

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

Electronically Submitted

February 15, 2022

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

RE: Bowie No. 1 Mine

Permit No. C-1981-038

2021 Annual Reclamation Report

Dear Mr. Zuber:

As required, find enclosed Bowie No. 1 Mine, 2021 Annual Reclamation Report.

Sincerely

Basil R. Bear Mine Manager

Colorado Division of Reclamation, Mining and Safety

Annual Reclamation Report for Calendar Year - 2021

Bowie No. 1 Mine

C1981-038

Bowie Resources LLC

13.38

Mine Name

Permit Number

Permittee

PO 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 Catagoni	Last Year's Cumulative Total	This Cal	lendar Year		C1
Land Category	(from last year's ARR)	Acres Added (+)	Acres Subtracted (-)		Cumulative Total
Acreage in Active Mining Areas ¹	0	0	0	=	0
Land Category	Last Year's Cumulative Total (from last year's ARR)	This Cal	lendar Year Acres Subtracted (-)		Cumulative Total
Acres Disturbed ²	156.10	O Acres Added (+)	Acres Subtracted (-)	=	156.10
Acres Backfilled and Graded	109.98	0	0	=	109.98
Acres Topsoiled	93.09	0	0	=	93.09
Acreage in Long-term Facilities ³	Last Year's Cumulative Total (from last year's ARR)	This Cal	endar Year Acres Subtracted (-)		Cumulative Total
Non-Permanent Facilities	46.12	0	0	=	46.12
Permanent Facilities (permitted)		0	0	=	
Totals				=	
Acres Seeded (permanent)	Last Year's Cumulative Total (from last year's ARR)	This Cal	lendar Year Acres Subtracted (-)		Cumulative Total
9 Years and Less	3.28	0	0	=	3.28
10 Years and Greater	123.63	0	0	=	123.63
Totals			TERSON SERVICE	=	
D 101	Last Year's Cumulative Total	. This Cal	lendar 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
					2000000 20000 200

^{13.38} ¹Includes pits, topsoil stripped areas in advance of pits, and spoil not backfilled and graded

Phase III Released

0

²Surface 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

BOWIE RESOURCES LIMITED BOWIE NO. 1 MINE 2021 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 2021.

- **2021:** Reclamation Activities: Reclamation for the RY2021 consisted of normal site maintenance including noxious weed control and maintenance of silt fence/waddle repair at various locations. The noxious weed control that was performed included the Bowie 1 Loadout, East and West Mines sites. Thistle was treated with the herbicide Curtail and Jointed Goat Grass with Glystar following manufactures recommendations. Phase III of the ROM area consisting of 10.38 areas (excluding access road) was achieved in 2021.
- **2020:** Reclamation Activities: Reclamation for the RY2020 consisted of normal site maintenance including noxious weed control and maintenance of silt fence/waddle repair at various locations. The noxious weed control that was performed included the Bowie 1 Loadout, East and West Mines sites. Thistle was treated with the herbicide Curtail and Jointed Goat Grass with Glystar following manufactures recommendations. The second Phase III vegetation study was completed in 2020 by Cedar Creek Associates covering the R.O.M. area. It is Bowie's intention to request Phase III release of for this site in 2021 provided study results support the release.
- **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

Kind: Cropworx East	Mine	Perm	Mix	
Lot: 26938				
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 Whealgrass	3.10	97	WA	
Thickspike Wheatgrass	3.04	- 99	WA -	
Bubbe - Rabinibrush	2.82	71	UT	
Lewis Flax	2.72	92	WA	
Rocky Mountain Penstemon	1.24	81	CO	
Arizona Fescue	1.08	93	WY	

Crop: ADV4 Inert 4.29% Weeds: ...1146 Net Wir: 29.75f(16.10)selfacre)
Notious Weeds: NONE FOUND Tested: 17.76

Remarks: Cropworx
Arkansas Valley Seed 4300 Moraco St. Demor CO 802

Kind: Cropworx East	Mine	Pern	n Mix
Lot: 26938			
Kind & Variety:	Pure%	Germ	Origin
Antelope Bitterbrush	22.02	91	CO
Woods Rose	12.12	62	UT
Small Burnett	11.65	36	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 Whealgrass	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: .0096 Inert: 4.2896 Weeds: ..01% Net Wt: 29.75#(16.10gls#/acre)
Naxious Weeds: NONE FOUND Tested: 11/16

