Summary of Analytical Results* and *Appendix A, Analytical Results*.

SUMMARY AND CONCLUSIONS

Spill assessment and confirmation activities were performed for a release of approximately five (5) BBL of produced water and used lube oil at the San Juan 32-9 14C (hBr) well site located in Section 9, Township 31 North, Range 9 West, San Juan County, New Mexico. Envirotech, Inc. recommends the repair of the leaking AST.

STATEMENT OF LIMITATIONS

Envirotech, Inc. has completed spill assessment activities at the San Juan 32-9 14C (hBr) well site located in Section 9, Township 31 North, Range 9 West, San Juan County, New Mexico. The work and services provided by Envirotech, Inc. were in accordance with the New Mexico Oil Conservation Division (NMOCD) standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the incident.

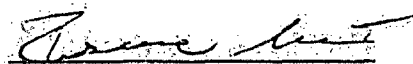
The undersigned has conducted this service at the above referenced site; this work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry and hydrogeology.

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.

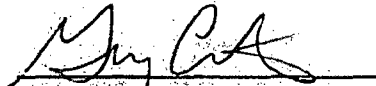
Respectfully Submitted,

Reviewed by:

ENVIROTECH, INC.



Isaac Garcia
Environmental Field Technician
igarcia@envirotech-inc.com



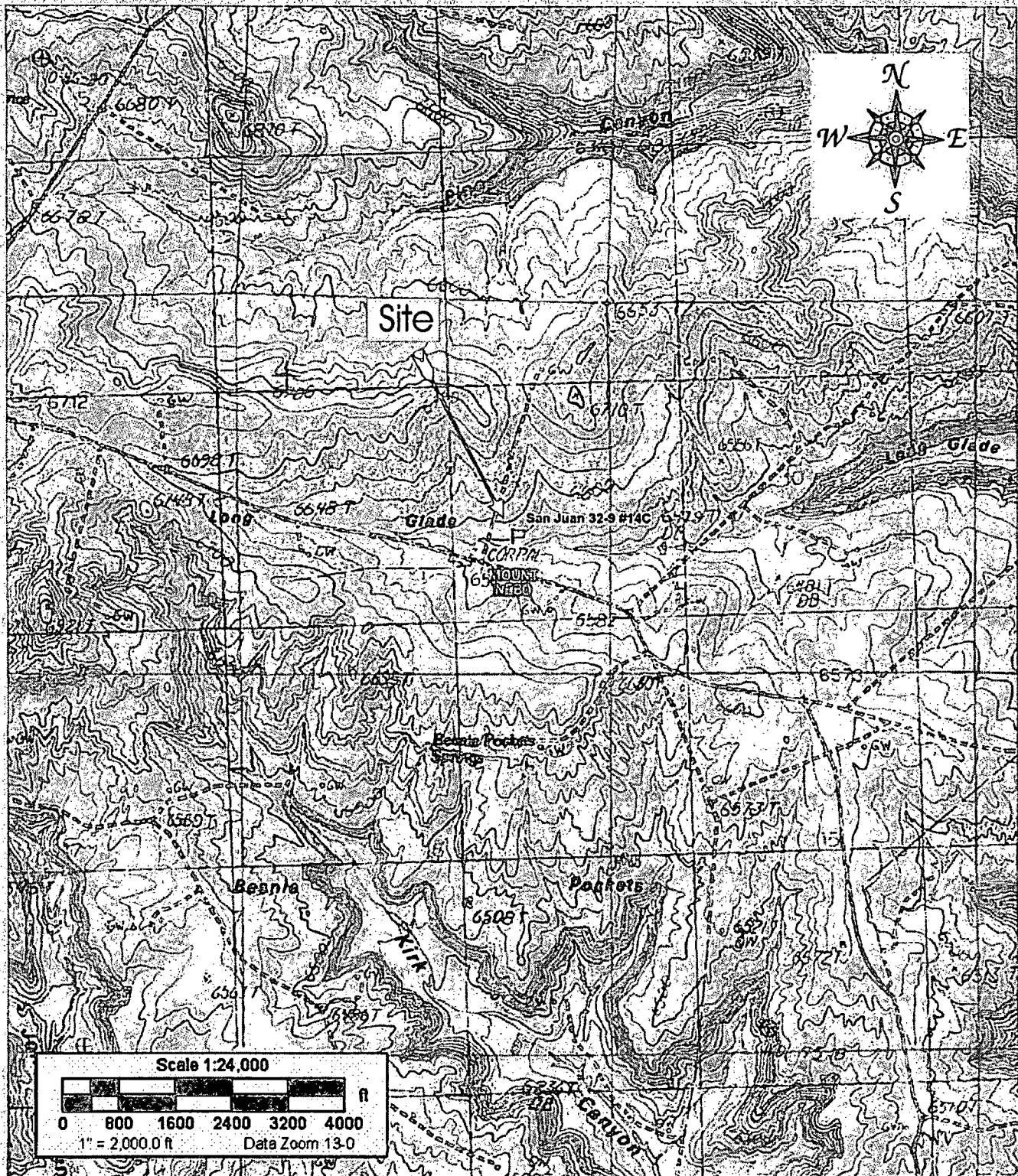
Greg Crabtree, PE
Environmental Manager
gcrabtree@envirotech-inc.com

