

Bowie No. 1 Mine PO Box 1488 Paonia, CO. 81428 Office (970)986-6236

Certified Mail No.: 7016 1370 0000 8339 8417

February 3, 2020

Mr. Rob Zuber Environmental Protection Specialist 1313 Sherman St., Room 215 Denver, CO. 80203

RE: Bowie No. 1 Mine Permit No. C-1981-038 2019 Annual Reclamation Report

Dear Ms. Binns:

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As required, find enclosed Bowie No. 1 Mine, 2019 Annual Reclamation Report.

Sincerely;

Basil R. Bear Mine Manager

Colorado Division of Reclamation, Mining and Safety

Annual Reclamation Report for Calendar Year - 2019

| Bowie No. 1 Mine | C1981038 | Bowie Resources, LLC | + |
|---------------------------------|---------------|----------------------|---|
| Mine Name | Permit Number | Permittee | _ |
| P.O. Box 1488. Paonia. CO 81428 | | | |

Address

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 identified on a map included with the report.

| Land Catagory | Last Year's Cumulative Total | This Cale | endar Year | | |
|--|--|-----------------|----------------------|---|------------------|
| Land Category | (from last year's ARR) | Acres Added (+) | Acres Subtracted (-) | | Cumulative Total |
| Acreage in Active Mining Areas ¹ | 0 | 0 | 0 | = | 0 |
| | | This Cal | endar Year | | |
| Land Category | Last Year's Cumulative Total (from last year's ARR) | Acres Added (+) | Acres Subtracted (-) | | Cumulative Total |
| Acres Disturbed ² | 156.10 | 0 | 0 | = | 156.1 |
| Acres Backfilled and Graded | 99 | 0 | . 0 | = | 101.46 |
| Acres Topsoiled | 91.27 | 0 | 0 | = | 86.17 |

| Acreage in Long-term | Last Year's Cumulative | This Cal | endar Year | | |
|-------------------------------------|---|-----------------|----------------------|---|------------------|
| Facilities ³ | Total (from last year's ARR) | Acres Added (+) | Acres Subtracted (-) | | Cumulative Total |
| Non-Permanent Facilities | Bowie 1 Loadout, West Mine Ponds, Roads | 0 | 0 | = | 54.64 |
| Permanent Facilities (permitted) | | 0 | 0 | = | |
| Totals | | | | = | |

| Acres Seeded | Last Year's Cumulative Total | This Cale | endar Year | | Cumulative Total |
|----------------------|------------------------------|-----------------|----------------------|---|------------------|
| (permanent) | (from last year's ARR) | Acres Added (+) | Acres Subtracted (-) | | Cumulative Total |
| 9 Years and Less | 21.56 | 0 | 0 | = | 20.01 |
| 10 Years and Greater | 87.42 | 0 | 0 | = | 88.59 |
| Totals | 108.60 | | | = | 108.60 |

| DealDalass | Last Year's Cumulative Total | This Cal | endar Year | | |
|--------------------|------------------------------|-----------------|--------------------------|---|------------------|
| Bond Release | (from last year's ARR) | Acres Added (+) | (+) Acres Subtracted (-) | | Cumulative Total |
| Phase I Released | 86.01 | 0 | 0 | = | 86.01 |
| Phase II Released | 82.14 | 0 | 0 | = | 82.14 |
| Phase III Released | 0 | 0 | 0 | = | 0 |

¹Includes pits, topsoil stripped areas in advance of pits, and spoil not backfilled and graded

 2 Surface Mine Acres Disturbed = B&G + Long-Term Facilities + Active Mining Areas; Underground Mine Acres Disturbed = B&G + Long-Term Facilities; Separately-permitted Loadouts = B&G + Long-Term Facilities

³Includes haul, access and light-use 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; refuse piles and coal mine waste impoundments; head-of-hollow fills; valley fills; ventilation shafts and entryways; and non-coal waste disposal area (garbage dumps and coal combustion by-products disposal areas).

BOWIE RESOURCES LIMITED BOWIE NO. 1 MINE 2019 ANNUAL RECLAMATION REPORT PERMIT NO. C-81-038

BOWIE RESOURCES LIMITED 1720 4010 DRIVE PAONIA, COLORADO

Introduction:

In compliance with Rule 2.04.13, Bowie Resources LLC (BRL), Permit No. C-81-038, submits the following Reclamation Report for the calendar year 2018.

2019: Reclamation Activities: Reclamation for the RY2019 consisted of normal site maintenance including noxious weed control. Site maintenance consisted of silt fence/waddle repair at various locations and site cleanup of the Bowie 1 Old Loadout Facility. This included removing scrap metal and trash and burning of various brush piles.

Noxious weed control was performed at various location at the Bowie 1 Loadout, East and West Mines. Thistle was treated with the herbicide Curtail and Jointed Goat Grass with Glystar.

A Phase III vegetation study was completed in July of 2019 by Cedar Creek Associates. This study included the R.O.M. area and portions of the West Mine. This was the first of two required studies for Phase III release. Bowie anticipates doing the second study this year (2020).

2018: Reclamation Activities: Reclamation activities for the RY2018 involved site maintenance and noxious weed control. Maintenance consisted of silt fence repair, signage replacement and removal of volunteer trees around the Bowie 1 Loadout area. Noxious weed control involved spraying of various thistles and Jointed Goat Grass. Controlling the various species of thistle was done by spot spraying using the herbicide Curtail. Jointed Goat Grass was treated with Glystar.

Thistle locations consisted of loadout, East Mine, West Mine and ROM areas. Treating of the Jointed Goat Grass was limited to the loadout area, the southern outslope of the rail bed east of the actual loadout, and areas at the East Mine access road.

2017: Reclamation Activities; During the RY2017, Bowie completed 3 projects, the first was the reclamation of 6 sedimentation control ponds located at the East Mine and ROM area (*shown on drawing "2017 Reclamation" as Zone 14*). Reclamation consisted of removing 4 bin-wall dams and 2 earth-fill ponds then re-contouring back to its Approximate Original Contour (*AOC*), Upon completing AOC, the disturbed areas were then reseeded with the approved seed mix (*shown below*) and covered with straw blankets. (*It should be noted that all available top soil was used during the initial reclamation of the Bowie East Mine so no topsoil was available for RY2017 reclamation*).

The second item was the removal of gravel from the access road to Pond 3 and 4. This area can be seen on the attached drawing "2017 Reclamation".

The final item completed was the Phase I release on 25 drill pads. This phase release is described in SL-06 and the list of sites is found on page 4 of this report.

| Zone | Description | Acreage | Top Soiled | Revegetated |
|---------|-----------------|---------|-------------------|-------------|
| Zone 14 | Ponds 1-4 | 2.31 | 0.00 | 2.31 |
| | West Ridge Pond | 0.13 | 0.00 | 0.13 |
| _ | R.O.M. Pond | 0.84 | 0.00 | 0.84 |
| | Totals | 3.28 | 0.00 | 3.28 |

| ot: 26938 | | | |
|--|-------|------------|--------|
| Ind & Variety: | Pure% | Germ | Origin |
| ntelope Bitterbrush | 22.02 | 91 | CO |
| loods Rose | 12.12 | 62 | UT |
| mall Burnett | 11.65 | 86 | WA |
| /inter Fat | 10.44 | 72 | UT |
| icer Milkvetch | 6.34 | 79 | WY |
| kunkbrush | 5.57 | 90 | UT |
| idian Ricegrass | 5.27 | 95 | CO |
| lestern Wheatgrass | 5.17 | 97 | WY |
| lender Wheatgrass | 3.13 | 96 | WA |
| treambank Wheatgrass | 3.10 | 97 | WA |
| hickspike Whealgrass | 3,04 | - 99 | - WA |
| uble - Rabbilbrush | 2.82 | 71 | UT |
| ewis Flax | 2.72 | 92 | WA |
| ocky Mountain Penstemon | 1.24 | 81 | CO |
| rizona Fescue | 1.08 | 93 | WY |
| Crop: 00% Inert: 4.29% Weeds:01 Noxious Weeds: NONE FOUN Remarks: | 0 1 | Fested: 11 | /16 |

| Kind & Variety: | Pure% | Germ | Origin |
|----------------------------------|-------------|-----------|--------------|
| Antelope Bitterbrush | 22.02 | 91 | CO |
| Woods Rose | 12.12 | 62 | UT |
| Small Burnett | 11.65 | 86 | WA |
| Winter Fal | 10.44 | 72 | UT |
| Cicer Milkvetch | 6.34 | 79 | WY |
| Skunkbrush | 5.57 | 90 | UT |
| Indian Ricegrass | 5.27 | 95 | CO |
| Western Wheatgrass | 5.17 | 97 | WY |
| Slender Wheatgrass | 3.13 | 96 | WA |
| Streambank Wheatgrass | 3.10 | 97 | WA |
| Thickspike Wheatgrass | 3.04 | 99 | WA |
| Rubber Rabbitbrush | 2.82 | 71 | UT |
| Lewis Flax | 2.72 | 92 | WA |
| Rocky Mountain Penstemon | 1.24 | 81 | CO |
| Arizona Fescue | 1.08 | 93 | WY |
| Crop: .00% Inert: 4.28% Weeds:01 | % Net Wt: 2 | 9.75#(16. | 10pls#/acre) |
| Noxious Weeds: NONE FOUNI | DT | ested: 11 | 16 |
| Remarks: | Crop | worx | (|

