

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

402595603

Receive Date:

04/29/2021

Report taken by:

RICK ALLISON

## Site Investigation and Remediation Workplan (Initial Form)

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. However, this shall not preclude the Operator from taking immediate action to protect public health or safety, the environment, wildlife, or livestock.

This Form 27 describes site conditions as currently understood by the Operator; approval of this Form 27 by COGCC is based on the site conditions accurately described herein; any changes in site conditions identified during or subsequent to the performance of the approved workplan may necessitate additional investigation or remediation which shall be described on a supplemental Form 27. This Form 27 is intended to provide basic information regarding the proposed site investigation and remediation actions, but the workplan may be more fully described in attached documentation.

Refer to Rules 340, 905, 906, 907, 908, 909, and 910

### OPERATOR INFORMATION

|   |                  |                                    |                               |
|---|------------------|------------------------------------|-------------------------------|
| Name of Operator: <u>BONANZA CREEK ENERGY OPERATING COMPANY LLC</u> |                  | Operator No: <u>8960</u>           | <b>Phone Numbers</b>          |
| Address: <u>410 17TH STREET SUITE #1400</u>                         |                  | Phone: <u>(720) 315-8934</u>       |                               |
| City: <u>DENVER</u>   | State: <u>CO</u> | Zip: <u>80202</u>                  | Mobile: <u>(970) 573-3163</u> |
| Contact Person: <u>Luke Kelly</u>                                   |                  | Email: <u>Lkelly@bonanzacr.com</u> |                               |

### PROJECT, PURPOSE & SITE INFORMATION

#### PROJECT INFORMATION

Remediation Project #: 17892 Initial Form 27 Document #: 402595603

#### PURPOSE INFORMATION

- |  |   |
|--|---|
| <input type="checkbox"/> 901.e. Sensitive Area Determination                                       | <input type="checkbox"/> 909.c.(5), Rule 910.b.(4): Remediation of impacted ground water  |
| <input type="checkbox"/> 909.c.(1), Rule 905: Pit or PW vessel closure                             | <input type="checkbox"/> Rule 909.e.(2)A.: Notice completion of remediation in accordance with Rule 909.b.  |
| <input type="checkbox"/> 909.c.(2), Rule 906: Spill/Release Remediation                            | <input type="checkbox"/> Rule 909.e.(2)B.: Closure of remediation project   |
| <input type="checkbox"/> 909.c.(3), Rule 907.e.: Land treatment of oily waste                      | <input type="checkbox"/> Rule 906.c.: Director request  |
| <input type="checkbox"/> 909.c.(4), Rule 908.g.: Centralized E&P Waste Management Facility closure | <input checked="" type="checkbox"/> Other <u>Wellhead cut/cap, off-location flowline removal, tank and associated production facilities closure</u> |

#### SITE INFORMATION

Y Multiple Facilities ( in accordance with Rule 909.c. )

|  |                            |                            |  |
|--|----------------------------|----------------------------|--|
| Facility Type: <u>WELL</u>                     | Facility ID: _____         | API #: <u>123-25829</u>    | County Name: <u>WELD</u>                                       |
| Facility Name: <u>NORTH PLATTE 23-24</u>       |                            | Latitude: <u>40.382860</u> | Longitude: <u>-104.386920</u>                                  |
| ** correct Lat/Long if needed: Latitude: _____ |                            | Longitude: _____           |  |
| QtrQtr: <u>NESW</u>                            | Sec: <u>24</u>             | Twp: <u>5N</u>             | Range: <u>63W</u> Meridian: <u>6</u> Sensitive Area? <u>No</u> |
| Facility Type: <u>LOCATION</u>                 | Facility ID: <u>310067</u> | API #: _____               | County Name: <u>WELD</u>                                       |
| Facility Name: <u>North Platte 23-24</u>       |                            | Latitude: <u>40.382860</u> | Longitude: <u>-104.386920</u>                                  |
| ** correct Lat/Long if needed: Latitude: _____ |                            | Longitude: _____           |  |
| QtrQtr: <u>NESW</u>                            | Sec: <u>24</u>             | Twp: <u>5N</u>             | Range: <u>63W</u> Meridian: <u>6</u> Sensitive Area? <u>No</u> |
| Facility Type: <u>OFF-LOCATION FLOWLINE</u>    | Facility ID: <u>478703</u> | API #: _____               | County Name: <u>WELD</u>                                       |
| Facility Name: <u>North Platte 23-24</u>       |                            | Latitude: <u>40.382860</u> | Longitude: <u>-104.386920</u>                                  |
| ** correct Lat/Long if needed: Latitude: _____ |                            | Longitude: _____           |  |
| QtrQtr: <u>NESW</u>                            | Sec: <u>24</u>             | Twp: <u>5N</u>             | Range: <u>63W</u> Meridian: <u>6</u> Sensitive Area? <u>No</u> |

