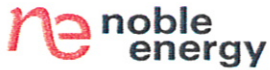


1625 Broadway  
Suite 2200.  
Denver, CO 80202



Tel: 303.228.4000  
Fax: 303.228.4286  
www.nobleenergyinc.com

North America Division

October 12, 2011

Chris Canfield, P.G.  
Environmental Protection Specialist, Northwest Region  
Colorado Oil & Gas Conservation Commission  
707 Wapiti Court  
Suite 204  
Rifle, CO 81650

RE: **Spill Release Tracking # 2216372**  
Double B Ranch #18-44 (Rulison 17M Pad)  
Form 27  
NWSE Sec. 17 T7S R94W  
Garfield County, Colorado

Dear Mr. Canfield:

Please see the attached Form 27 and laboratory data for a release that occurred on September 19, 2011.

Noble Energy would like to claim business confidentiality protection for the information submitted in this letter, the supporting materials attached and all previous and subsequent correspondence related to this matter.

If you require any additional information please contact Ryan Bruner 303-228-4158.

Sincerely,

NOBLE ENERGY, INC.

A handwritten signature in blue ink, appearing to read 'R. Bruner', followed by a horizontal line.

Ryan Bruner  
Environmental Coordinator

Attachments

# State of Colorado Oil and Gas Conservation Commission



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

#6606

FOR OGCC USE ONLY

**RECEIVED**  
 10/12/2011

## 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: **2216372**

OGCC Operator Number: 10322

Name of Operator: Noble Energy Inc.

Address: 1625 Broadway, Suite 2200

City: Denver State: CO Zip: 80202

Contact Name and Telephone:

Ryan Bruner

No: 303-228-4158

Fax: 303-228-4286

API Number: 05-045-18782

County: Garfield

Facility Name: NA

Facility Number: NA

Well Name: Double B Ranch

Well Number: 18-44A

Location: (QtrQtr, Sec, Twp, Rng, Meridian): NWSE Sec. 17 T7S R94W 6th PM Latitude: 39.433462 Longitude: -107.917815

### 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.): non irrigated rangeland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Morvall-Tridell Complex, 6-25 degree slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Cottonwood Creek, Cache Creek

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

Impacted Media (check):



Soils

Extent of Impact:

See form 19

How Determined:

Visually



Vegetation

NA

NA



Groundwater

NA

NA



Surface Water

NA

NA

### REMEDIALATION WORKPLAN

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

Transfer pumps were shut down immediately upon discovery. Vac truck recovered standing water. ECOS Environmental was contacted and soil samples were taken in area of release. See form 19.

Describe how source is to be removed:

Transfer pumps were shut down immediately. See form 19.

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.:

Analytical results for samples WC1-A, WC1-B indicate DRO, SAR and EC exceed COGCC 910-1 standards.

Impacted soil will be removed and landfarmed on the lower drilling pad. Analytical results for samples WC2-A through WC5-A, in the borrow ditch, indicate SAR and EC exceed COGCC 910-1 standards. These impacts will be remediated by natural flushing of stormwater through the borrow ditch system. Stormwater BMP's have been cleaned and/or replaced to prevent any further contaminant migration.

Submit Page 2 with Page 1

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



Page 2  
**REMEDIATION WORKPLAN (Cont.)**

Tracking Number: \_\_\_\_\_  
Name of Operator: \_\_\_\_\_  
OGCC Operator No: \_\_\_\_\_  
Received Date: \_\_\_\_\_  
Well Name & No: Double B Ranch 18-44A  
Facility Name & No: \_\_\_\_\_

OGCC Employee: \_\_\_\_\_

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

Groundwater was not encountered during site assessment.

**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.

Impacted soils on pad will be excavated and removed for landfarming onsite. ECOS Personnel will inspect area with PID to determine levels of volatile organic compounds and direct excavation. The pad will be backfilled with clean fill.

Offsite impact was limited to the borrow ditch and stormwater BMP's. Noble has removed sediment from settling ponds and replaced rock check dams. Analytical results show GRO-DRO and BTEX in the borrow ditch are below detection limits or below COGCC 910-1 standards. Increased SAR and EC levels in the borrow ditch will be mitigated by natural flushing through the stormwater BMP system.

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:

Noble will monitor SAR and EC levels in the stormwater system next spring to ensure levels meet 910-1 requirements.

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

Petroleum contaminated soils will be landfarmed onsite at the lower drilling pad. The recovered produced water has been placed into Noble produced water tanks for reuse or disposal. Sediment from the stormwater settling ponds and rock check dams has been disposed of at the Garfield County Landfill.

**IMPLEMENTATION SCHEDULE**

Date Site Investigation Began: 9/19/2011 Date Site Investigation Completed: 10/5/11 Date Remediation Plan Submitted: \_\_\_\_\_  
Remediation Start Date: upon approval Anticipated Completion Date: TBD 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: Ryan Bruner

Signed:

Title: Environmental Coordinator

Date: 10-12-11

OGCC Approved:   
Title: FOR Chris Camfield Date: 10/27/2011  
EPS NW Region

- COA:
- 1) Keep COGCC informed of remediation progress
  - 2) Notify COGCC of completion, so that remediation project can be closed.