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

Kind: Cropworx East Mine Perm Mix Lot: 26938 Kind & Variety: Pure% Germ Origin Antelope Bitlerbrush 22.02 91 CO Woods Rose 12.12 11.65 62 86 UT Small Burnett WA Winter Fat Cicer Milkvetch 10.44 6.34 79 WY Skunkbrush 5.57 5.27 90 95 97 UT Indian Ricegrass CO WY Western Wheatgrass 5.17 96 97 99 Stender Wheatgrass Streambank Wheatgrass 3.13 MA 3:10 WA Thickspike Wheatgrass 3.04 WA Rubber Rabbitbrush 2.82 UT Lewis Flax Rocky Mountain Penstemon 2.72 1.24 81 93 CO 1.08

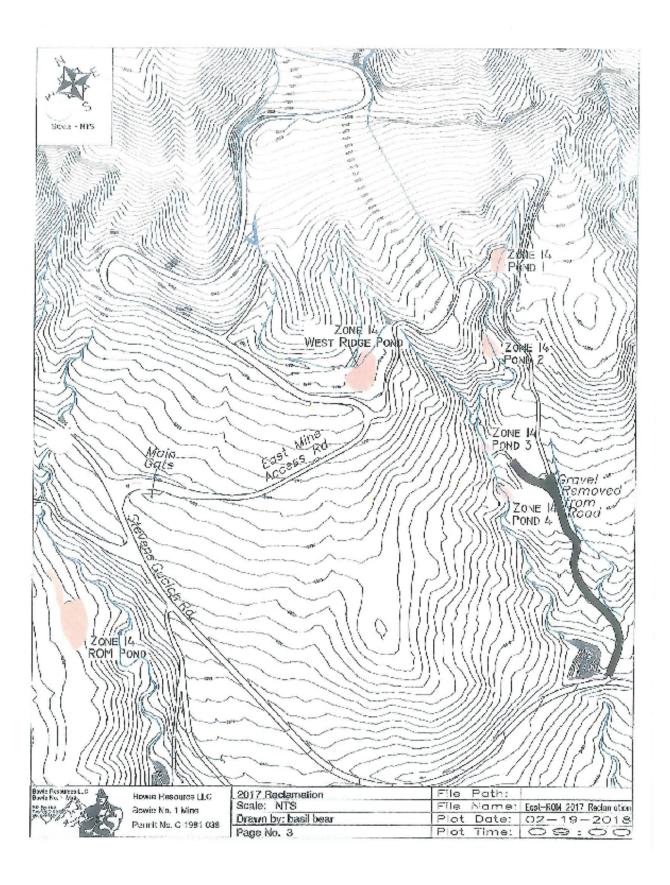
Crop: .006 Inert: 4.28% Weeds: ...61% Net Wi: 29.75#(16.10pis#jacre)
Noxious Weeds: NONE FOUND Tested: 11/16

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

Kind: Cropworx East Mine Perm Mix Lot: 26938 Kind & Variety: Pure% Germ Origin Anieloge Bitterbrush 22.02 91 03 Woods Rose 12.12 11.65 Small Burnett 86 WA Winter Fat 10.44 72 UT Cicer Milkvetch 6.34 WY Skunkbrush 5.57 UT Indian Ricegrass 5 27 Western Wheatgrass Slender Wheatgrass 97 5.17 WY 96 WA Streambank Wheatgrass 3.10 WA Thickspike Wheatgrass 3.04 99 WA Rubber Rabbilbrush 2.82 71 UT Lews Flax 2.72 92 WA Rocky Mountain Pensterion 1.24 Arizona Fescue 1.08 93

Crop: 04% Insert: 4.28% Weeds: ..01% Net Wt: 29.354716 (Taplet Facte)
Maxious Weeds: NORE FCUND Tested: 11/15
Remarks: Cropworx

