

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

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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 ConocoPhillips Company	Contact Lisa Hunter
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 258-1607
Facility Name: Nickson 16	Facility Type: Gas
Surface Owner: BLM	Mineral Owner: SF-078431
API No. 3004520183	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	35	26N	08W	1075'	FSL	1515'	FEL	San Juan

Latitude **36.438872** Longitude **-107.64703**

NATURE OF RELEASE

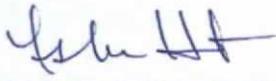
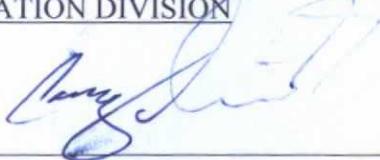
Type of Release Produced Water & Hydrocarbon	Volume of Release 18.25 bbls PW & 3.5 bbls HC	Volume Recovered 0
Source of Release corroded hole in production tank	Date and Hour of Occurrence 2/12/15 @ 1:45pm	Date and Hour of Discovery 2/12/15 @ 1:45pm
Was Immediate Notice Given? <input type="checkbox"/> 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.*		

OIL CONS. DIV DIST. 3
SEP 14 2016

Describe Cause of Problem and Remedial Action Taken.*
Corroded hole discovered near bottom of production tank. Spec truck was called to empty tank. COP will have area sampled and delineated. A final C-141 will follow.

Describe Area Affected and Cleanup Action Taken.*
Visually impacted soils were removed. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review. On 08/31/16, a follow-up site visit confirmed no surface stain in bermed tank battery from 2015 release.

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: Lisa Hunter	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 9/16/16	Expiration Date:
E-mail Address: Lisa.Hunter@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 09/08/2016	Phone: (505) 258-1607	

* Attach Additional Sheets If Necessary **#NCS 1507249843**

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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 ConocoPhillips Company	Contact Lindsay Dumas
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 599-4089
Facility Name: Nickson 16	Facility Type: Gas

Surface Owner: BLM	Mineral Owner: SF-078431	API No. 3004520183
---------------------------	---------------------------------	---------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	35	26N	08W	1075'	FSL	1515'	FEL	San Juan

Latitude **36.438872** Longitude **-107.64703**

NATURE OF RELEASE

Type of Release Produced Water & Hydrocarbon	Volume of Release 18.25 bbls PW & 3.5 bbls HC	Volume Recovered 0
Source of Release corroded hole in production tank	Date and Hour of Occurrence 2/12/15 @ 1:45pm	Date and Hour of Discovery 2/12/15 @ 1:45pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? OIL CONS. DIV DIST. 3	
By Whom?	Date and Hour AUG 12 2016	
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.*

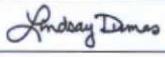
Describe Cause of Problem and Remedial Action Taken.*

Corroded hole discovered near bottom of production tank. Spec truck was called to empty tank. COP will have area sampled and delineated. A final C-141 will follow.

Describe Area Affected and Cleanup Action Taken.*

Visually impacted soils were removed. **Analytical results were below the regulatory standards – no further action required. The soil sampling 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: Lindsay Dumas	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 	Expiration Date:
E-mail Address: Lindsay.Dumas@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6/18/2015	Phone: (505) 599-4089	

* Attach Additional Sheets If Necessary



March 2, 2015

Project Number 96052-2484

Ms. Lindsay Dumas
ConocoPhillips
3401 East 30th Street
Farmington, New Mexico 87401

Phone: (505) 599-4089

RE: SPILL ASSESSMENT REPORT FOR THE NICKSON #16 WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Dumas:

Enclosed please find the field notes and analytical results for spill assessment activities performed at the Nickson #16 well site located in Section 35, Township 26 North, Range 8 West, San Juan County, New Mexico. A release occurred due to a small hole in the side of the above ground storage tank (AST). Upon Envirotech personnel's arrival on February 17, 2015, a brief site assessment was conducted. Due to a horizontal distance to surface water greater than 1000 feet from the site, a depth to groundwater greater than 100 feet, and a horizontal distance to a water well greater than 1000 feet, the regulatory standards were determined to be 5000 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.

