

State of Colorado  
Oil and Gas Conservation Commission

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



Document Number:

401909409

Date Received:

01/24/2019

Spill report taken by:

FISCHER, ALEX

Spill/Release Point ID:

459792

### SPILL/RELEASE REPORT (SUPPLEMENTAL)

This form is to be submitted by the party responsible for the oil and gas spill or release. Refer to COGCC Rule 906.b. for reporting requirements of spills or releases of E&P Waste or produced fluids. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

#### OPERATOR INFORMATION

|  |                           |                                     |
|--|---------------------------|-------------------------------------|
| Name of Operator: <u>UTAH GAS OP LTD DBA UTAH GAS CORP</u> | Operator No: <u>10539</u> | <b>Phone Numbers</b>                |
| Address: <u>1125 ESCALANTE DR</u>                          |                           | Phone: <u>(970) 675-4400</u>        |
| City: <u>RANGELY</u> State: <u>CO</u> Zip: <u>81648</u>    |                           | Mobile: <u>(970) 290-2912</u>       |
| Contact Person: <u>Steven Hale</u>                         |                           | Email: <u>shale@utahgascorp.com</u> |

#### INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 401870624

Initial Report Date: 12/11/2018 Date of Discovery: 12/11/2018 Spill Type: Recent Spill

#### Spill/Release Point Location:

Location of Spill/Release: QTRQTR NWSW SEC 5 TWP 3S RNG 101W MERIDIAN 6

Latitude: 39.815622 Longitude: -108.762570

Municipality (if within municipal boundaries): \_\_\_\_\_ County: RIO BLANCO

#### Reference Location:

Facility Type: WELL  Facility/Location ID No \_\_\_\_\_

Spill/Release Point Name: Douglas Creek Unit #1  No Existing Facility or Location ID No.

Number: 1  Well API No. (Only if the reference facility is well) 05-103-05083

#### Fluid(s) Spilled/Released (please answer Yes/No):

Was one (1) barrel or more spilled outside of berms or secondary containment? Yes

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

Were Five (5) barrels or more spilled? Yes

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

Estimated Oil Spill Volume(bbl): 0 Estimated Condensate Spill Volume(bbl): 0

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: more accurate estimate to be determined during investigation

#### Land Use:

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

Weather Condition: Clear

Surface Owner: FEDERAL Other(Specify): \_\_\_\_\_

#### Check if impacted or threatened by spill/Release (please answer Yes/No to all that apply):

Waters of the State  Residence/Occupied Structure  Livestock  Public Byway  Surface Water Supply Area

As defined in COGCC 100-Series Rules

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

During normal operations of the DCU #1 SWD well location, the lease operator discovered a release of produced water near the Salt Water Disposal well head, from an apparent failure of the flow line between the injection pump and the well head. The line was not under pressure at the time of discovery, but was isolated to prevent further release. Initial estimate of volume released is approximately 5 barrels, with more accurate determination to be made after flow line is excavated. Evidence of moist soil from the release extended from the well area on the working surface, and into stormwater diversion and containment. No release was made off pad location.

**List Agencies and Other Parties Notified:**

Was there a Grade 1 Gas Leak associated with this E & P waste spill or release? Yes  No

If YES, enter the Document Number of the Initial Grade 1 Gas Leak Report Form 44: \_\_\_\_\_

Was there a reportable accident associated with this E & P waste spill or release? Yes  No

If YES, enter the Document Number of the Initial Accident Report, Form 22: \_\_\_\_\_

