

State of Colorado Oil and Gas Conservation Commission

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Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

403123664

Receive Date:

Report taken by:

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.

Closure request is not available for an Initial Site Investigation and Remediation Workplan.

OPERATOR INFORMATION

Name of Operator: WESTERN OPERATING COMPANY	Operator No: 95620	Phone Numbers Phone: (303) 893-2438 Mobile: ()
Address: 1165 DELAWARE STREET #200		
City: DENVER	State: CO Zip: 80204	
Contact Person: Steve James	Email: steve@westernoperating.com	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: Initial Form 27 Document #: 403123664

PURPOSE INFORMATION

- ☐ Rule 913.c.(1): Pit or Cuttings Trench closure.
- ☐ Rule 913.c.(2): Buried or partially buried vessel closure, which will be by removal.
- ☐ Rule 913.c.(3): Remediation of Spill and Releases pursuant to Rule 912.
- ☐ Rule 913.c.(4): Land treatment of Oily Waste pursuant to Rule 905.e.
- ☐ Rule 913.c.(5): Closure of Centralized E&P Waste Management Facilities pursuant to Rule 907.h.
- ☐ Rule 913.c.(6): Remediation of impacted Groundwater pursuant to Rule 915.e.(3).D, and the contaminant concentrations in Table 915-1.
- ☐ Rule 913.c.(7): Investigation and remediation of natural gas in soil or Groundwater.
- ☐ Rule 913.c.(8): When requested by the Director due to any potential risk to soil, Groundwater, or surface water.
- ☒ Rule 913.c.(9): Decommissioning of Oil and Gas Facilities.
- ☐ Rule 913.g: Changes of Operator.
- ☐ Rule 915.b: Request to leave elevated inorganics in situ.
- ☐ Other: _____

SITE INFORMATION

Yes Multiple Facilities

Facility Type: WELL	Facility ID: _____	API #: 121-06775	County Name: WASHINGTON
Facility Name: PECK A-1	Latitude: 40.058450	Longitude: -103.398420	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: NENE	Sec: 15	Twp: 1N	Range: 54W Meridian: 6 Sensitive Area? No

Facility Type: OFF-LOCATION FLOWLINE	Facility ID: 479437	API #: _____	County Name: WASHINGTON
Facility Name: Wellhead Line 15NENE	Latitude: 40.056160	Longitude: -103.397221	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: NENE	Sec: 15	Twp: 1N	Range: 54W Meridian: 6 Sensitive Area? No

SITE CONDITIONS

General soil type - USCS Classifications SM

Most Sensitive Adjacent Land Use Rangeland

Is domestic water well within 1/4 mile? Yes

Is surface water within 1/4 mile? Yes

Is groundwater less than 20 feet below ground surface? No

Other Potential Receptors within 1/4 mile

The Peck A-1 wellhead is surrounded by vacant land in all directions. There are no residences within a quarter mile of the wellhead. There is one residential groundwater well permit (316239) mapped within a quarter mile of the wellhead and reported a static water level of 22 feet below ground surface at the time of completion. There are two unnamed ephemeral streams are mapped 455' to the northwest and 1,110' southwest of the site. There are no additional sensitive areas or wildlife habitats identified within a quarter mile of the wellhead.

SITE INVESTIGATION PLAN

TYPE OF WASTE:

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> E&P Waste | <input type="checkbox"/> Other E&P Waste | <input type="checkbox"/> Non-E&P Waste |
| <input checked="" type="checkbox"/> Produced Water | <input type="checkbox"/> Workover Fluids | |
| <input checked="" type="checkbox"/> Oil | <input type="checkbox"/> Tank Bottoms | |
| <input checked="" type="checkbox"/> Condensate | <input type="checkbox"/> Pigging Waste | |
| <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rig Wash | |
| <input type="checkbox"/> Drill Cuttings | <input type="checkbox"/> Spent Filters | |
| | <input type="checkbox"/> Pit Bottoms | |
| | <input type="checkbox"/> Other (as described by EPA) | |

DESCRIPTION OF IMPACT

Impacted?	Impacted Media	Extent of Impact	How Determined
UNDETERMINED	SOILS	No known impacts	Investigation Pending

INITIAL ACTION SUMMARY

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

Western Operating proposes to plug and abandon (P&A) the Peck A-1 well. Cut and cap activities are planned to commence and be completed approximately 10 days after P&A activities are complete. Western Operating will conduct site investigation activities, field screening, and confirmation soil sampling activities during closure in accordance with COGCC 900 Series Rules. Discreet soil samples and, if necessary, one groundwater sample, will be collected and analyzed pursuant to Rule 915, following the general sample collection guidance in Rule 915.e.(2) and Rule 915.e.(3). All waste generated during the closure activities will be managed and disposed of in accordance with Rules 905 and 906. See the attached Figure 1 for an illustration of the location of the Site.