Arkansas Valley Seed 4300 Monaco St. Denver, CO 80216



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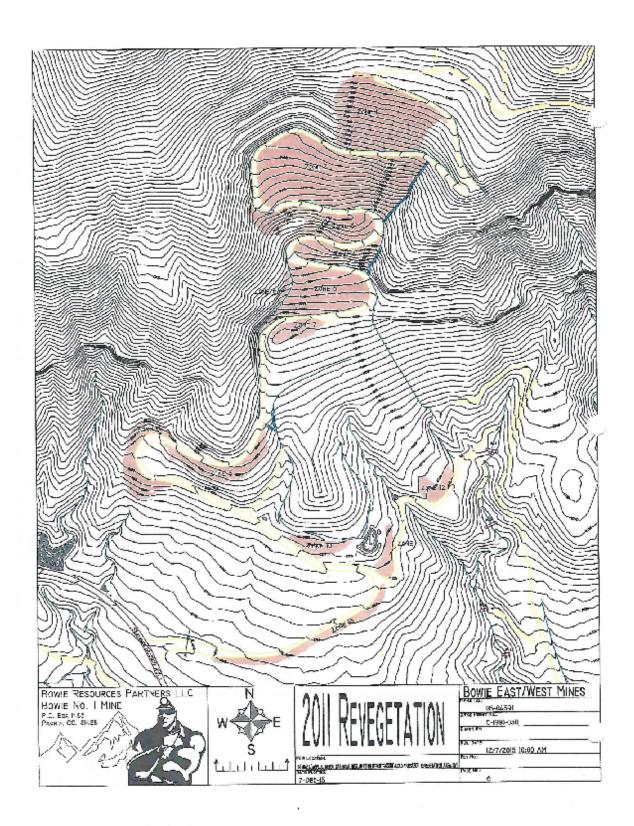
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_	92W	3008		Redaimed	

SL-06_Exhib.

- **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 activities during this reporting period.
- **Reclamation Activities:** Except for minor repair to ditch, #7 there was no reclamation activities during this reporting period.
- **Reclamation Activities:** Except for minor repair to ditch, #7 there was no reclamation activities during this reporting period.
- **Reclamation Activities:** Reclamation activities for the reporting year 2011 consisted of additional 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	Description	Acreage	Top Soiled	Revegetated
Zone 1 (1-C, D)	Above Portal Bench	0.00	0.00	3.37
Zone 2 (4-C, 2-D, 2-E)	Portal/Office Bench	0.00	0.00	5.17
Zone 3 (2-D)	Substation	0.00	0.00	1.40
Zone 4 (1-E)	Belt Transfer	0.00	0.00	0.48
Zone 5 (2-A)	Rock Cut	0.00	0.00	0.47
Zone 6 (2-A)	Warehouse/Shop	0.00	0.00	1.93
Zone 7 (1-B)	Tire Shop Area	0.00	0.00	0.47
Zone 8	Access Road	0.00	0.00	0.92
Zone 9	Access Road	0.00	0.00	1.06
Zone 10 (5)	West Ridge Pile	0.00	0.00	0.45
Zone 11 (5)	Top Soil Pile	0.00	0.00	0.28
Zone 12 (5)	Access Road	0.00	0.00	0.33
Zone 13	Access Road	0.00	0.00	0.78
Totals			17.11	

