

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2

REM# 116633
 FAC# 446519
 NOAV# 100408
 DATE: 07/15/2016
 DOC# 2451640

FOR OGCC USE ONLY

Document 2314847
 Received 6/10/2015
 REM 9142

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): _____

OGCC Operator Number: 16700

Name of Operator: Chevron USA, Inc.

Address: 760 Horizon Drive

City: Grand Junction State: CO Zip: 81506

Contact Name and Telephone:

Marcelo Barberis

No: Cell: 832.693.1679 Office: 713.372.0289

Fax: NA

API Number: N/A

County: Rio Blanco

Facility Name: Emergency Pit - Rangely Weber Sand Unit 28

Facility Number: 117364

Well Name: N/A

Well Number: N/A

Location: (QtrQtr, Sec, Twp, Rng, Meridian): SESE 28 2N 102W Latitude: 40.111431 Longitude: -108.844311

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): emergency pressure relief from adjacent collection station

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.): Dry land farming

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.): No wells, Unnamed ephemeral stream 50 ft west of pit

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

Impacted Media (check):

- ☒ Soils
☐ Vegetation
☐ Groundwater
☐ Surface Water

Extent of Impact:

Hydrocarbon impacts to approximately 5 feet below pit bottom

How Determined:

Comparison to similar remediated pit

REMEDIALTION WORKPLAN

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

No initial action taken, this action is part of voluntary pit closure actions.

Describe how source is to be removed:

Excess liquid to be removed with a vacuum truck. All visually identified highly impacted material will be removed by excavating the material from the pit. Confirmation samples from the pit walls and bottom will be collected to ensure that the soil does not exceed COGCC regulatory requirements summarized in Table 910-1. Clean borrow material will be imported from an off-site source. All sample locations from the pit walls and bottom will be surveyed using a global positioning system (GPS) device. If impacted material is still present at a depth equal to the limits of safe excavation (approximately 20 feet bgs), COGCC will be notified for a possible site inspection and to discuss potential options for an alternative path forward.

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.:

Excess liquids removed by vacuum truck will be recycled at the Chevron-operated water treatment facility. Highly impacted soil will be loaded and transported by truck to Chevron-operated landfarm in Rangely CO. In addition, the following COGCC conditions of approval will be followed: • 3-5 discrete samples should be taken from pit wall; with at least one from the true pit bottom, samples should be analyzed for table 910-1. Guidance for sample locations should be taken from rule 910.b(2)B • Final Reclamation should comply with 1004 rules. • Operator should provide notice to Environmental staff Kris Neidel via email (kris.neidel@state.co.us) or phone at 970-871-1963 upon mobilization at begin of work AND when location is ready for pit bottom confirmation samples. • Characterization samples shall be taken of fill material to be used as pit cover, the soil was referred to as "3 feet of clean import material" in initial form 27. • Final report should include aerial photograph depicting exact location of discrete pit wall and bottom samples • Work plan is approved; however additional information and remediation may be required during the course of investigation and remediation. • Notice should be give to COGCC if any groundwater is encountered during remediation.



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

Page 2

REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

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

No groundwater will be impacted.

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.

All fencing, netting, and surrounding piping will be removed prior to impacted soil excavation. Following impacted soil excavation, soil disposal, and confirmation sampling, the excavation will be backfilled and wheel compacted with clean imported soil and existing clean berm material. At least 3 feet of clean import material will be placed and compacted as a final backfill layer in the excavation. The area will be graded to match existing contours and drainage at the plant. A final layer of aggregate will be placed to match the existing adjacent material or the area will be reseeded with a BLM local seed mix. All storm water controls will be removed following final grading.

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:
N/A

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

Proposed waste disposition will be at the Chevron-operated Landfarm in Rangely, CO or a local disposal facility.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: _____ Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____
Remediation Start Date: 6/30/15 Anticipated Completion Date: 10/30/15 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: MARCELO BARBERIS Signed: [Signature]
Title: CHEVRON EMC PM Date: 06/10/15

OGCC Approved: [Signature] Title: EPS II Date: 6/19/2015