FIGURES

Figure 1, Vicinity Map

Figure 2, Spill Assessment Map

Figure 3, Confirmation Sampling Map



Source: 7.5 Minute, Mount Nebo, Colorado U.S.G.S. Topographic Quadrangle Map
 Scale: 1:24,000 1" = 2000'

ConocoPhillips
 San Juan 32-9 #14C (hBr)
 Section 9, Township 31N, Range 9W
 San Juan, Colorado



5796 U.S. HIGHWAY 64
 Farmington, New Mexico 87401
 505.632.0615

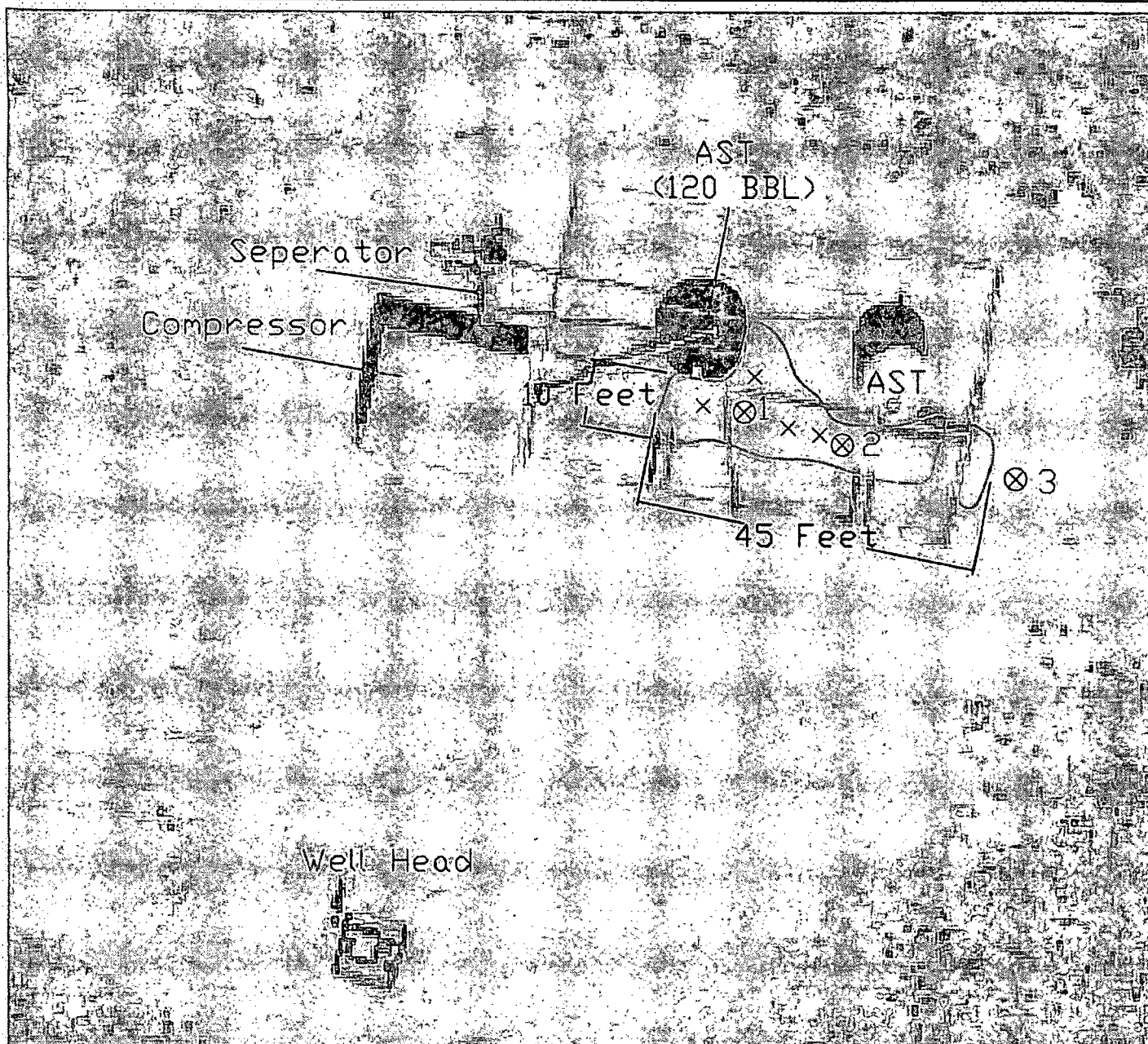
Vicinity Map

Figure #1

PROJECT Number: 92115-2484 Date Drawn: 10/18/13

DRAWN BY:
 Tiffany McIntosh

PROJECT MANAGER:
 Greg Crabtree



LEGEND

- ⊗ Composite Sample Surface
TPH: 22,100 ppm
Organic Vapor: 10.3 ppm
- ⊗ Depth Samples
Sample 1: 2' BGS
TPH: 152 ppm; OV: 0.0 ppm
Sample 2: 6" BGS
TPH: 120 ppm; OV: 0.0 ppm
Sample 3: 5' BGS
TPH: 324 ppm; 0.0 ppm