Upon Envirotech personnel's arrival, four (4) samples were collected from the location. One (1) sample was collected from the foot (4) feet below ground surface (BGS) from the area of visually impacted soil. One (1) sample was collected approximately five (5) feet south of the center of the impacted area at six (6) inches BGS. One (1) sample was collected from approximately 10 feet south of the center of the impacted area at six (6) inches BGS. One (1) sample was collected from approximately four (4) feet to the north of the center of the impacted area at six (6) inches BGS. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). All samples returned results below the regulatory standard for TPH and organic vapors; see enclosed *Field Notes* and *Analytical Results*. The sample from the center of the visually impacted soil at four (4) feet BGS 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, benzene and total BTEX using USEPA Method 8021 and chlorides using USEPA Method 300.0. The sample returned results below the regulatory standard for all constituents analyzed; see enclosed *Analytical Results*. Envirotech, Inc. recommends excavation visually stained area to four (4) feet BGS.

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.


Sheena Leon
Environmental Field Technician
sleon@envirotech-inc.com

Enclosure(s): Field Notes
Site Map
Site Photography
Analytical Results

Cc: Client File Number 96052

Client: <u>ConocoPhillips</u> Environmental Specialist: <u>S. Leon</u>	 envirotech <small>(505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401</small>	Project No: <u>90052-2484</u> COC No: _____
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Field Report: Spill Closure Verification

Start Date: <u>2/17/15</u>	NMOCD Ranking: <u>0</u>	WH Protection Area: <u>ND</u>
Finish Date: <u>2/17/15</u>	NMOCD TPH Closure Std: <u>5000</u>	Distance to SW: <u>>1000ft</u>
Page #: <u>1</u> of <u>2</u>	PPM: _____	Depth to GW: <u>n/a</u>

LOCATION: Name: <u>Nickson</u> Well #: <u>14</u>
County: <u>San Juan</u> State: <u>New Mexico</u>
Cause of Release: <u>Hole in tank</u> Material Released: _____ Amt. Released: <u>n/a</u>
QUAD/UNIT: _____ SEC: <u>35</u> TWP: <u>21N</u> RNG: <u>8W</u> PM: _____
Wellhead Lat/Long: <u>36.438831, -107.64668</u> Land Jurisdiction: _____

SOIL SAMPLING and EXCAVATION NOTES: * include number of samples and borings taken, and screening types completed.

Describe spill in narrative format including amount, source and type of product.

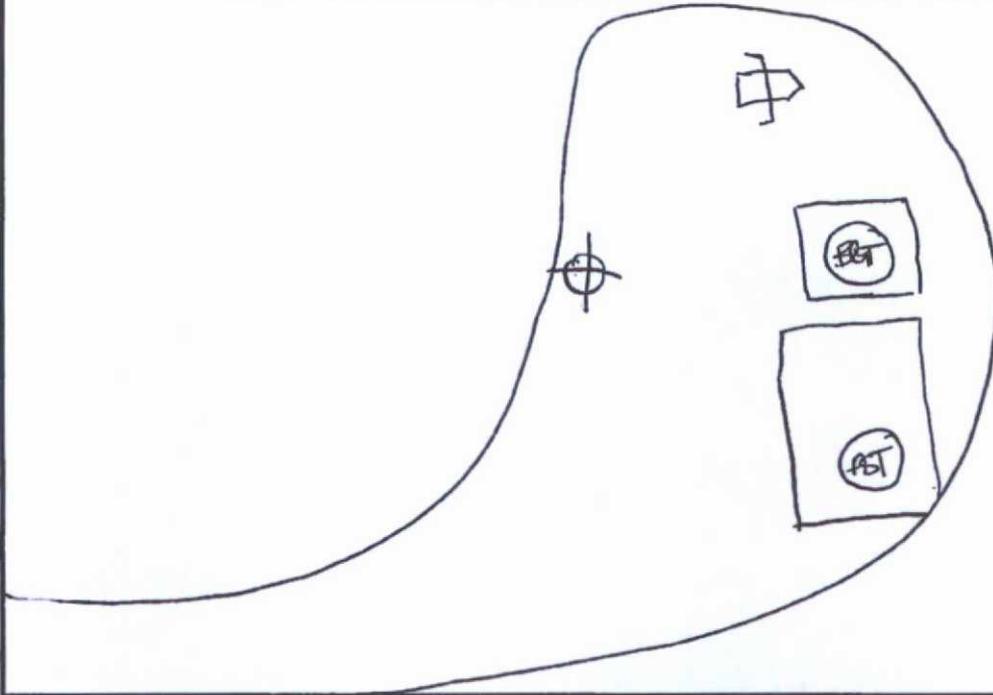
1 - sample @ 4' in front of source of release
3 - Samples @ 6" to establish perimeter

