



State of Utah

JON M. HUNTSMAN, JR.  
Governor

GARY HERBERT  
Lieutenant Governor

Department of  
Environmental Quality

William J. Sinclair  
Acting Executive Director

DIVISION OF WATER QUALITY  
Walter L. Baker, P.E.  
Director

C/007/041 Incoming

cc: Steve C.

~~FILE COPY~~

Q

May 14, 2009

Mr. Bruce Hill, President & CEO  
Mr. David Shaver, Resident Agent  
UtahAmerican Energy, Inc.  
West Ridge resources, Inc.  
P.O. Box 910  
East Carbon, UT 84520-0910

Subject: Inspection Reports – UPDES Permit No. UT0025640 (West Ridge Mine)

Dear Mr. Hill and Mr. Shaver:

On April 29, 2009 I met with Mr. Shaver and conducted Reconnaissance and Compliance Sampling Inspections in regards to your UPDES Permit facility referenced above. Specifically we discussed the current status and corrective action plan while touring the downstream catchment structures upon DWQ sampling the discharging outfall (002).

Enclosed are copies of the inspection reports for your records. Please review the “Deficiencies” and “Requirements” and “Recommendations” sections of the report and contact me with any questions. I appreciate your efforts to facilitate the inspection and keep me informed of the operations. If you have any questions, please contact me at (801) 538-6779 or by e-mail at [jstudenka@utah.gov](mailto:jstudenka@utah.gov).

Sincerely,

Jeff Studenka, Environmental Scientist  
UPDES IES Section

Enclosures

cc (w/encl): Amy Clark, EPA Region VIII  
Claron Bjork, SE District Health Department  
Dave Ariotti, SE District Engineer  
Daron Haddock, Division of Oil Gas & Mines

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DIV. OF OIL, GAS & MINING



United States Environmental Protection Agency  
Washington, D.C. 20460

# Water Compliance Inspection Report

**FILE COPY**

## Section A: National Data System Coding (i.e., ICIS)

|                           |                       |                      |                |                |
|---------------------------|-----------------------|----------------------|----------------|----------------|
| Transaction Code<br>N     | yr/mo/day<br>09/04/29 | Inspection Type<br>S | Inspector<br>S | Fac. Type<br>2 |
| Remarks                   |                       |                      |                |                |
| Inspection Work Days<br>2 | BI<br>N               | QA<br>N              | Reserved       |                |

|  |  |  |                                     |
|--|--|--|-------------------------------------|
| <b>Facility Data</b><br>Name and Location of Facility and NPDES permit number<br>West Ridge Resources, West Ridge Mine<br>794 North "C" Canyon Road, Carbon County, UT               |  | Entry Time/ Date<br>9:00 am/ 4-29-2009   | Permit Effective Date<br>5-1-2006   |
| Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)<br>Dave Shaver, Resident Agent, West Ridge Mine, (435) 888-4017<br>phone (435) 637-9645, fax (435) 637-8679    |  | Exit Time/ Date<br>12:45 pm /4-29-2009   | Permit Expiration Date<br>4-30-2011 |
| Name, Address of Responsible Official/Title/Phone and Fax Number<br>Bruce Hill, President and CEO<br>UtahAmerican Energy, Inc.<br>P.O. Box 1077<br>Price, UT 84501<br>(435) 888-4000 |  | Other Facility Data (e.g., SIC NAICS, and other descriptive information)<br>Bituminous Coal Underground Mining Facility<br>SIC Code 1222<br>NAICS 212112<br><br>SEE ATTACHED |                                     |

## Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

|   |   |  |                              |
|---|---|--|------------------------------|
| <input checked="" type="checkbox"/> Permit                    | <input checked="" type="checkbox"/> Self Monitoring Program | <input type="checkbox"/> Pretreatment            | <input type="checkbox"/> MS4 |
| <input checked="" type="checkbox"/> Records/Reports           | <input type="checkbox"/> Compliance Schedule                | <input type="checkbox"/> Pollution Prevention    |                              |
| <input checked="" type="checkbox"/> Facility Site Review      | <input type="checkbox"/> Laboratory                         | <input type="checkbox"/> Storm Water             |                              |
| <input checked="" type="checkbox"/> Effluent/Receiving Waters | <input type="checkbox"/> Operations & Maintenance           | <input type="checkbox"/> Combined Sewer Overflow |                              |
| <input checked="" type="checkbox"/> Flow Measurement          | <input type="checkbox"/> Sludge Handling/Disposal           | <input type="checkbox"/> Sanitary Sewer Overflow |                              |

## Section D: Summary of Findings/Comments

(Attach additional sheets of narrative and checklists, including Single Event Violation codes, as necessary)

| SEV Codes | SEV Description             |
|-----------|-----------------------------|
| A 0 0 1 2 | Numeric Effluent Violations |
|           |                             |
|           |                             |
|           |                             |

|  |  |                  |
|--|--|------------------|
| Name(s) and Signature(s) of Inspector(s)<br>JEFF STUDENKA, ENVIRONMENTAL SCIENTIST<br>           | Agency/Office/Phone and Fax Number(s)<br>DWQ<br>(801) 538-6779 | Date:<br>5-13-09 |
| Name and Signature of Management Q A Reviewer<br>MIKE HERKIMER, MANAGER<br>UPDES IES SECTION<br> | Agency/Office/Phone and Fax Number(s)<br>DWQ<br>(801) 538-6058 | Date:<br>5/14/09 |

**INSPECTION SUMMARY**

UPPER MERIDIAN UT0025640 - West Ridge Mine

Inspection Type: Reconnaissance Inspection + Compliance Sampling Inspection (CSI)

Inspection Date: April 29, 2009

Weather: Sunny and warm, ~ 60 °F.