SITE ASSESSMENT MAP CONOCOPHILLIPS

SAN JUAN 32-9 #14C (hBr)
SECTION 9, TOWNSHIP 31N, RANGE 9W
SAN JUAN COUNTY, NEW MEXICO

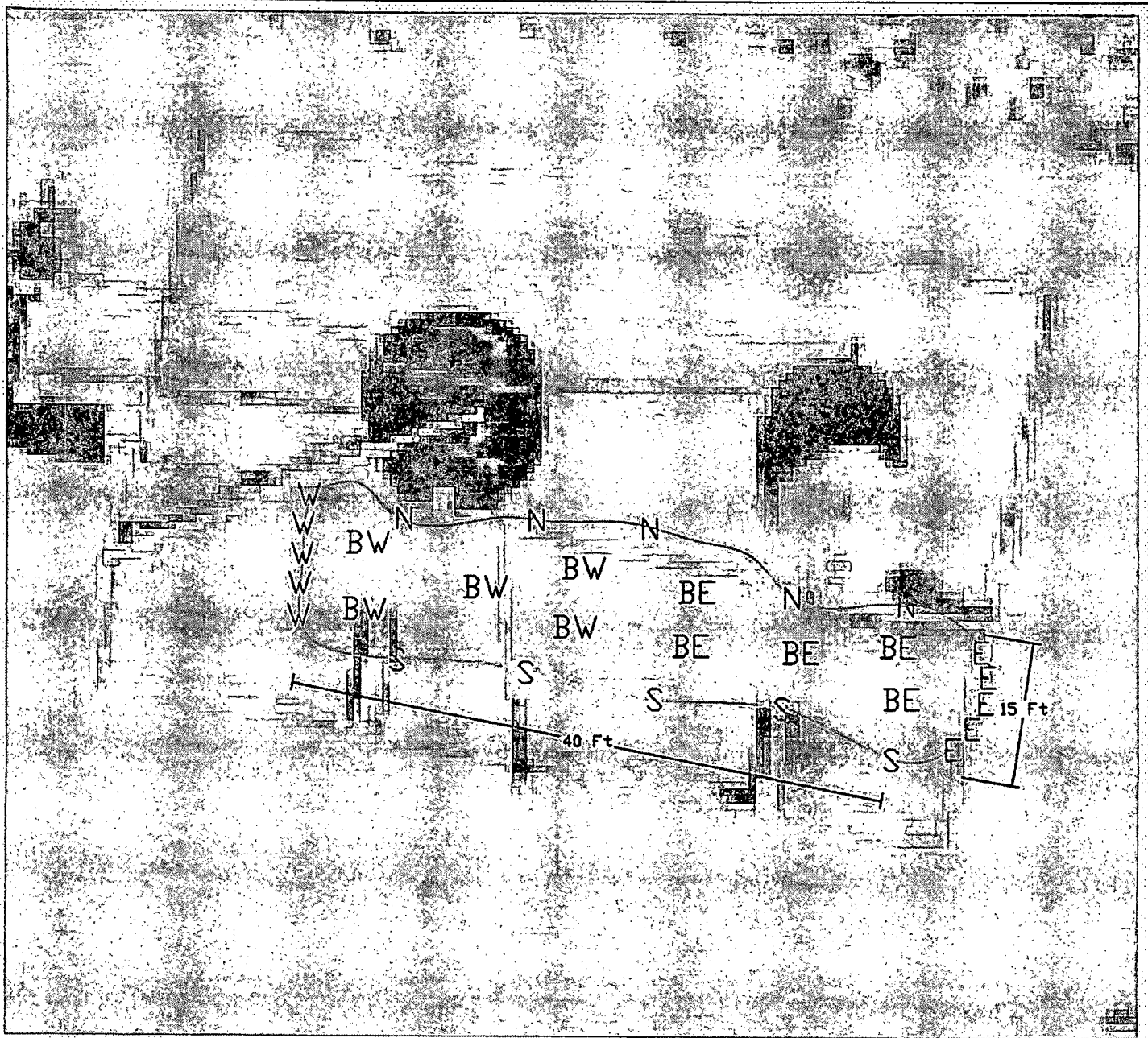
SCALE: NTS	FIGURE NO. 2	REV
PROJECT NO92115-2484		

REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	TM	8/29/2013	BASE DRWN

ENVIRONMENTAL SCIENTISTS & ENGINEERS
ENVIROTECH

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87410 505-632-0615



LEGEND

- BW, BE Composite Bottom Samples
- W,N,E,S Composite Wall Samples
- Excavated Area
(40'x15'x2' Deep)

CONFIRMATION SAMPLING MAP CONOCOPHILLIPS

SAN JUAN 32-9 #14C (hBr)
SECTION 9, TOWNSHIP 31N, RANGE 9W
SAN JUAN COUNTY, NEW MEXICO

SCALE: NTS	FIGURE NO. 3	REV
PROJECT N092115-2484		

REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	TM	8/29/2013	BASE DRWN

ENVIRONMENTAL SCIENTISTS & ENGINEERS
ENVIROTECH

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87410 505-632-0615

TABLES

Table 1, Summary of Analytical Results

Table 1, Summary of Analytical Results

ConocoPhillips

San Juan 32-9 #14C (hBr)

