

92H 7

812347

BULLDOZER TRENCHING REPORT

Coal Licence No. 153

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

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

July 1981

BULLDOZER TRENCHING REPORT

Coal Licence No. 153

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

N.T.S. 92-H-10

Latitude: 49⁰ 31' N

Longitude: 120⁰ 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

July 1981

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 Licen e No. 153 - 1981 Bulldozer Trenching Trench Location (1:5000) and Trench Sketches (1:500)

SYMBOLS

MAIN GEOLOGICAL CONTACTS

1977 DIAMOND DRILL HOLES

LEGEND

Tertiary

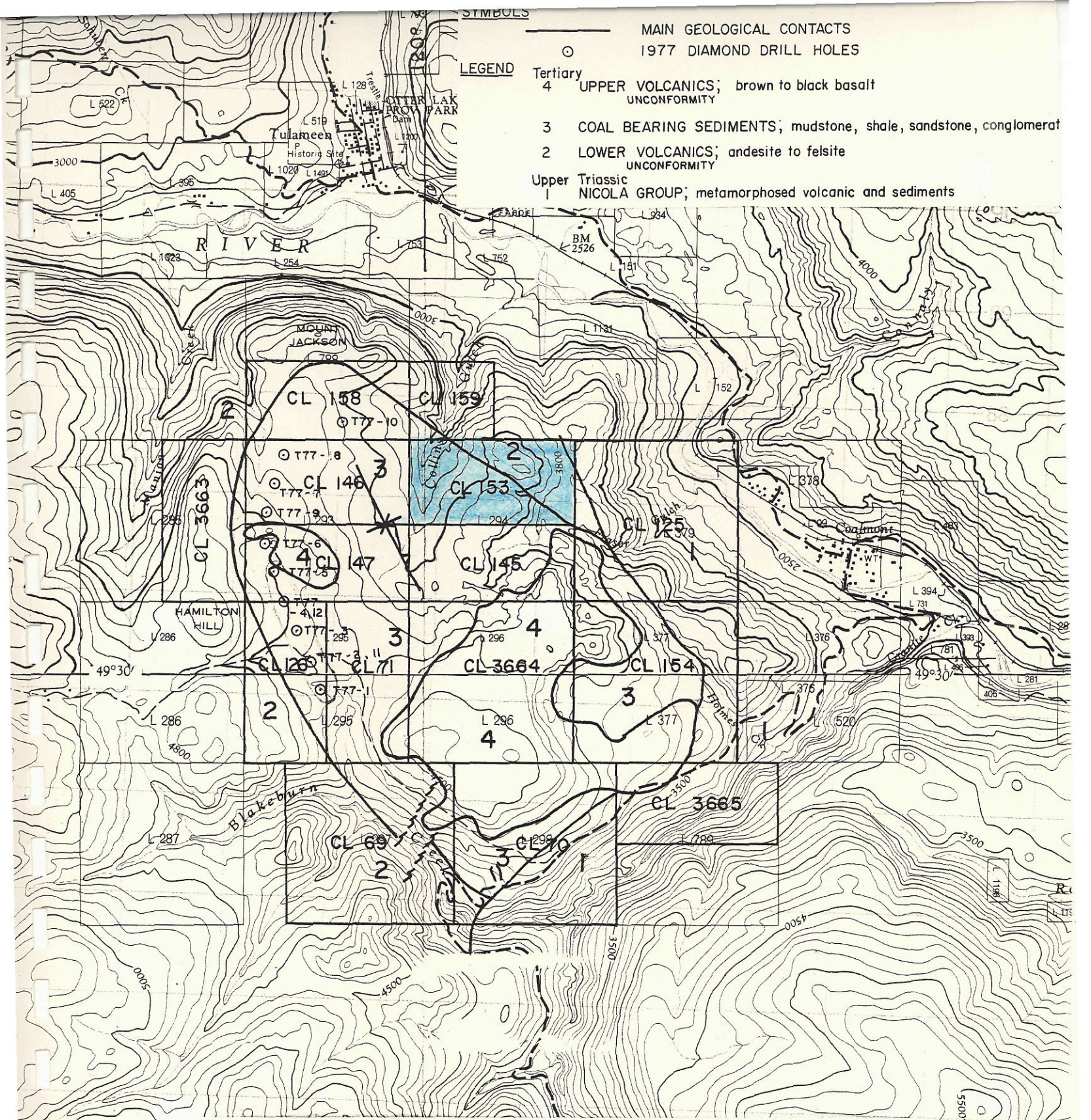
4 UPPER VOLCANICS; brown to black basalt UNCONFORMITY

