

State of Colorado
Oil and Gas Conservation Commission



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FOR OGCC USE ONLY

REM 9962

Document 2527446

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): _____

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

OGCC Operator Number: 16700

Name of Operator: Chevron

Address: 100 Chevron Rd

City: Rangely State: CO Zip: 81648

Contact Name and Telephone:

Michael Haub

No: 970-675-3814

Fax: 970-675-3800

API Number: 05-103-07274

County: Rio Blanco

Facility Name: Flowline from Fee 73X

Facility Number: Flowline 73X

Well Name: Fee 73X

Well Number: 05-103-07274

Location: (QtrQtr, Sec, Twp, Rng, Meridian): NWSW, 22, 2N, 102W, 6 Latitude: 40.124 Longitude: -108.837

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): crude oil

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.): Non crop Land

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

Potential receptors (water wells within 1/4 mi, surface waters, etc.): No wells, no permanent surface waters

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

Impacted Media (check):

- ☒ Soils
☐ Vegetation
☐ Groundwater
☐ Surface Water

Extent of Impact:

Impacted soils were removed

How Determined:

visible oil staining follow by soil sampling

REMEDIALATION WORKPLAN

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

Provided in Form 19 Initial and supplemental.

Describe how source is to be removed:

Flowline was initially shut in at the well and the header, then repaired and tested.

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.:

No further remediation is proposed at this point as all samples taken from the spill path show organics well below the 500mg/kg threshold. All previously removed soils were taken to the Rangely land farm, and all formation containing liquids were taken to the main Rangely oil and water separation plant.



REMEDIATION WORKPLAN (Cont.)

Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: 447275

OGCC Employee: _____

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

There is no impact to ground water as the depth to groundwater is greater than 5000 feet below ground surface. (6368 ft (DWR well 9119858).

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.

As stated in Form 19 oil was primarily contained in a man made siphon, which is devoid of vegetation and at a lower grade than the surroundings, thus no recontouring or reseeding of siphon is necessary. The remainder of the visibly contaminated soil along the spill path was cleaned by hand with a bucket and shovel having minimal impact to vegetation and grade, thus reseeding and regrading is unnecessary.

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:

Samples show all organic levels meet Table 910 requirements. See attached report.

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

All E&P waste were taken to the Rangely field land farm for disposal as recorded in submitted Form 19

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: <u>8/10/16</u>	Date Site Investigation Completed: <u>8/11/16</u>	Date Remediation Plan Submitted: <u>11/28/16</u>
Remediation Start Date: <u>8/10/16</u>	Anticipated Completion Date: <u>8/19/16</u>	Actual Completion Date: <u>8/18/16</u>

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

Print Name: Michael Haub

Signed: Michael Haub

Title: HES Field Specialist

Date: 11/28/2016

OGCC Approved: Ann Wendel

Title: EPS

Date: 12/19/16

SEE BELOW for COA's

This Form 27, Remediation Workplan was submitted as a condition of NOAV document 401133244.

The Remediation project will remain open until the required information has been received and operator requests closure of project.

Please include pressure testing of flowlines and root cause analysis of spill, including lessons learned to prevent a similar spill from reoccurring.

The Form 27 should be a stand alone document and not merely referencing other submitted documents for additional information.

Provide a comprehensive Form 27 detailing:

- How the Spill/Release occurred
- Activities taken by Chevron to mitigate the Spill/Release
- Activities taken by Chevron to remediate the Spill/Release (including volume of fluid removal and where it was disposed, volume of soil removed and disposed, etc.)
- Explanation of Arsenic and Conductivity
- All analytical
- Pictures, Figures,
- Summary of all information to justify closure.