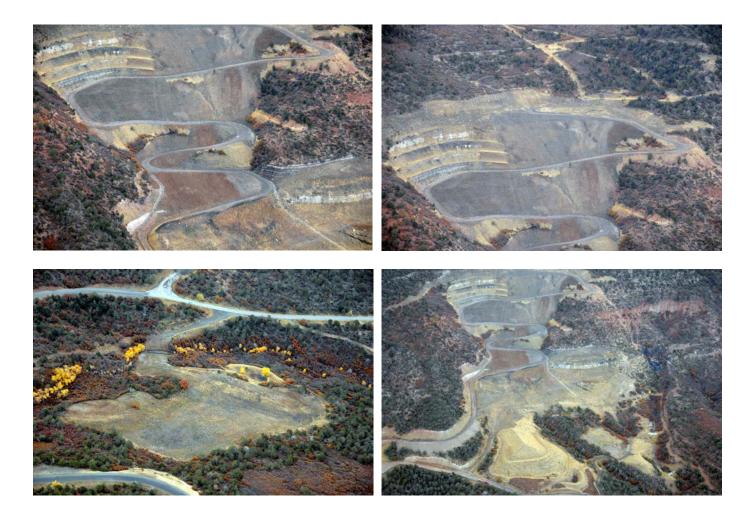
From: Granite Seed 1697-W 2100 N Lehi, UT 84043			12	4	From: Granife Seed 1697 W 2100 N Lehi, UT 84043)		2 of 11
Mix Name: Old Bowle Mine #1			206817	7	Mix Name: Copy of Old Bowie	Mine #1		207139
Mix # 88803		Old Bowle	Mine #1	1	Mix # 88962		Old Bowie	e Mine #1
% Pura Common Name	Variety	G+DarH	Origin		% Pure Common Name	Variety	G+D or H	Origin
20.30 ANTELOPE BITTERBRUSH	VNS	91-TZ	CA		19.10 ANTELOPE BITTERGRUSH	VNS	91 -TZ	CA
14.74 WINTERFAT	WS.	47 -TZ	NM	ı	14.48 WINTERFAT	VNS	45 -TZ	UT
943 SMALLBURNET .	Detar	99 -TZ	DR		8.87 SMALL BURNET	Delar	99 -TZ	MY
9.43 FOURWING SALTBUSH	ws	49 + 0 -TZ	UT		8.15 SLENDER WHEATGRASS	San Luis	32 -TZ	
9.12 SKUNKBUSH SUMAC	VNS	76 -TZ	UT	1	8.05 FOURWING SALTBUSH	· VNS	64 -YZ	AZ
491 (CDEA 1005	.utana.	94-TZ	MT	1	6.86 SKUNKBUSH SUMAC	VNS	95 -TZ	UT
4.91 WESTERN WHEATGRASS	EditiA	94 -TZ :	WA	. 1	482 CICER MILKVETCH	Lutana	94 -TZ	MT
4.85 INDIAN RICEGRASS	Paloma	95 + 0 -TZ	co		457 INDIAN RICEGRASS	Jama	95 + 0 -TZ	co
2.98 STREAMBANK WHEATGRASS	Sodar	93 -TZ	WA	- 1	449 WESTERN WHEATGRASS	Arnes	197	WA
2.86 THICKSPIKE WHEATGRASS	Critana	97 -TZ	WA	- 1	287 THICKSPIKE WHEATGRASS	Critana	91 + 0	1: 3
2.86 SLENDER WHIGHTGRASS	San Luis	97 + 0 -TZ	WA	1	2'63 STREAMBANK WHEATGRASS	Sodar	99 -TZ	WA
236 LEWIS BLUE FLAX	Appar	OB -TZ	WA	.1	262 LEWIS BLUE FLAX	Appar	63 -YZ	1 1
1.90 RUBBER RABBITBRUSH	VNS	97 + 0 -TZ	UT	1	189 RUBBER RABBITBRUSH	VNS	92-TZ	UT
1.04 ROCKY MOUNTAIN PENSTEMON	VNS	89 -TZ	OR	į	0.99 ARIZONA FESCUE	Redondo	88-TZ	WA
D96 ARIZONA FESCUE	Redondo	96 -TZ	WY	L	0.98 ROCKY MOUNTAIN PENSTEMON	VNS	89-TZ	OR
0.03 Other Crop Date Tested:	11-007-10	/			9.03 Other Crop Date Tested	28-SEP-10		
7 29 Inert Matter % Hard Seed	0.00				8.79 Inert Matter % Hard Seed	0.00		
0.02 Weed Seed Resh	ricted Weed: sals	da kali •			0.02 Weed Seed	stricted Weed: thist	le, russina, brome, do	uny
								9999