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):

A minimum of five discrete soil samples will be collected for field screening. At least one of the sample from the floor, and one sample from the sidewall underneath the associated wellhead flowline riser will be submitted to an accredited laboratory for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and Gasoline Range Organics (GRO) [C6-C10] by EPA Method 8260 and for Diesel Range Organics (DRO) [C10-C28] and Residual Range Organics (RRO) [C28-C40] by EPA Method 8015. Analytical results for GRO, DRO, and RRO will be added together to calculate Total Petroleum Hydrocarbons (TPH). One wall sample will be analyzed for the Soil Suitability for Reclamation parameters; Electrical Conductivity (EC), Sodium Absorption Ratio (SAR), pH by Saturated Paste Method, and boron by Hot Water-Soluble Soil Extract Method.

Proposed Groundwater Sampling

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

If groundwater is encountered during decommissioning and/or abandonment activities, a grab sample will be collected as soon as practical. If contaminated soil is in contact with groundwater or if free product/hydrocarbon sheen are observed, the release will be reported in accordance with Rule 912.b. Groundwater samples will be submitted for laboratory analysis of BTEX, naphthalene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene by EPA Method 8260.

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):

Western Operating will completely remove the wellhead flowline with landowner approval. Western Operating will conduct flowline abandonment activities in accordance with COGCC 1105 Series Rules. A Form 44 pre-abandonment notice will be submitted no less than 30 days prior to scheduled removal activities. Discrete soil samples will be field-screened from along the removed flowline path and submitted only if impacts are suspected. See the attached Figure 3 for flowline layout and proposed discreet soil sample locations for field screening and for laboratory analysis. Samples collected from areas most likely to have been impacted during the operational life of the flowline, in accordance with COGCC Operator Guidance Rule 911.a.(4), will be submitted to an accredited laboratory for analysis of BTEX, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, TPH, EC, SAR, pH and boron.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 0

Number of soil samples exceeding 915-1

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 > 915-1 _____

_____ Vertical Extent > 915-1 (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 915-1 _____

_____ 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 915-1

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.

Operator will either dig and haul impacted soils to a commercial landfill or treat impacted soils above COGCC Table 915-1 concentration levels onsite. Any identified impacts above reporting thresholds will be reported as required for each discovery via Form 19 submittal.

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.

As needed, a remediation or closure plan will be developed based on the results of the confirmation soil sampling results and submitted to COGCC via Supplemental Form 27.

Soil Remediation Summary

☐ In Situ

☐ Ex Situ

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

_____ 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

Approved Reporting Schedule:

☐ Quarterly

☐ Semi-Annually

☐ Annually

☐ Other

☐ **Request Alternative Reporting Schedule:**

☐ Semi-Annually

☐ Annually

☐ Other

Rule 913.e:

After initial approval of a Form 27, the Operator will provide quarterly update reports in a Supplemental Form 27 to document progress of site investigation and remediation, unless an alternative reporting schedule has been requested by the Operator and approved by the Director. The Director may request a more frequent reporting schedule based on site-specific conditions.

Report Type:

☐ Groundwater Monitoring

☐ Land Treatment Progress Report

☐ O&M Report

☐ Other

Adequacy of Operator's General Liability Insurance and Financial Assurance

Describe the adequacy of the Operator's general liability insurance and Financial Assurance to fully address the anticipated costs of Remediation, including the estimated remaining cost for this project (below).

If this information has been provided on a Form 27 within the last 12 months, provide the Document Number of that form.

Operator anticipates the remaining cost for this project to be: \$

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 activities will be completed in accordance with 1000 Series Rules, in collaboration with the landowner.

Is the described reclamation complete? _____

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

☐ Interim ☐ Final

Did the Surface Owner provide the seed mix? _____

If YES, does the seed mix comply with local soil conservation district recommendations? _____

Did the local soil conservation district provide the seed mix? _____

SITE RECLAMATION DATES

Proposed date of commencement of Reclamation. _____

Proposed date of completion of Reclamation. _____

IMPLEMENTATION SCHEDULE

Per Rule 913.d.(2): Any change from the approved implementation schedule will be requested at least 14 days in advance, and the Operator may not make the change without the Director's approval.

PRIOR DATES

Date of Surface Owner notification/consultation, if required. _____

Actual Spill or Release date, or date of discovery. _____

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 08/02/2022

Proposed site investigation commencement. _____

Proposed completion of site investigation. _____

REMEDIAL ACTION DATES

Proposed start date of Remediation. _____

Proposed date of completion of Remediation. _____

Per Rule 913.d.(2): Any change from the approved implementation schedule will be requested at least 14 days in advance, and the Operator may not make the change without the Director's approval.

☐ Change from approved implementation schedule per Rule 913.d.(2).