Jeff [redacted] of the Division of Water Quality (DWQ) met with Dave Shaver at the Utah American Energy Inc. West Ridge Mine facility (West Ridge). The purpose for the site visit was to perform reconnaissance and compliance sampling inspections as a result of recent elevated total iron concentrations and coal fines in the mine water discharge. The EPA Region 8 NPDES Inspection Checklist was also completed. Since the previous CSI on 2/3/2009, West Ridge has been actively pursuing water distribution options underground to increase settling time and to reduce the amount of coal fines present in the discharge. Once completed, the process can begin for removing the coal fines deposited along the stream channel. Concurrently and also since the previous CSI, West Ridge has recently constructed four catchment basin structures (A, C, E, & F) downstream to collect the coal fines for subsequent removal.

**FACILITY DESCRIPTION**

Location: 794 North "C" Canyon Road, near East Carbon, Utah

Coordinates: Outfall 001 - 39° 36' 45" North latitude, 110° 26' 26" West longitude

Outfall 002 - 39° 36' 58" North latitude, 110° 26' 10" West longitude

Average Flow: ~ 1 MGD (Outfall 002, mine water discharge)

Receiving water: "C" Canyon Ephemeral Drainage → Grassy Trail Creek

Process: Underground coal mining operation utilizing long-wall technology. Water from the mine is conveyed to a below ground collection area, where it is treated for iron via chemical flocculent and then continuously pumped out of the mine and discharged to the surface via Outfall 002. Surface water runoff is conveyed to an above ground settling pond system with a single discharge point (Outfall 001). Outfall 001 has not discharged to date.

**INSPECTION SUMMARY**

The reconnaissance inspection was limited to outside the mine where the water collection and distribution systems are exposed. The two outfall locations were observed as well as the receiving waters of "C" Canyon Drainage and Grassy Trail Creek. As part of the reconnaissance inspection, the four catchment basin structures were observed (A, C, E, & F) downstream from the mine site (see attached map for locations). As part of the CSI, DWQ collected discharge compliance grab samples @ 9:05 am from Outfall 002 for TDS, TSS, total iron, and oil & grease parameters and the results will be compared to the April 2009 DMR as soon as both are available. At the time of the inspections, the mine water discharge was the only flow in "C" Canyon and the discharge was observed downstream in Grassy Trail Creek as well. At Outfall 002, the discharge appeared to be mostly clear with a light grayish color with black coal fines deposited along the edges of the stream channel. Twenty photos were also collected and are attached herein with a photo log.



**Compliance Inspection Report**

**Section A: National Data System Coding (i.e., ICIS)**

|  |                         |                            |                             |                       |                       |
|--|-------------------------|----------------------------|-----------------------------|-----------------------|-----------------------|
| Transmittal No.<br><b>N</b>              | NPDES<br><b>0025640</b> | yr/mo/day<br><b>090429</b> | Inspection Type<br><b>R</b> | Inspector<br><b>S</b> | Fac. Type<br><b>2</b> |
| Remarks                                  |                         |                            |                             |                       |                       |
| Monitoring Evaluation Rating<br><b>4</b> |                         |                            |                             |                       |                       |
| BI<br><b>N</b>                           |                         |                            |                             |                       |                       |
| QA<br><b>N</b>                           |                         |                            |                             |                       |                       |
| Reserved                                 |                         |                            |                             |                       |                       |

**Section B: Facility Data**

|   |   |  |
|---|---|--|
| Name of Facility Inspected (For industrial users discharging to POTW, also include POTW name)<br><b>West Ridge Mine<br/>2000 West Ridge Road, Carbon County, UT</b>                             | Entry Time/ Date<br><b>9:00 am / 4-29-2009</b>  | Permit Effective Date<br><b>5-1-2006</b>   |
|   | Exit Time/ Date<br><b>12:45 pm / 4-29-2009</b>  | Permit Expiration Date<br><b>4-30-2011</b> |
| Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)<br><b>Dave Shaver, Resident Agent, West Ridge Mine, (435) 888-4017<br/>phone (435) 637-9645, fax (435) 637-8679</b>       | Other Facility Data (e.g., SIC NAICS, and other descriptive information)<br><b>Bituminous Coal Underground Mining Facility<br/>SIC Code 1222<br/>NAICS 212112</b> |  |
| Name, Address of Responsible Official/Title/Phone and Fax Number<br><b>Bruce Hill, President and CEO<br/>UtahAmerican Energy, Inc.<br/>P.O. Box 1077<br/>Price, UT 84501<br/>(435) 888-4000</b> | SEE ATTACHED  |  |
| Contacted<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |   |  |

**Section C: Areas Evaluated During Inspection (Check only those areas evaluated)**

|   |   |  |                              |
|---|---|--|------------------------------|
| <input checked="" type="checkbox"/> Permit                    | <input checked="" type="checkbox"/> Self Monitoring Program | <input type="checkbox"/> Pretreatment            | <input type="checkbox"/> MS4 |
| <input checked="" type="checkbox"/> Records/Reports           | <input type="checkbox"/> Compliance Schedule                | <input type="checkbox"/> Pollution Prevention    |                              |
| <input checked="" type="checkbox"/> Facility Site Review      | <input type="checkbox"/> Laboratory                         | <input type="checkbox"/> Storm Water             |                              |
| <input checked="" type="checkbox"/> Effluent/Receiving Waters | <input type="checkbox"/> Operations & Maintenance           | <input type="checkbox"/> Combined Sewer Overflow |                              |
| <input type="checkbox"/> Flow Measurement                     | <input type="checkbox"/> Sludge Handling/Disposal           | <input type="checkbox"/> Sanitary Sewer Overflow |                              |

