

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



FOR OGCC USE ONLY

RECEIVED
8/1/2013

Spill report taken by:

FACILITY ID:

SPILL/RELEASE REPORT

This form is to be submitted by the party responsible for the oil and gas spill or release. Any spill or release which may impact waters of the State must be reported as soon as practicable; any spill over 20 bbls must be reported within 24 hours and all spills over five bbls must be reported within ten days. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

OPERATOR INFORMATION

Name of Operator: _____ OGCC Operator No: _____	Phone Numbers No: _____ Fax: _____ E-Mail: _____
Address: _____	
City: _____ State: _____ Zip: _____	
Contact Person: _____	

DESCRIPTION OF SPILL OR RELEASE

Date of Incident: _____ Facility Name & No.: _____	County: _____
Type of Facility (well, tank battery, flow line, pit): _____	QtrQtr: _____ Section: _____
Well Name and Number: _____	Township: _____ Range: _____
API Number: _____	Meridian: _____
Specify volume spilled and recovered (in bbls) for the following materials: Oil spilled: _____ Oil recov'd: _____ Water spilled: _____ Water recov'd: _____ Other spilled: _____ Other recov'd: _____	
Ground Water impacted? Yes No	Surface Water impacted? Yes No
Contained within berm? Yes No	Area and vertical extent of spill: _____ x _____
Current land use: _____ Weather conditions: _____	
Soil/geology description: _____	
IF LESS THAN A MILE , report distance IN FEET to nearest.... Surface water: _____ wetlands: _____ buildings: _____	
Livestock: _____ water wells: _____ Depth to shallowest ground water: _____	
Cause of spill (e.g., equipment failure, human error, etc.): _____ Detailed description of the spill/release incident: _____	

CORRECTIVE ACTION

Describe immediate response (how stopped, contained and recovered):

Describe any emergency pits constructed:

How was the extent of contamination determined:

Further remediation activities proposed (attach separate sheet if needed):

Describe measures taken to prevent problem from reoccurring:

OTHER NOTIFICATIONS

List the parties and agencies notified (County, BLM, EPA, DOT, Local Emergency Planning Coordinator or other).

Date	Agency	Contact	Phone	Response

Spill/Release Tracking No: **2145677**



**Canary 6601 Pit Closure (Facility ID – 276675)
(COGCC Location ID – 316370)**

Form 19 Narrative

Date of Discovery – 06/18/2013

Detailed description of the spill/release incident:

At the request of Encana Oil and Gas (USA) Inc. (Encana), LTE personnel conducted site assessment soil boring activities in support of pit closure efforts on Encana's Canary 6601 well pad (Site) in the Buckhorn Draw area of operation in the North Piceance.

This Form 19 was prepared and submitted in accordance with COGCC Rule 905.c for the discovery of a spill/release during a pit closure. This form submittal also may include information indicated in the Form 27 submitted for this project on June 19, 2013. The Date of Incident is the date that samples were collected which identified elevated levels of COGCC Table 910-1 constituents of concern.

Describe immediate response (how stopped, contained and recovered):

LTE personnel conducted site assessment activities on June 18 and 19, 2013. These activities included lateral and vertical delineations of the Site using hollow stem auger to advance soil borings.

In accordance with COGCC Rule 905.b, a Form 27 was also submitted for this project. The Form 4 (Notification of Completion) prepared for this project will detail remediation efforts.

Describe any emergency pits constructed:

No emergency pits were constructed.

How was the extent of contamination determined?:

An LTE geologist advanced nine soil borings using a hollow stem auger at the Site to assess the potential for petroleum impacted soil within the previous pit location. The approximate pit location was determined using historical aerial photographs and GPS. The soil from each boring was field screened at five foot intervals with a photoionization device (PID) to monitor the soil headspace for the presence of volatile organic vapors. When field screened material indicated hydrocarbon impacts, soil samples were collected and submitted for laboratory analysis of the constituents and allowable levels identified in COGCC Table 910-1.