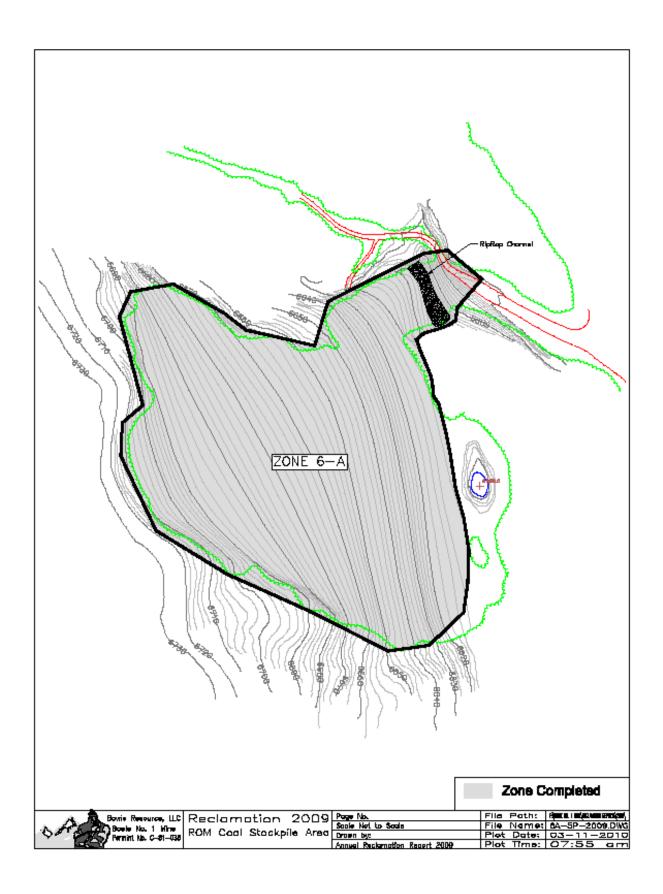


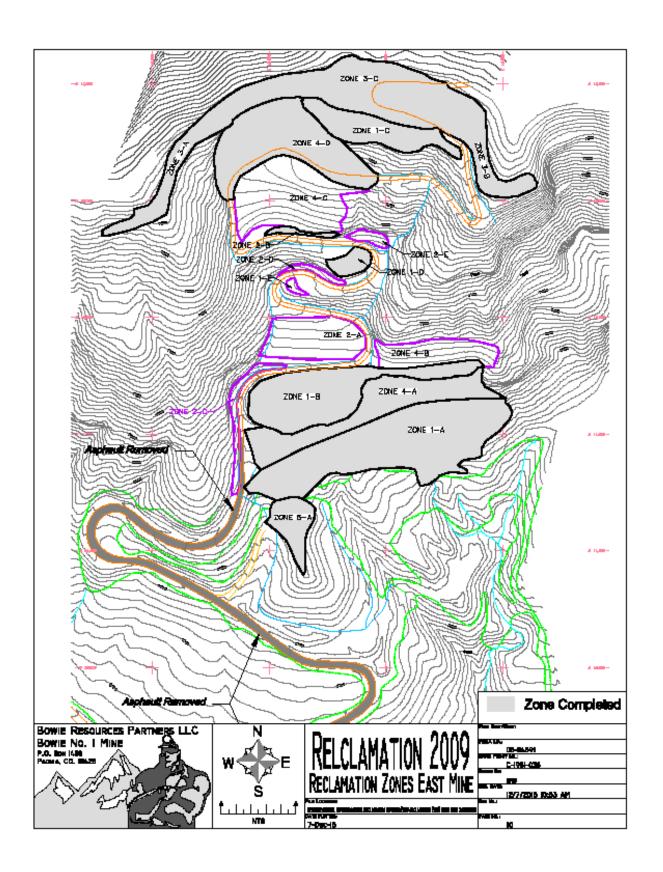
There were no reclamation activities during this reporting period.

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	4.54	2.89	No
Zone 2-E	Substation/Access Road	0.18	0.18	No
Zone 2-D	Access Road	0.61	0.00	No
Zone 1-E	Belt Transfer	0.35	0.07	No
Zone 2-A	Shop/Warehouse	2.15	1.63	No
Zone 4-B	Storage Bench	1.27	1.17	1.27
Zone 2-C	Access Road	0.93	0.00	No
	Total	10.03	5.94	1.27







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. (*Reference attached Drawings "Reclamation Zones East Mines and "ROM Coal Stockpile Area"*)

Zones	Description	Acreage	Top soiled	Revegetated
Zone 1-A	Crushing & Screening Level Fill	Yes	Yes	5.93
Zone 1-B	Shop & Warehouse Level Fill	Yes	Yes	3.11
Zone1-D	Substation Level Fill	Yes	Yes	0.34
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	6.98 (Total)
Zone 4-A	Rock Cut above Crushing & Screening	Yes	Yes	1.42
Zone 4-D	Rock Cut below Fan Level	No	Yes	3.65
Zone 5-A	Waste Rock Disposal Site	Yes	No	7.04
Zone 6-A	R.O.M. Coal Stockpile & Access Road	Yes	Yes	11.16
Totals	-			39.63





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
	West Mine Fan Shaft/Drill Hole Sites	0.45	Yes	Yes





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.

<u>East Mine</u> - 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: "Final Report, Reclamation, Colorado Westmoreland, Inc., Orchard Valley Mine, Paonia, Colorado, January 1978, by Thorne Ecological Institute", and "History of Revegetation, Orchard Valley Mine, 1977-1982, April, 1983, Prepared for CWI, Orchard Valley Mine, Paonia, Colorado, by Harner and Associates."

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.