3 COAL BEARING SEDIMENTS; mudstone, shale, sandstone, conglomerat

2 LOWER VOLCANICS; andesite to felsite UNCONFORMITY

Upper Triassic

1 NICOLA GROUP; metamorphosed volcanic and sediments



CYPRUS ANVIL MINING CORPORATION
 KEY MAP
 TULAMEEN COAL PROJECT

SCALE 1:50,000 ÉCHELLE

NTS 92 H-7,10

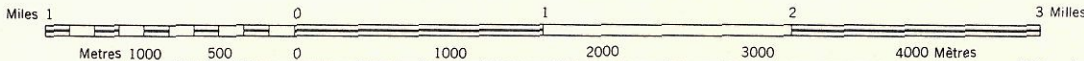


FIG. 1

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.

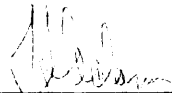
BULLDOZER TRENCHING:

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 7, 1981
Date

APPENDIX I

Statement of Qualifications

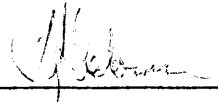
I, Thomas J. Adamson, geologist, with business address at 300 - 355 Burrard Street, Vancouver, British Columbia, and residential address at 3842 West 23rd Avenue, Vancouver, British Columbia, hereby state that:

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

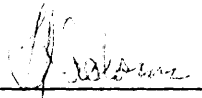
APPENDIX II

Coal Licence No. 153

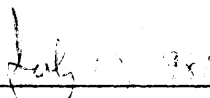
1981 Bulldozer Trenching Cost Statement

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 472 m Width 5 m Depth Cost
Trenching 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 Core samples Bulk samples
Logs: Gamma-neutron Density
*Other (specify)
Testing: Proximity analysis FSI Washability
Carbonization Petrographic Plasticity
*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

July 13, 1981 (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, 1981.

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	
TOTAL			
ADJ. EXTENS.	CODING	TO PAY	POSTED

Tom to [unclear]

2040 - 09

05536

[Handwritten signature]

sandman INNS [

HN

] LTD. PRF 29754

PHONE VANCOUVER 681-2211 FOR RESERVATIONS

NAME T. ADAMSON STREET 300-355 Burrard St

CITY VAN PROV. BC YEAR & MAKE OF CAR FORD 4x4

A.C.T. OR N.W.C.T. NO. CYPRESS ANKIL 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			9.20	16.05	5.50			
TOTAL	26.50	26.50	40.50	36.55	32.00			

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



Thomas Adamson
SIGNATURE

TOTAL \$ 162.05

4510-407-169-600

10 407 169 600

09/81 VISA

THOMAS ADAMSON

SANDMAN, INN.
932050708IPRINC.
2052106826 ETOM
237 685

051881 5 510

CHARGES SALES DRAFT - FACTURE

Thomas Adamson

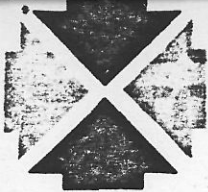
<u>162.05</u>	AMOUNT MONTANT
<u>---</u>	TAX TAXE
<u>---</u>	TIPS POURBOIRE
<u>162.05</u>	\$ CDN CAN

AUTHORIZATION NO. - NO D'AUTORISATION
 BILL NO. DE NOTE CLERK - COMMIS
 DATE M / D / Y-A

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 DÉTENTEUR DE CARTE PAIERA À LA BANQUE QUI A ÉMIS LA CARTE ICI PRÉSENTÉE LE MONTANT INDICUÉ CI-DESSUS, CONFORMÉMENT AUX CONDITIONS RÉGISSANT L'ÉMISSION DE CETTE CARTE AVEC LA BANQUE ÉMETTRICE.

