FORM 19 Rev 03/21

State of Colorado
Energy & Carbon Management Commission

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

Document Number: 404069425
Date Received: 01/27/2025

Spill report taken by: Arauza, Steven

Spill/Release Point ID: 488977

SPILL/RELEASE REPORT (SUPPLEMENTAL)

This form is to be submitted by the party responsible for the oil and gas spill or release. Refer to ECMC Rule 912.b. for reporting requirements of spills or releases of E&P Waste, produced Fluids, or unauthorized Releases of natural gas. Submit a Site Investigation and Remediation Workplan (Form 27) if Rule 913.c. applies.

OPERATOR INFORMATON

Name of Operator: CAERUS PICEANCE LLC Operator No: 10456
Address: 1001 17TH STREET #1600
City: DENVER State: CO Zip: 80202
Contact Person: Andy Verbonitz

Phone Numbers
Phone: (970) 902-3598
Mobile: (970) 902-3598
Email: averbonitz@qb-energy.com

☐ Transfer of Operatorship: Pursuant to Rule 912.f, this Supplemental Form 19 is being submitted to designate the Buying Operator as the responsible Operator for this Spill and Release.

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 404054385

Initial Report Date: 01/10/2025 Date of Discovery: 01/07/2025 Spill Type: Recent Spill

Spill/Release Point Location:

QTRQTR SESE SEC 27 TWP 5S RNG 95W MERIDIAN 6
Latitude: 39.579375 Longitude: -108.033087
Municipality (if within municipal boundaries): County: GARFIELD

Enter Lat./long measurement of the actual Spill/Release Point. Lat./Long. Data shall meet standards of Rule 216.

☐ Check this box if this spill/release is related to a loss of integrity of a flowline, pipeline, crude oil transfer line, or produced water transfer line.

Reference Location:

Facility Type: WELL SITE
☒ Facility/Location ID No 335806
Spill/Release Point Name: P27 595 1A-34 Flowline
☐ Well API No. (Only if the reference facility is well) 05- -
☐ No Existing Facility or Location ID No.

Estimated Total Spill Volume: use same ranges as others for values

Estimated Oil Spill Volume(bbl): 0
Estimated Condensate Spill Volume(bbl): Unknown
Estimated Flow Back Fluid Spill Volume(bbl): 0
Estimated Produced Water Spill Volume(bbl): Unknown
Estimated Other E&P Waste Spill Volume(bbl): 0
Estimated Drilling Fluid Spill Volume(bbl): 0
Specify:

Has the subject Spill/Release been controlled at the time of reporting? Yes

Land Use:

Current Land Use: NON-CROP LAND Other(Specify):

Weather Condition: Clear, cold

Surface Owner: OTHER (SPECIFY) Other(Specify): Private

Describe what is known about the spill/release event (what happened -- including how it was stopped, contained, and recovered):

Operator noticed the 1A-34 was trending unusually. He went up to the location to perform a pressure test and found that it failed. He then shut in the well and blew down the line and left isolated. Investigation is ongoing.

List of Agencies and Other Parties Notified Pursuant to Rule 912.b.(7)-(11):

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
1/10/2025	Garfield County	Kirby	-	Wynn
1/10/2025	CPW	Taylor Elm	-	via email
1/7/2025	ECMC	Steven Arauza	-	via phone call

REPORT CRITERIA

Rule 912.b.(1) Report to the Director (select all criteria that apply):

No — Rule 912.b.(1).A: A Spill or Release of any size that impacts or threatens to impact any Waters of the State, Public Water System, residence or occupied structure, livestock, wildlife, or publicly-maintained road.

Waters of the State: _____ Public Water System: _____

Residence or Occupied Structure: _____ Livestock: _____

Wildlife: _____ Publicly-Maintained Road: _____

No — Rule 912.b.(1).B: A Spill or Release in which 1 barrel or more of E&P Waste or produced fluids is spilled or released outside of berms or other secondary containment.

No — Rule 912.b.(1).C: A Spill or Release of 5 barrels or more of E&P Waste or produced Fluids regardless of whether the Spill or Release is completely contained within berms or other secondary containment.

