

BULLDOZER TRENCHING REPORT

Coal Licence No. 153

Report Submitted, Re: Section 19 (2) (e) and 19 (h) of the Coal Act

CONFIDENTIAL
OPEN FILE

N.T.S. 92-H-10

Latitude: 49° 31' N

Longitude: 120° 44' W

Licensee: T. G. Stout

Operator: Cyprus Anvil Mining Corporation

Field Work Completed From May 19 - 23, 1981

By:

T. J. Adamson

CYPRUS ANVIL MINING CORPORATION
GEOLOGICAL BRANCH
July 1981 ASSESSMENT REPORT

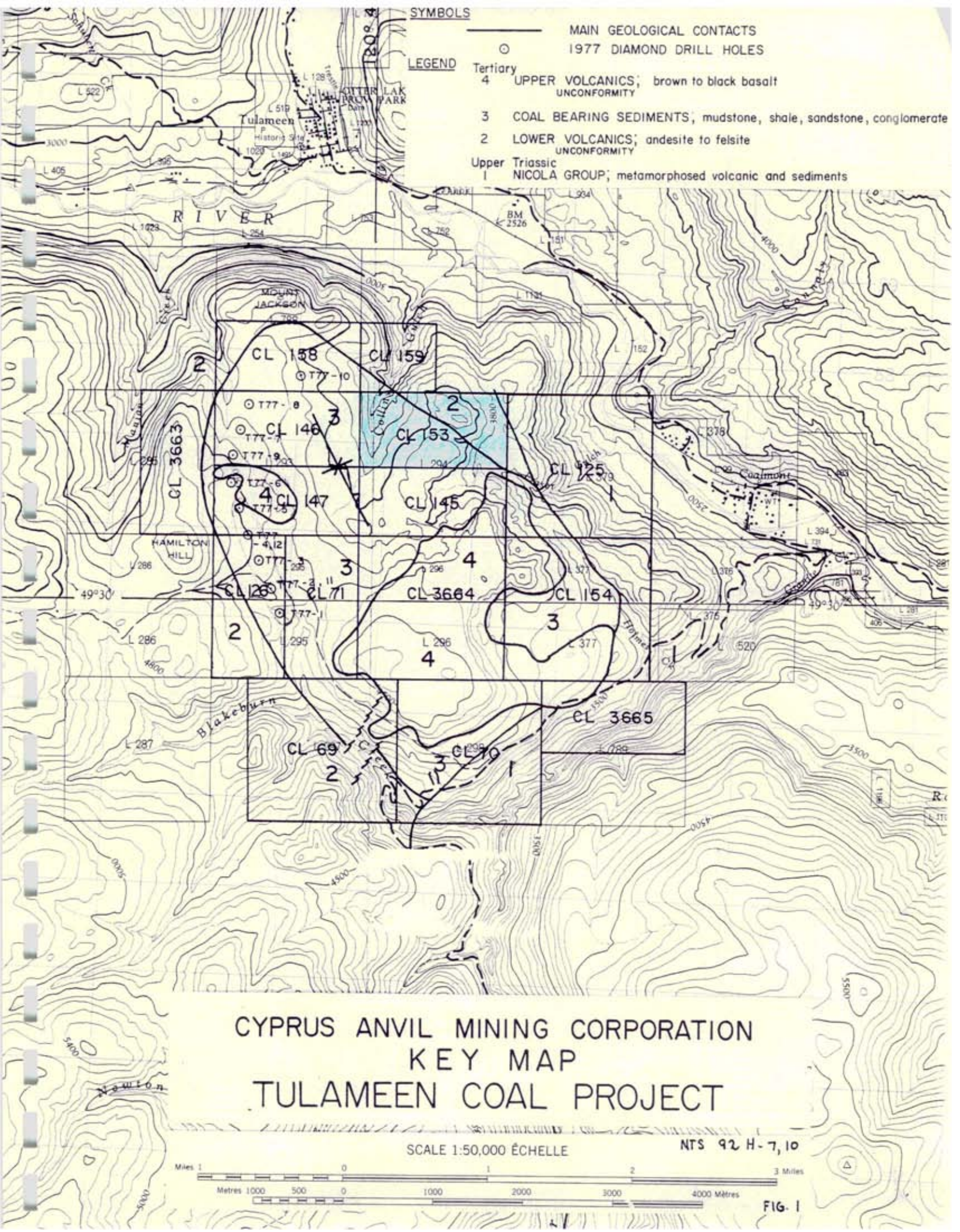
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TABLE OF CONTENTS

	<u>Page</u>
Key Map	(ii)
Introduction	1
Location and Access	1
Bulldozer Trenching	2

List of Illustrations

Figure 1	Key Map
Appendix I	Statement of Qualifications
Appendix II	Cost Statement and Invoices
Map No. 1	Coal License No. 153 - 1981 Bulldozer Trenching Trench Location (1:5000) and Trench Sketches (1:500)



CYPRUS ANVIL MINING CORPORATION
 KEY MAP
 TULAMEEN COAL PROJECT

SCALE 1:50,000 ÉCHELLE

NTS 92 H-7,10

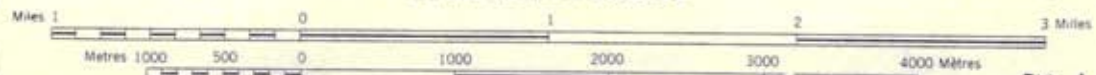


FIG. 1

Cyprus Anvil Mining Corporation

300, 355 Burrard Street Telex 04508594
Vancouver, British Columbia
V6C 2G8
Telephone (604) 687-2586

INTRODUCTION:

By an agreement entered into on April 10, 1981 with T. G. Stout, licensee of Coal Licence No. 153, Cyprus Anvil Mining Corporation undertook a small bulldozer trenching program on this licence in May, 1981. This licence is contiguous with Cyprus Anvil's other Tulameen Coal Project coal land holdings. Work was carried out under Surface Work Permit No. C-115.

