

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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 in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Encana Oil & Gas (USA) Inc	Contact Tucker Smith
Address 6584 E Main St., Farmington, NM 87402	Telephone No. 505-599-2407
Facility Name Federal I No. 009 Tank Battery	Facility Type Oil Production well and tank

Surface Owner: BLM/Federal	Mineral Owner: BLM/Federal	API No. 3004320929
----------------------------	----------------------------	--------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	21	23 N	07 W	330	North Line	1790	East Line	Sandoval

Latitude NA Longitude NA

**NATURE OF RELEASE**

Type of Release Crude Oil release from production tank	Volume of Release 10 bbl	Volume Recovered 10 bbl
Source of Release Crude Oil release from production tank overflow	Date and Hour of Occurrence 7/9/2014, 1:00 PM	Date and Hour of Discovery 7/9/2014, 1:00 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Jonathan Kelley	
By Whom? Tucker Smith	Date and Hour 7/10/2014 4:45 PM email	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	

**OIL CONS. DIV DIST. 3**

If a Watercourse was Impacted, Describe Fully.\*

NA

**JUL 29 2014**

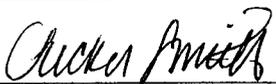
Describe Cause of Problem and Remedial Action Taken.\*

Production tank was not pulled causing overflow from tank. Inlet valve to separator was shut to cease production into tank. Inlet valve and trim was washed out allowing for some oil to bypass valve and continue overflow. Inlet valve and trim was replaced. 10 bbls of oil and produced water was released onto ground surface, confined within containment dike.

Describe Area Affected and Cleanup Action Taken.\*

Oil release was confined to production tank containment / earthen berm. 7/10/2014 Inlet valve and trim on separator repaired. Vac truck on site to collect standing fluids. Affected soil collected and hauled to land farm. 7/11/2014 Vac truck on site to collect oil residual that remained.

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: Tucker Smith	Approved by Environmental Specialist: 	
Title: Environmental Specialist	Approval Date: 11/12/2014	Expiration Date:
E-mail Address: tucker.smith@encana.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7/22/2014	Phone: 505-599-2407	

\* Attach Additional Sheets If Necessary

NJR 1431654981



July 22, 2014

OIL CONS. DIV DIST. 3

JUL 29 2014

Mr. Jonathon Kelly, Compliance Officer  
New Mexico Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos  
Aztec, NM 87410

**Subject: Encana Oil & Gas (USA) Inc. – Federal I No. 009 Tank Battery  
Release Notification and Corrective Action – Form C-141**

Dear Mr. Kelly:

By this letter and attachment hereto, Encana Oil & Gas (USA) Inc. (Encana) is hereby providing District III of the New Mexico Oil Conservation Division (NMOCD) with written notification of a minor unauthorized release as required by 19.15.29.8 NMAC. Attached you will find a signed copy of Release Notification and Corrective Action Form C-141 that provides all pertinent information related to this minor unauthorized release.

Please contact me at 505-599-2407 if you have any questions or concerns.

Best regards,

A handwritten signature in cursive script that reads "Tucker Smith".

Tucker Smith  
Environmental Specialist

Attachment

Encana Oil & Gas (USA) Inc.

**encana**

August 25, 2014

New Mexico Oil Conservation Division  
Aztec Field Office  
Attn: Cory Smith  
cc: Jonathan Kelly  
1000 Rio Brazos Road  
Aztec, NM 87410

**OIL CONS. DIV DIST. 3**

**AUG 25 2014**

**RE: Final Remediation Report, Federal I 5,8,9 Tank Battery**

Mr. Cory Smith,

On July 9, 2014 a crude oil spill occurred from a tank overflow on Encana's Federal I 5, 8, 9 Tank battery location.

As described in the initial C-141 Report, approximately 10 bbls of fluid was released and contained within earthen dike. The production tank on site was not pulled in time, causing overflow from tank. Upon discovery, the inlet valve to separator was shut to cease production into tank; however, the inlet valve and trim was washed out allowing for some oil to bypass valve and continue overflow. The inlet valve and trim was replaced.

Vac trucks were used to collect fluids from the containment area on July 10 and July 11<sup>th</sup>. A composite soil sample, witnessed by NMOCD Deputy Oil & Gas Inspector, Jonathan Kelly, was taken on August 4, 2014. Results are attached and summarized below.

**Encana Oil & Gas (USA) Inc.**  
Farmington Field Office  
6584 E. Main Street  
Farmington, New Mexico 87401  
t 505.599.2411  
f 505.634.6490  
e [steven.merrell@encana.com](mailto:steven.merrell@encana.com)

Based on New Mexico Oil Conservation Division *Guidelines for Remediation of Leaks, Spills and Releases* IV.2.(a) the affected area ranks a zero.