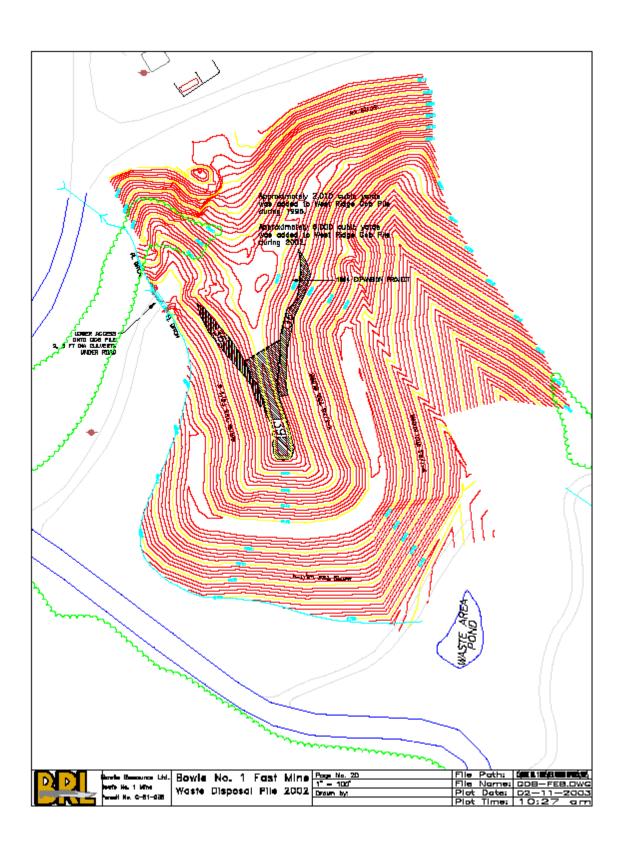
Reclamation activities in 1980 focused on revegetating lands disturbed through minor construction activities conducted in 1979. The areas addressed in 1980 included the Orchard Valley Mine water pipeline, exploration drill pads, and miscellaneous roadways. The majority of the acreage reclaimed in 1980,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

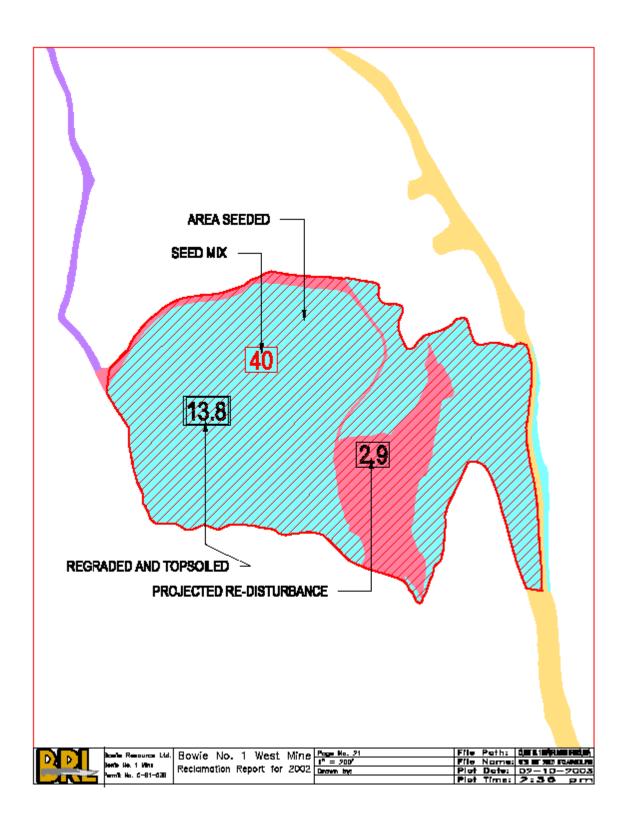
The 1981 revegetation program encompassed minor disturbances consisting of miscellaneous roadways, Steven's Gulch well field structures, and the scale house and truck scales near the truck dump station.