#### SITE CONDITIONS

General soil type - USCS Classifications SP

Most Sensitive Adjacent Land Use Rangeland

Is domestic water well within 1/4 mile? No

Is surface water within 1/4 mile? No

Is groundwater less than 20 feet below ground surface? No

**Other Potential Receptors within 1/4 mile**

No surface water within 1/4 of a mile.  
The Monitoring Well (DWR Receipt 0014361) approx 850-ft to the NE is the nearest permitted water well. This well was never constructed. The planned construction depth was 150-ft, no static water level recorded. Monitoring Well (DWR Receipt 0304177H) is approx 2070-ft to the SE. This well was constructed to 90-ft, is now abandoned, no static water level recorded. Stock Well (DWR Receipt # 9065622) is approx 2170-ft S. This well was constructed to 88-ft, no static water level recorded.  
Unknown Water Well (DWR Receipt # 2007113) is approx 2340-ft S. This well was constructed to 80-ft, is now abandoned, no static water level recorded. Monitoring Well (DWR Receipt # 0304177G) is approx 2540-ft SW. This well was constructed to 67-ft, is now abandoned, no static water level recorded.  
Groundwater less than 20 ft is not expected at the disturbance location.  
This location is within a HPH Pronghorn Winter Concentration Area.

**SITE INVESTIGATION PLAN**

**TYPE OF WASTE:**

- E&P Waste
  - Produced Water
  - Oil
  - Condensate
  - Drilling Fluids
  - Drill Cuttings
  - Other E&P Waste
  - Workover Fluids
  - Tank Bottoms
  - Piggings Waste
  - Rig Wash
  - Spent Filters
  - Pit Bottoms
  - Other (as described by EPA)
  - Non-E&P Waste
- No waste has been generated to date \_\_\_\_\_

**DESCRIPTION OF IMPACT**

| Impacted?    | Impacted Media | Extent of Impact | How Determined        |
|--------------|----------------|------------------|-----------------------|
| UNDETERMINED | SOILS          | N/A              | Laboratory Analytical |

**INITIAL ACTION SUMMARY**

Description of initial action or emergency response measures take to abate, investigate, and/or remediate impacts associated with E&P Waste.

A site investigation will be conducted pursuant to COGCC rule 911 at the North Platte 23-24 oil and gas location pertaining to the cut/cap of the NP 24-24 wellhead (API: 05-0123-25829), decommission of production facilities and removal of the NP 23-24/4/GP Line. This flowline, approximately 480-ft, will be removed. See site map exhibit for details.

**PROPOSED SAMPLING PLAN**

**Proposed Soil Sampling**

Will soil samples be collected as part of this investigation? ( Number, type (grab/composite), analyses, and locations of samples ):

Grab confirmation soil samples will be collected from beneath the above ground oil tank, water vaults, separator, wellhead, and flowline start/end points. A grab confirmation soil sample will be collected from beneath the produced water vault as well as from the side wall that indicated the highest field screening levels. Soil samples will be analyzed by a certified laboratory for TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons), organic compounds in soil per COGCC Table 915-1, and EC, SAR, pH, and boron. All samples collected will be analyzed by a certified laboratory using approved COGCC laboratory analysis methods.

**Proposed Groundwater Sampling**

Will groundwater samples be collected as part of this investigation? ( Number, analyses, and locations of samples ):

If groundwater is encountered during the site investigation a grab groundwater sample will be collected and analyzed for all organic compounds per COGCC Table 915-1.

