



STATE OF
COLORADO

Musick - DNR, Jason <jason.musick@state.co.us>

RE: Bowie No. 2 Mine, C-1996-083, 2015 ARR Review Letter

1 message

Jim Stover <jestover@bresnan.net>
To: "Musick - DNR, Jason" <jason.musick@state.co.us>
Cc: Bill Bear <BBear@bowieresources.com>

Mon, Sep 12, 2016 at 2:31 PM

Jason: Attached is our 2015 ARR adequacy response.

Jim Stover

J. E. Stover & Associates, Inc.

2352 N 7th Street , Unit B

Grand Junction, CO 81501

O: 970-245-4101 M: 970-260-0802

From: Musick - DNR, Jason [mailto:jason.musick@state.co.us]
Sent: Monday, September 12, 2016 9:51 AM
To: Bill Bear
Cc: Jim Stover
Subject: Bowie No. 2 Mine, C-1996-083, 2015 ARR Review Letter

Morning Bill,

Attached is the Division's review of the 2015 ARR. Please note any requested additional information identified in bold.

Please let me know if you have any questions or comments.

Thanks,

Jason

Jason Musick

Environmental Protection Specialist III

Coal Regulatory Program



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

P 303.866.3567 x 8134 | F 303.832.8106

1313 Sherman Street, Room 215, Denver, CO 80203

jason.musick@state.co.us | <http://mining.state.co.us>

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Adequacy Response ARR 2015.pdf

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MINE ENGINEERING
MINE RECLAMATION

CIVIL ENGINEERING
CONST. MANAGEMENT

September 12, 2016

Jason Musick
Division of Reclamation, Mining & Safety
1313 Sherman St., Room 215
Denver, CO 80203

Re: Bowie Resources, LLC, Bowie No. 2 Mine
2015 Annual Reclamation Report
Permit C-1996-083

Dear Mr. Musick:

DRMS' letter dated September 12, 2016 transmitted its adequacy review for the referenced annual reclamation report. On behalf of Bowie Resources, LLC, following are its responses to the DRMS' comments and concerns.

1. The 2015 cumulative total of Acres Disturbed is 381.0. However, the total number of acres disturbed For the Entire Life of Mine is identified as 380.7. The Division recognizes a 0.3 addition error for the 2014 Disturbance. If the 0.3 reporting error is a -0.3, the 374.5 acres identified as Last Years Cumulative Total should be 375.2. **Please address why the two totals are different.**

BRL – The numbers should not be different, 381.0 acres is the correct total disturbed area. See amended page 5 from the 2015 ARR.

2. Based on a comparison with the 2014 ARR numbers, the Acreage in long-term or reclamation facilities has decreased. The 2014 ARR denotes a total of 301.5 acres in long-term mining or reclamation facilities, while the 2015 ARR denotes a lesser number of 284.1. **Please provide information as to the decrease in acres in long term mining or reclamation facilities.**

BRL - BRL uses the formula, total disturbed acres minus the area backfilled, graded, topsoiled and seeded equals the acreage in long-term mining or reclamation facilities. See the amended 2015 ARR form.

Sincerely,

J. E. Stover

J. E. Stover, P.E.
Consulting Engineer

Cc: Bill Bear, Bowie Resources, LLC (electronically)

| | |
|---|-----|
| Bowie No. 2 TR-86, MR-152 16C RD | 0.4 |
| Bowie No. 2 TR-86, MR-152 16D RD | 0.1 |
| Bowie No. 2 TR-86, B16C Drill Site | 1.0 |
| Bowie No. 2 TR-86, B16D Drill Site | 1.0 |
| Bowie No. 2 TR-86, MR-152 17A RD | 1.2 |
| Bowie No. 2 TR-86, B17A Drill Site | 1.0 |
| Bowie No. 2 TR-86, B17B Drill Site | 1.0 |
| Bowie No. 2 TR-86, MR-152 17C RD | 0.3 |
| Bowie No. 2 TR-86, B17C Drill Site | 1.0 |
| Bowie No. 2 TR-86, MR-152 17D RD | 0.8 |
| Bowie No. 2 TR-86, B17D Drill Site | 1.0 |
| Bowie No. 2 TR-86, MR-152 17E RD | 0.3 |
| Bowie No. 2 TR-86, B17E Drill Site | 1.0 |
| Bowie No. 2 TR-86, MR-152 17F RD | 0.5 |
| Bowie No. 2 TR-86, B17F Drill Site | 1.0 |
| Bowie No. 2 TR-86, 2014-SS-B Drill Site | 1.0 |
| Bowie No. 2 TR-86, 2014-SS-C Drill Site | 1.0 |
| Bowie No. 2 MR-146, Pitkin Mesa Pipeline | 4.0 |
| Bowie No. 2 MR-164, 58A RD | 0.5 |
| Bowie No. 2 MR-164, 58A Drill Site | 1.0 |
| Bowie No. 2 MR-151, Coal Stockpile Expansion | 1.0 |
| Bowie No. 2 MR-125, Filter Building | 0.2 |
| Bowie No. 2 TR-91, Storage building/area near canal | 0.3 |
| Bowie No. 2 MR-141, Gob Pile No. 3 | 1.8 |
| Bowie No. 2 MR-88, West Gob Pile Geotech Holes | 2.6 |