**Section D: Summary of Findings/Comments**

**Attach additional sheets of narrative and checklists, including Single Event Violation codes, as necessary)**

SEV Description

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

|   |  |                         |
|---|--|-------------------------|
| Name of Inspector(s)<br><b>ENVIRONMENTAL SCIENTIST</b><br><i>[Signature]</i>              | Agency/Office/Phone and Fax Number(s)<br><b>DWQ<br/>(801) 538-6779</b> | Date:<br><b>5-13-09</b> |
| Name and Title of Management QA Reviewer<br><b>MIKE [Signature]<br/>UPDES [Signature]</b> | Agency/Office/Phone and Fax Number(s)<br><b>DWQ<br/>(801) 538-6058</b> | Date:<br><b>5/14/09</b> |

USEPA REGION 8 NPDES INSPECTION CHECKLIST

NPDES PERMIT #: UT0025640

INSPECTION DATE: 4-29-09

FACILITY: West Ridge Resources, Inc  
West Ridge Mine - Dave Shaver - Resident Agent

(0900 - on site)  
(1245 - off site) J. Studentka - DWG  
Resident Agent

Weather: Sunny, clear ~ 60°F

I. PERMIT VERIFICATION

- YES NO Inspection observations verify information contained in permit.
- Yes No N/A 1. Current copy of permit on site. office bldg.
- Yes No N/A 2. Name, mailing address, contact, and phone number are correct in PCS. If not, indicate correct information on Form 3560.
3. Brief description of the wastewater treatment plant:  
Underground water is collected in Mine and distributed to settling area + pump stations. Nalco chemical flocculant is added underground to treat for iron particulates prior to discharge (O&B)
- Yes No N/A 4. Facility is as described in permit. If not, what is different? \_\_\_\_\_
- Yes No  N/A 5. EPA/State has been notified of any new, different, or increased loading to the WWTP.
- Yes No N/A 6. Number and location of discharge points are as described in the permit. 2
- Yes No N/A 7. Name of receiving water(s) is/are correct. "C" Canyon Drainage

Comments:

II. RECORDKEEPING AND REPORTING EVALUATION

- YES NO Records and reports are maintained as required by permit. At office bldg.
- Yes No N/A 1. All required information is current, complete, and reasonably available.
- Yes No N/A 2. Information is maintained for the required 3 year period.
3. Sampling and analysis data are adequate and include: Performed by Karla Knapp of JBR ENV. Consultants, Inc
- Yes No N/A a. Dates, times, locations of sampling.
- Yes No N/A b. Initials of individual performing sampling.
- Yes No N/A c. Referenced analytical methods and techniques in conformance with 40 CFR Part 136.
- Yes No N/A d. Results of analyses and calibration.
- Yes No N/A e. Dates of analyses (and times if required by permit).
- Yes No N/A f. Initials of person performing analyses.
- Yes No  N/A g. Instantaneous flow at grab sample stations.

(Yes) No N/A  
(Yes) No N/A  
Comments:

- 4. Sampling and analysis completed on parameters specified in permit.
- 5. Sampling and analysis done in frequency specified by permit.

(2/mo. on all parameters since Feb. 2008)

(YES) NO  
(Yes) No N/A  
(Yes) No N/A  
(es) No N/A

**DMR completion meets the self-monitoring reporting requirements.**

- 1. Monitoring for required parameters is performed more frequently than required by permit. Parameter(s) Currently TSS, total Iron, pH & pH are monitored twice per month (once/month required)
- 2. Analytical results are consistent with the data reported on the DMRs.
- 3. All data collected are summarized on the DMR.
- 4. Monthly, weekly, and/or daily average loading values are calculated properly and reported on the DMR. (Effluent loadings are calculated using effluent flow.) TDS
- 5. The geometric mean is calculated and recorded for fecal coliform data.
- 6. Weekly and monthly averaging is calculated properly and reported on the DMR. TSS
- 7. The maximum and minimum values of all data points are reported properly.
- 8. The number of exceedances column (No. Ex.) is completed properly.

Comments: DMR data file review yielded no problems

**WHOLE EFFLUENT TOXICITY TESTING AND REPORTING**

n/a - no WET testing required.

(ES) NO  
(s) No  
(s) No  
(s) No  
(s) No N/A  
(s) No N/A  
(s) No N/A  
(s) No N/A

- WET sampling by permittee adequate to meet the conditions of the permit.
  - a. Chain of custody used.
  - b. Method of shipment and preservation adequate (iced to 4°C).
  - c. Type of sample collected \_\_\_\_\_ (as required by permit).
  - d. Holding time met (received w/in 36 hours).
- 2. Lab reports/chain of custody sheets indicate temperature of sample at receipt by lab.
  - a. Indicate temperature \_\_\_\_\_
- 3. Permittee has copy of the latest edition of testing methods or Region 8 protocol. (Latest version is July 1993 - Colorado has its own guidance.)
- 4. Permittee reviews WET lab reports for adherence to test protocols.
- 5. Lab has provided quality control data, i.e., reference toxicant control charts.