No — Rule 912.b.(1).D: Within 6 hours of discovery, a Grade 1 Gas Leak. For a Grade 1 Gas Leak from a Flowline, the Operator also must submit the Form 19 – Initial, document number on a Form 44, Flowline Report, for the Grade 1 Gas Leak

Enter the approximate time of discovery _____ (HH:MM)

Enter the Document Number of the Grade 1 Gas Leak Report, Form 44 _____

Was there a reportable accident associated with either a Grade 1 Gas Leak or an E&P waste spill or release? _____

Enter the Document Number of the Initial Accident Report, Form 22 _____

Was there damage during excavation? _____

Was CO 811 notified prior to excavation? _____

No — Rule 912.b.(1).E: The discovery of 10 cubic yards or more of impacted material resulting from a current or historic Spill or Release. Discovery and reporting will not be contingent upon confirmation samples demonstrating exceedance of Table 915-1 standards.

Estimated Volume of Impacted Solids (cu. yd.): _____

No — Rule 912.b.(1).F: The discovery of impacted Waters of the State, including Groundwater. Discovery and reporting will not be contingent upon confirmation samples demonstrating exceedance of Table 915-1 standards. The presence of free product or hydrocarbon sheen on Groundwater or surface water is reportable. The presence of contaminated soil in contact with Groundwater or surface water is reportable. Check all that apply:

- ☐ The presence of free product or hydrocarbon sheen Surface Water
- ☐ The presence of free product or hydrocarbon sheen on Groundwater
- ☐ The presence of contaminated soil in contact with Groundwater
- ☐ The presence of contaminated soil in contact with Surface water

Yes — Rule 912.b.(1).G: A suspected or actual Spill or Release of any volume where the volume cannot be immediately determined, including a spill or release of any volume that daylights from the subsurface.

No — Rule 912.b.(1).H: Spill or Release resulting in vaporized hydrocarbon mists that leave the Oil and Gas Location or Off-Location Flowline right of way from an Oil and Gas Location and impacts or threatens to impact off-location property.

☐ Areas offsite of Oil & Gas Location ☐ Off-Location Flowline right of way

No — Rule 912.b.(1).I: A Release of natural gas that results in an accumulation of soil gas or gas seeps.

No — Rule 912.b.(1).J: A Release that results in natural gas in Groundwater.

SPILL/RELEASE DETAIL REPORTS

#1 Supplemental Report Date: 01/24/2025

FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	0	0	☐
CONDENSATE			☒
PRODUCED WATER			☒
DRILLING FLUID	0	0	☐
FLOW BACK FLUID	0	0	☐
OTHER E&P WASTE	0	0	☐

specify:

Was spill/release completely contained within berms or secondary containment? YES Was an Emergency Pit constructed? NO

*Secondary containment, **including walls & floor regardless of construction material**, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.*

A Form 15 Pit Report shall be submitted within 30 calendar days after the construction of an emergency pit

Impacted Media (Check all that apply) ☒ Soil ☐ Groundwater ☐ Surface Water ☐ Dry Drainage Feature

Surface Area Impacted: Length of Impact (feet): 5 Width of Impact (feet): 7

Depth of Impact (feet BGS): Depth of Impact (inches BGS):

How was extent determined?

Soil samples were collected from the base and sidewalls of the remedial investigation excavation and from the excavation stockpile to characterize potential impacts associated with the release. See the Operators Comments, attached Field Summary, Soil Analytical Results Table, and laboratory reports for additional details.

Soil/Geology Description:

Rock outcrop-Torriorthents complex, very steep

Depth to Groundwater (feet BGS) 70 Number Water Wells within 1/2 mile radius: 0

If less than 1 mile, distance in feet to nearest

Water Well	3840	None ☐	Surface Water	320	None ☐
Wetlands		None ☒	Springs	4300	None ☐
Livestock		None ☒	Occupied Building		None ☒

Additional Spill Details Not Provided Above:

Depth to water is based on previous work done under Remediation Project 30016.

REQUEST FOR CLOSURE

Spill/Release Reports should be closed when impacts have been remediated or when further investigation and corrective actions will take place under an approved Form 27.