Kind: Cropworx East Mine Perm Mix

| Lot: 26938 Kind & Variety: | Pure% | Darm | Origin |
|---------------------------------|-------|------|--------|
| Antelope Bitterbrush | 22.02 | 91 | CO |
| Woods Rose | 12.12 | 62 | UT |
| Small Burnett | 11.65 | 86 | WA |
| Winter Fat | 10.44 | 72 | UT |
| Cicer Milkvetch | 6.34 | 79 | WY |
| Skunkbrush | 5.57 | 90 | UT |
| Indian Ricegrass | 5.27 | 95 | CO |
| Western Wheatgrass | 5.17 | 97 | WY |
| Slender Wheatgrass | 3.13 | 96 | WA |
| Streambank Wheatgrass | 3.10 | .97 | WA |
| Thickspike Wheatgrass | 3.04 | 99 | WA |
| Rubber Rabbitbrush | 2.82 | 71 | UT |
| Lewis Flax | 2.72 | 92 | WA |
| Rocky Mountain Penstemon | 1.24 | 81 | CO |
| Arizona Fescue | 1.08 | 93 | WY |

Naxious Weeds: NONE FOUND

| | Kind & Variety: | Pure% | Germ | Origin | |
|-----|---------------------------------|-------|------|--------|---|
| | Antelope Bitterbrush | 22.02 | 91 | CO | |
| | Woods Rose | 12.12 | 62 | UT | |
| | Small Burnett | 11.65 | 86 | WA | |
| | Winter Fat | 10.44 | 72 | UT | |
| | Cicer Milkvetch | 6.34 | 79 | WY | • |
| | Skunkbrush | 5.57 | 90 | UT | |
| | Indian Ricegrass | 5.27 | 95 | CO | |
| | Western Wheatgrass | 5.17 | 97 | WY | |
| | Slender Wheatgrass | 3.13 | 96 | WA | |
| | Streambank Wheatgrass | 3.10 | 97 | WA | |
| | Thickspike Wheatgrass | 3.04 | 99 | WA | |
| ĩ | Rubber Rabbitbrush | 2.82 | 71 | UT | |
| ; | Lewis Flax | 2.72 | 92 | WA | |
| | Rocky Mountain Penstemon | 1.24 | 81 | CO | |
| are | Arizona Fescue | 1.08 | 93 | WY. | |

Kind: Cropworx East Mine Perm Mix

Lot: 26938 Kind & Variety:

Croj: 00% Inent: 4.28% Weeds: ..01% Net W1: 29.75#(16:10pk#/acre) Nations Weeds: NONE FOUND Tested: 11/16

Remarks: Cropworx

Lot: 26938

Arkansas Valley Seed 4300 Monaco St. Denver, CO 80216

Remarks: Cropworx Arkansas Valley Seed 4300 Monaco St. Denver, CO 80216

Tested: 11/16

Arkansas Valley Seed 4300 Monaco St. Denver, CO 80216



SL-06_Exhib.

| | | Secled Status | A STATE OF A | | | | | 11 . I | | 1995 1994 | ······································ | Senic-1) 272 | Same 1078 | | | Saded 1982 | Sec. 1030 | Stoled 1085 | Sector 1983 | Secled 1782 | Seciso : 982 | Secied 2982 | Seclard 1960 | | | | | | |
|------------------|-----------------------------------|---------------|---|------------------|----------------|------------|----------------|-----------|-----------|-----------|--|---------------|-----------|------------|------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-----------|----------|-----------|-----------|----------|------|
| | | Command | Detroyed | Destroyed 6/2002 | Distroyed 2008 | Blocked | Destroyed 20:2 | Reclaimed | Reclaimed | Reclaimed | Reclaimed | Reclaimed | Reclaimed | Reclaimed | Reclaimed | Seplec 1982 | Scalad 1982 | Sealed 1982 | Saciac 1982 | Sealed 1982 | Scaled 1982 | Sealed 1982 | Saalad 1982 | Reciaimed | Recalmed | Racialmen | Recialmed | Redaimes | |
| | | Depth | 761 | 40.8 | 36.5 | 66 | 54.9 | | 1.301 | | | 740 | 14401 | 1200 | 1935 | 2073-5 | 2035 | 11.65.5 | 1401.5 | 1580 | 1/62 | 1528 | 925 | 3631 | 523 | 3601 | | | |
| Bowie No. 1 Mino | Drill Hole List and Status | Date Drilled | 12/12/1986 | 10/22/1981 | 10/22/1981 | 10/19/1931 | 10/23/1931 | | 1 | | | 10/12/1977 | 8/17/1977 | 11/28/1978 | 11/28/1978 | 10/27/1981 | 1861/81/11 | 1861/21/11 | 1861 | 1982 | 1982 | 1982 | 1982 | 9061 | 1986 | 9961 | 2008 | 30.08 | |
| Bow | Drill Ho | Range | 92W | 93.W | 92W | 72W | 92W | 92W | 92W | 92W | 92W | 92W | WZ6 | 72W | 92W | 92W | 92W | 92W | 92W | MZ6 | 92W | MC6 | 92W | 92W | 02W | 1 M26 | MZ6 | 92W | |
| | | Township | 135 | 135 | 135 | 135 | 135 | 135 | :35 | 133 | 8 | SS. | 35 | 33 | 135 | 135 | 1 3S | 135 | 135 | 135 | 135 | 135 | 138 | 135 | 135 | 135 | 135 | 135 | |
| | | Section | SN. | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 13 | 53 | 10 | 13 | 1 | 0 | 15 | ···· · | 11 | EL . | 15 | 15 | 33 | сч г | 23 | ч Ч | 24 | |
| | | Hole Number | NO. | B-1 | 6-2 | B-3 | B.4 | DIF37 | DH-38 | DH-39 | DH-40 | DI 1-41 | C)-HC | FIA-HQ | DH-45 | DH-54 | 11-55 | 5 | J92-HC | 19-HO | 14-2-140 | | 129-H0 | DI-87 | 04H0 | DH-91 | BV+1 | ł | |
| | F | Map Code | | | 2 Name | σ | * | 2 | 9 | | 8 | 0 | 10 | 11 | 12 | EL | 14 | 51 | 16 | 17 | 84 | £ | 22 22 | 2. | 22 | 23 | A Crimer | | 1.11 |