- |     |    |     |   |
|-----|----|-----|---|
| Yes | No | N/A | 6. Permittee has asked lab for QC data.   |
| Yes | No | N/A | 7. Permittee maintains copies of WET lab reports on site for required 3 year period, and makes them available for review by inspectors.                 |
| Yes | No | N/A | 8. Evaluation and review of WET data by permittee adequate such that no follow up at lab is necessary. (Follow up to be conducted by EPA and/or State.) |

Comments:

**IV. FACILITY SITE REVIEW**

- YES  NO Treatment facility properly operated and maintained. (Industrial facility)
- Yes  No  N/A 1. Standby power or other equivalent provision is provided. Specify type:  
Generators as needed
- Yes  No  N/A 2. Facility has an alarm system for power or equipment failures. What kind of problems has the facility experienced due to power failures? None
- Yes  No  N/A 3. Treatment control procedures are established for emergencies.
- Yes  No  N/A 4. Facility can be by-passed (internal, collection system, total). Describe by-pass procedures: \_\_\_\_\_
- Yes  No  N/A 5. Regulatory agency was notified of any bypassing (treated and/or untreated).  
 Dates: \_\_\_\_\_
- Yes  No  N/A 6. WWTP has adequate capacity to ensure against hydraulic and/or organic overloads.
- Yes  No  N/A 7. All treatment units, other than back-up units, are in service. If not, what and why?  
 \_\_\_\_\_
- Yes  No  N/A 8. O&M manual available and up-to-date.
- Yes  No  N/A 9. Procedures for plant O&M, including preventive maintenance schedules, are established and performed on time.
- Yes  No  N/A 10. Adequate spare parts and supplies inventory (including flow meters) are maintained, as well as major equipment specifications and/or repair manuals.
- Yes  No  N/A 11. Up-to-date maintenance and repair records are kept for major pieces of equipment.

→ This is not a mechanical WWTP. Therefore much of this section does not apply.

12. Number of qualified operators and staff.

How many? Certification Level

*n/a*

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Yes No  N/A 13. Certification level meets State requirement?

14. What procedures or practices are used to train new operators? *n/a*

V. SAFETY EVALUATION

YES  NO Facility has the necessary safety equipment.

Yes  No  N/A 1. Procedures are established for identifying out-of-service equipment. What are they?  
*Lockout / Tag out*

Yes  No  N/A 2. Personal protective clothing provided (safety helmets, ear protectors, goggles, gloves, rubber boots with steel toes, eye washes in labs).

Yes  No  N/A 3. Laboratory safety devices (eyewash and shower, fume hood, proper labeling and storage, pipette suction bulbs) available. *no lab on site*

Yes  No  N/A 4. Plant has general safety structures such as rails around or covers over tanks, pits, or wells. Plant is enclosed by a fence.

Yes  No  N/A 5. Portable hoists for equipment removal available.

Yes  No  N/A 6. All electrical circuitry enclosed and identified.

Yes  No  N/A 7. Chlorine safety is adequate and includes: *no chlorine treatment*  
a. NIOSH-approved 30-minute air pack.  
b. All standing chlorine cylinders chained in place.  
c. All personnel trained in the use of chlorine.  
d. Chlorine repair kit.  
e. Chlorine leak detector tied into plant alarm system.  
f. Ventilation fan with an outside switch.  
g. Posted safety precautions.

Yes  No  N/A  
Yes  No  N/A

Yes  No  N/A 8. Warning signs (no smoking, high voltage, nonpotable water, chlorine hazard, watch-your-step, and exit) posted.

Yes  No  N/A 9. Gas/explosion controls such as pressure-vacuum relief valves, no smoking signs, explosimeters, and drip traps present near anaerobic digesters, enclosed screening or degritting chambers, and sludge-piping or gas-piping structures.

Yes  No  N/A 10. Emergency phone numbers listed.

Yes No N/A 11. Plant is generally clean, free from open trash areas.

Yes No N/A 12. MSDS sheets, if required, are accessible by employees. *main office bldg.*

Comments:

VI. FLOW MEASUREMENT

YES NO FLOW MEASUREMENT MEETS THE REQUIREMENTS AND INTENT OF PERMIT

A. PRIMARY EFFLUENT FLOW MEASUREMENT

1. General

Type of primary flow measurement device: *In line meters underground (2)  
6" + 8" McCrometer / McPropeller*

Yes No  N/A 1. Primary flow measuring device is properly installed and maintained.  
Where? \_\_\_\_\_

Yes No  N/A 2. Flow measured at each outfall. Number of outfalls: 2

3. Frequency of routine inspection of primary flow device by operator:  
1/day. week or as needed

4. Frequency of routine cleaning of primary flow device by operator:  
1/week. as needed

Yes No  N/A 5. Influent flow is measured before all return lines.

Yes No N/A 6. Effluent flow is measured after all return lines.

Yes No  N/A 7. Proper flow tables are used by facility personnel.

8. Design flow: 1.5 mgd. (effluent capacity)

Yes No N/A 9. Flow measurement equipment adequate to handle expected ranges of flow rate. 0.7 -> 1.2 Mgd  
AVG.

2. Open Channel Primary Flow Measuring Devices

Flumes

Type and size: n/a EFF

Yes No  N/A 1. Flume is located in a straight section of the open channel, without bends immediately upstream or downstream.

Yes No  N/A 2. Flow entering flume appears reasonably well distributed across the channel and free of turbulence, boils, or other distortions.

Yes No  N/A 3. Flume is clean and free of obstructions, debris or deposits.

Yes No  N/A 4. All dimensions of flume accurate and level.

- Yes No N/A 5. Sides of flume throat are vertical and parallel.
- Yes No N/A 6. Side walls of flume are vertical and smooth.
- Yes No N/A 7. Flume head is being measured at proper location. (Location dependent on flume type - see NPDES Compliance Inspection Manual or ISCO book.)
- Yes No N/A 8. Flume is under free flow conditions at all times. (Flume is not submerged.)

Weirs

Type: na EFF

- Yes No N/A 1. Weir is level.
- Yes No N/A 2. Weir plate is plumb and its top edges are sharp and clean.
- Yes No N/A 3. Downstream edge of weir is chamfered at 45°.
- Yes No N/A 4. There is free access for air below the nappe of the weir.
- Yes No N/A 5. Upstream channel of weir is straight for at least four times the depth of water level, and free from disturbing influences.
- Yes No N/A 6. Distance from sides of weir to side of channel at least 2H.
- Yes No N/A 7. Area of approach channel at least 8 x nappe area for upstream distance of 15H. (If not, is velocity of approach too high?)
- Yes No N/A 8. Weir is under free-flow conditions at all times. (Weir is not submerged.)
- Yes No N/A 9. The stilling basin of the weir is of sufficient size and clear of debris.
- Yes No N/A 10. Head measurements are properly made by facility personnel.
- Yes No N/A 11. Weir is free from leakage.