Basis for Closure:

- ☐ Corrective Actions Completed (documentation attached, check all that apply)
  - ☐ Horizontal and Vertical extents of impacts have been delineated.
  - ☐ Documentation of compliance with Table 915-1 is attached.
  - ☐ All E&P Waste has been properly treated or disposed.
- ☐ Work proceeding under an approved Form 27 (Rule 912.c).

  Form 27 Remediation Project No: _____
- ☐ SUSPECTED Spill/Release did not occur or was below Rule 912.a.(5) reporting thresholds.

OPERATOR COMMENTS:

Due to the estimated depth to groundwater of more than 70 feet bgs, a pathway to groundwater does not appear to exist. For this reason, QB requests to compare analytical results of release investigation to Table 915-1 Residential Soil Screening Levels (RSSLs).

Laboratory analytical results identified multiple organic and inorganic exceedances at the point of release (POR), as summarized below:

TPH Total: 2,635.40 mg/kg
1,2,3-TMB: 39.86 mg/kg
1,3,5-TMB: 29.59 mg/kg
Naphthalene: 4.154 mg/kg
EC: 7.62 mmhos/cm
SAR: 17.99
pH: 8.70
Boron (HWS): 2.67 mg/L
Arsenic: 18.33 mg/kg

Values of pH and arsenic exceeding RSSLs are present within the sidewalls of the excavation.
Exceedances of pH range from 8.55 in the west sidewall to 8.71 in the south sidewall.
Exceedances of arsenic range from 17.52 milligrams per kilogram (mg/kg) in the south sidewall to 23.38 mg/kg in the north sidewall.

Although arsenic levels exceeding RSSLs remain within the investigation area, background data collected from the location indicate that these levels are consistent with native conditions. Background samples were collected within 400 feet northeast and southeast of the location, with elevation differences ranging from the same relative elevation to approximately 88 feet higher. Analytical results show arsenic concentrations ranging from 14.5 mg/kg to 28.98 mg/kg, reflecting consistently elevated levels across the area. Moreover, the background samples and the investigation area share the same soil type: Rock Outcrop-Torriorthents complex with very stony colluvium and alluvium derived from calcareous shale parent material. This strongly supports the conclusion that elevated arsenic levels at the location are characteristic of native soil conditions rather than a result of oil and gas operations. In accordance with Table 915-1, Footnote 1, QB requests the removal of arsenic as a constituent of concern for this release.

Although pH levels exceeding RSSLs remain within the investigation area, source water characterization data collected from the P27 1D-34 wellhead—drawing from the same Williams Fork formation and at a similar depth (10,280 feet compared to 10,175 feet) as the P27 1A-34 wellhead—indicate that produced water from the location is not a significant source of elevated pH. Analytical results from source water characterization show a near-neutral pH value of 6.88. Therefore, it is reasonable to conclude that the elevated pH levels are not attributable to oil and gas operations at this location. In accordance with ECMC Rule 915.e.(2).C., QB requests the removal of pH as a constituent of concern for this release.

Based on spill characterization data collected at the point of release (POR), background sample results, and produced water characterization, QB requests that future soil samples be analyzed for a reduced analytical suite of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, xylenes (BTEX), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, naphthalene, electrical conductivity (EC), sodium adsorption ratio (SAR), and boron.

See the attached Field Summary, Soil Analytical Results Table, and laboratory reports for additional details.

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

Signed: _____ Print Name: Andy Verbonitz

Title: EHS Rem. Specialist Date: 01/27/2025 Email: averbonitz@qb-energy.com

COA Type	Description
0 COA	

ATTACHMENT LIST

Att Doc Num	Name
404069465	ANALYTICAL RESULTS
404069466	ANALYTICAL RESULTS
404069467	ANALYTICAL RESULTS
404069577	OTHER
404069611	MAP
404069612	SOIL SAMPLE LOCATION MAP
404070147	ANALYTICAL RESULTS
404070152	ANALYTICAL RESULTS
404071060	ANALYTICAL RESULTS

Total Attach: 9 Files

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)