CUSTOMER COPY - COPIE DU CLIENT





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 Cypress Anvil Mining Co. (LESSEE)

ADDRESS 300 355 Burrard St

CITY Vancouver B.C.

P.O. NO. THE LESSEE AGREES THAT THE FOLLOWING VEHICLE TYPE OF VEHICLE 4x4 70.1 UNIT NO. 160159.

IS TO BE USED IN OR BETWEEN Van/Privato-1/Rt 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	25271	DATE IN	MAY 25 1981	TIME IN	5:00 PM
MILES/KM OUT	23724	DATE OUT	MAY 14 1981	TIME OUT	11:00 AM
MILES/KM RUN	1547	TOTAL DAYS	9	TOTAL HOURS	
MILES/KM ALLOWED		UNIT NO.	160159.		
EXTRA MILES/KM					

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

\$100.00 LIABILITY
BY SIGNING, LESSEE AGREES TO PAY THE OWNER FOR ALL LOSS OR DAMAGE TO VEHICLE LIMITED. HOWEVER, TO \$100.00 PER ACCIDENT. PROVIDED VEHICLE IS OPERATED OR USED IN CONFORMITY WITH RENTAL AGREEMENT BUT RENTER 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.

\$1,000 LIABILITY
BY SIGNING, LESSEE AGREES TO PAY THE OWNER FOR ALL LOSS OR DAMAGE TO VEHICLE LIMITED. HOWEVER, TO \$1,000.00 PER ACCIDENT. PROVIDED VEHICLE IS OPERATED OR USED IN CONFORMITY WITH RENTAL AGREEMENT BUT RENTER 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.

LESSEE SIGNATURE: [Signature]

MONTHS @	MONTH	
1 WEEKS @ 240 ⁰⁰	WEEK	240.00
2 DAYS @ 48 ⁰⁰	DAY	96.00
1547 MILES/KM @ 17 ⁰⁰	MILES/KM	26299

OTHER TAXABLE ONLY		
SUB TOTAL	445	598.99
S.S. TAX 6%	324	3594

- 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.

MECHANICAL	447.0	
DAMAGE (ESTIMATE ATTACHED)	447.A	
TIRES	447.B 5-	
TOTAL	224.95	

I/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.

INITIALS	P.A.I. INSURANCE /DAY	446
	CARGO INSURANCE /DAY	446
	COLLISION DAMAGE LIABILITY WAIVER 10 ⁰⁰ DAY	446
	TOTAL CASH	2001
	CHARGE	47347

LESSEE'S SIGNATURE	DEPOSIT PAID				
<u>[Signature]</u>	DATE	INITIAL	AMOUNT	CASH	C.C.
DRIVER'S SIGNATURE					
<u>Thomas Adams</u>		<u>CAJL</u>			

DRIVER'S LICENSE NO. 1007880 EXPIRY DATE 85 PROVINCE BC

BUSINESS PHONE LESSEE'S PHONE SIGNATURE OF AUTHORIZED AGENT [Signature] BALANCE OWING

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

- TISH OMBRIA
- FORT ST. JOHN
- PR. GEORGE
- VERNON
- YUKON
- ALBERTA
- LETHBRIDGE
- SASKATCHEWAN
- ST. J. RD
- KAMLOOPS
- QUESNEL
- VICTORIA
- DAWSON CITY
- CALGARY
- LLOYDMINSTER
- REGINA
- REMIT TO:
- INBROOK
- KELOWNA
- REVELSTOKE
- VANCOUVER
- MAVO

CYPRUS ANVIL

Cyprus Anvil Mining Corporation

DATE	INVOICE NUMBER	GROSS	DISCOUNT	DATE	INVOICE NUMBER	GROSS	DISCOUNT
15 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