A total of three trenches were excavated, with a total length of 472 meters. On completion of this trenching, all trenches were backfilled to their pre-1981 contour or better. All disturbed areas were then seeded and fertilized.

LOCATION AND ACCESS:

The Tulameen Coalfield is located in south-western British Columbia on the east flank of the Cascade Mountains, about 170 air-kilometers E.N.E. of Vancouver, and 48 kilometers north of the United States border. Coal Licence No. 153 is located south of the town of Tulameen and west of the town of Coalmont.

... 2

CYPRUS ANVIL

There is good private gravel road access to the property from Coalmont, a distance of about five kilometers. A paved road connects Coalmont with Princeton, a distance of about 20 kilometers to the south-east.

A C.P. Rail branch line runs from Princeton, through Coalmont and Tulameen, connecting with the main line at Spences Bridge. The rail distance from Coalmont to Vancouver is 420 kilometers.

BULLDOZER TRENCHING:

Within the period May 19 - 23, 1981, a Caterpillar D-6 dozer was utilized for trenching on Coal Licence No. 153. The purpose of the trenching was to better define geological contacts in the area and to expose coal seams for examination and possible sampling. All work was within the limits of pre-existing, shallow, slumped bulldozer workings, most of which had not previously reached bedrock. A total of 472 linear meters of excavating was carried out within three trenches.

The trenches are fully described on Map No. 1 which indicates their dimensions and shows their locations with respect to boundaries of the licence, access roads, drilling sites and other surface workings.

On the completion of the program, all new trenching was backfilled and all disturbed areas were seeded and fertilized.

Respectfully submitted,



T. J. Adamson

Senior Geologist, Coal Projects

July 17 98
Date

APPENDIX I

Statement of Qualifications

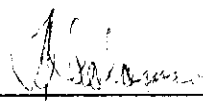
I, Thomas J. Adamson, geologist, with business address at 300 - 355 Burrard Street, Vancouver, British Columbia, and residential address at 3842 West 23rd Avenue, Vancouver, British Columbia, hereby state that:

1. I graduated from the University of British Columbia in 1967 with a B.Sc., majoring in geology.

2. From 1967 to the present, I have been actively engaged as a geologist on mineral and coal exploration programs in British Columbia, Alberta, and the Yukon Territory.

3. From 1972 to the present, I have been employed by Cyprus Anvil Mining Corporation of Vancouver, British Columbia.

4. I personally participated in and supervised all 1981 field work on Coal Exploration Licence No. 153 and have compiled and interpreted all data resulting from this work.



T. J. Adamson
Senior Geologist, Coal Projects

July 16, 1981

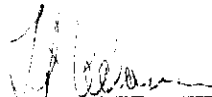
APPENDIX II

Coal Licence No. 153


1981 Bulldozer Trenching Cost Statement

Bulldozer Rental - Tri Valley Construction Ltd., invoices attached	\$ 3,205.50
Salaries - One employee, \$3,570.00/m, 5 days	892.50
Transportation - Bow-Mac Truck Rentals, invoice attached	724.93
Accommodation - Sandman Inn, Princeton, invoice attached	<u>162.05</u>
	\$ 4,984.98

I, Thomas J. Adamson, do hereby state that, to the best of knowledge and belief, the above statement of costs is both correct and true.



T. J. Adamson
Senior Geologist, Coal Projects



Date

CATEGORY OF WORK

SCHEDULE B

GEOLOGICAL MAPPING

Yes No

	Area (Hectares)	Scale	Duration
Reconnaissance
Detail:			
Surface
Underground
*Other (specify)
			Total Cost \$

GEOPHYSICAL/GEOCHEMICAL SURVEYS

Yes No

Method	.....
Grid	.....
Topographic	.....
*Other (specify)	.....
Total Cost \$	

ROAD CONSTRUCTION

Yes No

Length	.....	Width	.....
On Licence(s) No(s)	.....	
Access to	.....	
Total Cost \$			

SURFACE WORK

Yes No

	Length	Width	Depth	Cost
Trenching	472 m	5 m	.....	4,984.98
Seam Tracing	.....	.....	.....	.....
Crosscutting	.....	.....	.....	.....
*Other (specify)	.....	.....	.....	.....
				Total Cost \$ 4,984.98

UNDERGROUND WORK

Yes No

	No. of Adits	Maximum Length	No. of Holes	Total Metres	Cost
Test Adits
*Other workings
					Total Cost \$

