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## TULAMEEN COAL PROJECT

Surface Work Permit #C-115

Annual Reclamation Report, 1978

Coal Licences Nos. 69, 70, 71, 125, 126, 145, 146, 147, 154, 158, 159, 3663, 3664, 3665

N.T.S. 92-H-7, 10

Lat.:

49<sup>0</sup>30'

Long.:

120045'

By:

T. J. Adamson

CYPRUS ANVIL MINING CORPORATION

February, 1979

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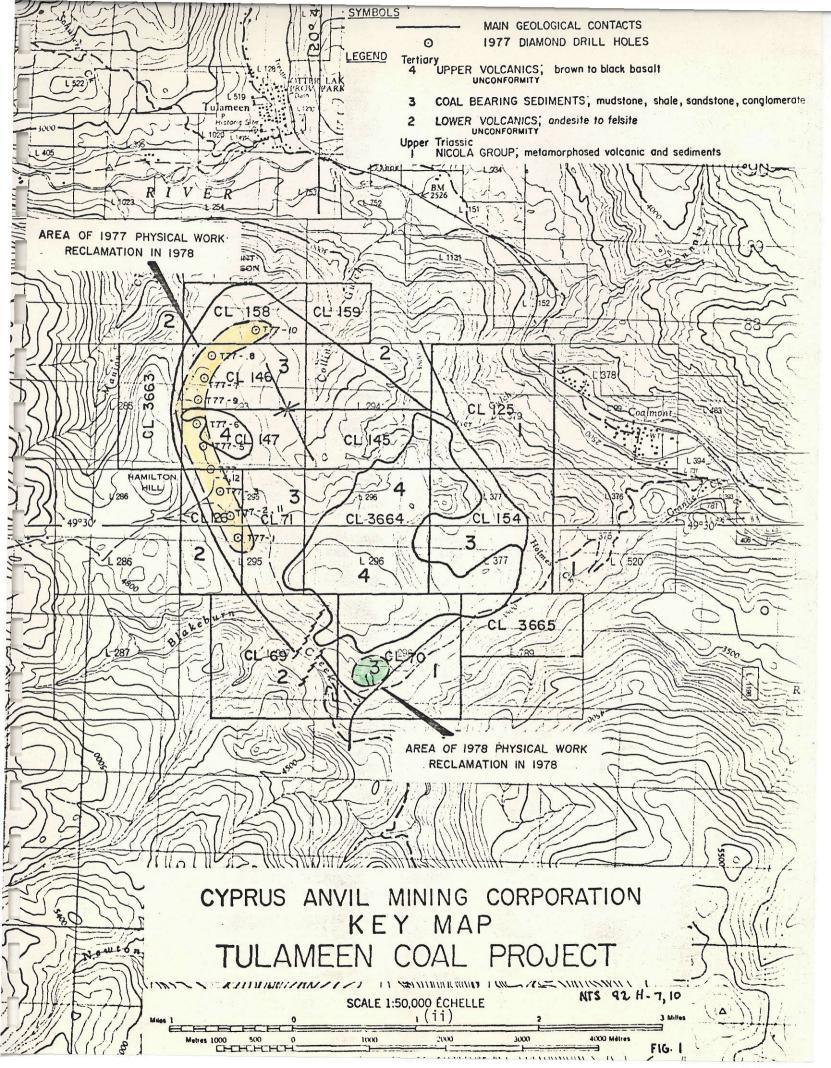
T. J. Adamson

Cyprus Anvil Mining Corporation

February, 1979

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### Surface Work Permit #C-115 Annual Reclamation Report, 1978

## INTRODUCTION

During 1977, Cyprus Anvil Mining Corporation carried out a field exploration program within the Tulameen Coalfield.

Work carried out during the program included the following:

- topographic control survey,
- new aerial photography,
- preparation of base maps and orthophotos,
- geological mapping,
- bulldozer and backhoe trenching,
- diamond drilling,
- electrologging of drill holes,
- bulk sampling,
- extensive analyses and testing of bulk and core samples,
- geophysical resistivity and I.P. survey.

The location and extent of all physical work done during the 1977 program, which resulted in surface disturbance, was reported in a Reclamation Report for 1977 which was submitted on January 6, 1978. As was noted in that report, reclamation of 1977 work sites was deferred until 1978, as it was anticipated that many of the roads, trenches, and drill sites could be reoccupied during the 1978 exploration program.

