

**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

Received 9/18/2014  
Project No. 8666  
Document No. 2614956

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

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Spill                       Complaint  
 Inspection                 NOAV

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Tracking No: **2147717**

**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): No Further Action Request

**GENERAL INFORMATION**

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

**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)?  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: Valent Sand

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Water well 1,200 ft. southeast

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**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>35' N-S x 50' W-E x 8-inches (inside containment)</u>	<u>Visual delineation during removal</u>
<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).

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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.

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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 [X] 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

Table with 4 columns: Date Site Investigation Began, Date Site Investigation Completed, Remediation Plan Submitted, Remediation Start Date, Anticipated Completion Date, Actual Completion Date. Values include 2/11/14, NA, 9/18/14, 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: [Signature] Title: Environmental Specialist Date: 9/18/14

OGCC Approved: \_\_\_\_\_ Title: Northeast EPS Date: 10/03/2014