DRILLING

Yes No

	Hole Size	No. of Holes	Total Metres	Cost
Core:				
Diamond
Wireline
Rotary:				
Conventional
Reverse circulation
*Other (specify)
Contractor			
Where is the core stored?			
				Total Cost \$

LOGGING, SAMPLING AND TESTING

Yes No

Lithology:	Drill samples	<input type="checkbox"/>	Core samples	<input type="checkbox"/>	Bulk samples	<input type="checkbox"/>
Logs:	Gamma-neutron	<input type="checkbox"/>	Density	<input type="checkbox"/>		
*Other (specify)	.....				
Testing:	Proximity analysis	<input type="checkbox"/>	FSI	<input type="checkbox"/>	Washability	<input type="checkbox"/>
	Carbonization	<input type="checkbox"/>	Petrographic	<input type="checkbox"/>	Plasticity	<input type="checkbox"/>
*Other (specify)	.....				

OTHER WORK (specify details)

.....	Cost
.....
Total Cost \$ 4,984.98	
On-property costs 4,984.98	
Off-property costs	
Total Expenditures \$ 4,984.98	

.....
 (Date)

.....
 (Signature)

Senior Geologist, Coal Projects

(Position)

*A full explanation of other work is to be included.

Tri Valley Construction Ltd.



PRINCETON, B. C.

Bulldozing & Craning

P. O. BOX 808

W. Wilkinson
295-6186

L. McKenzie
295-6270

June 3, 1931.

Cypruss Anvil Mining Corp.,
355 Burrard St.,
Vancouver, B. C.
V6C 2G8

JUN 1981

STATEMENT

Re. Blakeburn Coal lease.

May 19-22	D-6-C Cat. 49 hrs. @ \$ 61.50	\$ 3,013.50
	Moving charges	192.00

TOTAL / \$ 3,205.50

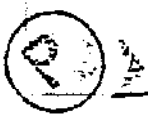
JUN 24 1981

ACCOUNT	AMOUNT
<u>TOTAL</u>	
ADD ENTRIES	CODING

Tom to field.

2040 - 09

135530



Sandman

INNS

HN

LTD. PRF 2975

PHONE VANCOUVER 681-2211 FOR RESERVATIONS

NAME T. ADAMSON STREET 300-355 Burrard

CITY VAN PROV. BC YEAR & MAKE OF CAR FORD dx4

A.C.T. OR N.W.C.T. NO. CYPRESS ANKLE MINING CAR LICENSE & PROV.

	MON.	TUES.	WED.	THURS.	FRI.	SAT.	SUN.	TOTAL
DATE	5/18/81	5/19/81	5/20/81	5/21/81	5/22/81			
ROOM	25.00	25.00	25.00	25.00	25.00			
TAX	1.50	1.50	1.50	1.50	1.50			
PHONE			4.80				USA	
MEALS			9.80	16.05	35.00			
TOTAL	26.50	26.50	40.50	36.55	32.00			

ROOM NO. <u>241</u>	CASH	PHONE METER
NO. IN PARTY <u>1</u>	CHARGE <u>VISA</u>	OUT
		IN
		NO. OF CALLS



Handwritten signature
SIGNATURE

TOTAL \$ 162.05

4510-407-169-600

10407169600

THOMAS ADAMSON 09/81 VISA

SANDMAN, INN. 0518811 5 510
9320507081PRINC.
2052106826 ETOM
237 685

CHARGES IN DRAFT - FACTURE

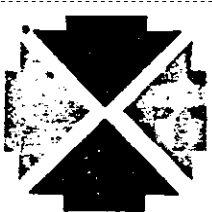
AMOUNT MONTANT: 162.05
TAX TAXE
TIPS POURBOIRE
162.05 \$ CDN CAN

CUSTOMER COPY - COPIE DU CLIENT



CONSERVEZ CETTE COPIE COMME PREUVE DE VOTRE TRANSACTION

CARDHOLDER WILL PAY TO THE BANK WHICH ISSUED THE CHARGE CARD PRESENTED HEREWITH THE AMOUNT SHOWN ABOVE IN ACCORDANCE WITH THE BANK'S AGREEMENT WITH THE CARDHOLDER.
LE DETENTEUR DE CARTE PAIERA A LA BANQUE QUI A EMIS LA CARTE ICI PRESENTEE LE MONTANT INDIQUE CI-DESSUS, CONFORMEMENT AUX CONDITIONS REGISSANT L'EMISSION DE CETTE CARTE AVEC LA BANQUE EMETTRICE.



BOW MAC TRUCK RENTALS

JUN - 5 1981

INVOICE NUMBER

RENTAL CONTRACT BETWEEN BOW MAC TRUCK RENTALS (OWNER)

A DIVISION OF BOWELL MCLEAN MOTOR CO. LTD. A CANADIAN OWNED AND OPERATED COMPANY

AGENT/CITY CODE 2700

AND Aggrus Arsil Mining Corp. (LESSEE)

ADDRESS 300 355 Burnard St

CITY Vancouver B.C.

P.O. NO.