Spill Assessment and Closure Report

Project Number 92115-2484

Date	Sample Description	Sample Number	PID OV (ppm)	418.1 TPH (ppm)	Chlorides (ppm)	Method 8015 TPH (ppm)
NA	New Mexico Oil Conservation Division Standards	NA	100	100	NA	100
8/29/2013	Soil 6" BGS	1	ND	120	NS	NS
8/29/2013	Soil 2' BGS	2	ND	152	NS	NS
8/29/2013	Soil 5' BGS	3	ND	324	NS	NS
8/29/2013	Surface Comp.	4	10.3	22000	195	NS
9/6/2013	Bottom West Composite	1	1.8	124	ND	ND
9/6/2013	Bottom East Composite	2	2.2	192	ND	ND
9/6/2013	North Wall Composite	3	1.9	100	ND	ND
9/6/2013	South Wall Composite	4	2.1	112	ND	ND
9/6/2013	West Wall Composite	5	2.1	116	ND	ND
9/6/2013	East Wall Composite	6	1.8	92	NS	NS
9/6/2013	Visible Leak by AST	7	2.5	96	NS	NS

*Values in **BOLD** above regulatory limits

*Closure Sample

*NS - Parameter not sampled *ND - Parameter not detected

APPENDIX A

Analytical Results



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 1
Sample ID: 6" BGS
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-2484
Date Reported: 8/30/2013
Date Sampled: 8/29/2013
Date Analyzed: 8/29/2013
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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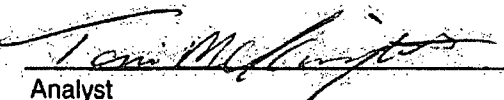
Total Petroleum Hydrocarbons	120	5.0
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ND = Parameter not detected at the stated detection limit.

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

Comments: **San Juan 32-9 # 14C**

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


Analyst

Toni McKnight, EIT
Printed


Review

Felipe Aragon
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 2
Sample ID: 2' BGS
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-2484
Date Reported: 8/30/2013
Date Sampled: 8/29/2013
Date Analyzed: 8/29/2013
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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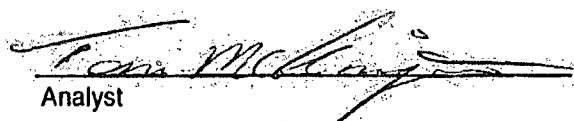
Total Petroleum Hydrocarbons	152	5.0
------------------------------	-----	-----

ND = Parameter not detected at the stated detection limit.

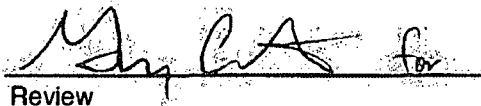
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 32-9 # 14C**

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


Analyst

Toni McKnight, EIT
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Felipe Aragon
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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 3
Sample ID: 5' BGS
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-2484
Date Reported: 8/30/2013
Date Sampled: 8/29/2013
Date Analyzed: 8/29/2013
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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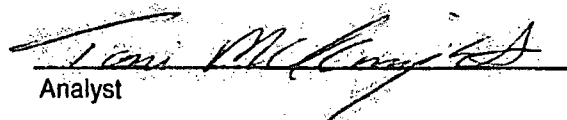
Total Petroleum Hydrocarbons	324	5.0
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ND = Parameter not detected at the stated detection limit.

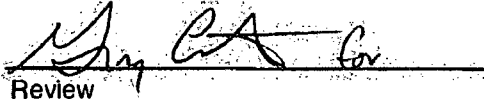
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 32-9 # 14C**

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


Analyst

Toni McKnight, EIT
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Felipe Aragon
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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 4
Sample ID: Surface Comp.
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-2484
Date Reported: 8/30/2013
Date Sampled: 8/29/2013
Date Analyzed: 8/29/2013
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	22,200	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 32-9 # 14C**

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


Analyst

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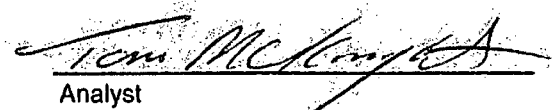


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

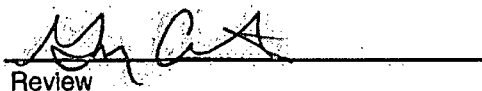
Cal. Date: 29-Aug-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	202
	500	
	1000	

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


Analyst

Toni McKnight, EIT
Print Name


Review

Felipe Aragon
Print Name

8/30/2013
Date

8/30/2013
Date



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2484
Sample No.:	1	Date Reported:	10/17/2013
Sample ID:	Bottom West Composite	Date Sampled:	9/6/2013
Sample Matrix:	Soil	Date Analyzed:	9/6/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	124	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 32-9 # 14C**

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



Analyst

Isaac Garcia

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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2484
Sample No.:	2	Date Reported:	10/17/2013
Sample ID:	Bottom East Composite	Date Sampled:	9/6/2013
Sample Matrix:	Soil	Date Analyzed:	9/6/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	192	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 32-9 # 14C**

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


Analyst

Isaac Garcia
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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2484
Sample No.:	3	Date Reported:	10/17/2013
Sample ID:	North Wall Composite	Date Sampled:	9/6/2013
Sample Matrix:	Soil	Date Analyzed:	9/6/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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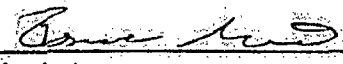
Total Petroleum Hydrocarbons	100	5.0
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ND = Parameter not detected at the stated detection limit.