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- 2016: Reclamation Activities: Except for ongoing maintenance, there was no reportable reclamation activities during this reporting period.
- 2015: Reclamation Activities: Except for ongoing maintenance, there was no reportable reclamation activities during this reporting period.
- Reclamation Activities: Except for ongoing maintenance, there was no reportable reclamation 2014 activities during this reporting period.
- Reclamation Activities: Except for minor repair to ditch, #7 there was no reclamation activities during 2013 this reporting period.
- Reclamation Activities: Except for minor repair to ditch, #7 there was no reclamation activities during 2012 this reporting period.
- Reclamation Activities: Reclamation activities for the reporting year 2011 consisted of additional 2011 hydro seeding of the Bowie No. 1 East Mine. Hydro seeding consisted of an approved permanent seed mix @ 32.2 PLS lbs. /acre, mulched with wood fiber mulch at a rate of 1,500 lbs. /acre and a tackifier (Star-tac 100) @ 90 lbs. /acre. The following areas were reseeded. (See 2011 Reclamation Map)

| Zones | | | Descript | tion | Acreage | Top Soiled | Revegeta | ted |
|--|---|--|---|---|--|--|--|--|
| Zone 1 (1-C, D) | | Al | bove Porta | al Bench | 0.00 | 0.00 | | 3.37 |
| Zone 2 (4-C, 2-D, 2-H | E) | Po | ortal/Offic | e Bench | 0.00 | 0.00 | | 5.17 |
| Zone 3 (2-D) | | Su | ubstation | | 0.00 | 0.00 | | 1.40 |
| Zone 4 (1-E) | | Be | elt Transfe | er | 0.00 | 0.00 | | 0.48 |
| Zone 5 (2-A) | | | ock Cut | | 0.00 | 0.00 | | 0.47 |
| Zone 6 (2-A) | | | arehouse/ | Shon | 0.00 | 0.00 | | 1.93 |
| Zone 7 (1-B) | | | re Shop A | · | 0.00 | 0.00 | | 0.47 |
| Zone 8 | | | ccess Roa | | 0.00 | 0.00 | | |
| Zone 9 | | | ccess Roa | | | | | 0.92 |
| | | | | 501 | 0.00 | 0.00 | | 1.06 |
| Zone 10 (5) | | | est Ridge | | 0.00 | 0.00 | | 0.45 |
| Zone 11 (5) | | | op Soil Pil | | 0.00 | 0.00 | | 0.28 |
| Zone 12 (5) | | | ccess Roa | | 0.00 | 0.00 | | 0.33 |
| Zone 13 | | Ac | ccess Roa | d | 0.00 | 0.00 | | 0.78 |
| | Fotals | | | | | 17.11 | | |
| | | | | | | | | |
| From: Granite Seed | | | 124 | From: Granite Seed | ł | | | 2 of 11 |
| 1697-W 2100 N | | | | 1697 W 2100 |) N | | | |
| Lehi, UT 84043 | | | | Lehi, UT 840 | 43 |) | | |
| Mix Name: Old Bowie Mine #1 | | | 206817 | Mix Name: Co | py of Old Bowi | e Mine #1 | 1 | 207139 |
| 101 IL 00000 | | | | | | | | |
| Mix # 88803 | | Old Bowie | Mine #1 | Mix # 88962 | | (| Old Bowie M | line #1 |
| | | Old Bowie | | | | | Old Bowie N | line #1 |
| % Pure Common Name | Variety | G+DarH | Origin | % Pure Common Name | | Variety | G+D or H | Orligin |
| % Pure Common Name 2039 ANTELOPE BITTERBRUSH | VNS | G + D or H 91 - TZ | Origin CA | % Pure Common Name | rush | Variety VNS | G + D or H 91 - TZ | Origin CA |
| % Pure Common Name 2038 ANTELOPE BITTERBRUSH 14.74 WINTERFAT | VNS ANV | G + D or H 91 - TZ 47 - TZ | Origin CA NM | 19.10 ANTELOPE BITTERS | 205H | Variety VNS VNS | G + D or H 91 - TZ 45 - TZ | Origin CA UT |
| % Pure Common Name 2039 ANTELOPE BITTERBRUSH | VNS | G + D ar H 91 -TZ 47 -TZ 98 -TZ | Origin CA NM DR | % Pure CommonName 19.10 ANTELOPE BITTERS 1449 WINTERFAT 8.87 SMALL BURNET | | Variety VNS VNS Delar | G + D or H 91 -TZ 45 -TZ 99 -TZ | Origin CA |
| % Purs Common Name 2030 ANTELOPE BITTERBRUSH 14.74 WINTERFAT 943 SMALLBURNET | VNS VNS . Dalar | G + D or H 91 - TZ 47 - TZ | Origin CA NM | 19.10 ANTELOPE BITTERS | 455 | Variety VNS VNS Delar San Luis | G + D or H 91 -TZ 45 -TZ 99 -TZ 32 -TZ | Origia CA UT VY |
| % Purs Common Name 2030 [ANTELOPE BITTERBRUSH 14.74 WINTERFAT 943 SMALL BURNET 943 FOURWING SALTBUSH | VNS VNB Datar VNS | G + D ar H 91 -TZ 47 -TZ 99 -TZ 49 + 0 -TZ | Origin CA NM DR UT | % Pure Common Name 19.10 ANTELOPE BITTERG 1448 WINTERFAT 8.97 SMALL BURNET 8.16 SLENDER WHEATGR | 455 | Variety VNS VNS Delar | 9 + D or H 91 - TZ 45 - TZ 99 - TZ 32 - TZ 64 - TZ | Origin CA UT |
| % Pure Common Name 2030 ANTELOPE BITTERBRUSH 14.74 (WINTERFAT 943 SMALLBURNET 943 FOURWING SALTBUSH 9.12 SKUNKBUSH SUMAC 4.31 U/DEn m(3) | VNS VNS Dalar VNS VNS | G + D or H 91 - TZ 47 - TZ 98 - TZ 49 + 0 - TZ 76 - TZ | Origin CA NM OR UT UT | % Pure Common Name 19.10 ANTELOPE BITTERBI 1448 WINTERPAT 887 SMALL BURNEY 8.15 SLENDER WHEATGR 8.05 FOURWING SALTBUS | 455 | Variety VNS VNS Delar San Luis VNS | G + D or H 91 - TZ 45 - TZ 99 - TZ 32 - TZ 64 - TZ 96 - 7Z | Origin CA UT WT |
| % Pure Common Name 20.30 ANTELOPE BITTERBRUSH 14.74 WINTERFAT 943 SMALLBURNET 943 FOURWING SALTBUSH 9.12 SMINKBUSH SUMAC 431 UD2En m.22 | VNS VNS Detar VNS VNS Utana Ainba Paloma | G + D or H 91 -TZ 47 -TZ 99 - TZ 99 + D -TZ 76 -TZ 94 -TZ 94 -TZ 96 + D -TZ | Origin CA NM DR UT UT MT WA CO | % Pure Common Name 19.10 ANTELOPE BITTERGI 14.49 WINTERFAT 8.97 SMALL BURNET 8.16 SLENDER WHEATGR 8.05 FOURWING SALTBURG 8.05 FOURWING SALTBURG 8.05 CICER MILAVETCH 4.52 CICER MILAVETCH 4.51 INDIAN RICEGRASS | ASS H | Variety VNS VNS Delar San Luis VNS VNS | G + D or H 91 - TZ 45 - TZ 99 - TZ 32 - TZ 64 - TZ 96 - 7Z 94 - TZ | Origin CA UT VT AZ JT |
| % Pure Common Name 20.00 ANTELOPE BITTERBRUSH 14.74 WINTERFAT 943 SMALLBURNET 943 FOURWING SALTBUSH 9.12 SKUNKSUBH SUMACO 431 MOZEN "R30… "JII 431 WESTERN WHEATGRASS 436 WDIAN RICEGRASS 298 STREAMBANK WHEATGRASS | VNS VNS Delar VNS VNS VNS VNS Amba Paloma Sodar | G + D or H 91 -TZ 47 -TZ 98 -TZ 49 + D -TZ 76 -TZ 94 -TZ 94 -TZ 94 -TZ 93 -TZ | Origin CA NM OR UT UT WL CO WA | % Pura Common Name 19.10 ANTELOPE BITTERBI 14.49 WINTERPAT 8.97 SMALL BURNET 8.16 SLENDER WHEATGR 8.05 FOURWING SALTBUS 6.85 SKUNKBUSH SUMAC 4.82 CICERM MULVETCH 4.51 INDIAN RICEGRAVIS 4.54 WESTERN WHEATGR | ASS H ASS | Variety VNS VNS Delar Ban Luis VNS VNS Lutana Cutana Atnea | G + Dor H 91-TZ 45-TZ 99-TZ 96-TZ 96-TZ 95-0-TZ 97-Xr- 97-Xr- | Origin CA UT WT AZ JT AT |
| % Pure Common Name 20.00 ANTELOPE BITTERBRUSH 14.74 WINTERFAT 943 SMALLBURNET 943 SMALLBURNET 944 SKUNKBUSH SUMAC 431 BUDSch IIISCH | VVIS VVIS Delar VVIS VVIS VVIS VVIS VVIS VVIS VVIS VVI | G + D or H 91-TZ 47 -TZ 99-TZ 49 + 0 -TZ 76 -TZ 94 -TZ 94 -TZ 93 -TZ 97 -TZ | Origin CA NM OR UT UT UT WA CO WA | Y Pura Common Name ISIO ANTELOPE BITTERBI IA48 WINTERPAT B7 SMALL BURNET B.16 SLENDER WHEATGR B05 FOURWING SALTBUS E.85 GIKUNKBUSH SUMAC 452 (CICER MILVYETC* 451 (INDIAN RICEGRAVS 449 WESTERN WHEATGR 287 THICKSPIKE WHEATG | ASS H ASS ASS | Variety VNS VNS Delar Ban Luis VNS VNS Lutana Cutana Atnea | G + D or H 91 - TZ 45 - TZ 99 - TZ 32 - TZ 64 - TZ 94 - TZ 95 + 0 - TZ | Origin CA UT WT AZ UT AT CO |
| % Pure Common Name 2030 ANTELOPE BITTERBRUSH 14.74 WINTERFAT 943 SMALL BURNET 943 SMALL BURNET 943 SKUNKEUEN SUMAC 431 MOTER INTERFALL 431 MESTERN WHEATGRASS 435 INDIAN REGRASS 298 STREAMBANK WHEATGRASS 298 STREAMBANK WHEATGRASS 298 SLENDER WINJATGRASS | VVIS VVIS Detar VVIS VVIS VVIS VVIS VVIS VVIS VVIS VVI | G + D or H 91-TZ 47-TZ 49 + 0-TZ 76-TZ 94 - TZ 94 - TZ 94 - TZ 93 - TZ 97-TZ 97 + 0 - TZ | Origin CA NM DR UT UT UT WL CO WA WA | Y Pura Common Name Isio ANTELOPE BITTERGI ANA SALLOPE BITTERGI ANA SALLOPE BITTERGI SALL BURNET SALLBURNET SALL BURNET SALL SA | ASS H ASS ASS | Variety VNS Delar Ban Luis VNS VNS Lutana F.stomp Arnea Critana Sodar | Q + D or H 91 - TZ 45 - TZ 99 - TZ 92 - TZ 94 - TZ 94 - TZ 95 + 0 - TZ 97 - ^- 91 + 0 99 - TZ 94 - TZ 99 - TZ 90 - T | Origin CA UT WT AZ UT AT CO |
| % Pure Common Name 2030 ANTELOPE BITTERBRUSH 14.74 WINTERFAT 943 SMALL BURNET 943 FOURWING SALTBUSH 5.12 SKUNKBUSH SUMAC 431 UDSEA INTELOPE 432 UDSEA INTELOPE 433 VESTERN WHEATGRASS 236 THECKSPIKE WHEATGRASS 236 LENDER WHEATGRASS 236 LEWIS BLUE FLAX | VNS VNS Datar VNS VNS VNS Antba Paloma Sodar Critana San Lvis Appar | G + D or H 91-TZ 47-TZ 99 + 0-TZ 76-TZ 94 - TZ 94 - TZ 93-TZ 97-TZ 97-TZ 97-TZ 97-TZ 97-TZ 97-TZ | Origin CA NM DR UT UT UT WA WA WA | % Pure Common Name 19.10 ANTELOPE BITTER66 14.44 WINTERPAT 987 SMALL BURNET 9.15 SLENDER WHEATGR 8.16 SLENDER WHEATGR 8.16 SLENDER WHEATGR 8.17 SLENDER WHEATGR 8.18 SLENDER WHEATGR 4.21 CICER MILVETCH 4.51 INDIAN RICEORNES 4.52 WESTERN WHEATGR 2.63 STREAMBANK WHEATGR 2.63 STREAMBANK WHEATGR 2.64 LEWIS BLUE FLAX | ASS H ASS RASS GRASS | Variety VNS Delar Ban Luis VNS VNS Lutana Citerna Criterna Sodar Appar | Q + D or H 91-TZ 45-TZ 99-TZ 92-TZ 94-TZ 94-TZ 95-0-TZ 97-X- 91+0 99-TZ 93-TZ 93-TZ | Origin CA UT WT AZ UT AT CO VA |
| ½ Pure Common Name 2030 ANTELOPE BITTERBRUSH 14.74 WINTERFAT 943 SMALL BURNET 943 FOURWING SALTBUSH 9.12 SKINIKBUSH SUMAC 131 UDEA INDOLUUH 91 WESTERN WHEATGRASS 45 WOINN RICEGRASS 286 STREAMBANK WHEATGRASS 286 SLENDER WILATGRASS 286 LENDER WIG AUGRASS 286 LENDER WIG AUGRASS 286 LENDER WIG BUL FLAX 190 RUBBER RABBITBRUSH | VNS VNS Delar VNS VNS VNS Haloma Solar Critana San Luis Appar VNS | G + D or H 91-TZ 47-TZ 49-TZ 49+0-TZ 76-TZ 94-TZ 95+0-TZ 97-TZ 97-TZ 97-TZ 97-TZ 97+0-TZ 97+0-TZ | Origin CA NM DR UT UT WA WA WA WA VVA VT | % Pure Common Name 19.0 ANTELOPE BITTERGI 14.4 WINTERPAT 8.97 SMALL BURNET 8.16 SLENDER WHEATGR 8.15 SLENDER WHEATGR 8.05 FOURWING SALTBUS 5.85 SKUNKBUSH SUMAC 4.52 CICER MILVYETCH 4.51 MODIAN RICEGRAVIS 4.49 WESTERN WHEATGR 2.81 THICKSPIKE WHEATGR 2.83 STREAMBANK WHEAT 2.82 LEWIS BLIE FLAX 1.89 RUBBER RABBITBRUS | ASS H ASS RASS GRASS | Variety VNS Dalar San Luis VNS VNS Lutana Cutana Chizaa Sodar Appa- VNS | Q + D or H 91 - TZ 45 - TZ 99 - TZ 92 - TZ 96 - TZ 96 - TZ 96 - TZ 97 91 + 0 99 - TZ 93 - TZ 93 - TZ 93 - TZ 92 - TZ 92 - TZ 92 - TZ 93 - TZ 94 - TZ 95 - 10 - TZ 95 - | Origia CCA UT VIT VIT VIT VIT VIT VIT VIT VIT VIT VI |
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During the reporting year 2009, Bowie completed final grading of the Bowie #1 East Mine *(excluding required sediment control structures)*. The 2009 reclamation activities, which was a continuation of the 2008 activities, included the final grading and hydro seeding with an approved permanent seed mix and mulched with wood fiber mulch at a rate of 2,000 lbs/acre of the following areas. *(See "2009 Reclamation Map")*