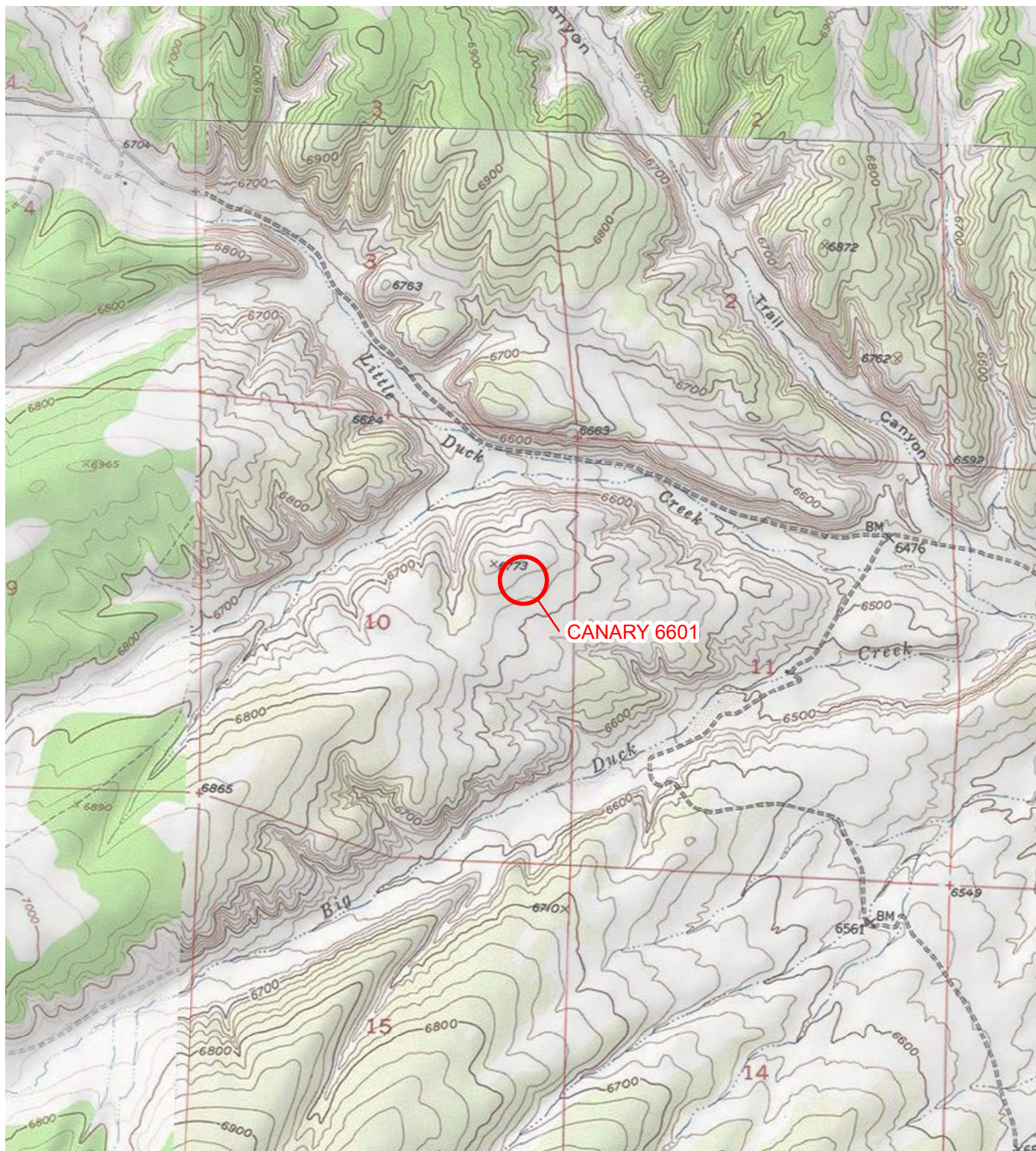


Further remediation activities proposed (attach separate sheet if needed):

During site assessment activities, no hydrocarbon impacts were identified. However, arsenic, electrical conductivity, and pH were observed in concentrations exceeding Table 910-1 allowable limits. (See attached) The Form 4 (Notification of Completion) prepared for this project will detail remediation efforts.

Describe measures taken to prevent problem from reoccurring:

All pits are constructed and maintained in accordance with COGCC Rules 902, 903, 904, and 905.



LEGEND

○ SITE LOCATION

IMAGE COURTESY OF ESRI/BING MAPS

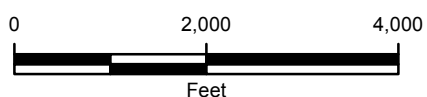


FIGURE 1
SITE LOCATION MAP
CANARY 6601
RIO BLANCO COUNTY, COLORADO

ENCANA OIL & GAS (USA) INC.



Analytes (BDL = Below Detection Limit; ND = Non Detect)

Allowable Concentration -->				Organic Compounds in Soil (mg/kg [ppm])																		Inorganics in Soil		Metals in Soil (mg/kg [ppm])														
Location	Sample Date:	Sample Matrix	Matrix Notes	500	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C36) High Fraction	0.17	85	100	175	1000	1000	0.22	0.22	2.2	0.022	22	0.022	1000	1000	0.22	23	1000	EC (<4 mmhos/cm or 2x background)	SAR (calculation)	pH	Arsenic	Barium - EPA Total Barium	Cadmium	Chromium (III)	Chromium (VI)	Copper	Lead (inorganic)	Mercury	Nickel (soluble salts)	Selenium	Silver	Zinc
				TPH (total volatile and extractable petroleum hydrocarbons)			Benzene	Toluene	Ethylbenzene	Xylenes - total	Acenaphthene	Anthracene	Benzo(A)anthracene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Benzo(A)pyrene	Chrysene	Dibenzo(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-C,D)pyrene	Naphthalene	Pyrene															
Canary 6601	06/19/13	Pit	soil boring N 01 [14-16']	BDL	BDL	BDL	0.0047	BDL	BDL	0.016	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.4	77	11	6.3	410	BDL	21	BDL	8.7	9.7	BDL	8.6	BDL	BDL	31
Canary 6601	06/19/13	Pit	soil boring E 01 [11-12.5']	BDL	BDL	BDL	BDL	BDL	BDL	BDL																												
Canary 6601	06/19/13	Pit	soil boring E 02 [10-12']	328	BDL	328	BDL	BDL	BDL	BDL																												
Canary 6601	06/19/13	Pit	soil boring E 02 [15-17']	55	BDL	55	BDL	BDL	BDL	BDL																												
Canary 6601	06/19/13	Pit	soil boring NE 01 [7-9']	34.4	BDL	34.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.028	BDL	0.79	9.6	8.7	7.2	1600	BDL	11	BDL	7.8	3.2	BDL	5.5	BDL	BDL	22	
Canary 6601	06/19/13	Pit	soil boring SW 01 [8-10']	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.32	3.3	9	3.4	530	BDL	12	BDL	6	2.4	BDL	4.1	BDL	BDL	19	
Canary 6601	06/19/13	Pit	soil boring SE 01 [6-8']	BDL	BDL	BDL	BDL	BDL	BDL	BDL																												