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

Comments: **San Juan 32-9 # 14C**

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



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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2484
Sample No.:	4	Date Reported:	10/17/2013
Sample ID:	South Wall Composite	Date Sampled:	9/6/2013
Sample Matrix:	Soil	Date Analyzed:	9/6/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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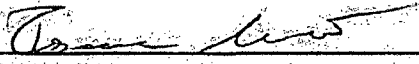
Total Petroleum Hydrocarbons	112	5.0
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ND = Parameter not detected at the stated detection limit.

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

Comments: **San Juan 32-9 # 14C**


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



Analyst

Isaac Garcia

Printed



Review

Toni McKnight, EIT

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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 5
Sample ID: West Wall Composite
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-2484
Date Reported: 10/17/2013
Date Sampled: 9/6/2013
Date Analyzed: 9/6/2013
Analysis Needed: TPH-418.1

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

Total Petroleum Hydrocarbons

116


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 32-9 # 14C**

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



Analyst

Isaac Garcia

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Toni McKnight, EIT

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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-2484
Sample No.:	6	Date Reported:	10/17/2013
Sample ID:	East Wall Composite	Date Sampled:	9/6/2013
Sample Matrix:	Soil	Date Analyzed:	9/6/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

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

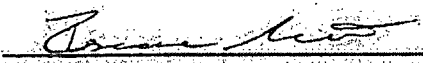
Total Petroleum Hydrocarbons	92	5.0
------------------------------	----	-----

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 32-9 # 14C**

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



Analyst

Isaac Garcia

Printed



Review

Toni McKnight, EIT

Printed




CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 6-Sep-13

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

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


Analyst

10/17/2013
Date

Isaac Garcia
Print Name


Review

10/17/2013
Date

Toni McKnight, EIT
Print Name



Analytical Report

Report Summary

Client: ConocoPhillips

Chain Of Custody Number: 16059

Samples Received: 9/6/2013 2:35:00PM

Job Number: 92115-2484

Work Order: P309039

Project Name/Location: San Juan 32-9 #14C

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 9/17/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: San Juan 32-9 #14C
Project Number: 92115-2484
Project Manager: Isaac Garcia

Reported:
17-Sep-13 16:58

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BEC	P309039-01A	Soil	09/06/13	09/06/13	Glass Jar, 4 oz.
BWC	P309039-02A	Soil	09/06/13	09/06/13	Glass Jar, 4 oz.
WWC	P309039-03A	Soil	09/06/13	09/06/13	Glass Jar, 4 oz.
SWC	P309039-04A	Soil	09/06/13	09/06/13	Glass Jar, 4 oz.
NWC	P309039-05A	Soil	09/06/13	09/06/13	Glass Jar, 4 oz.

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Analytical Laboratory

ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: San Juan 32-9 #14C
Project Number: 92115-2484
Project Manager: Isaac Garcia

Reported:
17-Sep-13 16:58

BEC
P309039-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	0.999	1338001	16-Sep-13	16-Sep-13	16-Sep-13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	5.00	mg/kg	0.999	1338001	16-Sep-13	16-Sep-13	16-Sep-13	EPA 8015D	
GRO and DRO Combined Fractions	ND	5.00	mg/kg	0.999	1338001	16-Sep-13	16-Sep-13	16-Sep-13	EPA 8015D	
Cation/Anion Analysis										
Chloride	ND	9.97	mg/kg	9.970	1338003	16-Sep-13	16-Sep-13	16-Sep-13	EPA 300.0	

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: San Juan 32-9 #14C
Project Number: 92115-2484
Project Manager: Isaac Garcia

Reported:
17-Sep-13 16:58

BWC
P309039-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	0.998	1338001	16-Sep-13	16-Sep-13	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	4.99	mg/kg	0.998	1338001	16-Sep-13	16-Sep-13	EPA 8015D		
GRO and DRO Combined Fractions	ND	4.99	mg/kg	0.998	1338001	16-Sep-13	16-Sep-13	EPA 8015D		
Cation/Anion Analysis										
Chloride	ND	9.91	mg/kg	9.911	1338003	16-Sep-13	16-Sep-13	EPA 300.0		

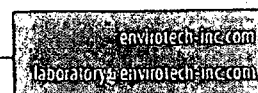
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PO Box 2200
Bartlesville OK, 74005

Project Name: San Juan 32-9 #14C
Project Number: 92115-2484
Project Manager: Isaac Garcia