Spill Located Approximately: _____ FT.	FROM <u>Production tank</u>
Excavation Approx: _____ FT. X _____ FT. X _____ FT.	Cubic Yardage: _____
Disposal Facility: _____	Remediation Method: _____
Land Use: _____	Lease: _____ Land Owner: _____

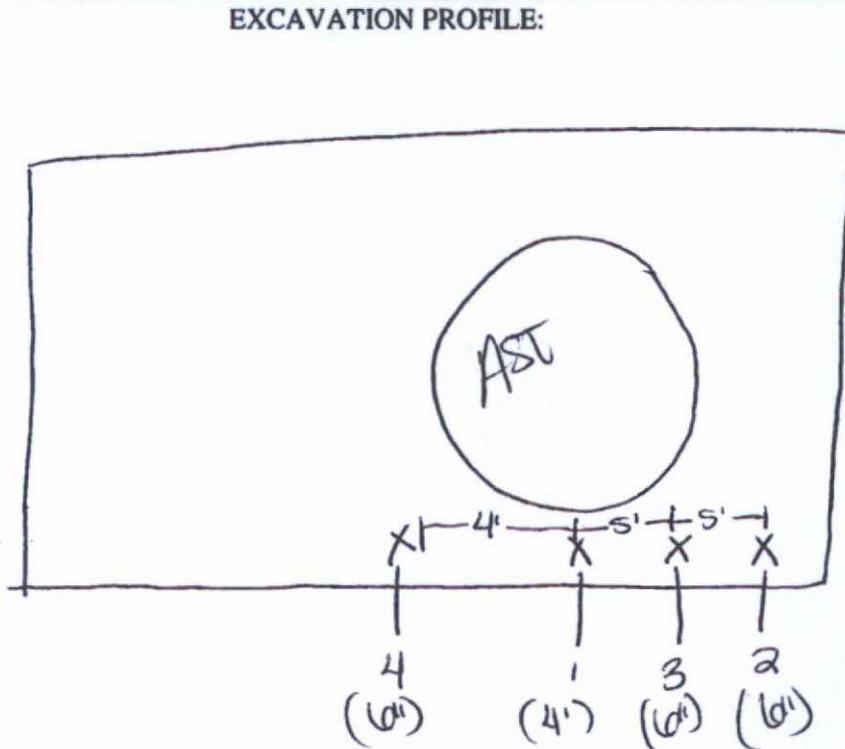
SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<u>200 Standard</u>	<u>10:00</u>	_____	_____	_____	_____	<u>219</u>	_____
<u>Hole 1 @ 4'</u>	<u>10:30</u>	<u>1</u>	<u>5g</u>	<u>20ml</u>	<u>X4</u>	<u>506</u>	<u>2264</u>
<u>Hole 2 @ 6"</u>	<u>10:50</u>	<u>2</u>	<u>5g</u>	<u>20ml</u>	<u>X4</u>	<u>1</u>	<u>4</u>
<u>Hole 3 @ 6"</u>	<u>11:30</u>	<u>3</u>	<u>5g</u>	<u>20ml</u>	<u>X4</u>	<u>12</u>	<u>48</u>
<u>Hole 4 @ 6"</u>	<u>12:00</u>	<u>4</u>	<u>5g</u>	<u>20ml</u>	<u>X4</u>	<u>22</u>	<u>88</u>

