

State of Colorado
Oil and Gas Conservation Commission

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



#5985

FOR OGCC USE ONLY

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7/11/2011

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 USA, Inc.

Address: 760 Horizon Drive

City: Grand Junction State: CO Zip: 81506

Contact Name and Telephone:

Eric Page

No: Cell: 832.439.3832/Office: 713.372.1022

Fax: NA

API Number: See attached Table

County: Garfield

Facility Name: Skinner Ridge

Facility Number: See Attached Table

Well Name: See Attached Table

Well Number: See Attached Table

Location: (QtrQtr, Sec, Twp, Rng, Meridian): See Attached Table Latitude: See Attached Table Longitude: See Attached Table

TECHNICAL CONDITIONS

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

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: See Attached Table

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Deer Park Gulch and Clear Creek (for Deer Park locations);

Clear Creek (for the Chapel area).

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

Impacted Media (check):



Soils



Vegetation



Groundwater



Surface Water

Extent of Impact:

TBD - expected to be minimal

How Determined:

To be determined through laboratory soil analysis

REMEDIALTION WORKPLAN

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

Initial soil investigation will include the collection and analysis of soil samples collected from beneath the pit liner. Additionally, background soil samples will be collected during the investigation.

Describe how source is to be removed:

If soil and/or groundwater impacts exceed the regulatory guidelines summarized in Table 910-1, a source removal excavation will be completed at the site.

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.:

If soil impacts exceed the regulatory guidelines, a remediation excavation will be completed to remove the source. Soils removed during the excavation will be landfarmed (if possible) or disposed of at a licensed facility. Upon receipt of confirmation soil samples, the pit will be backfilled to ground surface. It is unlikely that groundwater has been impacted. However if groundwater impacts are identified, an evaluation of the appropriate method of remediation will be completed. All methods of remediation will be further evaluated (if required) once the initial site investigation has been completed.

Submit Page 2 with Page 1

Skinner Ridge 698-xx-xx

FORM
27
Rev 6/99

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

REMEDIAL WORKPLAN (Cont.)

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

No groundwater impacts are anticipated. An assessment of the potential for impact will be evaluated once the analytical results from the initial soil investigation are reviewed.

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.

Upon completion of the site investigation(s) and/or site remediation, the production pits will be backfilled to ground surface. All fencing/netting will be removed (if applicable).

Details of the site reclamation will be included under separate cover in the site Implementation Plan.

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:

Further investigation may be required pending the soil analytical results from the initial investigation. Analytical results will be submitted upon completion of the site investigation. Soil bore locations will be determined in the field by the project geologist (samples will be collected from below the pit liner).

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

E&P waste will be recycled (if possible) or disposed of at a licensed facility.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: TBD - Estimate July 2011 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: ERIC PAGE Signed: [Signature]
Title: PROJECT MANAGER Date: 6/30/11

OGCC Approved: [Signature] Title: FOR Chris Canfield Date: 08/04/2011
EPS NW Region

Table 1
Production Pit Locaton and Identification

| API# | Pit Facility ID | Well Name | Service | Status | Location | Latitude / Longitude | Pit Design / Construction | Liner | Soil Type (sourced from NRCS web soil survey) |
|--------------|-----------------|-----------|------------------------------------|----------------|----------------|------------------------|--------------------------------------|-------------------|---|
| 05-045-09796 | 286029 | 698-28-01 | Drilling/Production/Produced Water | Active - Lined | SESW 28 6S 98W | 39.497794/-108.330692 | 170 x 60 x 10/Capacity 9100 bbls/day | Poly thickness 20 | Happle-Rock outcrop association |
| 05-045-11430 | 286028 | 698-28-02 | Drilling/Production/Produced Water | Active - Lined | SESE 28 6S 98W | 39.498573/-108.339772 | 170 x 60 x 10/Capacity 9100 bbls/day | Poly thickness 16 | Happle-Rock outcrop association |
| 05-045-11429 | 286030 | 698-27-01 | Drilling/Production/Produced Water | Active - Lined | NESW 27 6S 98W | 39.501426/-108.323896 | 170 x 60 x 10/Capacity 9100 bbls/day | Poly thickness 16 | Happle-Rock outcrop association |
| 05-045-10713 | 286033 | 698-11-01 | Drilling/Production/Produced Water | Active - Lined | SESE 11 6S 98W | 39.542395/-108.291180 | 170 x 60 x 10/Capacity 9100 bbls/day | PLIY Thickness 16 | Tosca channery loam |
| 05-045-10714 | 286035 | 698-12-01 | Drilling/Production/Produced Water | Active - Lined | NWSW 12 6S 98W | 39.5444630/-108.284240 | 170 x 60 x 10/Capacity 9100 bbls/day | Poly thickness 16 | Tosca channery loam |
| 05-045-10727 | 286034 | 698-12-02 | Drilling/Production/Produced Water | Active - Lined | SENW 12 6S 98W | 39.5478613/-108.280242 | 170 x 60 x 10/Capacity 9100 bbls/day | Poly thickness 16 | Happle very channery sandy loam |
| 05-045-11039 | 286032 | 698-12-03 | Drilling/Production/Produced Water | Active - Lined | SWNE 12 6S 98W | 39.549705/-108.276386 | 170 x 60 x 10/Capacity 9100 bbls/day | Poly thickness 16 | Tosca channery loam |