| Zones | Description | Acreage | Top soiled | Revegetated |
|----------|------------------------|---------|------------|-------------|
| Zone 4-C | Portal Bench | 5.17 | 2.89 | No |
| Zone 2-E | Substation/Access Road | 0.18 | 0.18 | No |
| Zone 2-D | Access Road | 0.15 | 0.00 | No |
| Zone 1-E | Belt Transfer | 0.07 | 0.07 | No |
| Zone 2-A | Shop/Warehouse | 1.63 | 1.63 | No |
| Zone 4-B | Storage Bench | 1.17 | 1.17 | 1.17 |
| Zone 2-C | Access Road | 0.44 | 0.00 | No |
| | Total | 8.81 | 5.94 | 1.17 |





During the reporting year 2008, Bowie Resources LLC continued with the partial reclamation of the Bowie No. 1 East Mine. (*The 2008 reclamation is a continuation of the 2001 activities in which surface structures were removed.*) The 2008 reclamation consisted of returning portions of the disturbed area back to approximate original contours and hydro seeding with a permanent seed mix and wood fiber mulch. The following zones were completed during the 2008 reporting period. (<u>Reference attached Drawings "Reclamation Zones East Mines and "ROM Coal Stockpile Area"</u>)

| Zones | Description | Acreage | Top soiled | Revegetated |
|----------|-------------------------------------|---------|-------------------|--------------|
| Zone 1-A | Crushing & Screening Level Fill | Yes | Yes | 2.64 |
| Zone 1-B | Shop & Warehouse Level Fill | Yes | Yes | 3.08 |
| Zone1-D | Substation Level Fill | Yes | Yes | 0.36 |
| Zone 2-B | Portal Level Fill | No | No | |
| Zone 3-A | Diversion Channel Cut | Yes | Yes | |
| Zone 3-B | Diversion Channel Cut | Yes | Yes | |
| Zone 3-C | Diversion Channel Cut | Yes | Yes | 5.48 (Total) |
| Zone 4-A | Rock Cut above Crushing & Screening | Yes | Yes | 2.64 |
| Zone 4-D | Rock Cut below Fan Level | No | Yes | 3.50 |
| Zone 5-A | Waste Rock Disposal Site | Yes | No | 0.82 |
| Zone 6-A | R.O.M. Coal Stockpile & Access Road | Yes | Yes | 11.16 |
| Totals | | | | 29.82 |





There were no reclamation activities during this reporting period.

