

State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY
Received 6/8/2015
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REM 9135

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: 400802484

OGCC Operator Number: 100322

Name of Operator: Noble Energy, Inc.

Address: 2115 117th Avenue

City: Greeley State: CO Zip: 80634

Contact Name and Telephone:

Jacob Evans

No: 970.304.5329

Fax: (970) 304-5099

API Number: 05-123-38653

County: Weld

Facility Name: Wells Ranch AE30-66-1BHNB

Facility Number: 435539

Well Name: Wells Ranch

Well Number: AE30-66-1BHNB

Location: (QtrQtr, Sec, Twp, Rng, Meridian): SWNW 29 6N 62W 6 PM Latitude: 40.457800 Longitude: -104.355300

TECHNICAL CONDITIONS

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

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Silty Sand

Potential receptors (water wells within 1/4 mi, surface waters, etc.): N/A

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

Impacted Media (check):



Soils

Extent of Impact:

Unknown

How Determined:

TBD via site assessment



Vegetation



Groundwater



Surface Water

REMEDIATION WORKPLAN

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

During routine maintenance activities, surfacing of crude oil and produced water was observed. Limited excavation activities were conducted to determine the extent of soil impacts. Five soil samples were collected from 5' to 7' bgs for laboratory analysis.

Describe how source is to be removed:

Analytical results indicate there are elevated TPH and benzene concentrations in the soil at 5' to 7' bgs. The source area soil will be remediated via an in-situ soil vapor extraction system.

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.:

The impacted soil will be treated on site via in-situ soil vapor extraction. Once vapor emission concentrations reach asymptotic levels, discrete confirmation soil samples will be collected at impacted locations and analyzed for BTEX, TPH, and naphthalene.



REMEDIATION WORKPLAN (Cont.)

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Tracking Number: 400802484
Name of Operator: Noble Energy, Inc.
OGCC Operator No: 100322
Received Date: 6/8/2015
Well Name & No: Wells Ranch AE30-66-1BHNB
Facility Name & No: Wells Ranch AE30-66-1BHNB 435539

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

Groundwater was not encountered.

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.

Reclamation activities at the site will be compliant with COGCC regulations.

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:

The results of the soil treatment will be provided under a separate cover.

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

The impacted soil will be treated on site via in-situ soil vapor extraction.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 2/27/2015 Date Site Investigation Completed: --- Date Remediation Plan Submitted: 6/8/2015
Remediation Start Date: --- Anticipated Completion Date: --- 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: Jacob Evans

Signed:

Jacob Evans

Digitally signed by Jacob Evans
DN: cn=Jacob Evans, o=Noble Energy, Inc., ou,
email=j.evans@nobleenergyinc.com, c=US
Date: 2015.06.08 09:04:09 -06'00'

Title: Senior Environmental Specialist

Date: 6/8/2015

OGCC Approved: _____ Title: Northeast EPS Date: 6/12/2015

Condition of Approval: Define the vertical and horizontal extent of impacts to soil. Report the results in a future report, but no later than 90 days from the approval of this Form 27.

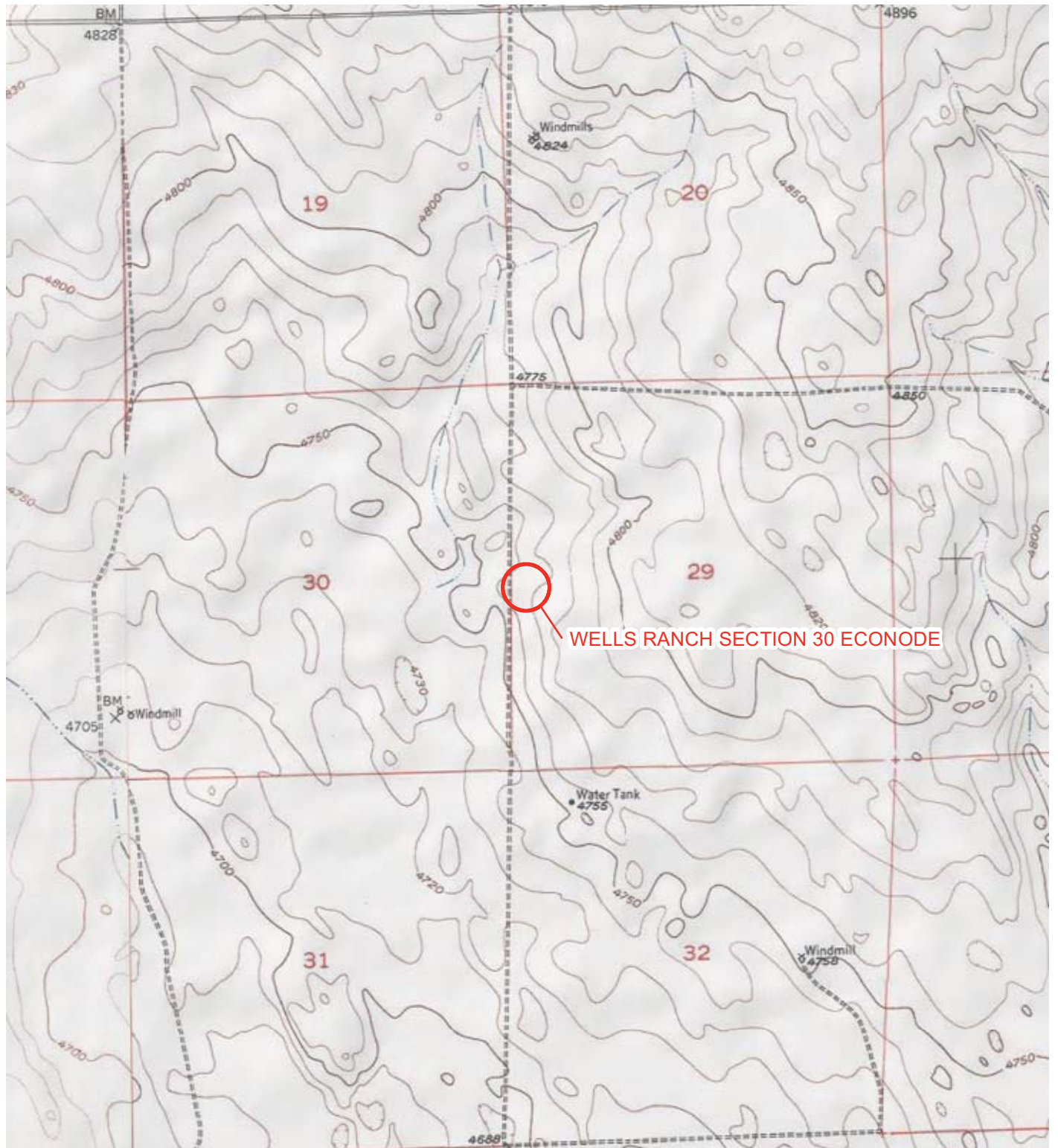


IMAGE COURTESY OF ESRI/USGS

LEGEND

○ SITE LOCATION

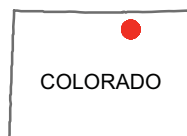
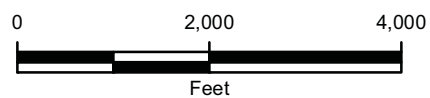


FIGURE 1
SITE LOCATION MAP
WELLS RANCH SECTION 30 ECONODE
WELD COUNTY, COLORADO

NOBLE ENERGY, INC.