THE LESSEE AGREES THAT THE FOLLOWING VEHICLE TYPE OF VEHICLE 4x4 70' UNIT NO. 160159

IS TO BE USED IN OR BETWEEN Van/Private - 1 Rtr

THE LESSEE AGREES TO RETURN THE VEHICLE TO THE OWNER ON DATE May 21 1981

REPLACEMENT VEHICLE

UNIT #
KMS. IN:
KMS. OUT:

THE ATTACHED VEHICLE INSPECTION REPORT DATED THE SAME DATE AS THIS RENTAL AGREEMENT BECOMES A PART OF THIS RENTAL AGREEMENT.

MILES/KM IN	<u>25271</u>	DATE IN	<u>MAY 25 1981</u>	TIME IN	<u>3:00</u>
MILES/KM OUT	<u>23714</u>	DATE OUT	<u>MAY 14 1981</u>	TIME OUT	<u>11:00</u>
MILES/KM RUN	<u>1547</u>	TOTAL DAYS	<u>9</u>	TOTAL HOURS	
MILES/KM ALLOWED		UNIT NO.			
EXTRA MILES/KM					<u>160159</u>
MONTHS @		MONTH			
<u>1</u> WEEKS @ <u>240</u>		WEEK			<u>240.00</u>
<u>2</u> DAYS @ <u>48</u>		DAY			<u>96.00</u>
<u>1547</u> MILES/KM @ <u>17</u>		MILES/KM			<u>26299</u>

ALL ACCIDENTS TO BE REPORTED IMMEDIATELY TO NEAREST BOW MAC AGENT.

ALL TRAFFIC VIOLATIONS AND ALL DAMAGES RESULTING FROM COLLISION WITH AN UNDERPASS OR OTHER OBJECT DUE TO INSUFFICIENT CLEARANCE OF HEIGHT OR WIDTH ARE LESSEE RESPONSIBILITY.

\$300.00 LIABILITY

BY SIGNING, LESSEE AGREES TO PAY THE OWNER FOR ALL LOSS OR DAMAGE TO VEHICLE LIMITED, HOWEVER TO \$300.00 PER ACCIDENT. PROVIDED VEHICLE IS OPERATED OR USED IN CONFORMITY WITH RENTAL AGREEMENT. LESSEE SHALL BE FULLY LIABLE FOR ALL SUCH DAMAGE IF SAID VEHICLE IS OPERATED IN VIOLATION OF ANY LAW OR THIS RENTAL CONTRACT.

\$1,000 LIABILITY

BY SIGNING, LESSEE AGREES TO PAY THE OWNER FOR ALL LOSS OR DAMAGE TO VEHICLE LIMITED, HOWEVER TO \$1000.00 PER ACCIDENT. PROVIDED VEHICLE IS OPERATED OR USED IN CONFORMITY WITH RENTAL AGREEMENT. LESSEE SHALL BE FULLY LIABLE FOR ALL SUCH DAMAGE IF SAID VEHICLE IS OPERATED IN VIOLATION OF ANY LAW OR THIS RENTAL CONTRACT.

EXCLUDES WRECKER OR TOWING CHARGES

EXCLUDES WRECKER OR TOWING CHARGES

LESSEE SIGNATURE

LESSEE SIGNATURE

2040-17

- Failure of the Lessee to return the vehicle within three days after the specified time shall constitute an unauthorized taking, use and operation of the vehicle and any costs and expenses incurred by the Owner for seizure and return of the vehicle to the Owner's premises shall be recovered from the Lessee.
- Lessee hereby indemnifies Owner against any fines or penalties assessed against Owner as a result of violation by Lessee of this agreement as to traffic and/or parking violations.
- Lessee agrees to be responsible for all damage to the vehicle while in his possession caused by negligent operation of the vehicle.

I.E. OPERATING VEHICLE WITH LACK OF WATER - OIL - ANTIFREEZE - CODING LUBRICANTS ETC.

- Lessee agrees to report all accidents and vehicle failures to the Owner immediately on occurrence.
- Lessee agrees that the vehicle herein described must not be used, operated or driven, nor does Owner give its consent, expressed or implied, to the vehicle being used, operated or driven by any other person than the Lessee or such other driver(s) as herein specifically named.
- Lessee responsible for all windshield damage.
- Lessee to be the only authorized driver unless second driver's signature is recorded below.

WE HEREBY AGREE TO BE BOUND AND TO COMPLY WITH ALL OF THE ABOVE TERMS AND CONDITIONS WHICH INCLUDE THE TERMS AND CONDITIONS ON THE "REVERSE SIDE" HEREOF.

LESSEE'S SIGNATURE

[Signature]

OWNER'S SIGNATURE

Thomas Anderson

DRIVER'S LICENSE NO.

