

**State of Colorado**  
**Oil and Gas Conservation Commission**



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

FOR OGCC USE ONLY

## 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): \_\_\_\_\_

OGCC Employee:

☐ Spill   ☐ Complaint☐ Inspection   ☐ NOAV

Tracking No: \_\_\_\_\_

OGCC Operator Number: 96850Name of Operator: Williams Production RMT CompanyAddress: 1058 County Road 215City: Parachute State: CO Zip: 81635

Contact Name and Telephone:

Michael J. GardnerNo: (970) 263-2760 (office); (970) 623-4875 (cell)Fax: (970) 263-5313API Number: 05 045 06476 00County: Garfield

Facility Name: \_\_\_\_\_

Facility Number: 210718Well Name: Crystal Creek A-2Well Number: MV 1-23Location: (QtrQtr, Sec, Twp, Rng, Meridian): NWNW Sec. 23, T. 6 S., R. 97 W. Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

### TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): UnknownSite 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.): Ranching / livestock grazingSoil type, if not previously identified on Form 2A or Federal Surface Use Plan: Colluvium overlying Uintah FormationPotential receptors (water wells within 1/4 mi, surface waters, etc.): Prather Spring (SEO Permit # 233234)

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):

☐

Soils

☐

Vegetation

☒

Groundwater

☐

Surface Water

Extent of Impact:

Not Yet Determined

How Determined:

Field sampling

Multiple samples collected and analyzed. See attached data summary table.

### REMEDIALTION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

1) Upon notification of incident, water samples were collected (weekly) from the spring, cabin, and later, the pond; 2) A supply (twenty 5-gallon bottles) of potable water and 4 dispensers were delivered to the Prather Cabin to be used for drinking / cooking water; 3) The stock pond, spring source, and stream from the pond to the spring source were fenced to prevent / restrict access to livestock/wildlife. 4) Provided bulk potable water supply (3,200 gallon tank) for showering/toilette uses. The potable tank is plumbed into the Prather's supply downstream of their original cistern. The original cistern has been completely by-passed and is not currently part of their water delivery system. 5) Developing ground water investigation and remediation plan. Field investigation will begin the week of July 7 - 11, 2008.

Describe how source is to be removed:

There has been no known spill or release of contamination from the MV 1-23 well pad that would have contaminated the Prather spring. The MV 1-23 was drilled in 1984, and has been shut in for the past 8 years (since 2000). The joint investigation and sampling design will be used to verify / confirm that the source of contamination for the Prather Spring is not related to the MV 1-23 location. No recent haul tickets are available for this location because no fluids have been produced from this well for the past 8 years. Residual tanks remain at the location but were emptied when the well was shut in and have not been in service since. The large lined pit at the MV 1-23 location (built in 2006) is a fresh-water storage pit and has never been used for storage of produced water or other E&P waste materials.

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.:

Mitigation of impacts, including removal and disposal of E&P wastes, may only be determined once the Site Investigation Work Plan has been implemented, and the findings evaluated.



**REMEDIAL WORKPLAN (Cont.)**

Tracking Number: \_\_\_\_\_  
Name of Operator: \_\_\_\_\_  
OGCC Operator No: \_\_\_\_\_  
Received Date: \_\_\_\_\_  
Well Name & No: \_\_\_\_\_  
Facility Name & No: \_\_\_\_\_

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

**If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):**

The initial phase of joint investigation will require the installation of 6 - 12 soil borings and temporary monitoring wells. The monitoring wells will be strategically located such that they will help to identify the source of the contamination. Once the wells are installed, ground water samples will be collected to further define the contaminant source and extent of contamination. Well installation is scheduled for July 10 - 12, 2008; additional ground water samples will be collected at the time the wells are installed. Additional analytical data are expected by July 18, 2008. See the attached Site Investigation Work Plan for sampling details and locations.

**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 operators have provided an alternative, temporary water supply, and have attempted to secure access to the alleged contaminated water source. Further information will be developed based upon the findings of the Site Investigation Work Plan.

**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 ☐ N If yes, describe:

See attached Site Investigation Work Plan, analytical data summary table, and Sample Location map.

**Final disposition of E&P waste** (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

Final disposition has not yet been determined.

**IMPLEMENTATION SCHEDULE**

Date Site Investigation Began: <u>May 31, 2008</u>	Date Site Investigation Completed: <u>On-going</u>	Date Remediation Plan Submitted: <u>July 7, 2008</u>
Remediation Start Date: <u>To be determined</u>	Anticipated Completion Date: <u>To be determined</u>	Actual Completion Date: <u>To be determined</u>

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

Print Name: Michael J. Gardner

Signed: \_\_\_\_\_

Title: Principal Environmental Specialist

Date: July 7, 2008

OGCC Approved: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_