Reported:
17-Sep-13 16:58

WWC
P309039-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1.000	1338001	16-Sep-13	16-Sep-13	16-Sep-13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	5.00	mg/kg	1.000	1338001	16-Sep-13	16-Sep-13	16-Sep-13	EPA 8015D	
GRO and DRO Combined Fractions	ND	5.00	mg/kg	1.000	1338001	16-Sep-13	16-Sep-13	16-Sep-13	EPA 8015D	
Cation/Anion Analysis										
Chloride	ND	9.95	mg/kg	9.950	1338003	16-Sep-13	16-Sep-13	16-Sep-13	EPA 300.0	

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Analytical Laboratory

ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: San Juan 32-9 #14C
Project Number: 92115-2484
Project Manager: Isaac Garcia

Reported:
17-Sep-13 16:58

SWC

P309039-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	0.999	1338001	16-Sep-13	16-Sep-13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	5.00	mg/kg	0.999	1338001	16-Sep-13	16-Sep-13	EPA 8015D	
GRO and DRO Combined Fractions	ND	5.00	mg/kg	0.999	1338001	16-Sep-13	16-Sep-13	EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	9.99	mg/kg	9.990	1338003	16-Sep-13	16-Sep-13	EPA 300.0	

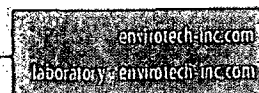
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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: San Juan 32-9 #14C
Project Number: 92115-2484
Project Manager: Isaac Garcia

Reported:
17-Sep-13 16:58

NWC

P309039-05 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	0.999	1338001	16-Sep-13	16-Sep-13	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	4.99	mg/kg	0.999	1338001	16-Sep-13	16-Sep-13	EPA 8015D		
GRO and DRO Combined Fractions	ND	4.99	mg/kg	0.999	1338001	16-Sep-13	16-Sep-13	EPA 8015D		
Cation/Anion Analysis										
Chloride	ND	9.96	mg/kg	9.960	1338003	16-Sep-13	16-Sep-13	EPA 300.0		

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ConocoPhillips	Project Name:	San Juan 32-9 #14C	Reported:
PO Box 2200	Project Number:	92115-2484	17-Sep-13 16:58
Bartlesville OK, 74005	Project Manager:	Isaac Garcia	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1338001 - GRO/DRO Extraction EPA 3550C

Blank (1338001-BLK1)

Prepared & Analyzed: 16-Sep-13

Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg
Diesel Range Organics (C10-C28)	ND	4.99	"
GRO and DRO Combined Fractions	ND	4.99	"

Duplicate (1338001-DUP1)

Source: P309039-01

Prepared & Analyzed: 16-Sep-13

Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	ND	30
Diesel Range Organics (C10-C28)	ND	5.00	"	ND	30

Matrix Spike (1338001-MS1)

Source: P309039-01

Prepared & Analyzed: 16-Sep-13

Gasoline Range Organics (C6-C10)	268	5.26	mg/kg	263	ND	102	75-125
Diesel Range Organics (C10-C28)	276	5.26	"	263	ND	105	75-125

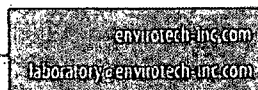
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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: San Juan 32-9 #14C
Project Number: 92115-2484
Project Manager: Isaac Garcia

Reported:
17-Sep-13 16:58

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1338003 - Anion Extraction EPA 300.0										
Blank (1338003-BLK1)				Prepared & Analyzed: 16-Sep-13						
Chloride	ND	9.94	mg/kg							
LCS (1338003-BS1)				Prepared & Analyzed: 16-Sep-13						
Chloride	511	9.98	mg/kg	499		102	90-110			
Matrix Spike (1338003-MS1)				Source: P309039-01		Prepared & Analyzed: 16-Sep-13				
Chloride	500	9.83	mg/kg	492	ND	102	80-120			
Matrix Spike Dup (1338003-MSD1)				Source: P309039-01		Prepared & Analyzed: 16-Sep-13				
Chloride	508	9.90	mg/kg	495	ND	103	80-120	1.72	20	

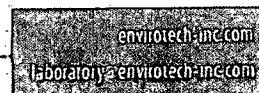
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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: San Juan 32-9 #14C
Project Number: 92115-2484
Project Manager: Isaac Garcia

Reported:
17-Sep-13 16:58

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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CHAIN OF CUSTODY RECORD

16059

Page 11 of 11

Client: COPC			Project Name / Location: San Juan 32-9th/42			ANALYSIS / PARAMETERS													
Email results to: Isaac / Felipe			Sampler Name: Isaac			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.: 92115-2484																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO ₃	HCl	Cool												
BEC	9/6	9:50	P30903A-01	1-4oz			X	X							X			Y	Y
BWC	9/6	9:55	P30903A-02	1-4oz			X	X							X			Y	Y
WWC	9/6	10:10	P30903A-03	1-4oz			X	X							X			Y	Y
SWC	9/6	10:08	P30903A-04	1-4oz			X	X							X			Y	Y
NWC	9/6	10:00	P30903A-05	1-4oz			X	X							X			Y	Y
Relinquished by: (Signature) [Signature]					Date 9/6	Time 2:35	Received by: (Signature) [Signature]					Date 9/6/13	Time 14:35						
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			

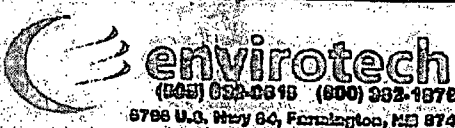
☐ Sample(s) dropped off after hours to secure drop off area.