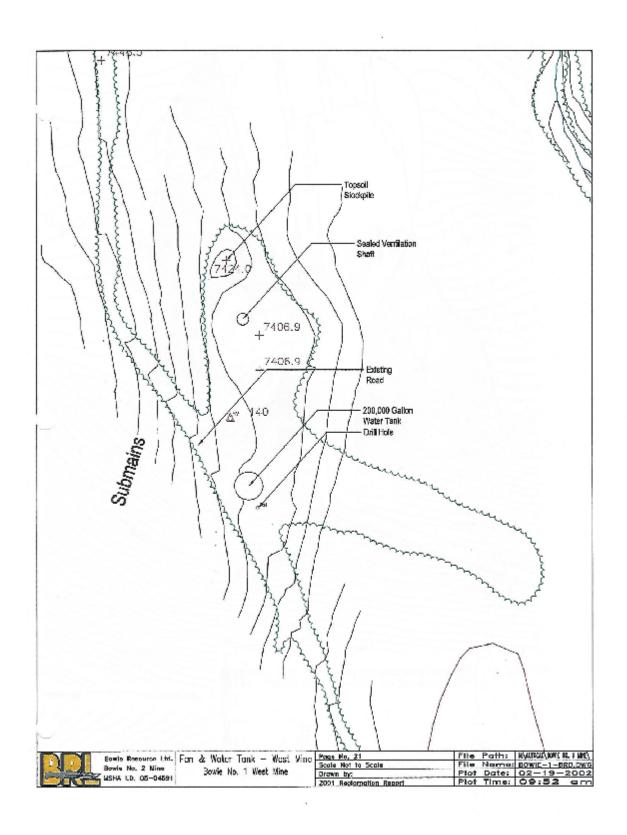
Construction of the West Ridge waste disposal area was initiated in July 1983. Lands available for reclamation at this site have been seeded and mulched on an approximately annual base since development began. The West Ridge waste disposal site encompasses approximately 3.37 acres. Approximately 2.20 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.







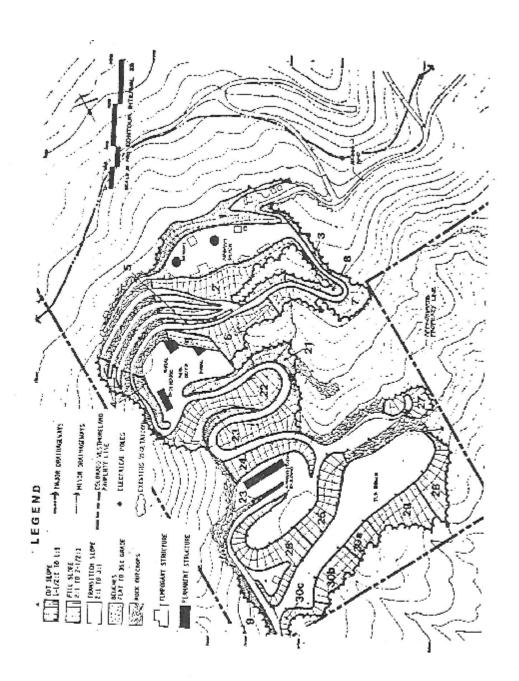


Exhibit 1 1977 Revegetation Program Test Plot Locations 1 through 8 and 21 through 30c along Access Road to Main Mine Facilities.

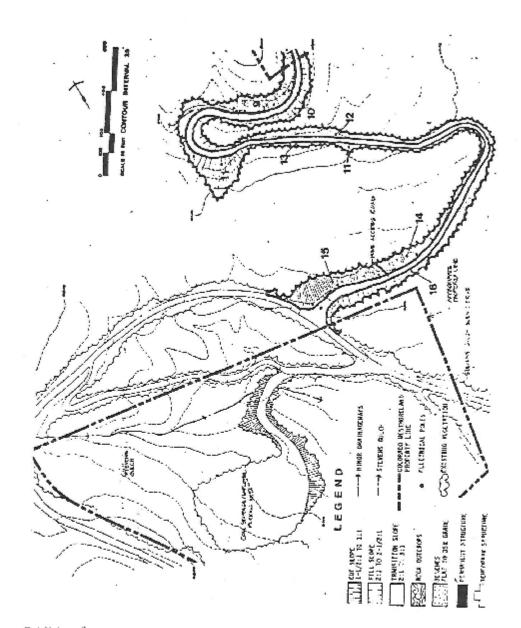


Exhibit 2 1977 Revegetation Program Test Plot Locations 9 through 16 along Access Road to Main Mine Facilities.