PAID TO THE ORDER OF

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

CHEQUE NUMBER	DATE
22327	11 JUN 81

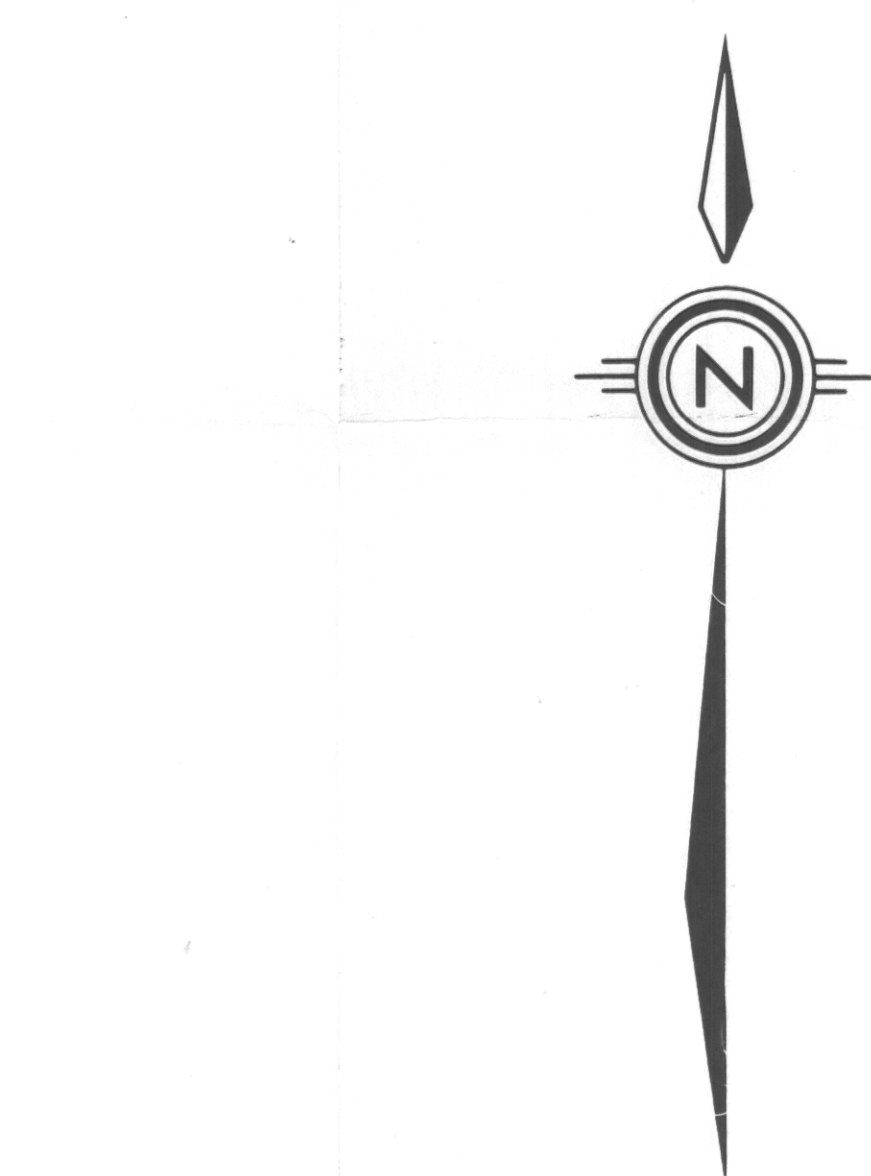
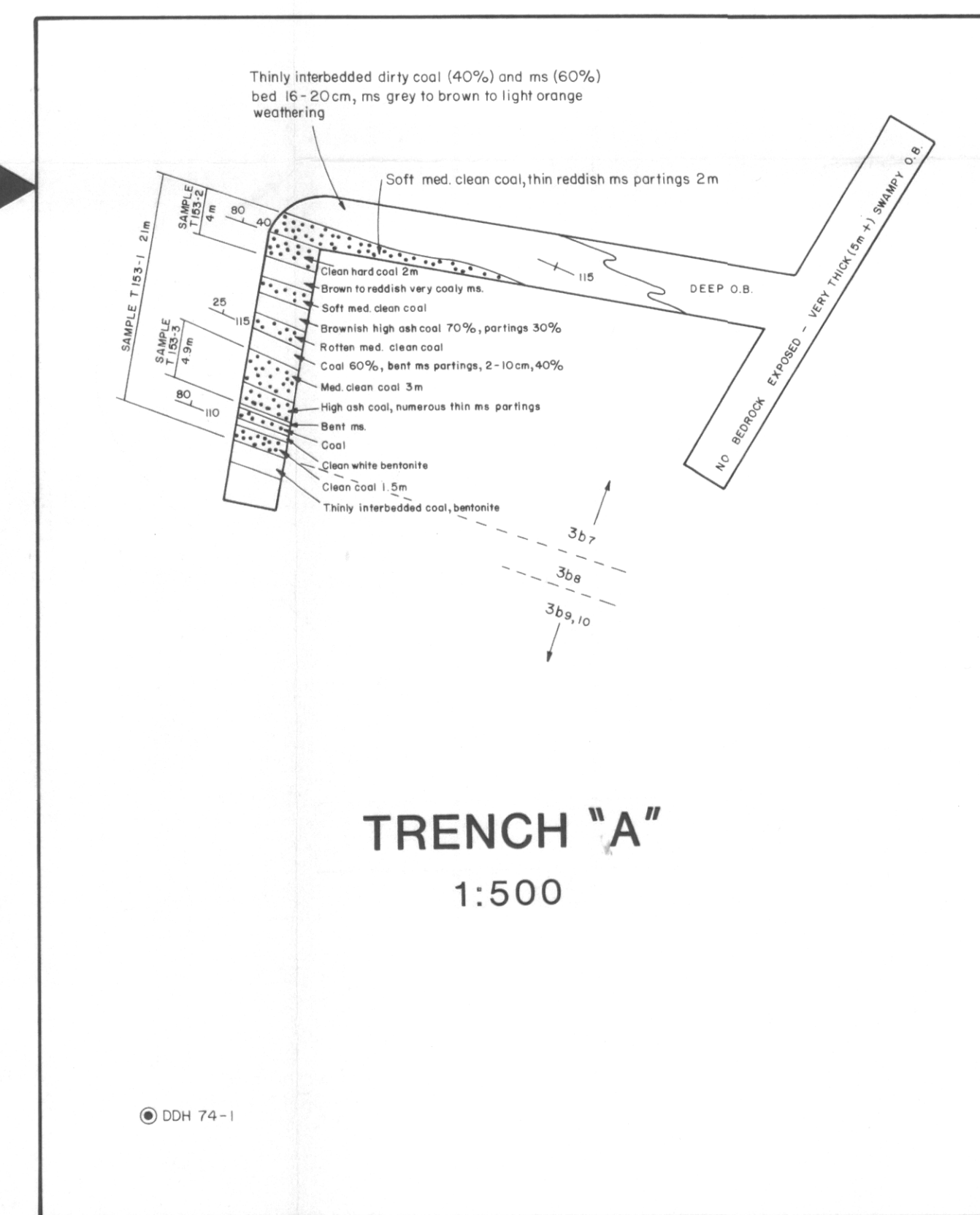