3. Closed Channel Primary Measuring Devices

Electromagnetic Meters (2)

Type and model: 6" + 8" in-line flow meters / totalizers (McCrometer / McPropeller) EFF

- Yes No N/A 1. There is a straight length of pipe or channel before and after the flowmeter of at least 5 to 20 diameters.
- Yes No N/A 2. There are no sources of electric noise in the near vicinity.
- Yes No N/A 3. Magnetic flowmeter is properly grounded.
- Yes No N/A 4. Full pipe requirement is met.

Venturi Meters

Type and model: na EFF

Yes No N/A

1. Venturi meter is installed downstream from a straight and uniform section of pipe?

**B. Secondary Flow Measurement**

*no secondary flow measurements*

**1. General**

1. What are the most common problems that the operator has had with the secondary flow measurement device? None

Yes No N/A  
Yes No N/A  
Yes No N/A  
Yes No N/A  
Yes No N/A

2. Flow records properly kept.  
a. All charts maintained in a file.  
b. All calibration data kept.

3. Secondary device calibration records are kept.  
a. Frequency of secondary device calibration: \_\_\_ / year.

4. Frequency of flow totalizer calibration: \_\_\_ / year.

5. Secondary instruments (totalizers, recorders, etc.) are properly operated, calibrated, and maintained.

Floats

*na*

Type and model: \_\_\_\_\_ EFF

Bubblers

*na*

Type and model: \_\_\_\_\_ EFF

Ultrasonic

*na*

Type and model: \_\_\_\_\_ EFF

Electrical

*na*

Type and model: \_\_\_\_\_ EFF

Comments:

*Primary only, no secondary measurements.*

2. Flow Verification

|  |                                 |
|--|---------------------------------|
| Accuracy of Flow Measurement<br>(Secondary against Primary) <i>n/a</i> |                                 |
|  | Type and size of primary device |
|  | EFF:                            |
| Reading from primary standard, feet and inches                         |                                 |
| Equivalent to actual flow, mgd   |                                 |
| Facility-recorded flow from secondary device, mgd                      |                                 |
| Percent Error  |                                 |
| Correction Factor  |                                 |

Fill in above only if the primary device has been correctly installed, or if correction factor is known.

Comments:

*Primary only*

VII. LABORATORY QUALITY ASSURANCE

YES  NO Laboratory procedures meet the requirements and intent of the permit.

Yes  No  N/A 1. Commercial laboratory is used.

|            |                                      |
|------------|--------------------------------------|
| Parameters | <i>TSS, TDS, total iron, O&amp;G</i> |
| Name       | <i>Horizon Labs</i>                  |
| Address    | <i>Pace, UT</i>                      |
| Contact    | <i>on file</i>                       |
| Phone      | <i>"</i>                             |

Yes  No  N/A 2. According to the permittee, commercial laboratory is State certified (ND & UT only).

Yes  No  N/A 3. Written laboratory quality assurance manual is available, if the facility does its own lab work. *PH only on site by JBR ENV.*

Yes  No  N/A 4. Quality control procedures are used. Specify: *Calibrations before testing, duplicates, blanks, etc.*

Yes  No  N/A 5. Calibration and maintenance of laboratory instruments and equipment is satisfactory.

Yes  No  N/A 6. Samples are analyzed in accordance with 40 CFR 136.

Yes  No  N/A 7. Results of last DMR/QA test available. Date: \_\_\_\_\_

Yes  No  N/A 8. Facility lab does analyses for other permittees. If yes, list the facilities and their permit numbers.

*No facility lab*

VIII. COMPLIANCE SCHEDULE STATUS REVIEW *n/a*

YES NO

The permittee is meeting the compliance schedule

1. Is the facility subject to a compliance schedule either in its permit or in an order? If facility is subject to an order, note docket number: \_\_\_\_\_

*N/A*

2. What milestones remain in the schedule? \_\_\_\_\_  
 \_\_\_\_\_  
 (Attach additional sheets as necessary.)

Yes No

*N/A*

3. Facility is in compliance with unachieved milestones.

Yes No

*N/A*

4. Facility has missed milestone dates, but will still meet the final compliance date.

IX. PERMITTEE SAMPLING EVALUATION

YES NO

Sampling meets the requirements and intent of the permit.

Yes No *N/A*

1. Samples are taken at sampling location specified by permit. *001 + 002*

Yes No *N/A*

2. Locations are adequate for representative samples.

Yes  No *N/A*

3. Flow proportioned samples are obtained. *not required*

Yes No *N/A*

4. Permittee is using method of sample collection required by permit.  
 Required method: *grab*

If not, method being used is:

- Grab
- Manual
- Automatic composite

Yes No *N/A*

5. Sample collection procedures adequate and include:

- a. Sample refrigeration during compositing.
- b. Proper preservation techniques. *(bottles w/ preservatives from lab, then*
- c. Containers in conformance with 40 CFR 136.3. *Stored in cooler w/ ice.)*

Specify any problems: \_\_\_\_\_

Comments:

- No problems identified from sampling evaluation.
- Photo log completed separately
- Site walk & visit to each catchment structure  
 (map included)

