

State of Colorado
Oil and Gas Conservation Commission

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



Location: 314519
Rem: 70
Spill: 2213637
Location: 443091
Document #: 2210469
Date: 12/02/2015

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☒ Other (describe): On-going Investigation and Remediation

OGCC Employee:	
<input type="checkbox"/> Spill	<input type="checkbox"/> Complaint
<input type="checkbox"/> Inspection	<input type="checkbox"/> NOAV
Tracking No:	

OGCC Operator Number: <u>16700</u>	Contact Name and Telephone: <u>Marcelo Barberis</u>
Name of Operator: <u>Chevron USA Inc</u>	No: <u>713-372-0289</u>
Address: <u>1400 Smith Street, Room 07084</u>	Fax: <u>bmal@chevron.com</u>
City: <u>Houston</u> State: <u>TX</u> Zip: <u>77002</u>	
API Number: <u>COGCC Project No. 70</u>	County: <u>Rio Blanco</u>
Facility Name: <u>Wilson Creek</u>	Facility Number: <u>314519</u>
Well Name: <u>Wilson Creek Unit 16</u>	Well Number: <u>NA</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>E/2, SE/4, 27, 3 North, 94 West, 06</u> Latitude: <u>NA</u> Longitude: <u>NA</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Crude, Condensate, Produced Water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☐ Y ☐ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): E&P, recreation (BLM), ranching

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: _____

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Wilson Creek

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input type="checkbox"/> Soils	<u>Refer to attached letter.</u>	_____
<input type="checkbox"/> Vegetation	<u>Refer to attached letter.</u>	_____
<input type="checkbox"/> Groundwater	<u>Refer to attached letter.</u>	_____
<input type="checkbox"/> Surface Water	<u>Refer to attached letter.</u>	_____

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Refer to attached letter dated November 23, 2015:

"RE: Conditionally Approved 2015 Work Plan for the Chevron North America Exploration and Production Company, Wilson Creek Unit, Rio Blanco County, Colorado. COGCC Project No. 70, Northeast Terraced Area, Spill #2213637"

Describe how source is to be removed:

Refer to attached letter dated November 23, 2015:

"RE: Conditionally Approved 2015 Work Plan for the Chevron North America Exploration and Production Company, Wilson Creek Unit, Rio Blanco County, Colorado. COGCC Project No. 70, Northeast Terraced Area, Spill #2213637"

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Refer to attached letter dated November 23, 2015:

"RE: Conditionally Approved 2015 Work Plan for the Chevron North America Exploration and Production Company, Wilson Creek Unit, Rio Blanco County, Colorado. COGCC Project No. 70, Northeast Terraced Area, Spill #2213637"



REMEDIAL WORKPLAN (Cont.)

Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Refer to attached letter dated November 23, 2015:

"RE: Conditionally Approved 2015 Work Plan for the Chevron North America Exploration and Production Company, Wilson Creek Unit, Rio Blanco County, Colorado. COGCC Project No. 70, Northeast Terraced Area, Spill #2213637"

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

Refer to attached letter dated November 23, 2015:

"RE: Conditionally Approved 2015 Work Plan for the Chevron North America Exploration and Production Company, Wilson Creek Unit, Rio Blanco County, Colorado. COGCC Project No. 70, Northeast Terraced Area, Spill #2213637"

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☐ N If yes, describe:

Refer to attached letter dated November 23, 2015:

"RE: Conditionally Approved 2015 Work Plan for the Chevron North America Exploration and Production Company, Wilson Creek Unit, Rio Blanco County, Colorado. COGCC Project No. 70, Northeast Terraced Area, Spill #2213637"

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

Refer to attached letter dated November 23, 2015:

"RE: Conditionally Approved 2015 Work Plan for the Chevron North America Exploration and Production Company, Wilson Creek Unit, Rio Blanco County, Colorado. COGCC Project No. 70, Northeast Terraced Area, Spill #2213637"

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: _____ Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____
Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Christopher Beall (Stantec) Signed: CB

Title: Associate Geologist Date: 11/23/15

OGCC Approved: _____ Title: _____ Date: _____

COGCC concurs in having a meeting in January 2016 to discuss remediation options.