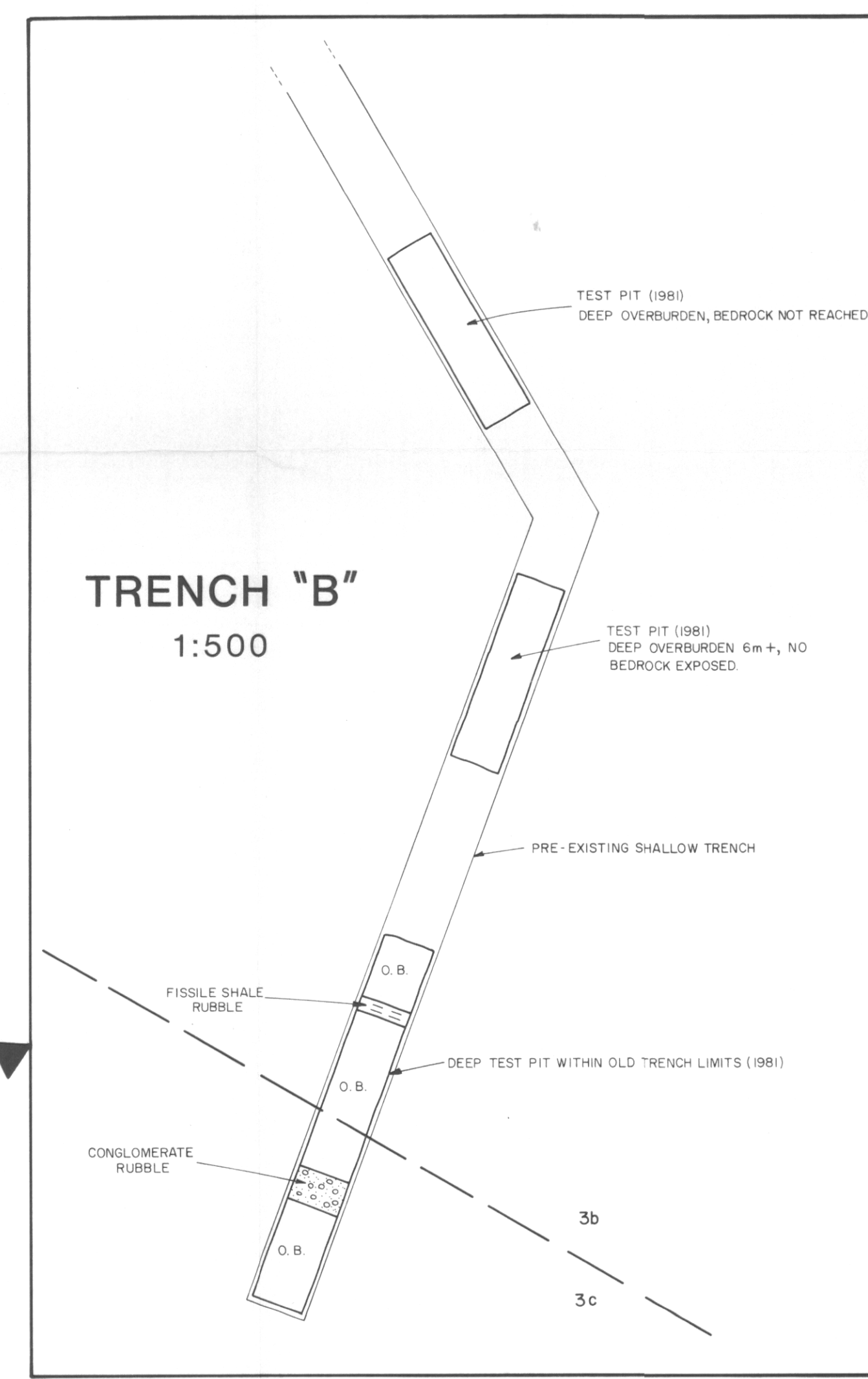
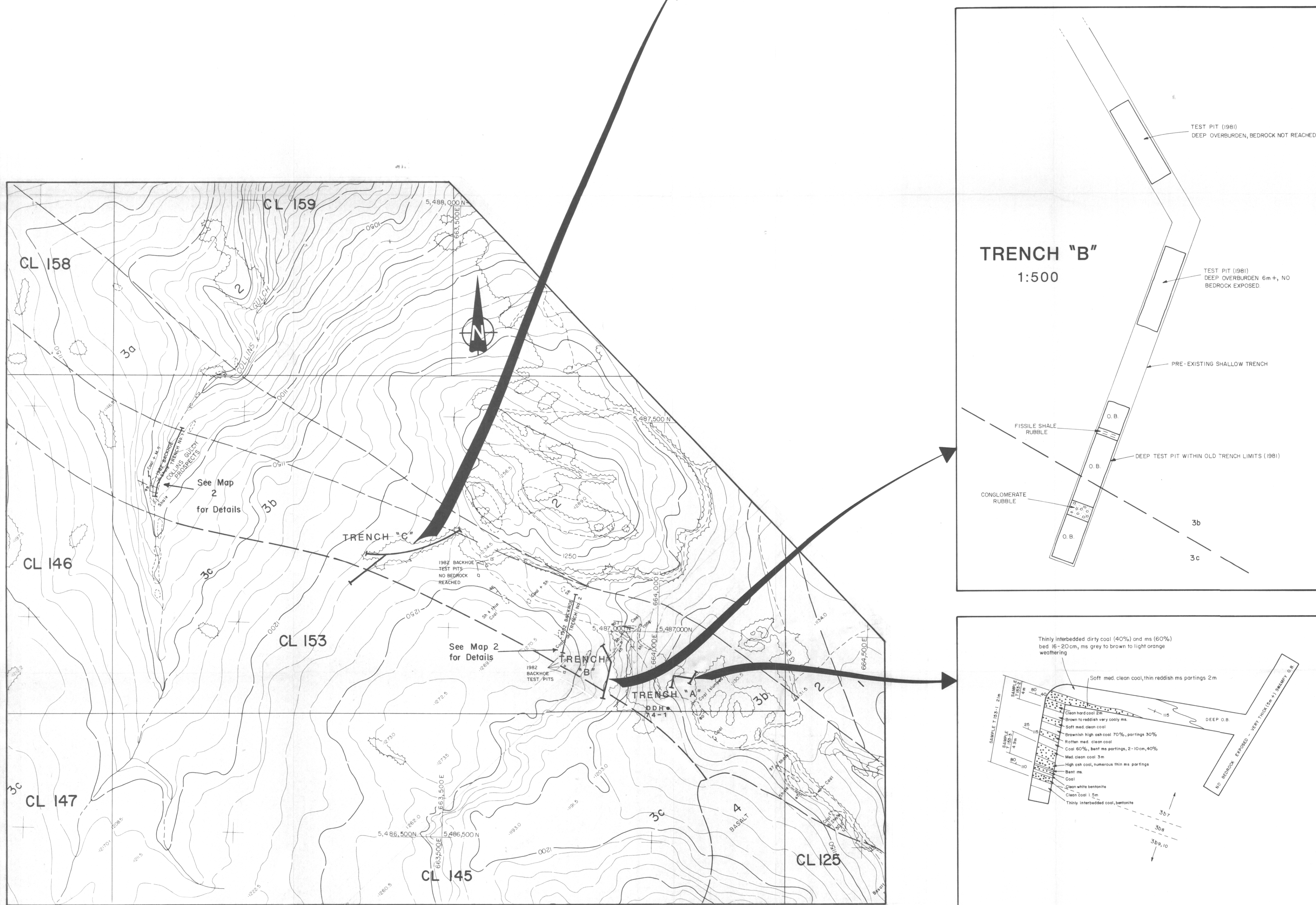
