



Energy Fuels Resources (USA) Inc.  
225 Union Blvd. Suite 600  
Lakewood, CO. US. 80228  
303 974 2140  
[www.energyfuels.com](http://www.energyfuels.com)

February 14, 2014

## 2013 STORMWATER PERMIT REPORT

Kathy Rosow  
Colorado Department of Public Health and Environment  
Water Quality Control Division  
4300 Cherry Creek Drive South  
Denver, Colorado 80246-1530  
Water Quality Control Discharge Permits – Mail Code 2034

m-1977-285  
m-1977-416  
m-1978-039 HR  
m-1980-055 HR  
m-1981-021

**Re: Energy Fuels Resources (USA) Inc.'s Sunday Mine Complex Stormwater Annual Report – Metal Mining COR-040223**

Ms. Rosow:

Enclosed is the 2013 annual report for Energy Fuels Resources (USA) Inc.'s ("EFRI") Sunday Mines Complex (the "Complex") Stormwater Discharge Permit COR-040223.

The Complex includes five mine sites. They are the Carnation Mine, the Topaz Mine, the St. Jude Mine, the Sunday Mine and the West Sunday Mine. There were no mining activities at the Complex in 2013; however, the Complex was placed back in active status in order to implement the Environmental Protection Plan, and perform further groundwater characterization. Two comprehensive stormwater inspections were completed for the Complex in 2013, as required by the permit. EFRI made improvements to the best management practices ("BMPs") at the Sunday Mine in 2013. Due to the frequency of maintenance needed on the BMPs at the main catchment pond at the Sunday Mine, EFRI chose to subdivide the pond into four smaller ponds. These improvements did not change the disturbance area, but will allow for better catchment of runoff at the site in the future. The improvements are shown on the "Sunday Mine Stormwater Site Map", included as Attachment 1 to this report. There were no other changes made to the BMPs at the other mine sites in the Complex in 2013; however, EFRI is providing updated Stormwater Site Maps for all five mine sites at the Complex in Attachment 1 for informational purposes.

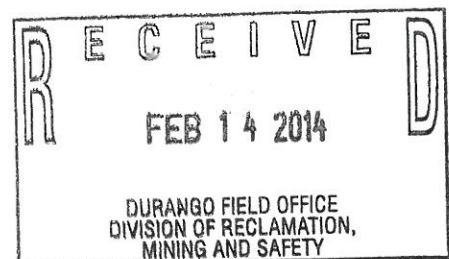
The Complex is located in an arid climate where very little runoff of sufficient quantity can be collected and the occurrence of a discharge is extremely rare. EFRI maintains sampling equipment and has Field Personnel prepared to take a sample in the event of a heavy enough rainfall to collect a sample; however, no stormwater sampling was conducted in 2013.

If you have any questions or comments, please do not hesitate to contact me at 303-389-4167.

Yours very truly,

  
**ENERGY FUELS RESOURCES (USA) INC.**  
Jaime Massey  
Regulatory Compliance Specialist

cc: Harold R. Roberts, Frank Filas, Kathy Weinel (EFRI)  
Bob Oswald (DRMS)  
James Blair (BLM)



**STORMWATER ANNUAL REPORT - METAL MINING (& COAL)**  
**COLORADO DEPT. OF PUBLIC HEALTH & ENVIRONMENT**

Water Quality Control Division  
WQCD-P-B2  
4300 Cherry Creek Drive South  
Denver, Colorado 80246-1530

**Make enough copies of form for each reporting year. Or go to**  
<http://www.cdphe.state.co.us/wq/PermitsUnit/stormwater/industrial.html>

Check if this is a  
new name, address, etc.