OVM Results		Lab Testing			
Sample ID	Field Headspace PID (ppm)	Sample ID	To Lab Y/N	Analysis Type	Time
<u>1</u>	<u>26.1</u>	<u>Hole 1 4'</u>	<u>Y</u>	<u>R05,821, CL</u>	
<u>2</u>	<u>0</u>				
<u>3</u>	<u>0</u>				
<u>4</u>	<u>.5</u>				

SPILL PERIMETER: Draw a schematic of the spill site. Attach photos and other diagrams as needed.



EXCAVATION PROFILE:





WELL HEAD

LEGEND

SAMPLE LOCATIONS

- X Sample Hole 1
- X Sample Hole 2
- X Sample Hole 3
- X Sample Hole 4

SITE MAP ConocoPhillips Nickson #16

SECTION 35, TWP 26 NORTH, RANGE 8 WEST
SAN JUAN COUNTY, NEW MEXICO

SCALE: NTS	FIGURE NO. 1	REV
PROJECT NO96052-2484		

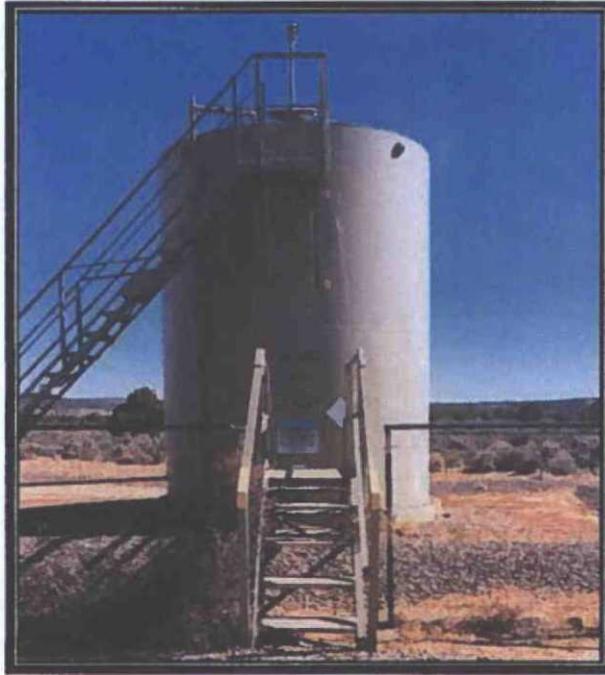
REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	SL	2/27/15	BASE DRWN