1007880

EXPIRY DATE

05

PROVINCE

BC

BUSINESS PHONE

LESSEE'S PHONE

SIGNATURE OF AUTHORIZED AGENT

[Signature]

BALANCE OWING

OTHER TAXABLE ONLY

SUB TOTAL	445		<u>598.99</u>
S.S. TAX <u>6%</u>	324		<u>3594</u>
MECHANICAL	447.0		
DAMAGE (ESTIMATE ATTACHED)			
BODY	447.A		
TIRES	447.B		
INITIALS			
P.A.I. INSURANCE /DAY	446		
CARGO INSURANCE /DAY	446		
COLLISION DAMAGE LIABILITY WAIVER	1000/DAY	446	<u>9000</u>
TOTAL CASH	20001	220	
TOTAL CHARGE	<u>47347</u>		
TOTAL DEPOSIT			
REFUND RECEIVED			

RENT-A-TRUCK from BOW MAC 128964 CANADA WIDE LOCATIONS

OTTAWA
TORONTO
MONTREAL

FORT ST. JOHN
KAMLOOPS
VICTORIA

PR. GEORGE
QUESNEL
SASKATOON

VERNON
VICTORIA

YUKON
DAWSON CITY

ALBERTA
CALGARY

LETHBRIDGE
LLOYDMINSTER

SASKATCHEWAN
REGINA

CYPRUS ANVIL

Cyprus Anvil Mining Corporation

DATE	INVOICE NUMBER	GROSS	DISCOUNT	DATE	INVOICE NUMBER	GROSS	DISCOUNT
05 JUN 81	128964	724.93	0.00				

VENDOR CODE	CHEQUE NUMBER	CHEQUE DATE	GROSS	DISCOUNT	NET
BOTRREN	22327	11 JUN 81	*****724.93	*****.00	*****724.93

CYPRUS ANVIL

Cyprus Anvil Mining Corporation

330 - 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

V 23199

CHEQUE NUMBER	DATE
22327	11 JUN 81

PAID TO THE ORDER OF

**BOWMAC TRUCK RENTALS
1154 WEST BROADWAY
VANCOUVER, B.C.
V6H 1G5**

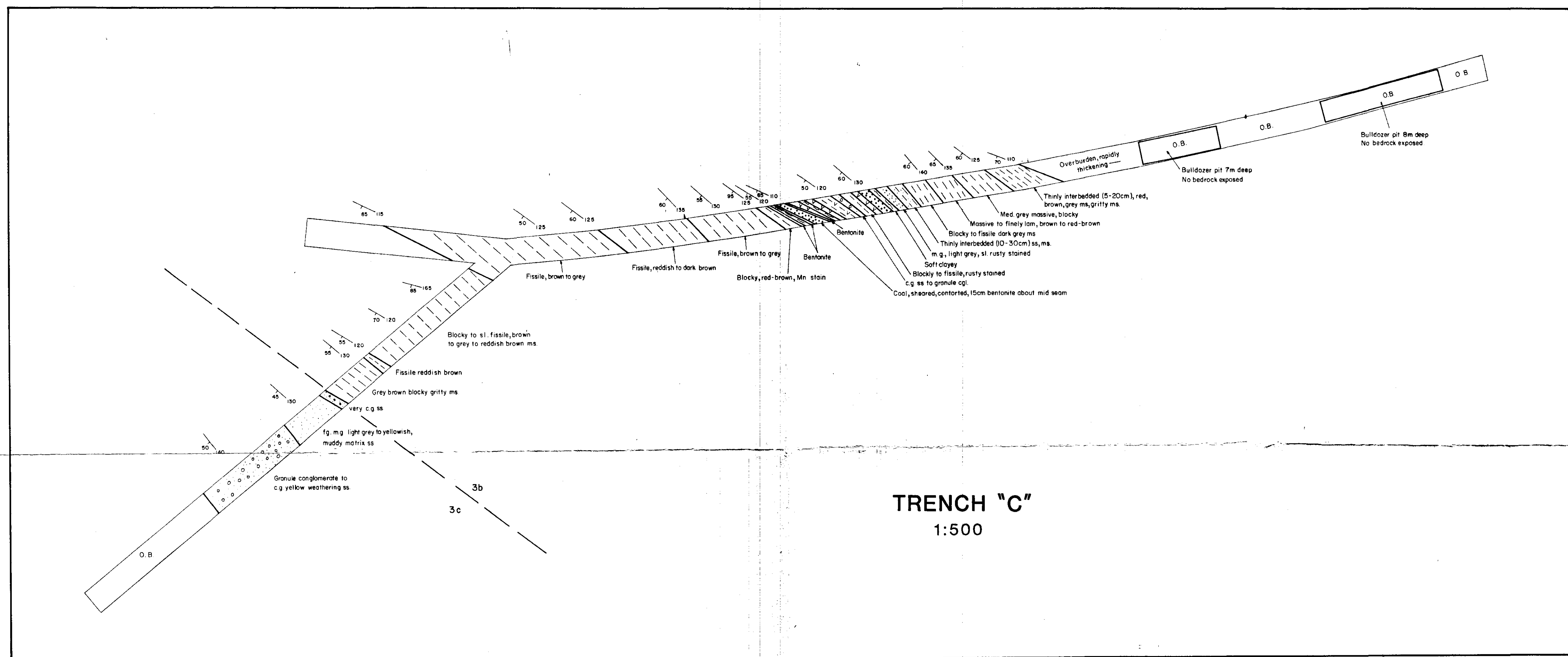
PROTECTED AMOUNT	AMOUNT
*****724.93	*****724.93

