

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
REM 70
Received 6/29/2015
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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.

OGCC Employee:
 Spill Complaint
 Inspection NOAV
Tracking No:

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 Operator Number: 16700
Name of Operator: Chevron USA Inc
Address: 1400 Smith Street, Room 07084
City: Houston State: TX Zip: 77002
Contact Name and Telephone:
Marcelo Barberis
No: 713-372-0289
Fax: bmal@chevron.com

API Number: COGCC Project No. 70 County: Rio Blanco
Facility Name: Wilson Creek Facility Number: 93352
Well Name: Wilson Creek Unit 16 Well Number: NA
Location: (QtrQtr, Sec, Twp, Rng, Meridian): E/2, SE/4, 27, 3 North, 94 West, 06 Latitude: NA Longitude: NA

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:
 Soils Refer to attached letter. _____
 Vegetation Refer to attached letter. _____
 Groundwater Refer to attached letter. _____
 Surface Water Refer to attached letter. _____

REMEDATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
Refer to attached letter dated June 8, 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"
Describe how source is to be removed:
Refer to attached letter dated June 8, 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"
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 June 8, 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"



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

REMEDIATION WORKPLAN (Cont.)

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 June 8, 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"

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 June 8, 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"

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 June 8, 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"

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

Refer to attached letter dated June 8, 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"

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: Date: 06/08/15 Title: Associate Geologist

OGCC Approved: Title: Date:



Stantec

Stantec Consulting Services Inc.

2000 South Colorado Boulevard, Suite 2-300, Denver CO 80222

June 8, 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

Dear Mr. Lujan,

On Form 27 (Site Investigation and Remediation Workplan), dated April 1, 2015, Stantec Consulting Services Inc. (Stantec) and Chevron Environmental Management Company (CEMC) submitted to the State of Colorado Oil and Gas Conservation Commission (COGCC) the 2015 Work Plan for the Chevron North America Exploration and Production Company (Chevron), Wilson Creek Unit in Rio Blanco County, Colorado (COGCC Project No. 70). COGCC responded with conditional approval of the Work Plan in an email dated April 29, 2015.

On behalf of CEMC, Stantec has prepared this letter to respond to COGCC's conditions of approval (COA) for activities related to the impacted groundwater plume. Each condition is listed in bold italics, and is immediately followed by Stantec's response.

COGCC COA #1. Within sixty (60) days of approval of this Form 27, submit both the proposed Updated Conceptual Site Model (CSM) and the Alternatives Evaluation for the BTEX Groundwater Plume, specifically addressing phase separated (free product) and dissolved phase hydrocarbons.

Stantec Response. On behalf of CEMC, Stantec is requesting a sixty (60) day extension (**to August 26, 2015**) for submitting the updated CSM and Alternatives Evaluation for the BTEX Groundwater Plume to COGCC. This will provide the time needed for compiling and evaluating the data as well as the appropriate internal quality reviews by both Stantec and CEMC before submittal to the COGCC.



June 8, 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

COGCC COA #2. The CSM must delineate Spill #2213630, the historic condensate release in the vicinity of MW-47A.

Stantec Response. As agreed upon in a May 7, 2015, telephone conversation between Stantec and the COGCC, the CSM will be updated using available historical data from the vicinity of the historic condensate release near MW-47A.

COGCC COA #3. In addition to annual sampling of the monitoring wells and surface water as proposed in Table 1, all wells are to be gauged quarterly to ascertain the presence and thickness of free product as defined by COGCC Table 910-1 (Liquid Hydrocarbons in Soils and Ground Water). The first gauging event and 2015 annual sampling event will take place before June 1, 2015.

Stantec Response. On behalf of CEMC, Stantec will conduct quarterly gauging of all site monitoring wells to ascertain the presence and thickness of free product. As agreed upon in a May 7, 2015, telephone conversation between Stantec and the COGCC, the first quarterly gauging event and 2015 annual groundwater monitoring and sampling event will take place during the week June 8, 2015. The next quarterly gauging event will be schedule for August/September 2015.

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 me 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) 7584828
Christopher.Beall@stantec.com

c. Marcelo Barberis, CEMC
Fairl Dixon, Chevron
Tom Madsen, Stantec