# WestRidge Mine Site Visit 4-29-09 J-Studentka

| Photo Log    |           |   |                  |              |
|--------------|-----------|---|------------------|--------------|
| Photo Number | File Name | Description                               | Date/Time        | Photographer |
| 001          | 118-1850  | Outfall 002 (Mine water discharge)        | 4/29/09<br>09:12 | J.S.         |
| 002          | 118-1851  | Downstream from 002                       | "                | "            |
| 003          | 118-1852  | Sed. pond + outfall 001                   | 09:32            | "            |
| 004          | 118-1853  | Catchment basin "A"                       | 09:50            | "            |
| 005          | 118-1854  | Downstream from "A"                       | "                | "            |
| 006          | 118-1855  | Upstream from Catchment basin "A"         | 09:57            | "            |
| 007          | 118-1856  | Diversion channel from "A"                | 10:02            | "            |
| 008          | 118-1857  | Looking upstream at "A"                   | 10:02            | "            |
| 009          | 118-1858  | Looking upstream from Catchment basin "C" | 10:32            | "            |
| 010          | 118-1859  | Catchment Basin "C"                       | "                | "            |
| 011          | 118-1860  | " " " Log bales<br>being replaced         | 10:34            | "            |
| 012          | 118-1861  | Looking downstream from "C"               | 10:36            | "            |
| 013          | 118-1862  | Looking upstream from Catchment Basin "E" | 10:57            | "            |
| 014          | 118-1863  | Catchment Basin "E"                       | 10:58            | "            |
| 015          | 118-1864  | Looking downstream from "E"               | 10:58            | "            |
| 016          | 118-1865  | Looking upstream at "E"                   | 10:59            | "            |
| 017          | 118-1866  | Catchment Basin "F"                       | 11:15            | "            |
| 018          | 118-1867  | Catchment Basin "F" baffles               | 11:16            | "            |
| 019          | 118-1868  | Looking downstream from "F"               | 11:17            | "            |
| 020          | 118-1869  | Looking upstream from "F"                 | 11:17            | "            |
| —END         | —         |   |                  |              |
|              |           |   |                  |              |