2006 Reclamation Activities:

Bowie Resources LLC began partial reclamation of the Bowie No. 1 Mine Loadout facilities. The partial reclamation project consisted of demolition of the following structures:

Three (3) Concrete Silo's Truck Loadout Truck Dump MCC Building Dust Collection System Truck Dump to Silo Belt Structure Silo to Loadout Belt Structure Silo MCC Building Train Loadout Facilities Train Loadout MCC Building Approximately 1,200 feet of railroad track





During the reporting year of 2005, Bowie Resources continued with the reclamation of the Bowie #1 West Mine Ventilation shaft site. Reclamation consisted of distributing and grading of topsoil back to its approximate original contour over shaft site. Upon completion of the grading, the entire area was re-seeded with the approved permanent seed mix and covered with straw mats.

There were also drill hole sites on the Bowie #1 permit area that were reclaimed in 2005.

| Zones | Description | Acreage | Top soiled | Revegetated | |
|---|--|---------|------------|--|---------|
| 1 | West Mine Fan Shaft/Drill Hole Sites | | Yes | Yes | |
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2004 Reclamation Activities:

There were no reclamation activities during this reporting period.

2003 Reclamation Activities:

During the reporting period of 2003, Bowie Resources completed sealing the Bowie 1 West Mine ventilation shaft. A 12-inch concrete cap with steel reinforcement, extending 2 feet beyond the shaft liner was completed in September of this year. This included one 4-inch vent pipe as required and backfilling. The following photographs are of the shaft-sealing project.





For the reporting year 2002, Bowie Resources, Ltd., continued with the reclamation of the Bowie No. 1 West Mine Site. Reclamation consisted of distributing and grading of nearly 49,000 yrd³ of subsoil and topsoil back to its approximate original contour. Two new sedimentation control ponds have been established near the bottom of the reclaimed area. Upon completion of the grading, the entire area was hydro-seeded with the approved permanent seed mix and using cellulose mulch at a rate of 1,500 pounds per acre and a tackifier at 100 pounds per acre. In conjunction with the hydro seeding, a fertilizer was applied at a rate that applied at least 30 pounds per acre of nitrogen and 60 pounds of phosphorus.



During this reporting period the ventilation shaft located at the Bowie No. 1 West Mine was re-filled due to settling. Approximately 2,500 yrd³ was placed into the shaft. As required by the Mine Safety and Health Administration, CFR 30 Part 75.1711-1 beginning from the bottom of the coal seam and extending upward for a distance of 150 feet, the shaft was filled with non-combustible material. The remaining portion of the shaft was filled with other available material.

Reclamation of the East Mine consisted of completing the demolition of permanent structures located on the Old Fan Level, Office/Bathhouse Level, and crushing and screening level.

| Zones | Description | Acreage | Top soiled | Revegetated |
|-------|-------------|---------|------------|-------------|
| | West Mine | 13.10 | Yes | Yes |

During the year 2001, the Bowie No. 1 West Mine continued to be reclaimed. At the end of the 2001 reporting year, Bowie Resources Ltd. had completed approximately 80 percent of the backfilling. Topsoil located on the fill outslopes was moved to a temporary storage location during the backfilling process. The West Mine Ventilation Shaft was filled during this same period.





The Bowie East Mine reclamation during 2001 consisted of demolition and removal of permanent structures. The following structures were removed; bathhouse/office, storage tanks, MCC buildings, fire house, belt structures, transfer towers, shop/warehouse, tire shop, loading bin, fire house, belt structure, the majority of the 2,000-ton bin, guard shack, sewage treatment plant, crushing and screening plant, truck loadout, and stacking tube.





In November 2000, Bowie Resources began partial reclamation of the Bowie No. 1 East and West Mines. A description of what was completed during this reporting period is as follows:

<u>West Mine-</u> Reclamation of the West Mine consisted of sealing three portals and backfilling with 25 feet of non-combustible material. Sealing ventilation shaft with 50 feet of non-combustible material and removing all structures from the portal area. Partially removing some structures from the fan site and begin restoring portal area back to approximate original contours.

East Mine - Reclamation of the East Mine consisted of removing some steel structures. During this reporting period, only the steel shelter for the fuel station located on the office bench and the lump bin located on crushing and screening level were completely demolished. Demolition of transfer station #2, and crushing and screening facility was started but not completed during this reporting period.

1999 Reclamation Activities:

No reclamation activities were undertaken at the Bowie No. 1 Mine during the 1999 calendar year. The mine is currently idle due to economic reasons. Reclamation options are under consideration.

1998 Reclamation Activities:

No reclamation activities were undertaken at the Bowie No. 1 Mine during the 1998 calendar year. The mine is currently idle due to economic reasons. Reclamation options are under consideration.

1997 Reclamation Activities:

No reclamation activities were undertaken at the Bowie No. 1 Mine during the 1997 calendar year. The mine is currently idle due to economic reasons. Reclamation options are under consideration.

1996 Reclamation Activities:

Reclamation in 1996 consisted of seeding and mulching a small area on the West Ridge Refuse Pile. Area seeded was 0.1 acres. The mine is currently idle due to economic reasons. Reclamation options are under consideration.

1995 Reclamation Activities:

No additional acreage was newly disturbed by mining or construction activity during the 1995 calendar year. Reclamation activities conducted included seeding and mulching operations on the outslopes of the west ridge waste pile. (See locatoins37, exhibit 8). This area was seeded during the month of December using permanent seed mix (mix no. 5 less shrub species). Also reseeded during this period was a small area around the fan area using a temporary seed mix, (see table 6 for seed mix). This area was also seeded during the month of December.

No additional acreage was newly disturbed by mining or construction activity during the 1994 calendar year. Reclamation activities conducted included seeding and mulching operations on the outslopes of the West Ridge waste pile. (See location 32 on exhibit 7). This area was reseeded on November 17, 1994 with a permanent grass mix (mix no. 5 less shrub species). In addition, the Gross-Rhode stock trail at the Orchard Valley West mine was seeded with the temporary seed mix (see table #6 for seed mix) immediately following construction on May 4 and 5, 1994.

1993 Reclamation Activities:

No additional acreage was newly disturbed by mining or construction activity during the 1993 calendar year. Reclamation activities conducted included seeding and mulching operations on the outslopes of the west ridge waste pile. (See location 32 on exhibit 7). Topsoil and subsoil piles in the vicinity of the West Ridge waste pile which were disturbed because of pile reconstruction activities were seeded with the temporary seed mix (seed mixture #6 (during the fall of 1993.

At the close of 1993 reclamation activities on the West Ridge waste pile, the total reclaimed acreage on this site was approximately 2.85 acres. Of this total acreage, 0.83 acres was newly revegetated in 1993.

Approximately 0.12 acres of additional disturbance occurred in association with a landslide at the west mine portal cut during 1993. Topsoil was salvaged from an area surrounding the slide crest and stockpiled near this location (refer to Exhibit 8 in this report and Map No. 8-6, Permit No. C-81-038). Disturbed areas associated with this slide and the subsequent stabilization work were seeded with the temporary seed mix (seed mixture #6) mulched. Table 7 of this report depicts reclaimed acreages throughout the mine site has been revised to reflect 1993 activities.

1992 Reclamation Activities:

No additional acreage was newly disturbed by mining or construction activity during the 1992 calendar year. Reclamation activities conducted included seeding and mulching operations on the outslopes of the west ridge waste pile. (See location 32 on exhibit 7). Topsoil and subsoil piles in the vicinity of the West Ridge waste pile which were disturbed because of pile reconstruction activities were seeded with the temporary seed mix (seed mixture #6 (during the fall of 1992.