Ranking Criteria

NMOCD Ranking

Distance to surface water	< 200 feet from USGS watercourse	20
Wellhead Protection Area	No	0
Depth to groundwater	> 100	0

Federal I 5,8,9 Tank Battery Composite Soil Sample

Analyte (ppm)	Result (ppm)	NMOCD remediation action level (ppm) for >19 ranking
Benzene	ND	10
BTEX	ND	50
TPH - GRO	ND	100
TPH - DRO	90.4	100
Chlorides (At the request of Jonathan Kelly)	488	-

Based on the information provided, please consider this the Final Closure document for the above incident.

Thank you,

Tucker Smith  
 Environmental Specialist  
 o) 505-599-2407  
 c) 979-204-7485

\*Attachment



## Analytical Report

### Report Summary

Client: Encana Oil & Gas USA

Chain Of Custody Number: 16846

Samples Received: 8/4/2014 2:10:00PM

Job Number: 11195-0086

Work Order: P408012

Project Name/Location: Federal I 5,8,9 Post Spill

Entire Report Reviewed By:

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

Date: 8/12/14

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.



Encana Oil & Gas USA 370 17th Street Denver CO, 80202	Project Name: Federal 1 5,8,9 Post Spill Project Number: 11195-0086 Project Manager: Tucker Smith	Reported: 12-Aug-14 17:02
---	---	------------------------------

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Composite	P408012-01A	Soil	08/04/14	08/04/14	Plastic Baggie

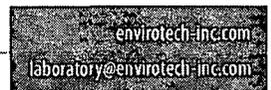
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 US Highway 64, Farmington, NM 87401

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

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

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





Encana Oil & Gas USA 370 17th Street Denver CO, 80202	Project Name: Federal I 5,8,9 Post Spill Project Number: 11195-0086 Project Manager: Tucker Smith	Reported: 12-Aug-14 17:02
---	---	------------------------------

**Composite  
P408012-01 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1432020	08/07/14	08/11/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1432020	08/07/14	08/11/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1432020	08/07/14	08/11/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1432020	08/07/14	08/11/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1432020	08/07/14	08/11/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1432020	08/07/14	08/11/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1432020	08/07/14	08/11/14	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		82.6 %		50-150	1432020	08/07/14	08/11/14	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		70.6 %		50-150	1432020	08/07/14	08/11/14	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1432020	08/07/14	08/11/14	EPA 8015D	
Diesel Range Organics (C10-C28)	90.4	25.0	mg/kg	1	1433002	08/11/14	08/12/14	EPA 8015D	
<i>Surrogate: Benzo[a]pyrene</i>		90.9 %		50-200	1433002	08/11/14	08/12/14	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	488	9.98	mg/kg	1	1432018	08/06/14	08/06/14	EPA 300.0	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Encana Oil & Gas USA 370 17th Street Denver CO, 80202	Project Name: Federal I 5,8,9 Post Spill Project Number: 11195-0086 Project Manager: Tucker Smith	Reported: 12-Aug-14 17:02
---	---	------------------------------

**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 1432020 - Purge and Trap EPA 5030A**

<b>Blank (1432020-BLK1)</b>										
Prepared: 06-Aug-14 Analyzed: 07-Aug-14										
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.10	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	50.1		ug/L	50.0		100	80-120			
Surrogate: Bromochlorobenzene	51.8		"	50.0		104	80-120			

<b>Duplicate (1432020-DUP1)</b>										
Source: P408021-01 Prepared: 06-Aug-14 Analyzed: 07-Aug-14										
Benzene	ND	0.05	mg/kg		ND					30
Toluene	ND	0.05	"		ND					30
Ethylbenzene	ND	0.05	"		ND					30
p,m-Xylene	ND	0.10	"		ND					30
o-Xylene	ND	0.05	"		ND					30
Surrogate: 1,3-Dichlorobenzene	48.9		ug/L	50.0		97.9	80-120			
Surrogate: Bromochlorobenzene	52.8		"	50.0		106	80-120			

<b>Matrix Spike (1432020-MS1)</b>										
Source: P408021-01 Prepared: 06-Aug-14 Analyzed: 07-Aug-14										
Benzene	51.6		ug/L	50.0	ND	103	39-150			
Toluene	55.3		"	50.0	ND	111	46-148			
Ethylbenzene	51.8		"	50.0	ND	104	32-160			
p,m-Xylene	108		"	100	ND	108	46-148			
o-Xylene	53.0		"	50.0	ND	106	46-148			
Surrogate: 1,3-Dichlorobenzene	50.3		"	50.0		101	80-120			
Surrogate: Bromochlorobenzene	53.7		"	50.0		107	80-120			

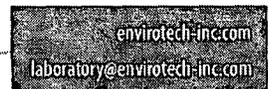
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 US Highway 64, Farmington, NM 87401

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

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

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





Encana Oil & Gas USA 370 17th Street Denver CO, 80202	Project Name: Federal I 5,8,9 Post Spill Project Number: 11195-0086 Project Manager: Tucker Smith	Reported: 12-Aug-14 17:02
---	---	------------------------------