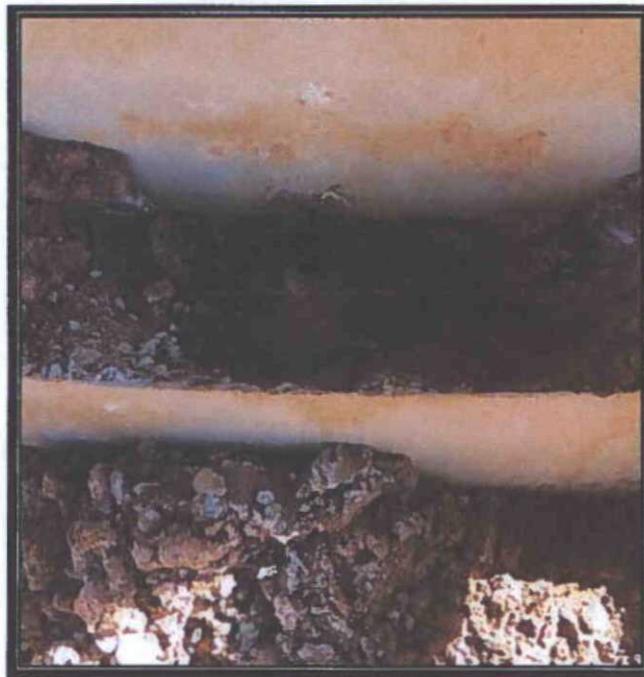


5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

**SITE PHOTOGRAPHY
NICKSON #16
SPILL ASSESSMENT REPORT
SAN JUAN COUNTY, NEW MEXICO
PROJECT NUMBER 96052-2484
FEBRUARY 2015**

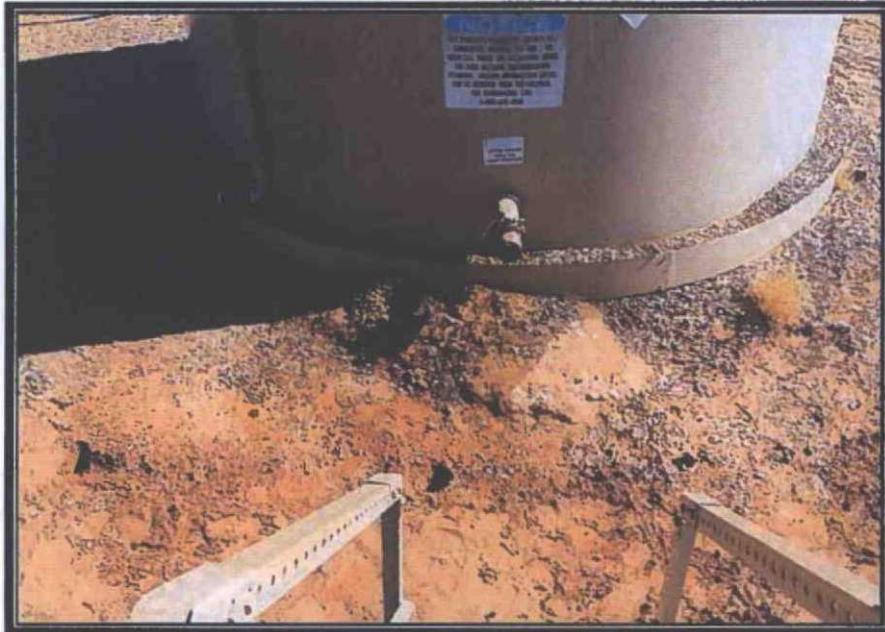


Picture 1: Production Tank (Source)



Picture 2: Production Tank (Source)

**SITE PHOTOGRAPHY
NICKSON #16
SPILL ASSESSMENT REPORT
SAN JUAN COUNTY, NEW MEXICO
PROJECT NUMBER 96052-2484
FEBRUARY 2015**



Picture 3: Sample hole 1 and 4



Picture 4: Sample holes 2 and 3

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

Cal. Date: 17-Feb-15

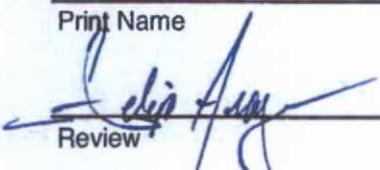
Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	219
	200	
	500	
	1000	

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

Analyst

Sheena Leon

Print Name



Review

Felipe Aragon

Print Name

2/27/2015

Date

2/27/2015

Date

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

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

Project #: 96052-2484
Date Reported: 2/27/2015
Date Sampled: 2/17/2015
Date Analyzed: 2/17/2015
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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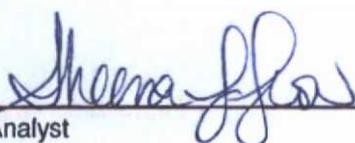
Total Petroleum Hydrocarbons	2,260	5.0
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ND = Parameter not detected at the stated detection limit.

