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State of Colorado

Oil and Gas Conservation Commission

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



FORM

27

Rev 6/99

FOR OGCC USE ONLY

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AUG 09 2010

COGCC

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): Evaporation pit closure

OGCC Employee:

John Axelsson

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No: 01761113

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: 05-123-25182		County: Weld	
Facility Name: Loyd Farm 1-28		Facility Number:	
Well Name:		Well Number:	
Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE Sec. 33, T12N, R61W		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.): Farm ground

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Thedalund-Keota loam

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Water well 541' to the southeast

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	No contamination found	A composite of 4 samples were taken 6" below surface from the bottom of the evaporation pit, sent to Origins laboratory and was tested for BTEX, TPH, SAR, PH & EC (See attached lab results)
<input type="checkbox"/> Vegetation		
<input type="checkbox"/> Groundwater		
<input type="checkbox"/> Surface water		

REMEDATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
Produced water was routed to newly installed water tank and water production to evaporation pit was stopped.

Describe how source is to be removed: N/A no soil impact found.

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.:
N/A



REMEDIAL WORKPLAN (CONT.)

OGCC Employee:

Axelsson

Tracking Number: 01761113
Name of Operator: Noble Energy Inc.
OGCC Operator No: 10120
Received Date: 8/9/10
Well Name & No:
Facility Name & No.: Loyd Farm 1-28

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, 3" to 4" of cow manure has been mixed with the top soil and recontoured to preexisting grade, will seed with local grass seeds this fall.

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.):

N/A

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 7/15/2010 Date Site Investigation Completed: Remediation Plan Submitted: 8/9/2010
Remediation Start Date: 7/27/2010 Anticipated Completion Date: Actual Completion Date: 7/27/2010

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: August 9, 2010

OGCC Approved: John Cullum Title: EPS Date: 8/9/10