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APPENDIX B

Field Notes

Client: Eno CO	 (603) 632-0315 (800) 232-1976 6798 U.S. Hwy 64, Farmington, ME 07401	Project No: 92415-2884 COC No:
-----------------------	---	--

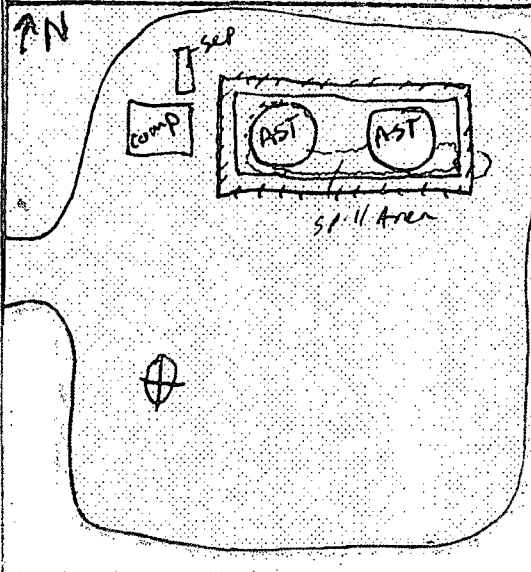
FIELD REPORT: SPILL CLOSURE VERIFICATION		PAGE NO: <u>1</u> OF <u>1</u>
LOCATION: NAME: <u>Saw Junn 32-9</u> WELL #: <u>14C</u>		DATE STARTED: <u>8/29/13</u>
QUAD/UNIT: <u>J</u> SEC: <u>9</u> TWP: <u>31N</u> RNG: <u>9W</u> PM: CNTY: <u>53</u> ST: <u>NM</u>		DATE FINISHED: <u>9/29/13</u>
QTR/FOOTAGE: <u>1815' FSL & 1525' FFL</u> CONTRACTOR: <u>Envirotech</u>		ENVIRONMENTAL T. McKnight SPECIALIST: <u>P. Murphy</u>

EXCAVATION APPROX: <u>NA</u> FT. X <u>NA</u> FT. X <u>NA</u> FT. DEEP CUBIC YARDAGE: <u>NA</u>
DISPOSAL FACILITY: <u>NA</u> REMEDIATION METHOD: <u>NA</u>
LAND USE: <u>Grazing/Recreational</u> LEASE: <u>5F-080376</u> LAND OWNER: <u>FEDERAL</u>
CAUSE OF RELEASE: <u>Overflow of AST (120 BBL)</u> MATERIAL RELEASED: <u>Produced Water & Used Lube Oil</u>
SPILL LOCATED APPROXIMATELY: <u>160'</u> FT. HEADING OF <u>30.99°</u> FROM WELL HEAD API# <u>30645 30112</u>
DEPTH TO GROUNDWATER: <u>312</u> NEAREST WATER SOURCE: <u>2600'</u> NEAREST SURFACE WATER: <u>26'</u>
NMOCD RANKING SCORE: <u>20</u> NMOCD TPH CLOSURE STD: <u>100</u> PPM

SOIL AND EXCAVATION DESCRIPTION: Free standing oil/Liquid in Release area. Called Crystal Tefogo, due to Free standing liquid - a depth determination is not possible in main Release area. Also on site wait for water truck re-assessed Area - Scraped away top oil & pulled samples in release area w/ auger - 2'x4' area of Puddle not sampled due to Chlorides run for surface Comp. min <32 - Reading = 4.4 on low Range = 195 mg/kg

SAMPLE DESCRIPTION	TIME	SAMPLE ID	LAB NO.	WEIGHT (g)	ML FREON	DILUTION	READING	CALC. ppm
200 Standard	12:12						202	
Surface comp 6" BGS	12:32	6" Comp		5	20	4	30	120
2' BGS	12:36	2' BGS		5	20	4	38	152
5' BGS	12:39	5' BGS		5	20	4	91	324
Surface Comp	13:00	Comp		5	20	4	5548	22192

SPILL PERIMETER



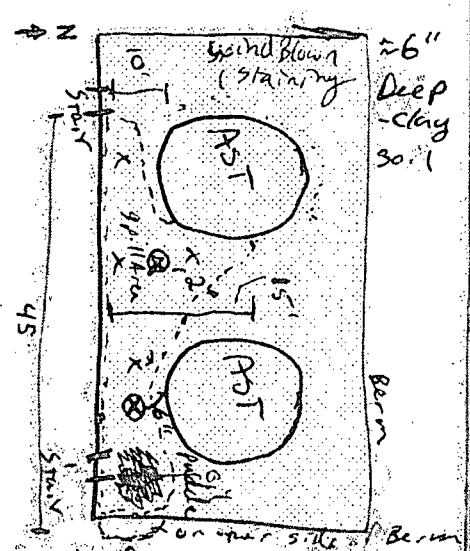
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
Comp	10.3
6"	0.0
2'	0.0
5'	0.0