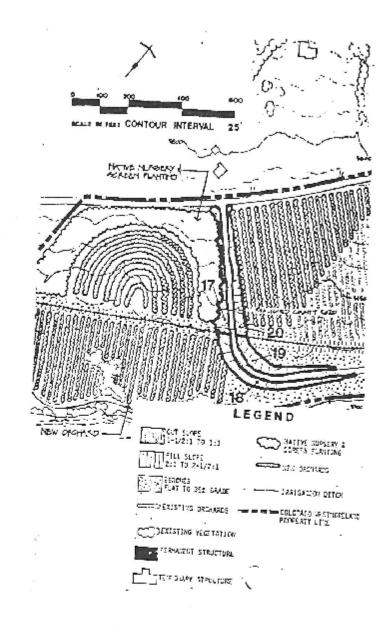


Exhibit 3 1977 Revegetation Program Test Plot Locations 17 through 20 at Coal Storage and Loadout Area.

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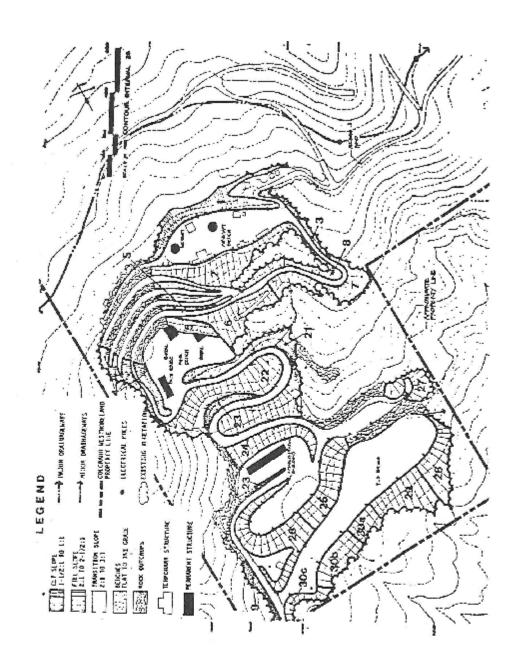


Exhibit 4 1978 Revegetation Program Sparsely Vegetated and Washout Areas within the Test Plots Access Road to Main Mine Facilities (Part 1).

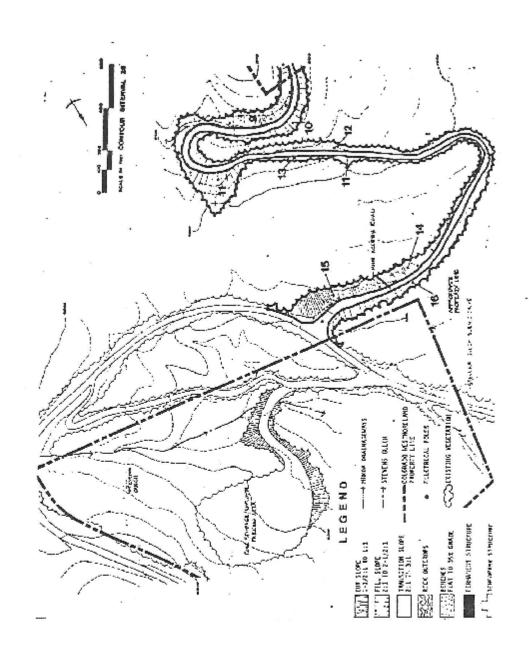


Exhibit 5 1978 Revegetation Program Sparsely Vegetated and Washout Areas within the Test Plots - Access Road to Main Mine Facilities (Part 2).

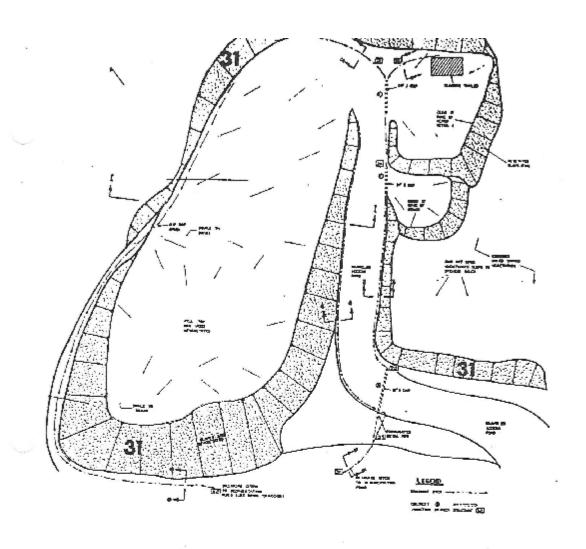


Exhibit 5 1979 Revegetation Program Parking Lot/Emergency Goal Stockpile