At the closed of 1992 reclamation activities on the West Ridge pile, the total reclaimed acreage on this site was approximately 2.02 acres. A total of 0.63 acres was newly revegetated in 1992 with the remainder having been seeded in 1983. At the close of 1983 reclamation activities on the West Ridge waste pile, the total reclaimed acreage on this site was approximately 2.20 acres. During gob salvage and sale operations, occurring in the first and second quarters of 1992, approximately 0.81 acres of seeded topsoil and subsoil was stripped from the pile to allow access to the gob. Table 7 of this report depicting reclaimed acreages throughout the mine site has been revised to reflect this sequence of events.

No additional acreage was newly disturbed by mining or construction activity during the 1991 calendar year. Reclamation activities conducted were primarily confined to interim stabilization seeding and mulching operations on topsoil piles and subsoil piles in the vicinity of the West Ridge waste pile (See exhibit 7). Soil storage piles in this area saw additions of materials due to the topsoil and subsoil stripping operations required to access gob for sale and shipment. Topsoil piles were seeded with temporary seed mix (see mixture #6) and mulched. Subsoil piles were only seeded and were left in a roughened condition to prevent erosion.

One additional pile located at the parking lot area (See Exhibit 6) and consisting of windrowed subsoil material isolated for future reclamation purposes was seeded with temporary seed mix in response to NOV 91-004.

1990 Reclamation Activities:

No additional acreage was newly disturbed by mining or construction activities during the 1990 calendar year. Small acreages on both the east and west ridge waste disposal areas were re-disturbed to accommodate repairs to the West Ridge waste pile.

This report will serve as the baseline reference document for all future reclamation reports. The report summarizes available information concerning the current reclamation status and reclamation history of both the Orchard Valley and Orchard Valley West mine sites.

Reclamation History

An extensive reclamation project was initiated in the fall of 1977 to address the Orchard Valley upper mine area, middle mine area, mine roads, and the new country road alignment near the existing coal stockpile. The reader is referred to the following document for a complete discussion of the details of this program: <u>"Final</u> <u>Report, Reclamation, Colorado Westmoreland, Inc., Orchard Valley Mine, Paonia, Colorado, January 1978, by</u> <u>Thorne Ecological Institute</u>, and <u>"History of Revegetation, Orchard Valley Mine, 1977-1982, April, 1983, <u>Prepared for CWI, Orchard Valley Mine, Paonia, Colorado, by Harner and Associates."</u></u>

Revegetation of cut and fill slopes was accomplished in 1978 on previously seeded but sparsely vegetated and eroded slopes stemming from excessive water runoff caused by the lack of an effective water diversion system.

In 1979, a diversion channel and four sedimentation ponds were constructed to divert water away from the main mine facilities. Access roads to the sedimentation ponds and parking lot were also constructed. The Revegetation program of 1979 addressed disturbed areas associated with these facilities and encompassed approximately 12 acres of reclamation.

Reclamation activities in 1980 focused on revegetating lands disturbed through minor construction activities conducted in 1979. The areas addressed in 1980 included the Orchard Valley Mine water pipeline, exploration drill pads, and miscellaneous roadways. The majority of the acreage reclaimed in 1980, approximately 3.5 acres, was associated with reclamation of the water line.

The 1981 revegetation program encompassed minor disturbances consisting of miscellaneous roadways, Steven's Gulch well field structures, and the scale house and truck scales near the truck dump station.

Construction of the West Ridge waste disposal area was initiated in July 1983. Lands available for reclamation at this site have been seeded and mulched on an approximately annual base since development began. The West Ridge waste disposal site encompasses approximately 3.37 acres. Approximately 2.20 acres of this site are currently reclaimed. Reclamation of the old waste disposal site near ponds 1 and 2 was completed in November of 1983. Vegetation was established on this 0.86-acre site the following spring. Development of the East Ridge waste disposal site was initiated in 1983 in conjunction with development of the West Ridge site. The East Ridge saw topsoil salvaged and an intermediate material stockpile established to accommodate material being generated from the West Ridge development.

Reclamation of the Orchard Valley West Mine fill slopes and associated disturbance was completed by the fall of 1987. Slope instability necessitated the relocation of topsoil at the mine site and subsequent reseeding and mulching of both the new pile and the old pile footprint was competed in the fall of 1990.

Several small topsoil piles exist throughout the various disturbance areas on the mine. Those piles project to remain undisturbed for longer than five years are seeded with the permanent seed mixture. Those piles projected to be redistributed within five years were seeded with the temporary seed mixture.









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Exhibit ² 1977 Revegetation Program Test Plot Locations 9 through 16 along Access Road to Main Mine Facilities.

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Exhibit 3 1977 Revegetation Program Test Plot Locations 17 through 20 at Coal Storage and Loadout Area.

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Exhibit 4 1978 Revegetation Program Sparsely Vegetated and Washout Areas within the Test Plots Access Road to Main Mine Facilities (Part 1).



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Exhibit 5 1978 Revegetation Program Sparsely Vegetated and Washout Areas within the Test Plots - Access Road to Main Mine Facilities (Part 2).