**Proposed Surface Water Sampling**

Will surface water samples be collected as part of this investigation? ( Number, analyses, and locations of samples ):

**Additional Investigative Actions**

Additional alternative investigative actions described in attached Site Investigation Plan ( summary ):

Visual inspection of the location will occur during abandonment activities. Field personnel will field screen all disturbed areas using visual and olfactory senses to determine if laboratory confirmation sampling is required. The COGCC Flowline Closure, Tank Battery Closure, and Wellhead Closure Checklists will be utilized and filled out during the abandonment process. A photolog will be submitted on the Subsequent Form 27.

# SITE INVESTIGATION REPORT

## SAMPLE SUMMARY

### Soil

Number of soil samples collected 0  
Number of soil samples exceeding 910-1 \_\_\_\_\_  
Was the areal and vertical extent of soil contamination delineated? \_\_\_\_\_  
Approximate areal extent (square feet) \_\_\_\_\_

### NA / ND

\_\_\_\_\_ Highest concentration of TPH (mg/kg) \_\_\_\_\_  
\_\_\_\_\_ Highest concentration of SAR \_\_\_\_\_  
\_\_\_\_\_ BTEX > 910-1 \_\_\_\_\_  
\_\_\_\_\_ Vertical Extent > 910-1 (in feet) \_\_\_\_\_

### Groundwater

Number of groundwater samples collected 0  
Was extent of groundwater contaminated delineated? No  
Depth to groundwater (below ground surface, in feet) \_\_\_\_\_  
Number of groundwater monitoring wells installed \_\_\_\_\_  
Number of groundwater samples exceeding 910-1 \_\_\_\_\_

\_\_\_\_\_ Highest concentration of Benzene (µg/l) \_\_\_\_\_  
\_\_\_\_\_ Highest concentration of Toluene (µg/l) \_\_\_\_\_  
\_\_\_\_\_ Highest concentration of Ethylbenzene (µg/l) \_\_\_\_\_  
\_\_\_\_\_ Highest concentration of Xylene (µg/l) \_\_\_\_\_  
\_\_\_\_\_ Highest concentration of Methane (mg/l) \_\_\_\_\_

### Surface Water

0 Number of surface water samples collected  
\_\_\_\_\_ Number of surface water samples exceeding 910-1  
If surface water is impacted, other agency notification may be required.

## OTHER INVESTIGATION INFORMATION

Were impacts to adjacent property or offsite impacts identified?

Were background samples collected as part of this site investigation?

Was investigation derived waste (IDW) generated as part of this investigation?

Volume of solid waste (cubic yards) \_\_\_\_\_ Volume of liquid waste (barrels) \_\_\_\_\_

Is further site investigation required?

# REMEDIAL ACTION PLAN

## SOURCE REMOVAL SUMMARY

Describe how source is to be removed.

N/A

## REMEDIATION SUMMARY

Describe how remediation of existing impacts to soil and groundwater is to be accomplished (i.e. summarize remedial action plan). Provide a brief narrative description including: technical justification, schedule for implementation, estimated time to attain NFA status, plus plans and specifications for the selected remedial action technology.

N/A

## Soil Remediation Summary

### In Situ

- \_\_\_\_\_ Bioremediation ( or enhanced bioremediation )
- \_\_\_\_\_ Chemical oxidation
- \_\_\_\_\_ Air sparge / Soil vapor extraction
- \_\_\_\_\_ Natural Attenuation
- \_\_\_\_\_ Other \_\_\_\_\_

### Ex Situ

- \_\_\_\_\_ Excavate and offsite disposal
- \_\_\_\_\_ If Yes: Estimated Volume (Cubic Yards) \_\_\_\_\_
- \_\_\_\_\_ Name of Licensed Disposal Facility or COGCC Facility ID # \_\_\_\_\_
- \_\_\_\_\_ Excavate and onsite remediation
- \_\_\_\_\_ Land Treatment
- \_\_\_\_\_ Bioremediation (or enhanced bioremediation)
- \_\_\_\_\_ Chemical oxidation
- \_\_\_\_\_ Other \_\_\_\_\_

## Groundwater Remediation Summary

- \_\_\_\_\_ Bioremediation ( or enhanced bioremediation )
- \_\_\_\_\_ Chemical oxidation
- \_\_\_\_\_ Air sparge / Soil vapor extraction
- \_\_\_\_\_ Natural Attenuation
- \_\_\_\_\_ Other \_\_\_\_\_

## GROUNDWATER MONITORING

If groundwater has been impacted, describe proposed monitoring plan, including # of wells or sample points, monitoring schedule, analytical methods, points of compliance. Attach a groundwater monitoring location diagram.