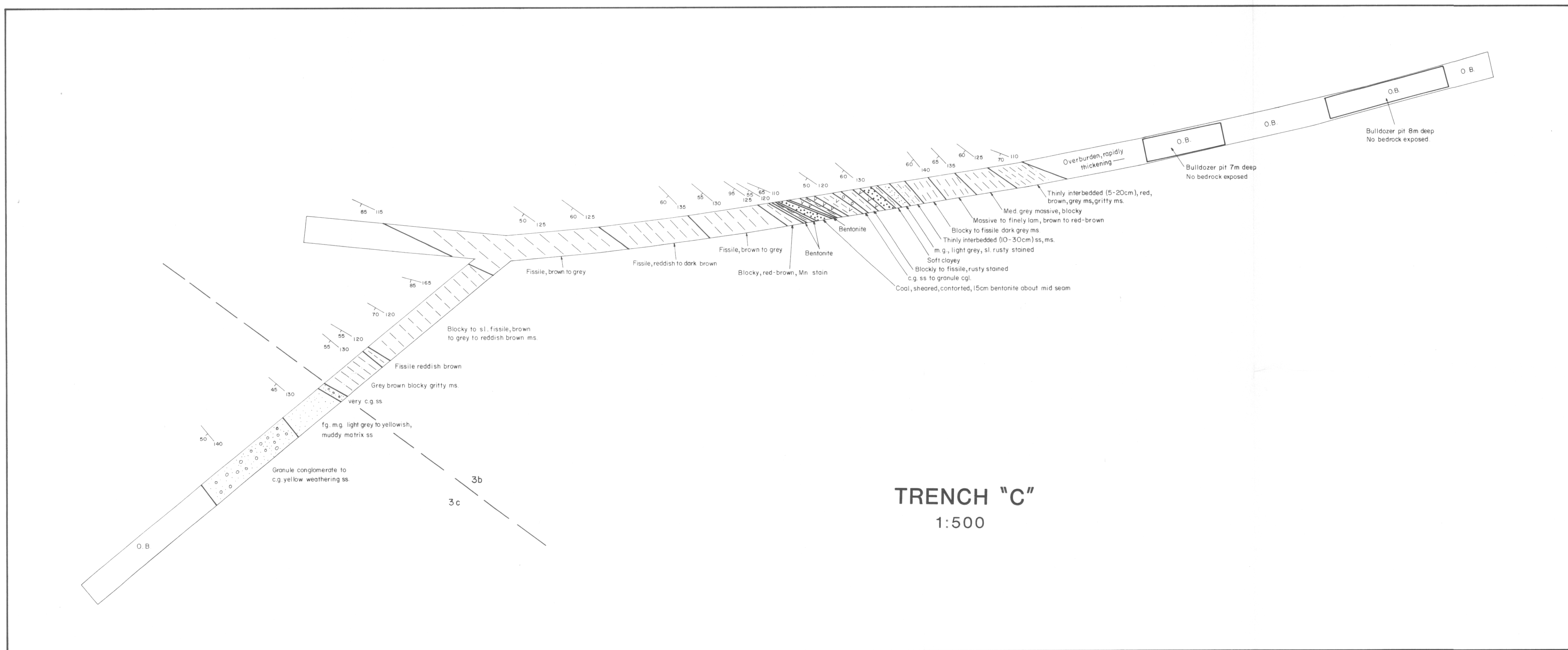
PROTECTED AMOUNT	AMOUNT
*****724.93	*****724.93

