

State of Colorado
Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

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Project No. 8666
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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: 2147717

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☒ Other (describe): No Further Action Request

GENERAL INFORMATION

OGCC Operator Number: 8960		Contact Name and Telephone	
Name of Operator: Bonanza Creek Energy Operating Company LLC		Name: Brian Dodek	
Address: 410 17th Street, Suite 1400		No: 720-225-6653	
City: Denver State: CO Zip: 80202		Fax: 720-279-2331	
API/Facility No: 05-123-37286		County: Weld	
Facility Name: Antelope F-31 Tank Battery		Facility Number: 429990	
Well Name: Antelope K-O-31HNB		Well Number:	
Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW 31-T5N-R62W		Latitude: 40.361866 Longitude: -104.370974	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Condensate and Produced Water		
Site Conditions: Is location within a sensitive area (according to Rule 901e)? <input type="checkbox"/> Y <input checked="" type="checkbox"/> 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: Valent Sand		
Potential receptors (water wells within 1/4 mi, surface waters, etc.): Water well 1,200 ft. 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	35' N-S x 50' W-E x 8-inches (inside containment)	Visual delineation during removal
<input type="checkbox"/> Vegetation		
<input type="checkbox"/> Groundwater		
<input type="checkbox"/> Surface water		

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document): A Form 19 detailing the release and initial response actions was submitted on February 13, 2014 (Doc #2147717).
Describe how source is to be removed: Due to a frozen separator dump valve, 40 bbl of oil were released into lined, steel, secondary containment. A vacuum truck was used to recover all the released oil and pump the oil back into the production tank. The impacted gravel ballast from the release area was removed and hauled to a licensed disposal facility. After removal of the impacted gravel ballast, clean gravel ballast was imported to backfill the containment.
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 gravel ballast was transported to Waste Management's Buffalo Ridge landfill in Keenesburg, Colorado.

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REMEDIATION WORKPLAN (CONT.)

OGCC Employee: **R. Allison**

Tracking Number:	2147717
Name of Operator:	Bonanza Creek Energy Operating Company LLC
OGCC Operator No:	8960
Received Date:	9/18/2014
Well Name & No:	Antelope K-O-31HNB
Facility Name & No.:	Antelope F-31 Tank Battery-429990

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

No groundwater was impacted from the release as it remained completely within lined containment.

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 Bonanza Creek production facility remains at the site. As the release occurred within the lined tank battery containment, reclamation is not necessary.

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:

Due to the release occurring completely within lined, steel, secondary containment, the entire volume of the release was transferred to the production tank. Any residual impact in the gravel ballast was removed and hauled to a licensed disposal facility. Clean gravel ballast was imported to backfill the containment. As the impacts from the release have been completely remediated, Bonanza Creek is requesting a No Further Action determination for this site.

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

The impacted gravel ballast was transported to Waste Management's Buffalo Ridge landfill in Keenesburg, Colorado.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began:	2/11/14	Date Site Investigation Completed:	2/11/14	Remediation Plan Submitted:	9/18/14
Remediation Start Date:	2/11/14	Anticipated Completion Date:	NA	Actual Completion Date:	2/21/2014

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

Print Name: **Brian Dodek**Signed: Brian Dodek Title: **Environmental Specialist** Date: **9/18/14**OGCC Approved: _____ Title: **Northeast EPS** Date: **10/03/2014**