LAB SAMPLES


SAMPLE ID	ANALYSIS	TIME
None		

SPILL PROFILE



TRAVEL NOTES: Called DOI 5' X = Comp
⊗ Auger's

Back at office 11:15 AM

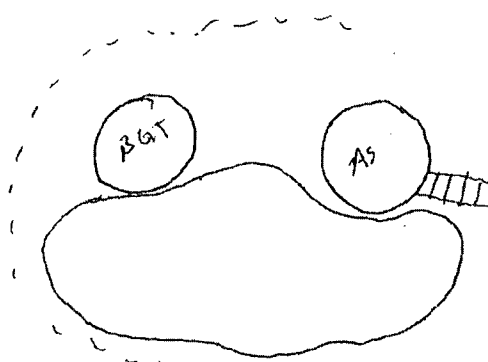
Client: <u>Conoco Phillips (LBR)</u>	 envirotech (808) 632-0318 (800) 362-1070 5798 U.S. Hwy 80, Farmington, NM 87401	Project No: <u>92115-2484</u> COC No: <u>16059</u>
--------------------------------------	--	---

FIELD REPORT: SPILL CLOSURE VERIFICATION		PAGE NO: <u>1</u> OF <u>1</u>
LOCATION: NAME: <u>San Juan 32-9</u> WELL #: <u>14C</u>	DATE STARTED: <u>9/6/13</u>	
QUAD/UNIT: <u>5</u> SEC: <u>9</u> TWP: <u>31N</u> RNG: <u>9W</u> PM: CNTY: <u>SS</u> ST:	DATE FINISHED: <u>9/6/13</u>	
QTR/FOOTAGE: CONTRACTOR:	ENVIRONMENTAL SPECIALIST: <u>T. Garcia</u>	

EXCAVATION APPROX: <u>40'</u> FT. X <u>15'</u> FT. X <u>2'</u> FT. DEEP CUBIC YARDAGE:	
DISPOSAL FACILITY: REMEDIATION METHOD:	
LAND USE:	LEASE:
LAND OWNER:	
CAUSE OF RELEASE: <u>overflow from BGT</u>	MATERIAL RELEASED: <u>Produced Water/water</u>
SPILL LOCATED APPROXIMATELY: FT. FROM	
DEPTH TO GROUNDWATER: NEAREST WATER SOURCE: NEAREST SURFACE WATER:	
NMOCD RANKING SCORE: <u>200</u> NMOCD TPH CLOSURE STD: <u>100</u> PPM	
SOIL AND EXCAVATION DESCRIPTION:	

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	ML FREON	DILUTION	READING	CALC. ppm
<u>200 STD</u>	<u>10:59</u>	<u>STD</u>					<u>200</u>	
<u>Bottom West Comp</u>	<u>11:11</u>	<u>BWC</u>		<u>5g</u>	<u>20</u>	<u>4</u>	<u>31</u>	<u>124</u>
<u>Bottom East Comp</u>	<u>11:15</u>	<u>BEC</u>		<u>5g</u>	<u>20</u>	<u>4</u>	<u>43</u>	<u>172</u>
<u>North Wall Comp</u>	<u>11:18</u>	<u>NWC</u>		<u>5g</u>	<u>20</u>	<u>4</u>	<u>25</u>	<u>100</u>
<u>South Wall Comp</u>	<u>11:20</u>	<u>SWC</u>		<u>5g</u>	<u>20</u>	<u>4</u>	<u>28</u>	<u>112</u>
<u>West Wall Comp</u>	<u>11:22</u>	<u>WWC</u>		<u>5g</u>	<u>20</u>	<u>4</u>	<u>29</u>	<u>116</u>
<u>East Wall Comp</u>	<u>11:24</u>	<u>EW C</u>		<u>5g</u>	<u>20</u>	<u>4</u>	<u>23</u>	<u>92</u>
<u>Visible leak by AST</u>	<u>11:53</u>	<u>VLBT</u>		<u>5g</u>	<u>20</u>	<u>4</u>	<u>24</u>	<u>96</u>

SPILL PERIMETER



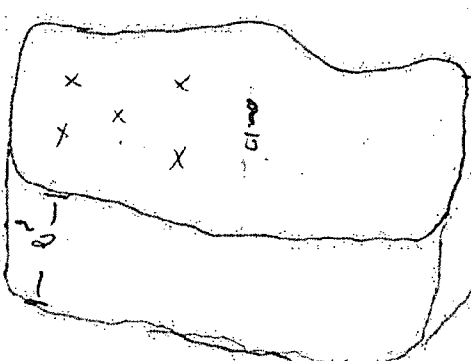
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
<u>BWC</u>	<u>1.9</u>
<u>NWC</u>	<u>2.2</u>
<u>SWC</u>	<u>1.9</u>
<u>EW C</u>	<u>2.1</u>
<u>WWC</u>	<u>2.1</u>
<u>BEC</u>	<u>1.8</u>
<u>VLBT</u>	<u>2.0</u>

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

SPILL PROFILE



TRAVEL NOTES:	CALLED OUT:	O SITE:
---------------	-------------	---------