Please propose a date and a place at least two weeks ahead of time.



Stantec Consulting Services Inc.
2000 South Colorado Boulevard, Suite 2-300, Denver CO 80222

November 23, 2015
File: 212201118

Attention: Mr. Carlos Lujan, Ph.D.
Environmental Protection Specialist
Northwest Region
State of Colorado Oil and Gas
Conservation Commission
796 Megan Avenue Suite 201
Rifle, CO 81650

Reference: RE: Conditionally Approved 2015 Work Plan for the Chevron North America Exploration and Production Company, Wilson Creek Unit, Rio Blanco County, Colorado. COGCC Project No. 70, Northeast Terraced Area, Spill #2213637

Dear Mr. Lujan,

Stantec Consulting Services Inc. (Stantec) on behalf of Chevron Environmental Management Company (CEMC) submitted Form 27 with accompanying Work Plan dated April 1, 2015, for the Chevron North America Exploration and Production Company (Chevron), Wilson Creek Unit in Rio Blanco County, Colorado (COGCC Project No. 70). The Colorado Oil and Gas Conservation Commission (COGCC) responded in an email dated April 29, 2015 with conditions of approval (COA) for the Work Plan.

The COA read as follows regarding the Northeast (NE) Terraced Area (Spill #2213637): ***Within sixty (60) days, CEMC shall submit Form 27 to address impacted soils remaining in the seven (7) terraced pits, per Rule 905 b.(1).***

On Form 27 dated June 6, 2015, Stantec on behalf of CEMC submitted to the COGCC the response describing CEMC's plans to address the remaining impacted soils in the NE Terraced Area. The COGCC responded on September 2, 2015 with a rejection of the Form 27 Work Plan and stated in part: ***The Form 27 is being rejected and will not be approved as submitted. A Form 27 Remediation Work Plan shall be submitted to effectively remove and /or treat the impacted soil delineated in the Northeast (NE) Terraced Area Phase II Assessment Report, prepared by Stantec for Chevron, and dated October 31, 2014. The Work Plan shall be submitted by December 2, 2015.***

CEMC is currently evaluating several remedial alternatives for the NE Terraced Area to address the COGCC directive to effectively remove and/or treat the impacted soil.

The recommended alternative is undergoing an internal CEMC review to obtain concurrence and authorization. This internal review is expected to be completed on/or by December 15, 2015. At that time, CEMC will authorize Stantec to prepare the Remediation Work Plan. It will take Stantec



November 23, 2015
Mr. Carlos Lujan, Ph.D.
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Reference: RE: Conditionally Approved 2015 Work Plan for the Chevron North America Exploration and Production Company, Wilson Creek Unit, Rio Blanco County, Colorado. COGCC Project No. 70, Northeast Terraced Area, Spill #2213637

approximately 90 days to complete the Remediation Work Plan that will include an implementation schedule which will then be submitted to the COGCC.

Accordingly, Stantec on behalf of CEMC is requesting an extension to March 31, 2016, for submitting the NE Terraced Area Form 27 Work Plan to the COGCC. A meeting with the COGCC is also being requested for January 2016 in order to discuss the proposed remedial alternative(s) before a formal response (Form 27 Work Plan) is prepared and submitted for the NE Terraced Area.

Your approval of the proposed schedule and activities is requested. Should you have any questions, please contact Marcelo Barberis with CEMC at 713-372-0289 (bmal@chevron.com) or Christopher Beall with Stantec at 970-214-1126 (christopher.beall@stantec.com).

Regards,

STANTEC CONSULTING SERVICES INC.

A handwritten signature in blue ink, appearing to read 'C. Beall'.

Christopher Beall, P.G.
Associate Geologist
Phone: (303) 285-4541
Fax: (303) 758-4828
Christopher.Beall@stantec.com

c.c.Marcelo Barberis, CEMC
Chris Archuleta, Chevron
Julie Justus, Chevron
Tom Madsen, Stantec