Permittee (Company Name): Energy Fuels Resources (USA) Inc. ☐

Facility Name: Sunday Mines Complex ☐

Mailing Address: 225 Union Blvd., Suite 600, Lakewood, CO 80228 ☐

Facility Phone Number: 303-974-2140 ☐

Permit Certification No. COR-04 0223

Reporting Period: Jan. 1-Dec. 31, 20 13 (Form is due by Feb. 15 of the following year)

**\*\*Each section must be completed. Please print or type.\*\***

- A.** *A report on the facility's overall compliance with the SWMP. (Include here a summary of any measures taken to comply with your Stormwater Management Plan (SWMP), to fully implement it, changes or improvements made in any of your Best Management Practices (BMPs), employee training, spills, other problems encountered, etc. How is your plan working?)*

The Sunday Mines Complex (the "Complex") consists of five mines sites. They are the Sunday Mine, the West Sunday Mine, the St. Jude Mine, the Topaz Mine, and the Carnation Mine. While there were no mining activities at the Complex in 2013, the Complex was considered active in order to implement the Environmental Protection Plan and perform further groundwater characterization at the Complex. The SWMP for the Complex covers all five mine sites. Two comprehensive SWMP inspections of the Complex were completed in 2013, as required by the permit.

Were changes made to your SWMP? ☒ No ☐ Yes - Describe changes on a separate sheet.

- B.** *A summary of each comprehensive stormwater facility inspection made, including date, findings, and action taken. (The permit requires at least **two** comprehensive facility inspections per year - see page 12 of the permit. Include here a **summary** of those inspections, plus any other comprehensive inspections made. It is not necessary to summarize day-to-day inspections, unless significant problems were noted.)*

First Inspection - Date 3/7/13. Findings, and action taken: \_\_\_\_\_

The BMPs at each site were observed to be in good working order, and did not require any maintenance.

# STORMWATER ANNUAL REPORT - METAL MINING (& COAL)

Permit Cert. No. COR-04 0223

Second Inspection - Date 10/21/13. Findings, and action taken: The BMPs at the West Sunday Mine  
and the Topaz Mine were observed to be in working order and did not require any maintenance. Minor Erosion  
was noted at the Carnation Mine and St. Jude Mine on the berms around the sites and near the mine access  
portals. Field Personnel repaired the berms and removed sediment from diversion ditches on 10/21/13  
and no further maintenance was required. Minor Erosion was also noted at the Sunday Mine on the berms around

Notes from the 10-21-13 inspection continued:


Other Inspections - Date   /  /  . Findings, and action taken: the site. Field Personnel repaired the berms  
and no further maintenance was required. Significant erosion was noted on the berms around the main  
around the main catchment pond at the Sunday Mine. Due to the need for frequent maintenance on this pond,  
EFRI chose to subdivide the pond into 4 smaller ponds. A map showing these BMP changes and improvements  
is included with this report. In addition, updated SWMP maps for each of the 5 mine sites are included with this report.

- C. *Results and interpretation of any stormwater monitoring performed. Attach a separate sheet with the lab results. (Monitoring is **not** a requirement under the permit, unless you were specifically directed to do so by the Division. However, the results of any stormwater monitoring that you performed on your own should be reported here.)*

Monitoring Results Attached? ☒ No ☐ Yes

## D. Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

  
Signature of Permittee (legally responsible person)

Feb 14, 2014  
Date Signed

Frank Filas  
Name (printed)

VP, Permitting and Environmental Affairs  
Title

Attachment 1





- LEGEND**
- Disturbed Area
  - Fence
  - Son Miguel Power Line and Pole
  - Denison Power Line and Pole
  - Crest and Toe of Piles
  - Affected Area Boundary
  - Access Roads
  - Permanent Roads
  - Reclaimed/Naturally Reclaimed Roads
  - Dashed where Unsurveyed
  - Containment Berm
  - Safety Berm

| Stormwater Containment Pond Volumes |                                 |                            |
|-------------------------------------|---------------------------------|----------------------------|
| Pond Name                           | Approximate Area and Depth (ft) | Approximate Volume (ac-ft) |
| Pond 1                              | 11,512 x 5                      | 1.32                       |
| Pond 2                              | 2,902 x 5                       | 0.33                       |
| Pond 3                              | 2,455 x 5                       | 0.28                       |
| Pond 4                              | 3,061 x 4                       | 0.28                       |
| Pond 5                              | 875 x 2                         | 0.04                       |
| Pond 6                              | 1,264 x 1                       | 0.03                       |
| Pond 7                              | 6,668 x 2                       | 0.31                       |
| Pond 8                              | 2,544 x 3                       | 0.18                       |
| Pond 9                              | 616 x 4                         | 0.06                       |
| Pond 10                             | 762 x 2                         | 0.03                       |
| Pond 11                             | 451 x 3                         | 0.03                       |
| Pond 12                             | 1,616 x 2                       | 0.07                       |
| Pond 13                             | 4,322 x 4                       | 0.40                       |
| Pond 14                             | 2,867 x 4                       | 0.26                       |