Cyprus Anvil Mining Corporation

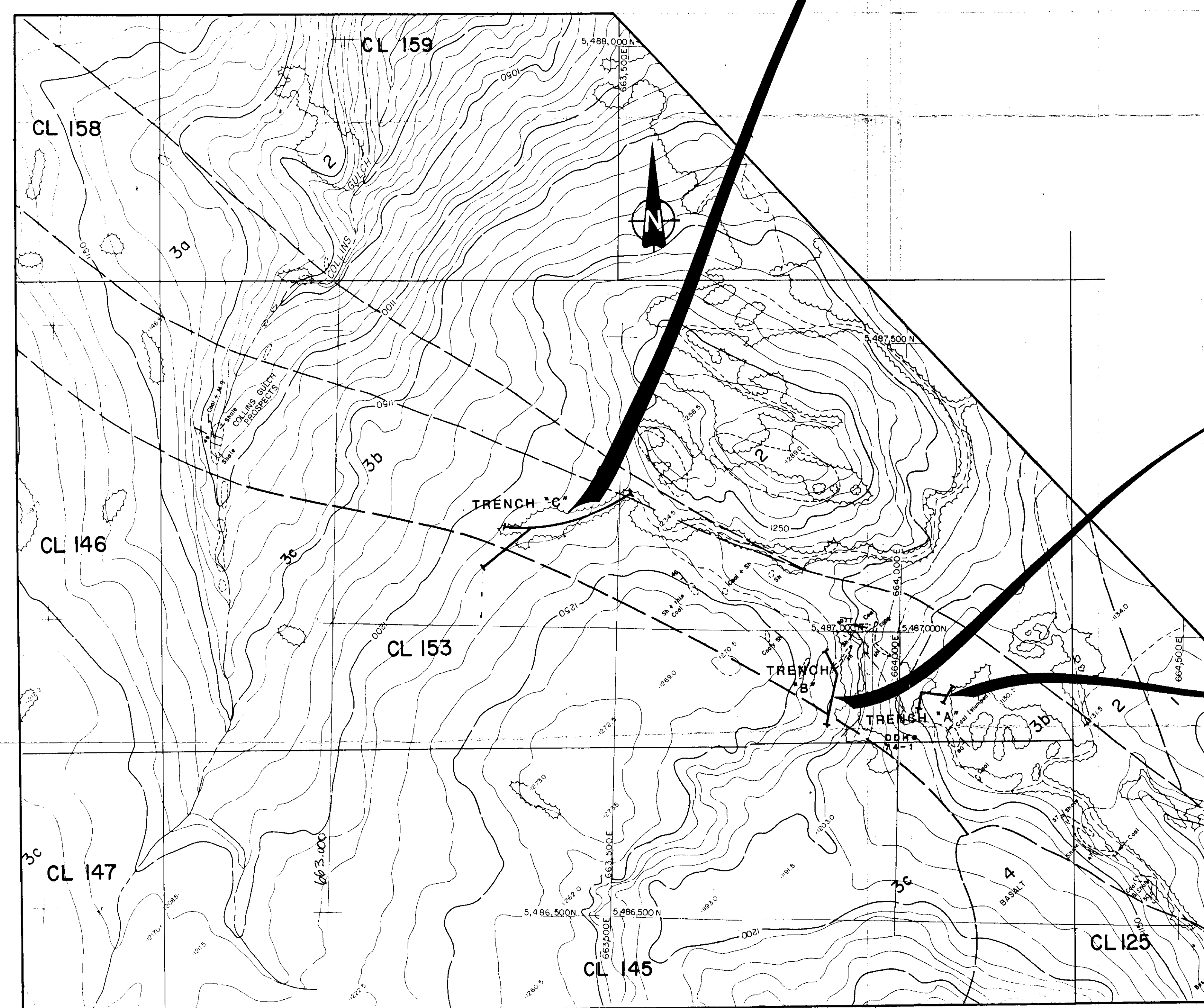
THE TORONTO-DOMINION BANK
839 WEST HASTINGS, VANCOUVER, B.C. V6C 1G5

**GENERAL
ACCOUNT**

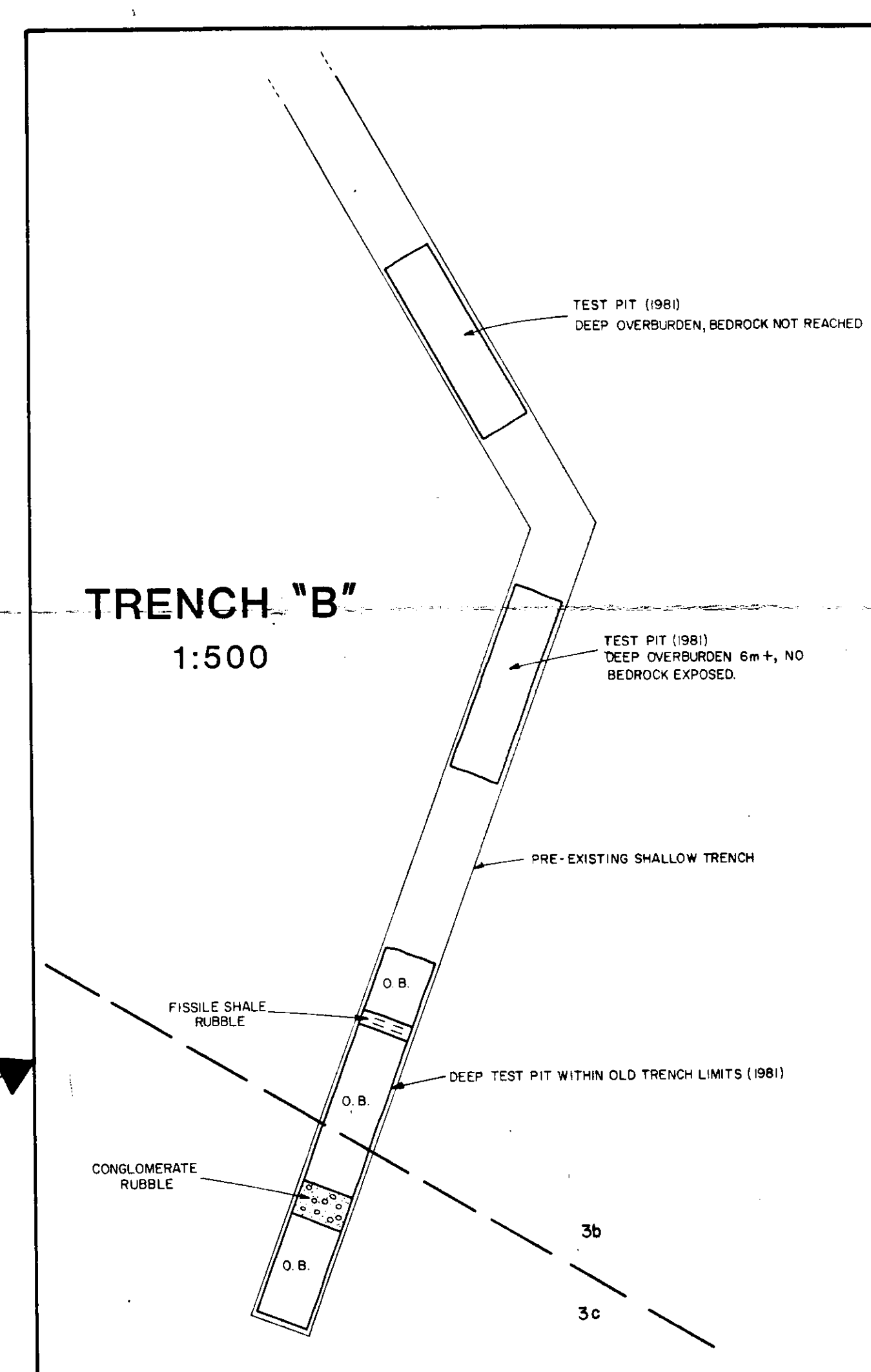
NOT NEGOTIABLE



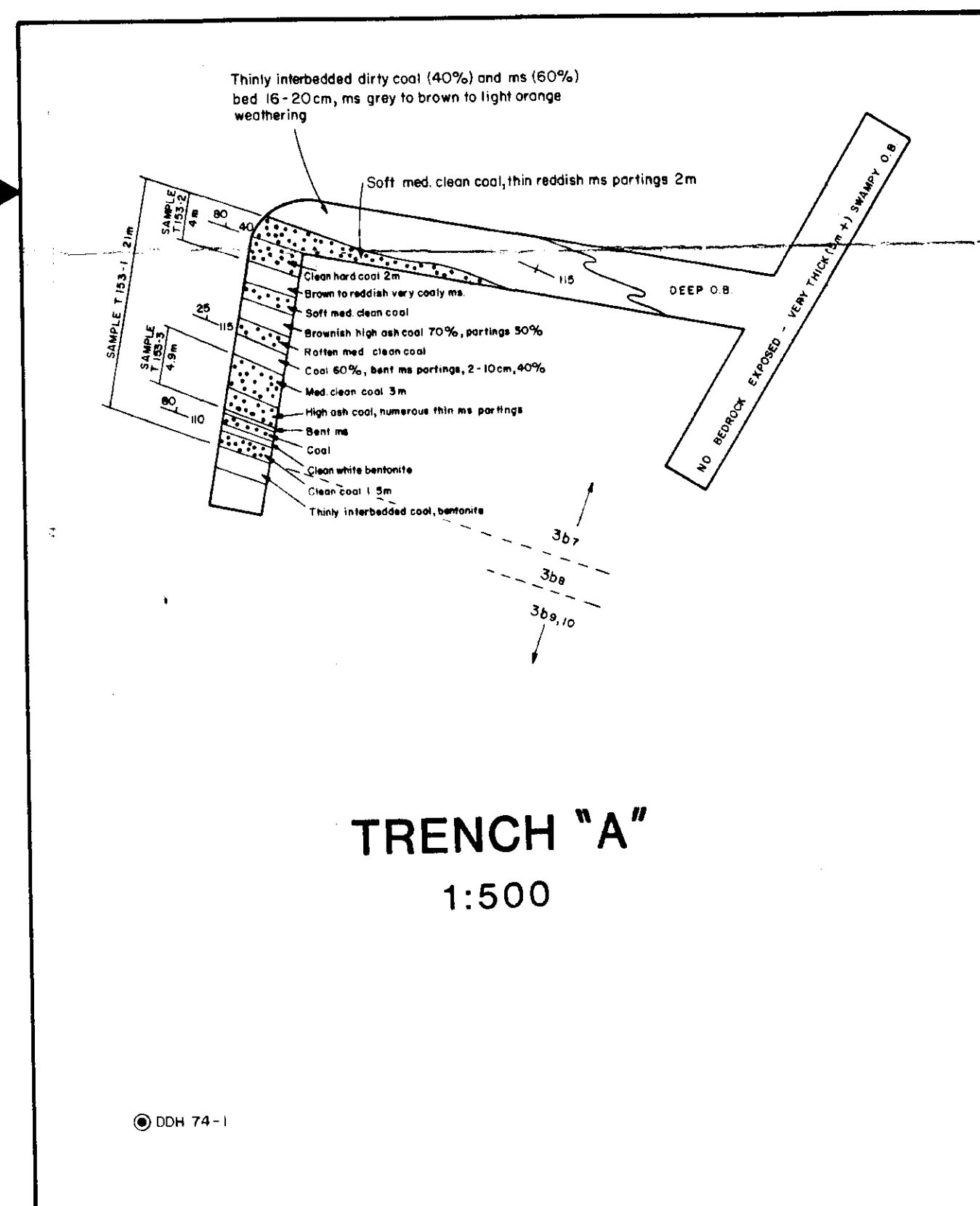
TRENCH "C"
1:500



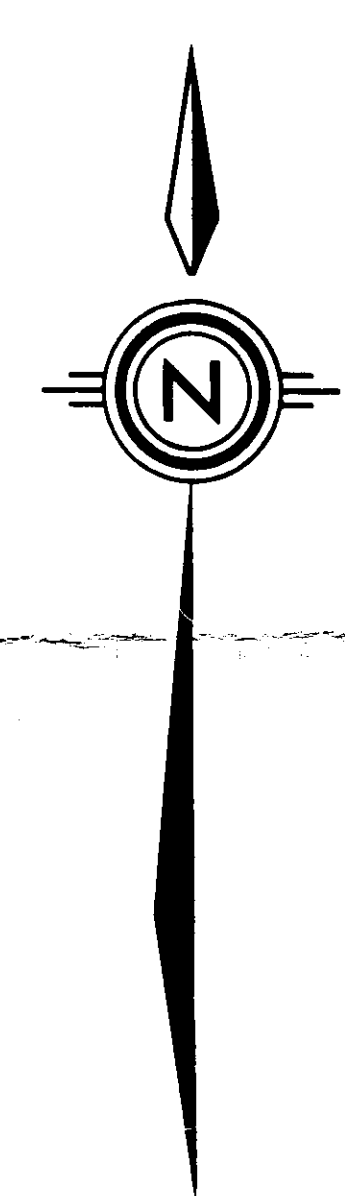
SCALE 1:5000



TRENCH "B"
1:500



TRENCH "A"
1:500



LEGEND

- TERTIARY
- 4 UPPER VOLCANICS
 - Brown to black, fine grained basalt
 - Unconformity
 - 3 COAL-BEARING TERTIARY SEDIMENTS
 - 3c UPPER SANDSTONES
 - 3c2 Granule conglomerate, coarse sandstone, minor shale, mudstone
 - 3c1 Transitional unit, interbedded sandstone, mudstone, minor thin coal
 - 3b COAL MEMBER, Shales, mudstone, luffs, coal