# West Ridge Mine 4-29-2009



013 4/29/2009 10:57:33 AM

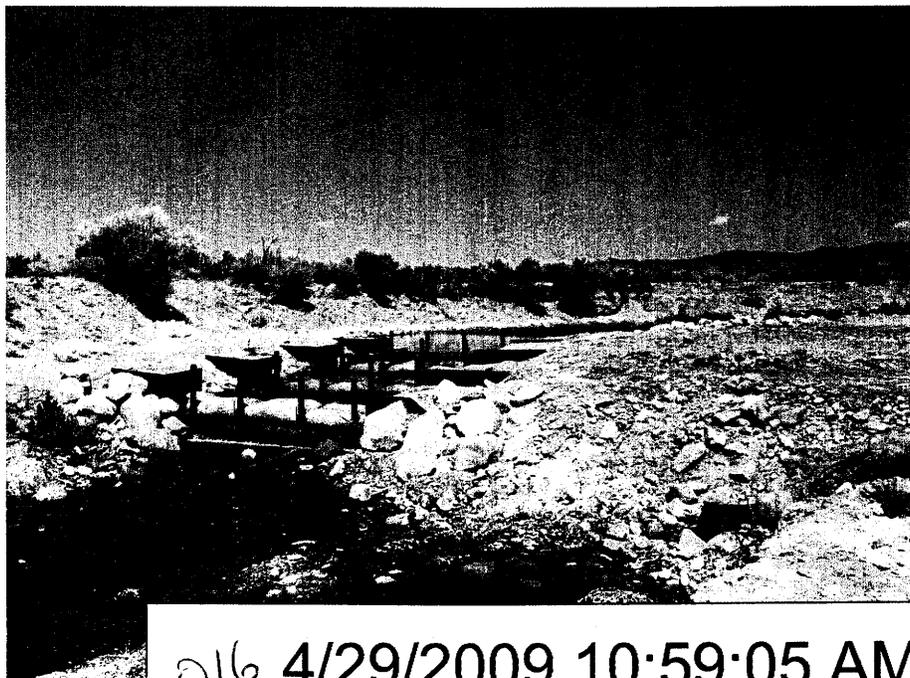


014 4/29/2009 10:58:02 AM

# West Ridge Mine 4-29-2009



015 4/29/2009 10:58:33 AM



016 4/29/2009 10:59:05 AM

# West Ridge Mine 4-29-2009

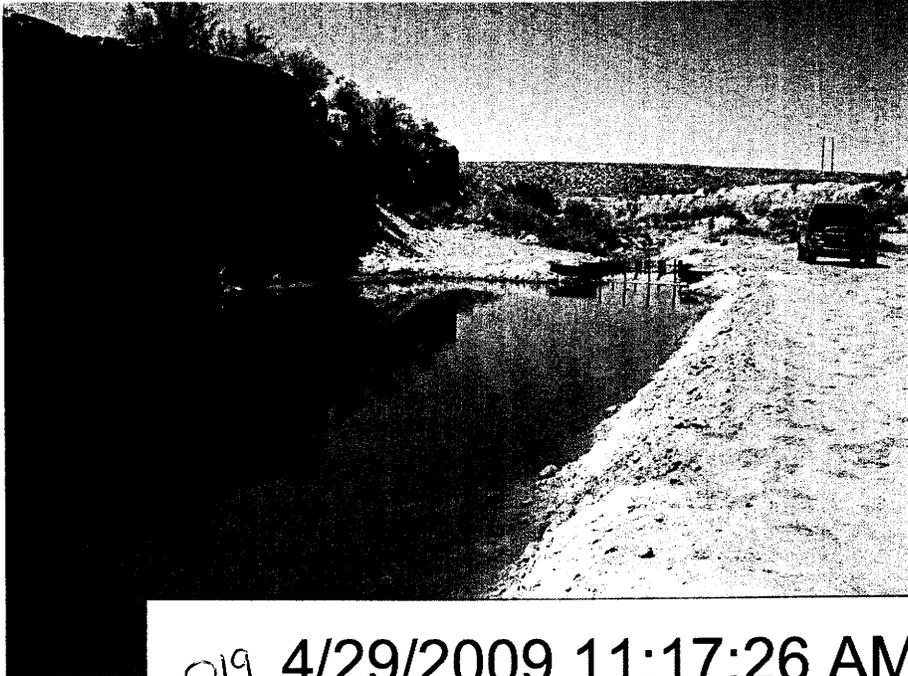


017 4/29/2009 11:15:32 AM



018 4/29/2009 11:16:06 AM

# West Ridge Mine 4-29-2009



019 4/29/2009 11:17:26 AM

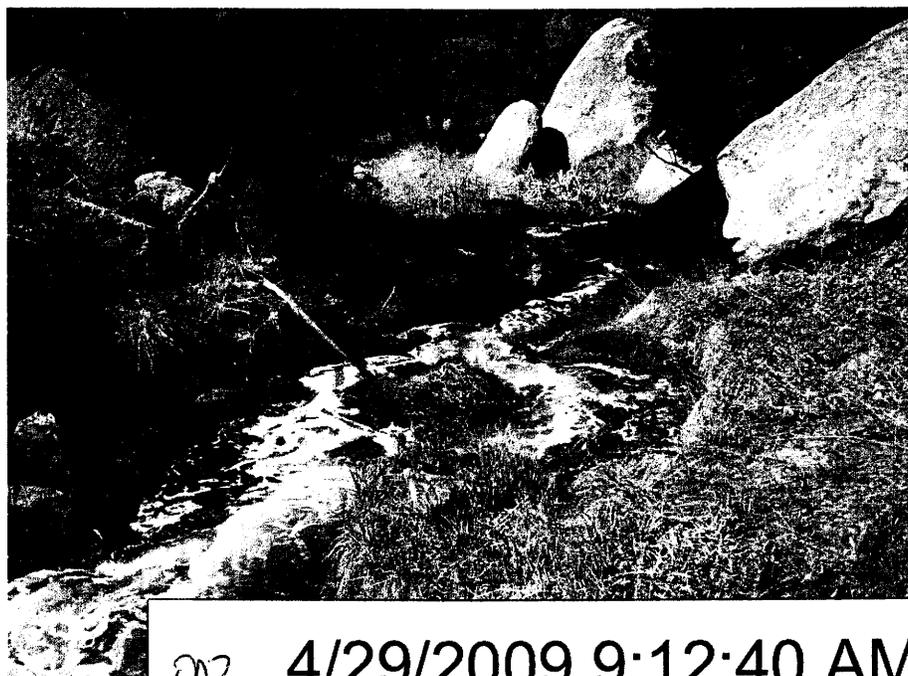


020 4/29/2009 11:17:40 AM

# West Ridge Mine 4-29-2009



001 4/29/2009 9:12:28 AM

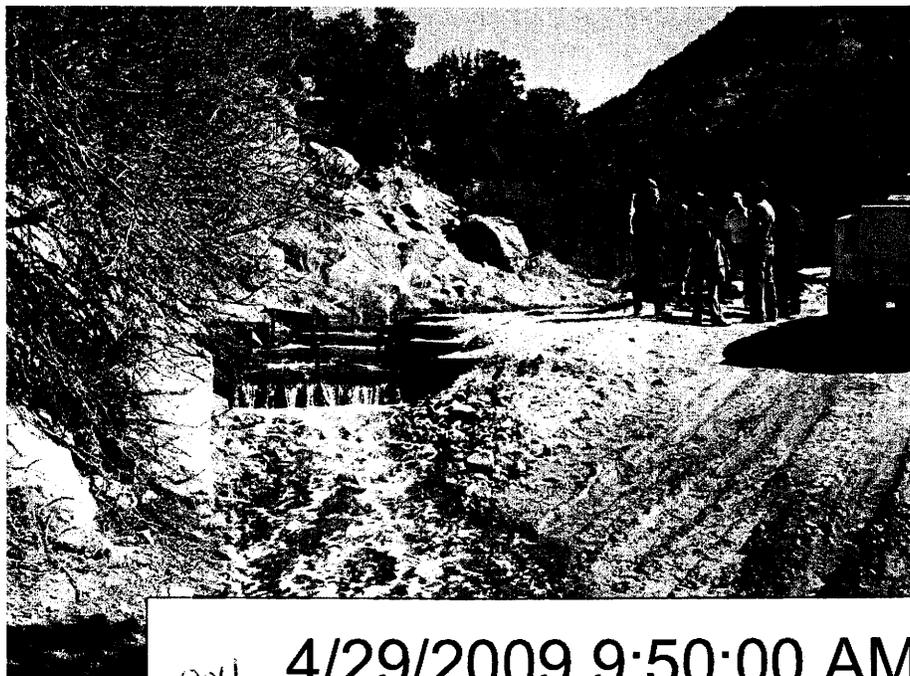


002 4/29/2009 9:12:40 AM

# West Ridge Mine 4-29-2009



003 4/29/2009 9:32:19 AM



004 4/29/2009 9:50:00 AM

# West Ridge Mine 4-29-2009



005

4/29/2009 9:50:14 AM



006