**SPILL/RELEASE DETAIL REPORTS**

|   |                           |                 |  |  |
|---|---------------------------|-----------------|--|--|
| #1  | Supplemental Report Date: | 01/24/2019      |  |  |
| <b>FLUIDS</b>   | BBL's SPILLED             | BBL's RECOVERED | Unknown                                      |  |
| OIL   | 0                         | 0               | <input type="checkbox"/>                     |  |
| CONDENSATE  | 0                         | 0               | <input type="checkbox"/>                     |  |
| PRODUCED WATER  | 4                         | 0               | <input checked="" type="checkbox"/>          |  |
| DRILLING FLUID  | 0                         | 0               | <input type="checkbox"/>                     |  |
| FLOW BACK FLUID   | 0                         | 0               | <input type="checkbox"/>                     |  |
| OTHER E&P WASTE   | 0                         | 0               | <input type="checkbox"/>                     |  |
| specify: _____  |                           |                 |  |  |
| Was spill/release completely contained within berms or secondary containment? <u>YES</u> Was an Emergency Pit constructed? <u>NO</u>  |                           |                 |  |  |
| <i>Secondary containment, including walls &amp; floor regardless of construction material, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.</i>  |                           |                 |  |  |
| <b>A Form 15 Pit Report shall be submitted within 30 calendar days after the construction of an emergency pit</b>   |                           |                 |  |  |
| Impacted Media (Check all that apply) <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Dry Drainage Feature  |                           |                 |  |  |
| Surface Area Impacted: Length of Impact (feet):   |                           | 108             | Width of Impact (feet): 5                    |  |
| Depth of Impact (feet BGS):   |                           | 8               | Depth of Impact (inches BGS): _____          |  |
| How was extent determined?  |                           |                 |  |  |
| Full extent has not been determined. Laboratory results from initial grab samples are included, with only Benzene over table 910-1 standards at point of release (6 foot depth). Additional excavation or drilling will be completed as conditions permit, to determine full extent and best option for remediation. Approximately 17 cubic yards of excavated material was transported to the RNI commercial disposal during the flowline repair. A Form 27 is being prepared for this project and will be submitted for approval. |                           |                 |  |  |
| Soil/Geology Description:   |                           |                 |  |  |
| Rock Outcrop - high clay, very minimal sand.  |                           |                 |  |  |
| Depth to Groundwater (feet BGS)   |                           | 30              | Number Water Wells within 1/2 mile radius: 0 |  |
| If less than 1 mile, distance in feet to nearest  |                           | Water Well      | None <input checked="" type="checkbox"/>     | Surface Water 600 None <input type="checkbox"/>                  |
|   |                           | Wetlands        | None <input checked="" type="checkbox"/>     | Springs _____ None <input checked="" type="checkbox"/>           |
|   |                           | Livestock       | None <input checked="" type="checkbox"/>     | Occupied Building _____ None <input checked="" type="checkbox"/> |
| Additional Spill Details Not Provided Above:  |                           |                 |  |  |

## CORRECTIVE ACTIONS

|   |                           |  |   |   |
|---|---------------------------|--|---|---|
| #1  | Supplemental Report Date: | 01/24/2019   |   |   |
| Cause of Spill (Check all that apply)   |                           | <input type="checkbox"/> Human Error                 | <input checked="" type="checkbox"/> Equipment Failure | <input type="checkbox"/> Historical-Unknown |
|   |                           | <input type="checkbox"/> Other (specify) _____       |   |   |
| Describe Incident & Root Cause (include specific equipment and point of failure)  |                           |  |   |   |
| Pinhole corrosion resulting from acid bacteria in Produced Water being sent in flowline for injection. Point of failure in the 2 inch line, was at 90 degree elbow, approximately 6 feet deep, near SWD well head.  |                           |  |   |   |
| Describe measures taken to prevent the problem(s) from reoccurring:   |                           |  |   |   |
| Elbow joint and associated section of flowline were replaced. Failed joint was analyzed by Baker Petrolite, determining that acid bacteria was causal factor. Water storage tanks at location (3-400 bbl ea.) have been flushed. Routine water sampling is underway, by Baker, and is scheduled now for on-going monitoring, to ensure the most effective chemical treatment (i.e. biocide) is used to eliminate bacteria in storage tanks. Biocide treatment has continued and options for use of chemical sticks vs. bags, or liquid are being evaluated for best and most effective delivery of the biocide. |                           |  |   |   |
| Volume of Soil Excavated (cubic yards):   |                           | 17   |   |   |
| Disposition of Excavated Soil (attach documentation)  |                           | <input checked="" type="checkbox"/> Offsite Disposal | <input type="checkbox"/> Onsite Treatment             |   |
|   |                           | <input type="checkbox"/> Other (specify) _____       |   |   |
| Volume of Impacted Ground Water Removed (bbls):   |                           | 0  |   |   |
| Volume of Impacted Surface Water Removed (bbls):  |                           | 0  |   |   |

