

FORM
27
Rev 6/99

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

RECEIVED
5/11/2011

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.

OGCC Employee:

☒ Spill ☐ Complaint
☐ Inspection ☐ NOAV
Tracking No: 2213154

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☒ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☐ Other (describe):

OGCC Operator Number: 10120

Name of Operator: Noble Energy, Inc.

Address: 804 Grand Avenue

City: Platteville State: CO Zip: 80651

Contact Name and Telephone:

Todd Cullum

No: 303-785-5000

Fax: 303-785-5099

API Number: 05-123-17344

County: Weld

Facility Name: Hettinger D30-2, 7, 8 Tank Battery

Facility Number:

Well Name: Hettinger

Well Number: D30-2, 7, 8

Location: (QtrQtr, Sec, Twp, Rng, Meridian): NWNE, 30, 3N, 64W, 6 Latitude: Longitude:

TECHNICAL CONDITIONS

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

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.): pasture

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

Potential receptors (water wells within 1/4 mi, surface waters, etc.): surface water 2,012' SE, water well 300' NW

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

Impacted Media (check):

☒ Soils

☐ Vegetation

☒ Groundwater

☐ Surface Water

Extent of Impact:

20' X 28' X 10'

unknown

How Determined:

excavation

REMEDIALATION WORKPLAN

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

Production was ceased to assess and remediate the impacted soil and groundwater.

Describe how source is to be removed:

Impacted soil and groundwater were removed via excavation. Groundwater impacts will be assessed by monitoring well installation and sampling in the near future.

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.:

During excavation activities, a groundwater remediation amendment was applied to the floor of the excavation to aid in groundwater remediation. Post-remediation monitoring well installation will be conducted to assess the potential for residual groundwater impacts.

REMEDATION WORKPLAN (Cont.)

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Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: Hettinger D30-2, 7, 8
Facility Name & No: Hettinger D30-2, 7, 8 Tank Battery

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

Groundwater will be monitored until four consecutive quarters of results in compliance with COGCC standards are achieved.

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.

The excavation was contained to the tank battery and lease road. The area will be re-constructed as a tank battery with the appropriate road-base material.

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:

Groundwater monitoring wells will be installed to assess the potential for residual groundwater impacts.

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

Impacted soil was removed and hauled to the Buffalo Ridge Landfill in Weld County, Colorado.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 3/24/11 Date Site Investigation Completed: TBD Date Remediation Plan Submitted: _____
Remediation Start Date: 3/24/11 Anticipated Completion Date: 5/1/11 Actual Completion Date: TBD

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

Print Name: Todd Cullum Signed:

Title: Environmental Specialist Date: 4/22/11

OGCC Approved: _____ Title: EPS Date: 5/11/2011