

State of Colorado
Oil and Gas Conservation Commission



FOR OGCC USE ONLY

RECEIVED
10/9/2012

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

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): _____

OGCC Operator Number: <u>10120</u>	Contact Name and Telephone: <u>Jacob Evans</u>
Name of Operator: <u>Noble Energy, Inc.</u>	No: <u>720-587-2026</u>
Address: <u>2115 117th Ave</u>	Fax: <u>303-228-4286</u>
City: <u>Greeley</u> State: <u>CO</u> Zip: <u>80634</u>	

API Number: <u>05-123-12728</u>	County: <u>Weld</u>
Facility Name: <u>Angelina G</u>	Facility Number: <u>323216</u>
Well Name: <u>Angelina Romero</u>	Well Number: <u>1,2</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWNW Sec. 3, T4N, R65W</u> Latitude: <u>40.34668</u> Longitude: <u>-104.65658</u>	

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: topsoil underlain by sand and gravel

Potential receptors (water wells within 1/4 mi, surface waters, etc.): S. Branch Union Ditch, Lower Latham Reservoir

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	<u>Within Location Boundary ~10 feet</u>	<u>Excavation</u>
<input type="checkbox"/> Vegetation	_____	_____
<input checked="" type="checkbox"/> Groundwater	<u>On location with impacts extending north</u>	<u>Monitoring Wells</u>
<input type="checkbox"/> Surface Water	_____	_____

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
See Form 19

Describe how source is to be removed:
In 2010, impacted soil was excavated. Noble intends to activated air sparging and soil vapor extraction in September 2012 to address residual groundwater impacts.

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.:
Impacted soil was excavated and removed in 2010. Air sparging and soil vapor extraction will be employed to remediate impacted groundwater.



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

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REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):
Six existing monitoring wells are used to monitor groundwater quality at the site. These wells are monitored on a quarterly basis for BTEX by EPA method 8260

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.
After soil excavation in 2010, the site was recontoured and put back in service. Only pasture to the north will be affected by air sparging and soil vapor extraction wells.

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:

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):
Impacted soil was transported to Waste Management's Buffalo Ridge landfill in Keenesburg, Colorado

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: August 2010 Date Site Investigation Completed: October 2010 Date Remediation Plan Submitted: 10/9/2012
Remediation Start Date: 10/1/2012 Anticipated Completion Date: 2013 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
Title: Senior Environmental Specialist Date: 10/9/2012

OGCC Approved: _____ Title: _____ Date: _____