## 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)

Work proceeding under an approved Form 27

Form 27 Remediation Project No: \_\_\_\_\_

## OPERATOR COMMENTS:

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

Signed: \_\_\_\_\_ Print Name: Steven Hale

Title: Environmental Specialist Date: 01/24/2019 Email: shale@utahgascorp.com

| <u>COA Type</u> | <u>Description</u>  |
|-----------------|---|
|                 | Benzene was over table 910-1 standards (1.45 mg/kg at 6 feet below ground surface). Delineate the vertical extent of impacted area and remediate impacts to Table 910-1 standards. Provide documentation in a F-27.   |
|                 | Operator states that "A Form 27 is being prepared for this project and will be submitted for approval". Please provide a Form 27 within 30 days (5/31/2019) to the COGCC.   |
|                 | The Operator shall refer to Frequently Asked Question (FAQ) 31 (see below) when requesting relief for arsenic.<br><br>How will the COGCC apply footnote 1 to Table 910-1, which states that: "Consideration shall be given to background concentration levels in native soils and ground water." December 9, 2009: The COGCC will apply this footnote to mean that an operator need not meet a concentration level specified in Table 910-1 if the operator can demonstrate to the COGCC's satisfaction that the Table 910-1 level is exceeded by the background level in the native soils or ground water, as applicable. Upon satisfactory demonstration of such exceedence, the operator will be required to meet the background level that is present in the native soils or ground water and that has been approved by the COGCC. Such demonstration and approval may occur with respect to any of the Table 910-1 concentration levels.   |
|                 | The Operator shall refer to Frequently Asked Question (FAQ) 32 (see below) when requesting relief for SAR.<br><br>How will the COGCC apply the Table 910-1 concentration levels for pH, sodium adsorption ratio (SAR), and electrical conductivity (EC)? December 9, 2009: Consistent with its prior practice and Rule 1003, the COGCC will generally apply the Table 910-1 concentration levels for pH, SAR, and EC to soils that are within three (3) feet of the ground surface because elevated levels of pH, SAR, and EC in deeper soils should not adversely affect the successful reclamation of the site, which is the objective of these concentration levels. In addition, the COGCC requires that materials with elevated pH, SAR, or EC be buried under a minimum of three (3) feet of backfill cover and soil that satisfies either the Table 910-1 levels for pH, SAR, and EC or the background levels for such contaminants within three (3) feet of the ground surface at the site. In addition, the soil horizons must be replaced in their original relative position and reclaimed in accordance with 1000 Series Rules, including the establishment of vegetative cover on non-cropland and successful crop growth on cropland. |
|                 | Provide all integrity data to the COGCC Western Integrity Inspector, Richard Murray, at (970) 989-3092 or g.richard.murray@state.co.us.   |

### Attachment Check List

| <u>Att Doc Num</u> | <u>Name</u>                        |
|--------------------|------------------------------------|
| 401909409          | SPILL/RELEASE REPORT(SUPPLEMENTAL) |
| 401916969          | DISPOSAL MANIFEST                  |
| 401916971          | ANALYTICAL RESULTS                 |
| 401916993          | SITE MAP                           |
| 402034822          | FORM 19 SUBMITTED                  |

Total Attach: 5 Files

### General Comments

| <u>User Group</u> | <u>Comment</u>   | <u>Comment Date</u> |
|-------------------|--|---------------------|
| Agency            | Operator gave the reference location as the API 05-103-05083. Spill did not occur at the well head, for future spills please provide the correct reference location (Location ID 314293)   | 05/07/2019          |
| Environmental     | Operator indicated that only Benzene was over table 910-1 standards (1.45 mg/kg at 6 feet below ground surface). Analytical results (Doc 401916971) show that arsenic concentrations are elevated above 910-1 standards (0.39mg/kg) for all three sample locations ( 4.96mg/kg, 5.35 mg/kg, 4.41 mg/kg). SAR concentrations are also elevated above 910-1 standards (12) for the Elbow sample location (28.6) and the SW BMP (17.3) sample location. | 04/25/2019          |

|               |  |            |
|---------------|--|------------|
| Environmental | Operator indicated that there are 0 water wells within 1/2 mile radius of the.<br>There is a water well located 1711 feet south of the reported spill and 936 feet north of the reported spill | 04/25/2019 |
| Environmental | Operator indicated that are no threats to waters of the state.<br>The reported spill is located 747 feet west of West Douglas Creek and 1070 feet north of Sand Draw (COGIS Map).              | 04/25/2019 |

Total: 4 comment(s)