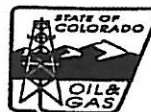


State of Colorado
Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

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): Evaporation pit closure

GENERAL INFORMATION

OGCC Operator Number: 10120		Contact Name and Telephone	
Name of Operator: Noble Energy Inc.		Todd Cullum	
Address: 804 Grand Avenue		No: 970-785-5000	
City: Platteville State: CO Zip: 80651		Fax: 970-785-5099	
API/Facility No: 05-123-13427		County: Weld	
Facility Name: Lilli Unit Battery C-9		Facility Number:	
Well Name: Lilli Unit 4-9		Well Number:	
Location (QtrQtr, Sec, Twp, Rng, Meridian): NENW Sec. 9, T8N, R58W		Latitude: Longitude:	

TECHNICAL CONDITIONS

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

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Stoneham Fine Sandy Loam 6 to 9 percent slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): No name draw south 625'

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

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	Evap. Pit 30' X 50' 167 cu yds.	Visual; Hanby Kit was used during excavation to determine
<input type="checkbox"/> Vegetation	Skim pit 25' X 25' 69 cu yds.	extent of impact. Confirmation composite samples were taken
<input type="checkbox"/> Groundwater	Total cu yds removed 236 cu yds.	and tested for BTEX, TPH, SAR, PH & EC (See attached lab results)
<input type="checkbox"/> Surface water		

REMEDIALATION WORKPLAN

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

Describe how source is to be removed: The walls and floor of both the evaporation and skim pit were excavated until clean samples were achieved by using a Hanby kit that directed the excavation of the contamination.

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.:
236 cu yds of contaminated soils were excavated and hauled to Northern Weld Sanitary Landfill for disposal.

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REMEDIAL WORKPLAN (CONT.)

OGCC Employee: _____

Tracking Number: _____

Name of Operator: Noble Energy Inc.

OGCC Operator No: 10120

Received Date: _____

Well Name & No: Lilli Unit 4-9

Facility Name & No.: Lilli Unit Battery C-9

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

N/A

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.

Evaporation pit has been backfilled with clean soil. The site has been packed and recontoured to existing grade. Seeding operations will begin this fall using a local grass seed mix.

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.):

All contaminated soil has been transported to the North Weld Sanitary Landfill for disposal.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 8/19/2010

Date Site Investigation Completed: _____

Remediation Plan Submitted: 10/26/2010

Remediation Start Date: 9/10/2010

Anticipated Completion Date: _____

Actual Completion Date: 9/20/2010

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: Todd Cullum

Title: Environmental Specialist

Date: October 26, 2010

OGCC Approved: Nancy Prince for

Title: John Axelsson EPS

Date: 10/27/10