# REMEDIATION PROGRESS UPDATE

## PERIODIC REPORTING

**Frequency:**  Quarterly  Semi-Annually  Annually  Other Closure Report \_\_\_\_\_

**Report Type:**  Groundwater Monitoring  Land Treatment Progress Report  O&M Report

Other \_\_\_\_\_

## WASTE DISPOSAL INFORMATION

Was E&P waste generated as part of this remediation? \_\_\_\_\_

Describe beneficial use, if any, of E&P Waste derived from this remediation project:

Volume of E&P Waste (solid) in cubic yards \_\_\_\_\_

E&P waste (solid) description \_\_\_\_\_

COGCC Disposal Facility ID #, if applicable: \_\_\_\_\_

Non-COGCC Disposal Facility: \_\_\_\_\_

Volume of E&P Waste (liquid) in barrels \_\_\_\_\_

E&P waste (liquid) description \_\_\_\_\_

COGCC Disposal Facility ID #, if applicable: \_\_\_\_\_

Non-COGCC Disposal Facility: \_\_\_\_\_

## RECLAMATION PLAN

### RECLAMATION PLANNING

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.

Reclamation will be in accordance with COGCC 1000 Series Rules.

Is the described reclamation complete?  No \_\_\_\_\_

Does the reclamation described herein constitute interim or final reclamation of the Oil and Gas Location?

Interim?  Final?

Did the Surface Owner approve the seed mix? \_\_\_\_\_

If NO, does the seed mix comply with local soil conservation district recommendations? \_\_\_\_\_

## IMPLEMENTATION SCHEDULE

### PRIOR DATES

Date of Surface Owner notification/consultation, if required. 02/11/2021

Actual Spill or Release date, if known. \_\_\_\_\_

### SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 05/17/2021

Date of commencement of Site Investigation. \_\_\_\_\_

Date of completion of Site Investigation. \_\_\_\_\_

### REMEDIAL ACTION DATES

Date of commencement of Remediation. \_\_\_\_\_

Date of completion of Remediation. \_\_\_\_\_

### SITE RECLAMATION DATES

Date of commencement of Reclamation. \_\_\_\_\_

Date of completion of Reclamation. \_\_\_\_\_

**OPERATOR COMMENT**

This Form 27 Intent is submitted prior to decommissioning multiple related assets:

- Cut/cap of the North Platte 23-24 well (05-123-25829)
- Decommission North Platte 23-24 location (310067)
- Removal of all on-location flowlines at North Platte 23-24 location (310067); includes North Platte 23-24 wellhead line
- Removal of off-location flowline NP 23-24/4/GP Line from within the Bonanza Creek Flowline System (478703)

See attached Site Map for details.

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

Signed: Ashley Noonan \_\_\_\_\_

Title: Sr. Regulatory Analyst \_\_\_\_\_

Submit Date: 04/29/2021 \_\_\_\_\_

Email: regulatory@bonanzacrk.com \_\_\_\_\_

Based on the information provided herein, this Application for Site Investigation and Remediation Workplan complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: RICK ALLISON \_\_\_\_\_

Date: 04/30/2021 \_\_\_\_\_

Remediation Project Number: 17892 \_\_\_\_\_

**Condition of Approval****COA Type****Description**

|       |  |
|-------|--|
|       |  |
| 0 COA |  |

**Attachment Check List**

Upon approval, the approved Form 27 and all listed attachments will be indexed to the Remediation Project file. Only the approved Form 27 will also be indexed to the related Facilities.

**Att Doc Num****Name**

|           |                           |
|-----------|---------------------------|
| 402595603 | FORM 27-INITIAL-SUBMITTED |
| 402671502 | SITE MAP                  |

Total Attach: 2 Files

**General Comments****User Group****Comment****Comment Date**

|  |  |                     |
|--|--|---------------------|
|  |  | Stamp Upon Approval |
|--|--|---------------------|

Total: 0 comment(s)