**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 1432020 - Purge and Trap EPA 5030A**

<b>Blank (1432020-BLK1)</b>				Prepared: 06-Aug-14 Analyzed: 07-Aug-14						
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
<b>Duplicate (1432020-DUP1)</b>				Source: P408021-01 Prepared: 06-Aug-14 Analyzed: 07-Aug-14						
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
<b>Matrix Spike (1432020-MS1)</b>				Source: P408021-01 Prepared: 06-Aug-14 Analyzed: 07-Aug-14						
Gasoline Range Organics (C6-C10)	0.53		mg/L	0.450	0.008	116	75-125			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 US Highway 64, Farmington, NM 87401

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

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

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





Encana Oil & Gas USA 370 17th Street Denver CO, 80202	Project Name: Federal I 5,8,9 Post Spill Project Number: 11195-0086 Project Manager: Tucker Smith	Reported: 12-Aug-14 17:02
---	---	------------------------------

**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
<b>Batch 1433002 - DRO Extraction EPA 3550M</b>										
<b>Blank (1433002-BLK1)</b>				Prepared & Analyzed: 11-Aug-14						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: Benzo[a]pyrene	20.4		"	20.0		102	50-200			
<b>LCS (1433002-BS1)</b>				Prepared & Analyzed: 11-Aug-14						
Diesel Range Organics (C10-C28)	456	25.0	mg/kg	499		91.2	38-132			
Surrogate: Benzo[a]pyrene	21.5		"	20.0		108	50-200			
<b>Matrix Spike (1433002-MS1)</b>				Source: P408027-02		Prepared & Analyzed: 11-Aug-14				
Diesel Range Organics (C10-C28)	1100	30.0	mg/kg	499	312	158	38-132			
Surrogate: Benzo[a]pyrene	22.7		"	20.0		114	50-200			
<b>Matrix Spike Dup (1433002-MSD1)</b>				Source: P408027-02		Prepared & Analyzed: 11-Aug-14				
Diesel Range Organics (C10-C28)	1270	29.9	mg/kg	499	312	192	38-132	14.1	20	
Surrogate: Benzo[a]pyrene	24.8		"	19.9		124	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



Encana Oil & Gas USA 370 17th Street Denver CO, 80202	Project Name: Federal I 5,8,9 Post Spill Project Number: 11195-0086 Project Manager: Tucker Smith	Reported: 12-Aug-14 17:02
---	---	------------------------------

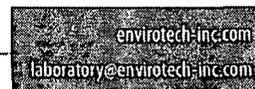
**Cation/Anion Analysis - Quality Control**  
**Envirotech Analytical Laboratory**

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

**Batch 1432018 - Anion Extraction EPA 300.0**

<b>Blank (1432018-BLK1)</b>				Prepared & Analyzed: 06-Aug-14						
Chloride	ND	9.96	mg/kg	-						
<b>LCS (1432018-BS1)</b>				Prepared & Analyzed: 06-Aug-14						
Chloride	495	9.92	mg/kg	496		99.8	90-110			
<b>Matrix Spike (1432018-MS1)</b>		<b>Source: P408012-01</b>		Prepared & Analyzed: 06-Aug-14						
Chloride	967	9.92	mg/kg	496	488	96.5	80-120			
<b>Matrix Spike Dup (1432018-MSD1)</b>		<b>Source: P408012-01</b>		Prepared & Analyzed: 06-Aug-14						
Chloride	960	9.87	mg/kg	494	488	95.6	80-120	0.682	20	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.





Encana Oil & Gas USA 370 17th Street Denver CO, 80202	Project Name: Federal I 5,8,9 Post Spill Project Number: 11195-0086 Project Manager: Tucker Smith	<b>Reported:</b> 12-Aug-14 17:02
---	---	-------------------------------------

**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

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



# CHAIN OF CUSTODY RECORD

16846

Client: <b>Encana</b>	Project Name / Location: <b>Federal I 5,8,9 post spill</b>	ANALYSIS / PARAMETERS											
Email results to: <b>tucker.smith@encana.com</b>	Sampler Name: <b>Tucker Smith</b>	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.: <b>505-599-2406</b>	Client No.: <b>11195-0086</b>												

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		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	
					HNO <sub>3</sub>	HCl													
<b>Composite</b>	<b>8/4/14</b>	<b>08:40</b>	<b>P408012-01</b>	<b>1 Plastic baggie</b>			<b>X</b>	<b>X</b>										<b>X</b>	<b>X</b>
																			<b>in plastic baggie</b>

Relinquished by: (Signature) <b>Tucker Smith</b>	Date <b>8/4</b>	Time <b>14:10</b>	Received by: (Signature) <b>[Signature]</b>	Date <b>8/4/14</b>	Time <b>12:10</b>
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.


**5.6**