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| Date of Planting 1977 1977 1977 1977 1977 | Location 1 3 | Area (acre) 1.05 | Topsoiled 1.05 | Acres Seeded 1.05 | Mixture | Date of Planting | Location | Area (acre) | Topsoiled | Acres Seeded | Mixture |
|---|--------------------|---------------------|-------------------|-------------------------|---------|---------------------|-------------------------|-------------|--|--|----------|
| 1977 1977 1977 1977 1977 1977 | 1 3 | 1.05 | | | 1 | T | | 1 | Topsoiled | | Mixture |
| 1977 1977 1977 1977 1977 | 3 | | 1.05 | 1 05 | | | | | | | |
| 1977 1977 1977 | | | | | 1 | 2001 | na | 0.00 | 0.00 | 0.00 | <u> </u> |
| 1977 1977 | | 0.21 | 0.21 | 0.21 | 1 | 2002 | West Mine | 16.70 | 13.80 | 13.80 | 7 |
| 1977 | 8 | 0.39 | 0.39 | 0.39 | 1 | 2003 | na | 0.00 | 0.00 | 0.00 | |
| | 11 | 0.90 | 0.90 | 0.90 | 1 | 2004 | na | 0.00 | 0.00 | 0.00 | |
| | 12 | 1.00 | 1.00 | 1.00 | 1 | 2005 | Vent Shaft/Drill Holes | 0.45 | 0.45 | 0.45 | 7 |
| 1977 | 13 | 0.20 | 0.20 | 0.20 | 1 | 2006 | na | 0.00 | 0.00 | 0.00 | |
| 1977 | 14 | 1.00 | 1.00 | 1.00 | 1 | 2007 | na | 0.00 | 0.00 | 0.00 | |
| 1977 | 16 | 1.10 | 1.10 | 1.10 | 1 | 2008 | 1-A | 2.64 | 2.64 | 2.64 | 8 |
| 1977 | 17 | 0.20 | 0.20 | 0.20 | 1 | 2008 | 1-B | 3.08 | 3.08 | 3.08 | 8 |
| 1977 | 18 | 0.30 | 0.30 | 0.30 | 1 | 2008 | 1-C | 3.24 | 0.00 | 3.24 | 8 |
| 1977 | 19 | 0.30 | 0.30 | 0.30 | 1 | 2008 | 1-D | 0.36 | 0.36 | 0.36 | 8 |
| 1977 | 20 | 0.30 | | | | | | | | | - ° |
| | | 1 | 0.30 | 0.30 | 1 | 2008 | 2-B | 0.14 | 0.00 | 0.00 | |
| 1977 | 21 | 0.88 | 0.88 | 0.88 | 1 | 2008 | 3-A,B,C | 6.44 | 6.44 | 6.44 | 8 |
| 1977 | 22 | 1.22 | 1.22 | 1.22 | 1 | 2008 | 4-A | 2.64 | 2.64 | 2.64 | 8 |
| 1977 | 26 | 1.25 | 1.25 | 1.25 | 1 | 2008 | 4-D | 3.50 | 3.50 | 3.50 | 8 |
| 1977 | 27 | 0.50 | 0.50 | 0.50 | 1 | 2008 | 5-A | 0.82 | 0.82 | 0.00 | |
| 1977 | 28 | 0.75 | 0.75 | 0.75 | 1 | 2008 | 6-A | 11.16 | 11.16 | 11.16 | 8 |
| 1977 | 29 | 0.75 | 0.75 | 0.75 | 1 | 2009 | 1-E | 0.07 | 0.07 | 0.00 | |
| 1977 | 30a | 0.35 | 0.35 | 0.35 | 1 | 2009 | 2-A | 1.98 | 0.92 | 0.00 | |
| 1978 | 2 | 1.23 | 1.23 | 1.23 | 2 | 2009 | 2-C | 0.44 | 0.00 | 0.00 | |
| 1978 | 4 | 0.42 | 0.42 | 0.42 | 2 | 2009 | 2-D | 0.15 | 0.00 | 0.00 | |
| 1978 | 5 | 0.30 | 0.30 | 0.30 | 2 | 2009 | 2-E | 0.18 | 0.18 | 0.00 | |
| 1978 | 6 | 1.00 | 1.00 | 1.00 | 2 | 2009 | 4-B | 1.17 | 0.00 | 1.17 | 8 |
| 1978 | 7 | 0.65 | 0.65 | 0.65 | 2 | 2009 | 4-C | 2.91 | 0.00 | 0.00 | |
| 1978 | 9 | 1.30 | 1.30 | 1.30 | 2 | 2010 | na | 0.00 | 0.00 | 0.00 | |
| 1978 | 10 | 0.90 | 0.90 | | 2 | | Zone 1(1-C,D*) | 1 | | Chilles and a sector should be | #00000 |
| | | | | 0.90 | | 2011 | | 0.00 | 0.00 | 3.37 | #88803 |
| 1978 | 15 | 0.80 | 0.80 | 0.80 | 2 | 2011 | Zone 2 (4C,2D,2E) | 0.00 | 0.00 | 5.17 | #88803 |
| 1978 | 23 | 1.61 | 1.61 | 1.61 | 2 | 2011 | Zone 3 (2D) | 0.00 | 0.00 | 1.40 | #88803 |
| 1978 | 24 | 0.92 | 0.92 | 0.92 | 2 | 2011 | Zone 4 (1E) | 0.00 | 0.00 | 0.48 | #88804 |
| 1978 | 25 | 1.25 | 1.25 | 1.25 | 2 | 2011 | Zone 5 (2A) | 0.00 | 0.00 | 0.09 | #88805 |
| 1978 | 30b | 0.75 | 0.75 | 0.75 | 2 | 2011 | Zone 6 (2A) | 0.00 | 0.00 | 1.93 | #88806 |
| 1978 | 30c | 1.05 | 1.05 | 1.05 | 2 | 2011 | Zone 7 (1B) | 0.00 | 0.00 | 0.47 | #88807 |
| 1979 | 31 | 3.20 | 3.20 | 3.20 | 2 | 2011 | Zone 8 | 0.00 | 0.00 | 0.92 | #88808 |
| 1979 | 34 | 1.20 | 1.20 | 1.20 | 2 | 2011 | Zone 9 | 0.00 | 0.00 | 1.06 | #88809 |
| 1979 | 35 | 1.10 | 1.10 | 1.10 | 2 | 2011 | Zone 10(5) | 0.00 | 0.00 | 0.45 | #88810 |
| 1980 | na | 0.00 | 0.00 | 0.00 | | 2011 | Zone 11 (5) | 0.00 | 0.00 | 0.28 | #88811 |
| 1981 | na | 0.00 | 0.00 | 0.00 | | 2011 | Zone 12 (5) | 0.00 | 0.00 | 0.33 | #88812 |
| 1982 | na | 0.00 | 0.00 | 0.00 | | 2011 | Zone 13 | 0.00 | 0.00 | 0.78 | #88813 |
| 1983 | 32 | 2.20 | 2.20 | 2.20 | 5 | 2012 | na | 0.00 | 0.00 | 0.00 | |
| 1983 | 33 | 0.90 | 0.90 | 0.90 | 5 | 2012 | | 0.00 | 0.00 | and the second | |
| 1983 | | 0.90 | 0.90 | 0.90 | 5 | | na | | And in case of the local division of the loc | 0.00 | |
| | na | | | | | 2014 | na | 0.00 | 0.00 | 0.00 | |
| 1985 | na | 0.00 | 0.00 | 0.00 | | 2015 | na | 0.00 | 0.00 | 0.00 | |
| 1986 | na | 0.00 | 0.00 | 0.00 | | 2016 | na | 0.00 | 0.00 | 0.00 | |
| 1987 | 36 | 3.27 | 3.27 | 3.27 | 5 | 2017 | Zone 14 | 3.28 | 0.00 | 3.28 | #26938 |
| 1988 | na | 0.00 | 0.00 | 0.00 | | 2018 | na | 0.00 | 0.00 | 0.00 | L |
| 1989 | na | 0.00 | 0.00 | 0.00 | | 2019 | na | 0.00 | 0.00 | 0.00 | |
| 1990 | 37 | 2.43 | 2.43 | 2.43 | 6 | | | | | | |
| 1991 | na | 0.00 | 0.00 | 0.00 | | | | | | | |
| 1992 | 32 | 0.63 | 0.63 | 0.63 | 5 | | Acres Disturbed | | 156.10 | | |
| 1992 | 32 | -0.81 | -0.81 | -0.81 | na | 1 | Acres Backfilled and Gr | aded | 101.46 | | |
| 1993 | 32 | 0.83 | 0.83 | 0.83 | 5 | | Acres Topsoiled | | 86.17 | | |
| 1993 | 38 | 0.12 | 0.12 | 0.12 | 6 | | Acres Re-Seeded | | 108.60 | | |
| 1995 | 37 | 0.10 | 0.10 | 0.10 | 5 | | >10 Years | | 20.01 | | |
| 1995 | 38 | 0.07 | 0.07 | 0.07 | 6 | | <10 Years | | 88.59 | 1 | |
| 1996 | 39 | 0.04 | 0.07 | 0.07 | 5 | | Acres Disturbed | | 156.10 | 1 | |
| 1997 | | | | | 5 | | | bobe | | | |
| | na | 0.00 | 0.00 | 0.00 | | | Acres Backfilled and Gr | | 101.46 | | |
| 1998 | na | 0.00 | 0.00 | 0.00 | | | Remaining Reclamation | n | 54.64 | | |
| 1999 2000 | na | 0.00 | 0.00 | 0.00 | | | | | | | |

Reclamation Summary

| | Table 1 - Seed Mixtures 1997 | |
|-------------------------|------------------------------|--------------|
| | 1977 Revegetation Program | Seeding Rate |
| Species | Origin | (PLS #ACRE) |
| Western Wheatgrass | Native | 8.0 |
| Crested Wheatgrass | Introduced | 4.0 |
| Pubescent Wheatgrass | Introduced | 10.0 |
| Intermediate Wheatgrass | Introduced | 8.0 |
| Yellow Sweetclover | Introduced | 8.0 |
| Dryland Alfalfa | Introduced | 6.0 |
| Total | | 44.0 |

| Table 2 - Seed Mixture 2 1978 & 1979 | | | | | | |
|--------------------------------------|----------------------|--------------|--|--|--|--|
| | Revegetation Program | | | | | |
| Species | Origin | Seeding Rate | | | | |
| | Origin | (PLS #ACRE) | | | | |
| Streambank Wheatgrass | Native | 10.0 | | | | |
| Western wheatgrass | Native | 14.0 | | | | |
| Pubescent Wheatgrass | Introduced | 5.0 | | | | |
| Intermediate Wheatgrass | Introduced | 5.0 | | | | |
| Yellow Sweetclover | Introduced | 4.0 | | | | |
| Indian Ricegrass | Native | 2.0 | | | | |
| Dryland Alfalfa | Introduced | 2.0 | | | | |
| Total | | 42.0 | | | | |

| | Table 3 - Seed Mixture 3 1980 | |
|-------------------------|-------------------------------|--------------|
| | Revegetation Program | |
| | | Seeding Rate |
| Species | Origin | (PLS #ACRE) |
| Streambank Wheatgrass | Native | 11.0 |
| Western wheatgrass | Native | 15.0 |
| Pubescent Wheatgrass | Introduced | 6.0 |
| Intermediate Wheatgrass | Introduced | 6.0 |
| Yellow Sweetclover | Introduced | 6.0 |
| Indian Ricegrass | Native | 3.0 |
| Dryland Alfalfa | Introduced | 3.0 |
| Total | | 50.0 |