Basis for change in implementation schedule:

OPERATOR COMMENT	
1	10/10/2018
2	10/10/2018
3	10/10/2018
4	10/10/2018
5	10/10/2018
6	10/10/2018
7	10/10/2018
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93	10/10/2018
94	10/10/2018
95	10/10/2018
96	10/10/2018
97	10/10/2018
98	10/10/2018
99	10/10/2018
100	10/10/2018

This Form 27 was prepared to notify the COGCC of the closure of the Peck A-1 wellhead and associated wellhead line. A Form 44 will be submitted to notify the State of pending flowline decommissioning no less than 30 days before commencement. A separate Form 27 Initial will be submitted for the closure of the associated Peck A-1 tank battery. The landowner will be notified prior to plugging and abandonment activities. Follow-up reporting will be submitted via a Form 27 Supplemental within 90 days after work is completed. Please find attached a Topographic Location map, a Proposed Soil Sampling Location diagram, and a Proposed Flowline Sample Location diagram.

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

Signed: Steve James

Title: President

Submit Date: _____

Email: steve@westernoperating.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:

Date:

Remediation Project Number:

COA Type

Description

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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.

<u>Att Doc Num</u>	<u>Case Name</u>	<u>Case No</u>	<u>Case Type</u>	<u>Case Status</u>	<u>Case Date</u>	<u>Case Time</u>	<u>Case Location</u>	<u>Case Description</u>	<u>Case Notes</u>	<u>Case Attachments</u>
1	Case 1	123456	Case 1	Case 1	Case 1	Case 1	Case 1	Case 1	Case 1	Case 1
2	Case 2	123456	Case 2	Case 2	Case 2	Case 2	Case 2	Case 2	Case 2	Case 2
3	Case 3	123456	Case 3	Case 3	Case 3	Case 3	Case 3	Case 3	Case 3	Case 3
4	Case 4	123456	Case 4	Case 4	Case 4	Case 4	Case 4	Case 4	Case 4	Case 4
5	Case 5	123456	Case 5	Case 5	Case 5	Case 5	Case 5	Case 5	Case 5	Case 5
6	Case 6	123456	Case 6	Case 6	Case 6	Case 6	Case 6	Case 6	Case 6	Case 6
7	Case 7	123456	Case 7	Case 7	Case 7	Case 7	Case 7	Case 7	Case 7	Case 7
8	Case 8	123456	Case 8	Case 8	Case 8	Case 8	Case 8	Case 8	Case 8	Case 8
9	Case 9	123456	Case 9	Case 9	Case 9	Case 9	Case 9	Case 9	Case 9	Case 9
10	Case 10	123456	Case 10	Case 10	Case 10	Case 10	Case 10	Case 10	Case 10	Case 10
11	Case 11	123456	Case 11	Case 11	Case 11	Case 11	Case 11	Case 11	Case 11	Case 11
12	Case 12	123456	Case 12	Case 12	Case 12	Case 12	Case 12	Case 12	Case 12	Case 12
13	Case 13	123456	Case 13	Case 13	Case 13	Case 13	Case 13	Case 13	Case 13	Case 13
14	Case 14	123456	Case 14	Case 14	Case 14	Case 14	Case 14	Case 14	Case 14	Case 14
15	Case 15	123456	Case 15	Case 15	Case 15	Case 15	Case 15	Case 15	Case 15	Case 15
16	Case 16	123456	Case 16	Case 16	Case 16	Case 16	Case 16	Case 16	Case 16	Case 16
17	Case 17	123456	Case 17	Case 17	Case 17	Case 17	Case 17	Case 17	Case 17	Case 17
18	Case 18	123456	Case 18	Case 18	Case 18	Case 18	Case 18	Case 18	Case 18	Case 18
19	Case 19	123456	Case 19	Case 19	Case 19	Case 19	Case 19	Case 19	Case 19	Case 19
20	Case 20	123456	Case 20	Case 20	Case 20	Case 20	Case 20	Case 20	Case 20	Case 20
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28	Case 28	123456	Case 28	Case 28	Case 28	Case 28	Case 28	Case 28	Case 28	Case 28
29	Case 29	123456	Case 29	Case 29	Case 29	Case 29	Case 29	Case 29	Case 29	Case 29
30	Case 30	123456	Case 30	Case 30	Case 30	Case 30	Case 30	Case 30	Case 30	Case 30
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32	Case 32	123456	Case 32	Case 32	Case 32	Case 32	Case 32	Case 32	Case 32	Case 32
33	Case 33	123456	Case 33	Case 33	Case 33	Case 33	Case 33	Case 33	Case 33	Case 33
34	Case 34	123456	Case 34	Case 34	Case 34	Case 34	Case 34	Case 34	Case 34	Case 34
35	Case 35	123456	Case 35	Case 35						

Name

403123951	MAP
403123954	SITE INVESTIGATION PLAN
403123964	SITE INVESTIGATION PLAN

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)