TRUE NORTH  
12.5° MN



Contour Interval = 20 Feet  
from USGS 7.5 minute Quadrangle  
Sheet Hamm Canyon Colo., 1994  
Colorado State Plane Coordinate System  
South Zone, NAD 27

**Energy Fuels Resources (USA) Inc.**

Project: Sunday Complex

County: San Miguel State: Colorado

Location: Section 13 T44N R10W

Stormwater Site Map

Author: RE Date: 10/29/13 Scale: 1"=50' RE





LEGEND

- Disturbed Area
- Fence
- San Miguel Power Line and Pole
- Denison Power Line and Pole
- Crest and Toe of Piles
- Affected Area Boundary
- Access Roads
- Permanent Roads
- Reclaimed/Naturally Reclaimed Roads
- Dashed where Unsurveyed
- Containment Berm
- Safety Berm

| Stormwater Containment Pond Volumes |                                 |                            |
|-------------------------------------|---------------------------------|----------------------------|
| Pond Name                           | Approximate Area and Depth (ft) | Approximate Volume (ac-ft) |
| Pond 1                              | 1,174 x 2                       | 0.05                       |
| Pond 2                              | 524 x 2                         | 0.02                       |



SCALE IN FEET

Contour Interval = 20 Feet  
 from USGS 7.5 minute Quadrangle  
 Sheet Hamm Canyon Colo., 1994  
 Colorado State Plane Coordinate System  
 South Zone, NAD 83

**Energy Fuels Resources (USA) Inc.**

Project: Sunday Complex

County: San Miguel State: Colorado

File: Location: Section 13, 14 T44N R18W

St. Jude Mine

Stormwater Site Map

Author: RE Date: 10/29/13 Graphics: RE





**LEGEND**

- Disturbed Area
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- Access Roads
- Permanent Roads
- Reclaimed/Naturally Reclaimed Roads
- Dashed where Unsurveyed
- Containment Berm
- Safety Berm

| Stormwater Containment Pond Volumes |                                 |                            |
|-------------------------------------|---------------------------------|----------------------------|
| Pond Name                           | Approximate Area and Depth (ft) | Approximate Volume (ac-ft) |
| Pond                                | 1,521 x 2                       | 0.07                       |



Contour Interval = 20 Feet  
 from USGS 7.5 minute Quadrangle  
 Sheet Herm Canyon Colo., 1994  
 Colorado State Plane Coordinate System  
 South Zone, NAD 83

**Energy Fuels Resources (USA) Inc.**














|                     |                      |
|---------------------|----------------------|
| Project             | Sunday Complex       |
| Location            | San Miguel, Colorado |
| Section             | Section 13 T44N R18W |
| Carnation Mine      |                      |
| Stormwater Site Map |                      |

Author: [ ] Date: 11/16/11 [ ]





### LEGEND

- |   |                                     |
|---|-------------------------------------|
|  | Disturbed Area                      |
|  | Fence                               |
|  | San Miguel Power Line and Pole      |
|  | Denison Power Line and Pole         |
|  | Crest and Toe of Piles              |
|  | Affected Area Boundary              |
|  | Access Roads                        |
|  | Permanant Roads                     |
|  | Reclaimed/Naturally Reclaimed Roads |
|  | Dashed where Unsurveyed             |
|  | Containment Berm                    |
|  | Safety Berm                         |
|  | Drainage Channel                    |



Contour Interval = 20 Feet  
from USGS 7.5 minute Quadrangle  
Sheet Hamm Canyon Colo., 1994

Colorado State Plane Coordinate System  
South Zone, NAD 83



|         |         |                     |                      |
|---------|---------|---------------------|----------------------|
| Persons | Project | Sunday Complex      |                      |
| Date    | By      | Country: Sen Miguel | State: Colorado      |
|         |         | Location            | Section 10 T44N R18W |

## Topaz Mine

## Stormwater Site Map

|        |      |                  |          |
|--------|------|------------------|----------|
| Author | Date | Scale            | Drawn by |
|        |      | 1" = 100' N.T.S. | DFC      |