Cyprus Anvil Mining Corporation

THE TORONTO-DOMINION BANK
839 WEST HASTINGS, VANCOUVER, B.C. V6C 1C5

**GENERAL
ACCOUNT**

NOT NEGOTIABLE



LEGEND

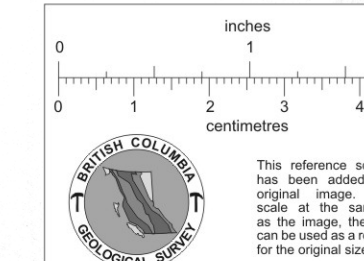
TERTIARY	4	UPPER VOLCANICS	Brown to black, fine grained basalt
			Unconformity
	3	COAL-BEARING TERTIARY SEDIMENTS	
		3c	UPPER SANDSTONES
		3c2	Granule conglomerate, coarse sandstone, minor shale, mudstone
		3c1	Transitional unit, interbedded sandstone, mudstone, minor thin coal
		3b	COAL MEMBER: Shales, mudstone, tufts, coal
		3b0	Blocky breaking mudstone and shales
		3b1	Finely laminated, fissile shales
		3b2	Interbedded thin dirty coal, bentonite, shales, mudstones
		3b3	Main coal seam (including interbedded volcanic horizons)
		3b4	Light grey, med grained sandstone, white muddy matrix
		3b5	Dark grey, massive, blocky breaking mudstone
		3b6	Distinctive color banded, light to dark grey, interbedded shales, mudstones, muddy sandstone
		3b7	Mudstone, medium brownish grey to dark grey, massive to medium laminated
		3b8	Lower coal seam
		3b9	Interbedded fragmental bentonitic tuft, 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	▦
CONGLOMERATE SANDSTONE	▤
CONGLOMERATE	▥



CYPRUS ANVIL MINING CORPORATION
TULAMEEN COAL PROJECT
 BRITISH COLUMBIA
 1981-1982 TRENCHING
 COAL LICENCE # 153

NTS. 92-H-7, 10
 SURVEY BY: T. A.
 DRAWN BY: V. F.

DATE: AUG. 1981, AUG. 1982
 MAP # 1