

State of Colorado  
**Oil and Gas Conservation Commission**

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



#8438

FOR OGCC USE ONLY  
Received  
5/14/2014

**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: **2148439**

OGCC Operator Number: 100322

Name of Operator: Noble Energy Inc

Address: 1625 Broadway, Suite 2000

City: Denver State: CO Zip: 80202

Contact Name and Telephone:

Jacob Evans

No: 303-228-4000

Fax: 303-228-4459

API Number: 05-123-11749

County: Weld

Facility Name: Gruen

Facility Number: 322623

Well Name: Gruen

Well Number: 22-1

Location: (QtrQtr, Sec, Twp, Rng, Meridian): NWSW Sec 22, T6N, R64W, 6M Latitude: 40.4696 Longitude: -104.5435

**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: Sandy clay to 16'

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Water well ~1,850 feet southwest (domestic & stock)

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

Impacted Media (check):



Soils

Extent of Impact:

40' x 60'

How Determined:

Excavation



Vegetation



Groundwater



Surface Water

**REMEDIATION WORKPLAN**

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

During maintenance activities, soil impacts were observed at the well head. Impacted soil was removed between March 17 and 22, 2014. See document# 2148439

**Describe how source is to be removed:**

Excavation of impacted area was completed on March 22, 2014. Approximately 550 cubic yards of soil were removed. A photoionization detector (PID) was used for field screening of sidewall and floor samples with confirmation soil analyses conducted by eAnalytics Lab of Loveland, CO.

**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.:**

Excavation completed, soil transported to Waste Management's Ault, CO landfill.



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Facility Name & No:

REMEDIATION WORKPLAN (Cont.)

OGCC Employee: R. Allison

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

Ground water was not impacted. Therefore, no additional ground water investigation is required.

**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 surface was recontoured to match the existing grade; topsoil was placed at the surface. Reseeding of the surface will be conducted during the Spring of 2014.

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:

See Excavation Report dated May 7, 2014 for this site for additional description and laboratory analyses. This site has been fully remediated; therefore, Noble requests a No Further Action determination be provided by the COGCC.

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

All petroleum impacted soil was transported and disposed at Waste Management's landfill in Ault, CO.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 1625 Broadway, Suite 2000

Date Site Investigation Completed: Denver

Date Remediation Plan Submitted: CO

Remediation Start Date: 80202

Anticipated Completion Date: Jacob Evans

Actual Completion Date: 303-228-4000

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

Print Name: 303-228-4459

Signed:

Jacob  
Evans

Digitaly signed by: Jacob Evans  
DN: CN = Jacob Evans C = AD O = Noble Energy Inc.  
Date: 2014.05.14 08:35:00 -06'00'

Title: 05-123-11749

Date: Weld

OGCC Approved:

Title: Northeast EPS

Date: 5/21/2014