Surface work continued on the Tulameen licences during the 1978 field season. Work carried out at this time included the drilling and electrologging of eight rotary drill holes and the excavation of 21 small back-hoe test pits. This work was done in an area to the south of the No. 3 underground mine and was removed from the area of our 1977 field work. All of the 1978 work was carried out along existing accessible roads and

resulted in only minimal surface disturbance.

This report covers the reclamation that was carried out, during 1978, of areas that were disturbed during the 1977 and 1978 exploration programs on the Tulameen coal licences.

## SURFACE DISTURBANCE

		Area <u>Disturbed</u>		
1.	1977 Field Work - see previously submitted "Reclamation Report - Coal Exploration" for calendar year 1977.	17,552 m <sup>2</sup>		
2.	1978 Field Work -			
	(a) Drill Sites - all drilling was carried out using a truck-mounted rotary drill rig. Six sites involved no surface disturbance. Two sites required minor levelling.	65 m <sup>2</sup>		
	(b) Back-hoe Test Pits - 21 small pits along existing roads.	125 m <sup>2</sup>		
3.	Large bulldozer trenches, pre-dating Cyprus Anvil's involvement in this area, in which, during 1977, the floors of the trenches were cleaned out to facilitate mapping without increasing the original disturbed area.	5,900 m <sup>2</sup>		
		23,642 m <sup>2</sup>		
	·	= 2.36 ha.		

## RECLAMATION

## Main Access Road:

This road was left in a stable, non-erosive condition.

Water bars were constructed on steep pitches where necessary. As advised by A. L. O'Bryan, Reclamation Inspector (letter of July 24, 1978), this road was not revegetated.

## Branch Roads leading to drill sites and trenches:

All branch roads were seeded and fertilized.

## Drill Sites:

All drill sites were recontoured, seeded and fertilized.

## Back-hoe trenches and pits:

All back-hoe excavations were completely backfilled, seeded and fertilized.

## Bulk sample test pits:

Two pre-existing bulldozer trenches, which were substantially deepened for bulk sampling, have been left open as it is probable that additional bulk samples will be required. The banks and margins of these pits have been seeded and fertilized.

## Bulldozer trenches:

All pre-existing bulldozer trenches, which were cleaned out for mapping during 1977, have been partially back-filled, seeded and fertilized.

## Slash control and timber disposal:

During the course of road construction, drill site preparation and trenching, all timber of marketable size which was cut was recovered and decked along the main accesss road. The B.C. Forest Service was unable to commercially dispose of this timber and it will now be burned by B.C. Forest Service at some appropriate time. All leaners and other damaged timber along roads and around drillsites have been bucked into short lengths and laid flat on the ground or piled for burning by the B.C. Forest Service.

## REVEGETATION PROCEDURE

Seeding and fertilizing were carried out during September,

1978. A hand-held cyclone spreader was used for seed and fertilizer distribution.

Seed Mixture: Creeping Red Fescue - 40% by weight.

Climax Timothy - 25% " "
Smooth Broom - 10% " "
Alfalfa - 10% " "
White Clover - 7% " "
Alsite - 8% " "

Seed Application Rate: Approximately 57 kg/ha. (50 lbs./acre).

Seed Supplier: Richardson Seeds, 7342 Winston Street,

Burnaby, B.C.

Fertilizer: 20-24-15.

Fertilizer Application Rate: Approximately 225 kg./ha.

(200 lbs./acre).

Respectfully submitted,

T. J. Adamson Geologist

#### APPENDIX I

#### CYPRUS ANVIL MINING CORPORATION

#### TULAMEEN COAL PROJECT

#### SUMMARY OF EXPLORATION AREAS DISTURBED AND REVEGETATED

#### TO DECEMBER 31, 1978

Type of		Disturbed Area (ha)	REVEGETATION				Tota1
Disturbance	Length (km)		Area Recontoured (ha)	Area Seeded (ha)	Area Fertilized (ha)	Total Area Receiving Work (ha)	Not Seeded
Roads	1,570 Number	.78		.65	.65	.65	.13 (1)
Test Pits (Bac (Bulk Sample P Trenches (Bac	its) 2	.01 .17 .05	.01 .05	.01 .17 .05	.01 .17 .05	.01 .17 .05	- - - (2)
(Pre-existing Adits dozer Trenc	bull- 12	.59	.59 (partial		.59	.59	-
Drill Sites	20	.76	.76	.76	.76	.76	-
Other							

- (1) Total area not seeded is on main access road.
- (2) Most backhoe trenches were along new roads. The disturbed and revegetated area involved is included in road work above.