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

Comments: **Nickson #16**

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



Analyst

Sheena Leon

Printed



Review

Felipe Aragon

Printed

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 96052-2484
Sample No.: 2 Date Reported: 2/27/2015
Sample ID: Hole 2 Date Sampled: 2/17/2015
Sample Matrix: Soil Date Analyzed: 2/17/2015
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

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

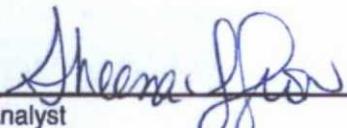
Total Petroleum Hydrocarbons ND 5.0

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: **Nickson #16**

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



Analyst

Sheena Leon

Printed



Review

Felipe Aragon

Printed

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 96052-2484
Sample No.: 3 Date Reported: 2/27/2015
Sample ID: Hole 3 Date Sampled: 2/17/2015
Sample Matrix: Soil Date Analyzed: 2/17/2015
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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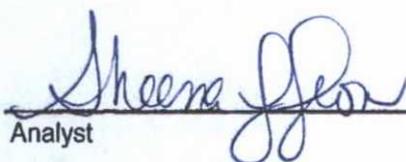
Total Petroleum Hydrocarbons 48 5.0

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: **Nickson #16**

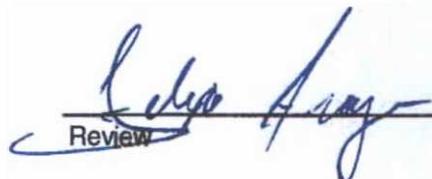
Instrument calibrated to 200 ppm standard and zeroed before each sample.



Analyst

Sheena Leon

Printed



Review

Felipe Aragon

Printed

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client: ConocoPhillips Project #: 96052-2484
Sample No.: 4 Date Reported: 2/27/2015
Sample ID: Hole 4 Date Sampled: 2/17/2015
Sample Matrix: Soil Date Analyzed: 2/17/2015
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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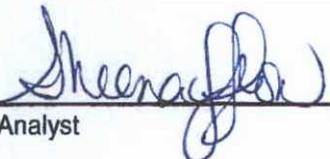
Total Petroleum Hydrocarbons	88	5.0
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ND = Parameter not detected at the stated detection limit.

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

Comments: **Nickson #16**

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



Analyst

Sheena Leon

Printed



Review

Felipe Aragon

Printed



Analytical Report

Report Summary

Client: ConocoPhillips

Chain Of Custody Number:

Samples Received: 2/17/2015 3:10:00PM

Job Number: 96052-2484

Work Order: P502060

Project Name/Location: Nickson #16

Entire Report Reviewed By:

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

Date: 2/26/15

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: Nickson #16 Project Number: 96052-2484 Project Manager: Sheena Leon	Reported: 26-Feb-15 18:03
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
4' BGS	P502060-01A	Soil	02/17/15	02/17/15	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401
Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865
Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com



ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Nickson #16 Project Number: 96052-2484 Project Manager: Sheena Leon	Reported: 26-Feb-15 18:03
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4' BGS
P502060-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
<u>Volatile Organics by EPA 8021</u>										
Benzene	ND	0.10	mg/kg	1	1509020	02/24/15	02/26/15	EPA 8021B		
Toluene	1.38	0.10	mg/kg	1	1509020	02/24/15	02/26/15	EPA 8021B		
Ethylbenzene	15.4	0.10	mg/kg	1	1509020	02/24/15	02/26/15	EPA 8021B		
p,m-Xylene	0.85	0.20	mg/kg	1	1509020	02/24/15	02/26/15	EPA 8021B		
o-Xylene	0.99	0.10	mg/kg	1	1509020	02/24/15	02/26/15	EPA 8021B		
Total Xylenes	1.84	0.10	mg/kg	1	1509020	02/24/15	02/26/15	EPA 8021B		
Total BTEX	18.6	0.10	mg/kg	1	1509020	02/24/15	02/26/15	EPA 8021B		
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.1 %		50-150	1509020	02/24/15	02/26/15	EPA 8021B		
<u>Nonhalogenated Organics by 8015</u>										
Gasoline Range Organics (C6-C10)	281	9.99	mg/kg	1	1509020	02/24/15	02/26/15	EPA 8015D		
Diesel Range Organics (C10-C28)	291	24.7	mg/kg	1	1508044	02/20/15	02/24/15	EPA 8015D		
<i>Surrogate: o-Terphenyl</i>		97.6 %		50-200	1508044	02/20/15	02/24/15	EPA 8015D		
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.5 %		50-150	1509020	02/24/15	02/26/15	EPA 8015D		
<u>Cation/Anion Analysis</u>										
Chloride	ND	9.92	mg/kg	1	1509012	02/24/15	02/24/15	EPA 300.0		

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5796 US Highway 64, Farmington, NM 87401

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com



ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Nickson #16 Project Number: 96052-2484 Project Manager: Sheena Leon	Reported: 26-Feb-15 18:03
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Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1509020 - Purge and Trap EPA 5030A										
Blank (1509020-BLK1) Prepared: 24-Feb-15 Analyzed: 26-Feb-15										
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.351		"	0.400		87.9	50-150			
LCS (1509020-BS1) Prepared: 24-Feb-15 Analyzed: 25-Feb-15										
Benzene	17.8	0.10	mg/kg	19.9		89.1	75-125			
Toluene	17.7	0.10	"	19.9		88.8	70-125			
Ethylbenzene	17.7	0.10	"	19.9		88.9	75-125			
p,m-Xylene	35.6	0.20	"	39.9		89.4	80-125			
o-Xylene	17.0	0.10	"	19.9		85.2	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.333		"	0.399		83.6	50-150			
Matrix Spike (1509020-MS1) Source: P502060-01 Prepared: 24-Feb-15 Analyzed: 25-Feb-15										
Benzene	17.4	0.10	mg/kg	20.0	ND	87.2	75-125			
Toluene	17.7	0.10	"	20.0	1.38	81.6	70-125			
Ethylbenzene	18.3	0.10	"	20.0	15.4	14.4	75-125			
p,m-Xylene	49.2	0.20	"	39.9	0.85	121	80-125			
o-Xylene	19.3	0.10	"	20.0	0.99	91.6	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.324		"	0.399		81.2	50-150			
Matrix Spike Dup (1509020-MSD1) Source: P502060-01 Prepared: 24-Feb-15 Analyzed: 25-Feb-15										
Benzene	19.8	0.10	mg/kg	20.0	ND	98.9	75-125	12.8	15	
Toluene	20.1	0.10	"	20.0	1.38	93.5	70-125	12.7	15	
Ethylbenzene	20.8	0.10	"	20.0	15.4	27.2	75-125	13.0	15	
p,m-Xylene	56.4	0.20	"	40.0	0.85	139	80-125	13.5	15	
o-Xylene	22.1	0.10	"	20.0	0.99	106	75-125	13.6	15	
Surrogate: 4-Bromochlorobenzene-PID	0.351		"	0.400		87.9	50-150			