4/29/2009 9:51:48 AM

# West Ridge Mine 4-29-2009



007 4/29/2009 10:02:06 AM

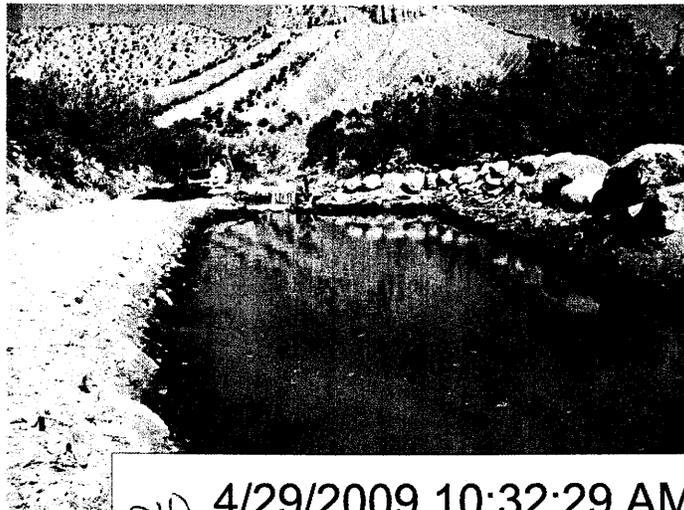


008 4/29/2009 10:02:10 AM

# West Ridge Mine 4-29-2009



009 4/29/2009 10:32:21 AM



010 4/29/2009 10:32:29 AM

# West Ridge Mine 4-29-2009



011 4/29/2009 10:34:18 AM



012 4/29/2009 10:36:29 AM

# West Ridge Mine 4-29-2009



013 4/29/2009 10:57:33 AM



014 4/29/2009 10:58:02 AM

# West Ridge Mine 4-29-2009



015 4/29/2009 10:58:33 AM



016 4/29/2009 10:59:05 AM

# West Ridge Mine 4-29-2009

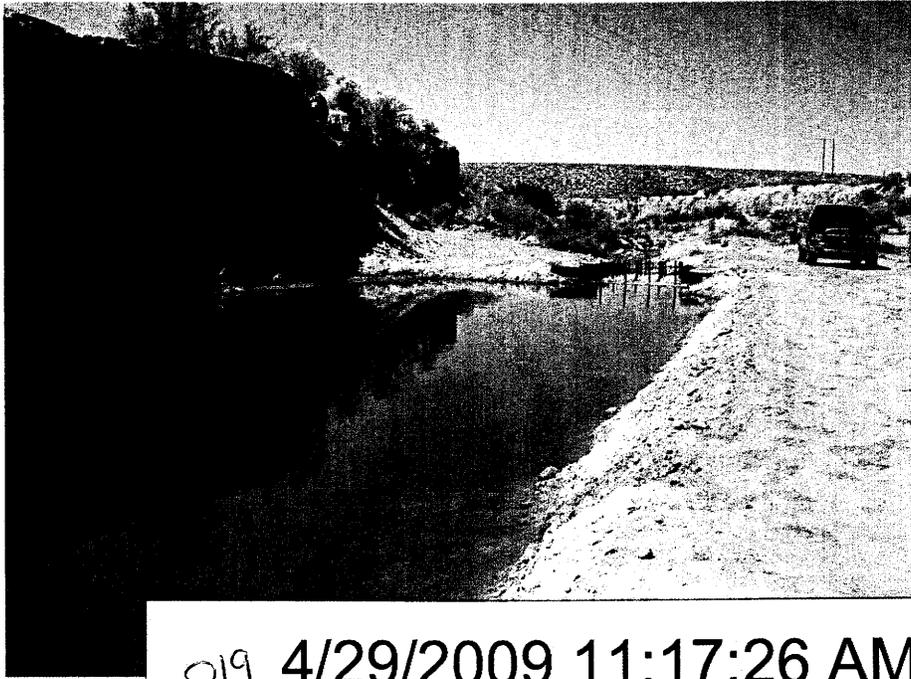


017 4/29/2009 11:15:32 AM

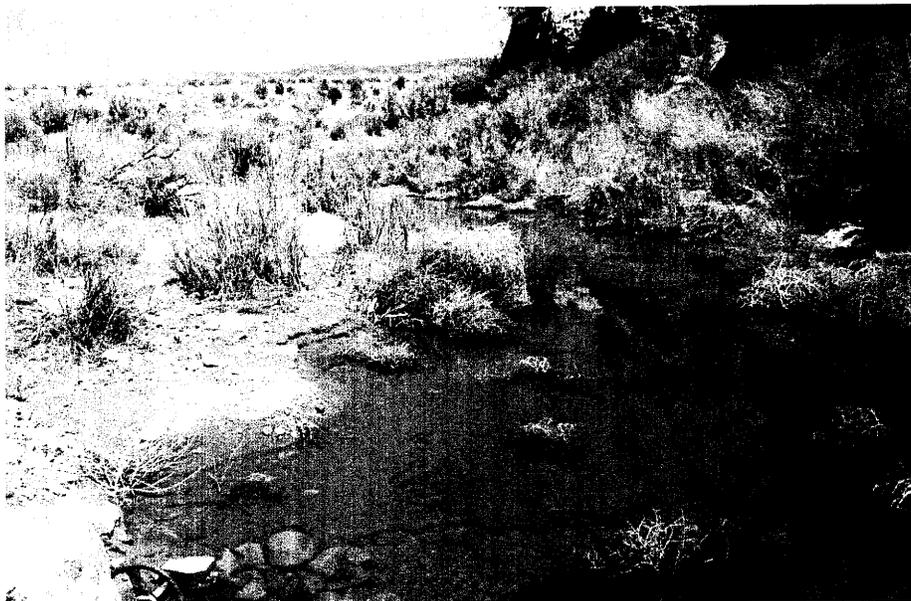


018 4/29/2009 11:16:06 AM

# West Ridge Mine 4-29-2009



019 4/29/2009 11:17:26 AM



020 4/29/2009 11:17:40 AM