| | Table 4 - Seed Mixture 4 | | | | | |
|-----------------------|---------------------------|--------------|--|--|--|--|
| | 1981 Revegetation Program | | | | | |
| | | Seeding Rate | | | | |
| Species | Origin | (PLS #ACRE) | | | | |
| Streambank Wheatgrass | Native | 10.0 | | | | |
| Western wheatgrass | Native | 14.0 | | | | |
| Beardless Wheatgrass | Introduced | 5.0 - | | | | |
| Indian Ricegrass | Introduced | 5.0 | | | | |
| Thickspike Wheatgrass | Introduced | 5.0 | | | | |
| White Sweetclover | Native | 10.0 | | | | |
| Total | | 49.0 | | | | |

| | Table 5 - Seed Mixture 5 | |
|------------------------|--|--------------|
| Or | chard Valley Permanent Revegetation Pr | ogram |
| Grass | | Seeding Rate |
| Species | Origin | (PLS #ACRE) |
| Western Wheatgrass* | Native | 6.0 |
| Thickspike Wheatgrass* | Native | 4.0 |
| Slender Wheatgrass* | Native | 3.0 |
| Streambank Wheatgrass* | Native | 4.0 |
| Indian Ricegrass | Native | 1.5 |
| Sand Dropseed | Native | 0.1 |
| Beardless Wheatgrass | Native | 2.0 |
| Arizona Fescue | Native | 2.0 |
| Pubescent Wheatgrass | Introduced | 2.0 |

| Table 5 - Seed Mixture 5 | | | | | | |
|--------------------------|---|--------------|--|--|--|--|
| Orc | Orchard Valley Permanent Revegetation Program | | | | | |
| Forb Species | | Seeding Rate | | | | |
| Species | Origin | (PLS #ACRE) | | | | |
| Utah Sweetvetch | Native | 8.0 | | | | |
| Rocky Mountain Penstemon | Native | 0.5 | | | | |
| Lewis Flax | Native | 1.0 | | | | |
| Arrowleaf Balsamroot | Native | 5.0 | | | | |
| Scarlet Globernallow | Native | 0.5 | | | | |
| Western Yallow | Native | 0.1 | | | | |
| Dryland Alfalfa | Introduced | 1.0 | | | | |
| Cicer Milvetch | Introduced | 2.0 | | | | |
| Small Burnet | Native | 0.5 | | | | |
| Smooth Aster | Native | 0.5 | | | | |
| | | | | | | |

| Table 5 - Seed Mixture 5 | | | | | | |
|--------------------------|---|--------------|--|--|--|--|
| Orcl | Orchard Valley Permanent Revegetation Program | | | | | |
| Shrub | | Seeding Rate | | | | |
| Species | Origin | (PLS #ACRE) | | | | |
| Utah Serviceberry | Native | 3.0 | | | | |
| True Mountain Mahogany | Native | 1.5 | | | | |
| Bittersbrush | Native | 5.5 | | | | |
| Wood Rose | Native | 2.0 | | | | |
| Skunkbrush Sumac | Native | 5.0 | | | | |
| Winterfat | Native | 1.0 | | | | |
| Mountain Big Sagebrush | Native | 0.1 | | | | |
| Rubber Rabbitbrush | Native | 0.3 | | | | |
| Four-Wing Saltbrush | Native | 2.0- | | | | |

| | Table 6 - Seed Mixture 6 | |
|-------------------------|---------------------------------------|--------------|
| Orch | ard Valley Temporary Revegetation Pro | ogram |
| | | Seeding Rate |
| Species | Origin | (PLS #ACRE) |
| Grasses | | |
| Western Wheatgrass | Native | 15.0 |
| Indian Ricegrass | Native | 10.0 |
| Pubescent Wheatgrass | Introduced | 5.0 |
| Intermediate Wheatgrass | Introduced | 5.0 |
| Yellow Sweetclover | Introduced | 5.0 |
| Total | | 40.0 |

| | Table 7 - Seed Mixture 7 | |
|--------------------------|-----------------------------------|-----------------------------|
| | Bowie No. 2 West Mine Reclamation | |
| Species | Origin | Seeding Rate (PLS #ACRE) |
| Grasses | | |
| Thickspike Wheatgrass | Introduced | 0.5 |
| Green Needlegrass | Native | 0.5 |
| Streambank Wheatgrass | Native | 0.5 |
| Indian Ricegrass | Native | 0.5 |
| Arizona Fescue | Native | 0.2 |
| Western Wheatgrass | Native | 0.5 |
| Forbs | | |
| Small Burnett | Native | 2.0 |
| Rocky Mountain Penstemon | Native | 0.3 |
| Cicer Milkvetch | Introduced | 0.5 |
| Lewis flax | Native | 0.5 |
| Shrubs | | |
| Rubber Rabbitbrush | Native | 0.2 |
| Woods Rose | Native | 1.0 |
| Antelope Bitterbrush | Native | 3.0 |
| Winterfat | Native | 1.0 |
| Four-Wing Saltbrush | Native | 1.0 |
| | | |

| Table 8 - Seed Mixture 8 | | | |
|-----------------------------------|------------|--------------|--|
| Bowie No. 1 East Mine Reclamation | | | |
| | | Seeding Rate | |
| Species | Origin | (PLS #ACRE) | |
| Grasses | | | |
| Thickspike Wheatgrass | Introduced | 0.5 | |
| Green Needlegrass | Native | 0.5 | |
| Streambank Wheatgrass | Native | 0.5 | |
| Indian Ricegrass | Native | 0.5 | |
| Arizona Fescue | Native | 0.2 | |
| Western Wheatgrass | Native | 0.5 | |
| Forbs | | | |
| Small Burnett | Native | 2.0 | |
| Rocky Mountain Penstemon | Native | 0.3 | |
| Cicer Milkvetch | Introduced | 0.5 | |
| Lewis flax | Native | 0.5 | |
| Shrubs | | | |
| Rubber Rabbitbrush | Native | 0.2 | |
| Woods Rose | Native | 1.0 | |
| Antelope Bitterbrush | Native | 3.0 | |
| Winterfat | Native | 1.0 | |
| Four-Wing Saltbrush | Native | 1.0 | |
| | | | |

Table 9 - Seed Mixture 88803 Bowie No. 1 Mine

| Bowie No. 1 Mille | | |
|--------------------------|------------|-----------------------------|
| Species | Origin | Seeding Rate (PLS #ACRE) |
| Grasses | | |
| Thickspike Wheatgrass | Introduced | 0.5 |
| Slender Wheatgrass | Native | 0.6 |
| Streambank Wheatgrass | Native | 0.5 |
| Indian Ricegrass | Native | 0.5 |
| Arizona Fescue | Native | 0.2 |
| Western Wheatgrass | Native | 0.5 |
| Forbs | | |
| Small Burnett | Native | 2.0 |
| Rocky Mountain Penstemon | Native | 0.3 |
| Cicer Milkvetch | Introduced | 0.5 |
| Lewis Blue Flax | Native | 0.5 |
| Shrubs | | |
| Rubber Rabbitbrush | Native | 0.2 |
| Skunkbush Sumac | Native | 1.4 |
| Antelope Bitterbrush | Native | 3.0 |
| Winterfat | Native | 1.0 |
| Four-Wing Saltbrush | Native | 1.0 |
| | | |
| | | |

| | Table 10 - Lot 26938 | |
|--------------------------|----------------------|-----------------------------|
| | Bowie No. 1 Mine | |
| Species | Origin | Seeding Rate (PLS #ACRE) |
| Grasses | | |
| Thickspike Wheatgrass | Introduced | 0.5 |
| Slender Wheatgrass | Native | 0.6 |
| Streambank Wheatgrass | Native | 0.5 |
| Indian Ricegrass | Native | 0.5 |
| Arizona Fescue | Native | 0.2 |
| Western Wheatgrass | Native | 0.5 |
| Forbs | | |
| Small Burnett | Native | 2.0 |
| Rocky Mountain Penstemon | Native | 0.3 |
| Cicer Milkvetch | Introduced | 0.5 |
| Lewis flax | Native | 0.5 |
| Shrubs | | |
| Rubber Rabbitbrush | Native | 0.2 |
| Woods Rose | Native | 1.0 |
| Antelope Bitterbrush | Native | 3.0 |
| Winterfat | Native | 1.0 |
| Skunkbrush | Native | 1.4 |