| | |
|--------------------------------------|------------------------------|
| Total Disturbance During 2014 | 33.6 (33.9 corrected) |
|--------------------------------------|------------------------------|

2015 Disturbance

Addition Error in 2014 (0.3 Added into corrected acreage above)

| | |
|--|-----|
| Bowie No. 2 MR-165 Section 5 Road | 1.2 |
| Bowie No. 2 TR-89 Gob Pile No. 2 Upper Diversion Ditch | 5.0 |

| | |
|---------------------------------------|--------------------------------|
| Total Disturbance through 2014 | 374.5 (374.8 corrected) |
|---------------------------------------|--------------------------------|

| | |
|---------------------------------------|--------------|
| Total Disturbance through 2015 | 381.0 |
|---------------------------------------|--------------|

- (c) Area back filled and graded and;
- (d) Area Topsoiled and;
- (e) Area Seeded:

| Year | Description | Acres |
|------|--------------------|-------|
| 2003 | GVB-D1-A Drill Pad | 0.2 |
| 2003 | GVB-D1-B Drill Pad | 0.2 |
| 2003 | GVB-D2-A Drill Pad | 0.2 |
| 2003 | GVB-D2-B Drill Pad | 0.3 |
| 2003 | GVB-D4-A Drill Pad | 0.4 |
| 2003 | GVB-D4-B Drill Pad | 0.5 |
| 2003 | GVB-D5-A Drill Pad | 0.5 |

Colorado Division of Reclamation, Mining and Safety

Annual Reclamation Report for the Year 2015

Bowie No. 2 Mine

C-1996-083

Bowie Resources, LLC

mine name

permit #

Permittee

Address: P.O. Box 483, Paonia, CO 81428

This report, required by Rule 2.04.13, is due by February 15 of each year, or other date, as agreed upon by the Division. It should include text, discussion, and maps, at a minimum, in addition to any other reclamation monitoring data as required by the approved permit. The location of the acreage reported under each land status category and year of seeding (if applicable) should be clearly and accurately identified on a map included with the report.

| Land Status Category | Last Years Cumulative Total | | This Calendar Year | | Cumulative Total ¹ |
|-----------------------------|-----------------------------|---|--------------------|---|-------------------------------|
| Acres disturbed | 374.8 | + | 6.2 | = | 381.0 |
| Acres backfilled and graded | 73.0 | + | 23.9 | = | 96.9 |
| Acres topsoiled | 73.0 | + | 23.9 | = | 96.9 |

Seeding typically begins the minimum 10-year reclamation liability period. Please report the acres for each category below. Do not include acres that have achieved final, Phase III release.

| | Last Years Cumulative Total | | This Calendar year | | Cumulative Total ¹ | | 10 years or less | | Greater than 10 years ¹ |
|---------------|-----------------------------|---|--------------------|---|-------------------------------|---|------------------|---|------------------------------------|
| Acres seeded* | 73.0 | + | 23.9 | = | 96.9 | = | 91.2 | + | 5.7 |

*include, if necessary, a description of any augmented seeding or cultural practices

For the Entire Life of Mine, the total number of acres disturbed 381.0 and the total number of acres:

Phase I released -0- Phase II released -0- Phase III released -0-

For Mines in Permanent Cessation:

Total acreage in facilities subject to reclamation but yet to be completed N/A

For Government Performance and Results Act

Acreage in long-term mining or reclamation facilities ² 284.1

Acreage in active mining areas ³ -0-

¹ (exclude acres where Phase III release has been achieved)

² Includes haul and access roads; temporary dams and impoundments; permanent dams and impoundments; diversion and collector ditches, water and air monitoring sites; topsoil stockpiles; overburden stockpiles; repair, storage and construction areas; office area, repair shops, and parking; coal stockpiles, loading, and processing areas; railroads; coal conveyors; nonbackfilled and graded areas of refuse piles, coal mine waste impoundments, head-of-hollow fills, and valley fills; ventilation shafts and entryways; and noncoal waste disposal area (garbage dumps and coal combustion by-products disposal areas).

³ Includes pits, topsoil stripped areas in advance of pits, and spoil not backfilled and graded