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ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Nickson #16 Project Number: 96052-2484 Project Manager: Sheena Leon	Reported: 26-Feb-15 18:03
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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 1508044 - DRO Extraction EPA 3550M										
Blank (1508044-BLK1)										
					Prepared: 20-Feb-15 Analyzed: 23-Feb-15					
Diesel Range Organics (C10-C28)	ND	24.8	mg/kg							
Surrogate: o-Terphenyl	45.0		"	39.7		113	50-200			
LCS (1508044-BS1)										
					Prepared: 20-Feb-15 Analyzed: 21-Feb-15					
Diesel Range Organics (C10-C28)	526	24.6	mg/kg	493	ND	107	38-132			
Surrogate: o-Terphenyl	41.3		"	39.4		105	50-200			
Matrix Spike (1508044-MS1)										
		Source: P502076-01			Prepared: 20-Feb-15 Analyzed: 21-Feb-15					
Diesel Range Organics (C10-C28)	544	39.3	mg/kg	491	ND	111	38-132			
Surrogate: o-Terphenyl	48.7		"	39.3		124	50-200			
Matrix Spike Dup (1508044-MSD1)										
		Source: P502076-01			Prepared: 20-Feb-15 Analyzed: 21-Feb-15					
Diesel Range Organics (C10-C28)	306	24.5	mg/kg	491	ND	62.4	38-132	56.1	20	D1
Surrogate: o-Terphenyl	27.4		"	39.2		69.8	50-200			

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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 1509020 - Purge and Trap EPA 5030A										
Blank (1509020-BLK1)										
Prepared: 24-Feb-15 Analyzed: 26-Feb-15										
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.354		"	0.400		88.6	50-150			
LCS (1509020-BS1)										
Prepared: 24-Feb-15 Analyzed: 25-Feb-15										
Gasoline Range Organics (C6-C10)	216	9.96	mg/kg	233		92.7	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.325		"	0.399		81.5	50-150			
Matrix Spike (1509020-MS1)										
Source: P502060-01 Prepared: 24-Feb-15 Analyzed: 25-Feb-15										
Gasoline Range Organics (C6-C10)	460	9.98	mg/kg	233	281	76.8	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.323		"	0.399		80.9	50-150			
Matrix Spike Dup (1509020-MSD1)										
Source: P502060-01 Prepared: 24-Feb-15 Analyzed: 25-Feb-15										
Gasoline Range Organics (C6-C10)	458	10.0	mg/kg	233	281	75.6	75-125	0.558	15	
Surrogate: 4-Bromochlorobenzene-FID	0.350		"	0.400		87.5	50-150			

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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 1509012 - Anion Extraction EPA 300.0										
Blank (1509012-BLK1) Prepared & Analyzed: 24-Feb-15										
Chloride	ND	9.86	mg/kg							
LCS (1509012-BS1) Prepared & Analyzed: 24-Feb-15										
Chloride	469	9.91	mg/kg	496		94.6	90-110			
Matrix Spike (1509012-MS1) Source: P502057-01 Prepared & Analyzed: 24-Feb-15										
Chloride	477	9.87	mg/kg	494	ND	96.7	80-120			
Matrix Spike Dup (1509012-MSD1) Source: P502057-01 Prepared & Analyzed: 24-Feb-15										
Chloride	479	9.93	mg/kg	496	ND	96.6	80-120	0.436	20	

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Notes and Definitions

- D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds control limits.
- 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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Client: ConocoPhillips
 Project: Mexson #10
 Sampler: S. Lead
 Phone: _____
 Email(s): S. Lead
 Project Manager: S. Lead

RUSH?
 1d
 3d

Lab Use Only		Analysis and Method				Lab Number	Correct Cont/Prsv (s) Y/N		
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0			01	✓
Job Number									
P 502060									
90052-2484									

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Lab Number	Correct Cont/Prsv (s) Y/N
4' BGS	2/17/15	11:30	S	1-4oz g / cool	X	X	X	X	01	✓

No 418.1 per
 Shena
 02/17/15 ug

Relinquished by: (Signature) <u>Shena</u>	Date 2/17/15	Time 15:10	Received by: (Signature) <u>Dene Z...</u>	Date 2/17/15	Time 15:10	Lab Use Only	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	**Received on Ice Y / N	
						T1 18.5	T2 _____ T3 _____
						AVG Temp °C 18.5	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Sample(s) dropped off after hours to a secure drop off area. Chain of Custody _____ Notes/Billing info: _____