 - 3b10 Blocky breaking mudstone and shales
 - 3b9a Finely laminated, fissile shales
 - 3b9 Interbedded thin dirty coal, bentonite, shales, mudstones
 - 3b7 Main coal seam (including interbedded volcanic horizons)
 - 3b6 Light grey, med grained sandstone, white muddy matrix
 - 3b5 Dark grey, massive, blocky breaking mudstone
 - 3b4 Distinctive color banded, light to dark grey, interbedded shales, mudstones, muddy sandstone
 - 3b3 Mudstone, medium brownish grey to dark grey, massive to medium laminated
 - 3b2 Lower coal seam
 - 3b1 Interbedded fragmental bentonitic luff, thin coal seams, coaly bentonitic mudstone
 - 3a LOWER SANDSTONE, Coarse to fine sandstone, interbedded with mudstone and shale
 - 2 LOWER VOLCANIC, Massive to porphyritic or fragmental, andesitic to felsitic
 - Unconformity
- UPPER TRIASSIC
- 1 NICOLA GROUP, Highly metamorphosed volcanic and sediments
- SYMBOLS
- GEOLOGICAL CONTACT (defined, assumed)
 - BEDDING ATTITUDE
 - FAULT
 - OUTCROP
 - TRENCH
 - DIAMOND DRILL HOLE

- TRENCH LITHOLOGY SYMBOLS
- OVERBURDEN
 - COAL
 - CARBONACEOUS MUDSTONE
 - MUDSTONE and SILTSTONE
 - GRITTY MUDSTONE
 - SANDSTONE
 - CONGLOMERATIC SANDSTONE
 - CONGLOMERATE

201

SM-TULAMEEN 81(2)A

CYPRUS ANVIL MINING CORPORATION	
TULAMEEN COAL PROJECT	
BRITISH COLUMBIA	
1981 BULLDOZER TRENCHING	
COAL LICENCE #153	
NIS. 92-H-7.10 SURVEY BY: T.A. DRAWN BY: V.F.	DATE: AUG. 1981 MAP #1