

84-1001-13503

REPORT ON  
DIAMOND DRILLING

GEOLOGICAL BRANCH<sup>by</sup>  
ASSESSMENT REPORT<sup>by</sup> Sutherland

13,503<sup>on the</sup>  
At 2 Mineral Claims

situated north of Metsantan Lake  
in the Liard Mining Division

57°28'N, 127°24'W  
NTS 94E/6W

owned by  
KIDD CREEK MINES LTD.

work by  
KIDD CREEK MINES LTD.

October, 1984

Vancouver, B.C.

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## **INTRODUCTION**

### **Location, Access and Terrain**

The A1 property is located east of the Stikine River and directly north of Metsantan Lake, in north-central British Columbia (Figure 1). The nearest supply and transportation centres are Smithers, some 300 km due south, and Watson Lake in the Yukon, some 300 km to the north.

Access to the claims is by a combination of fixed wing aircraft from Smithers or Watson Lake to the Sturdee Valley airstrip 30 km southeast of the property, and local helicopter charter thereafter. Float equipped aircraft can also land at Metsantan Lake. There is no road access although it has been suggested that the Omineca mining road to the south may be extended into the Toodoggone River area in the future.

The claims are located near the eastern margin of the Spatsizi Plateau and cover a subdued ridge of gentle to moderate relief with elevations ranging from 1400 m to 1690 m (Figure 2). The lowermost parts of the property are covered by an intermixed growth of spruce, and scrub willow (below 1500 m). Extensive areas of alpine grassland, occurring above 1600 m, make for easy foot travel. Water supplies may become scarce at all but the lowest elevations during midsummer.

### **Property History and Definition**

The area was originally staked by Sumac Mines Ltd. in 1971 for its porphyry copper potential. The claims were allowed to lapse after several seasons fieldwork. Rising prices for both gold and silver and close proximity to the Chappelle and Lawyers deposits prompted Energex Minerals Ltd. to stake the A1 1-4 claims in 1979. In 1980 these claims were optioned to Texasgulf Canada Ltd. (now Kidd Creek Mines Ltd.). The remaining claims in the Bull group were staked in 1980 and '81. Work described in this report was undertaken by Kidd Creek Mines Ltd., the registered owner of the claims.

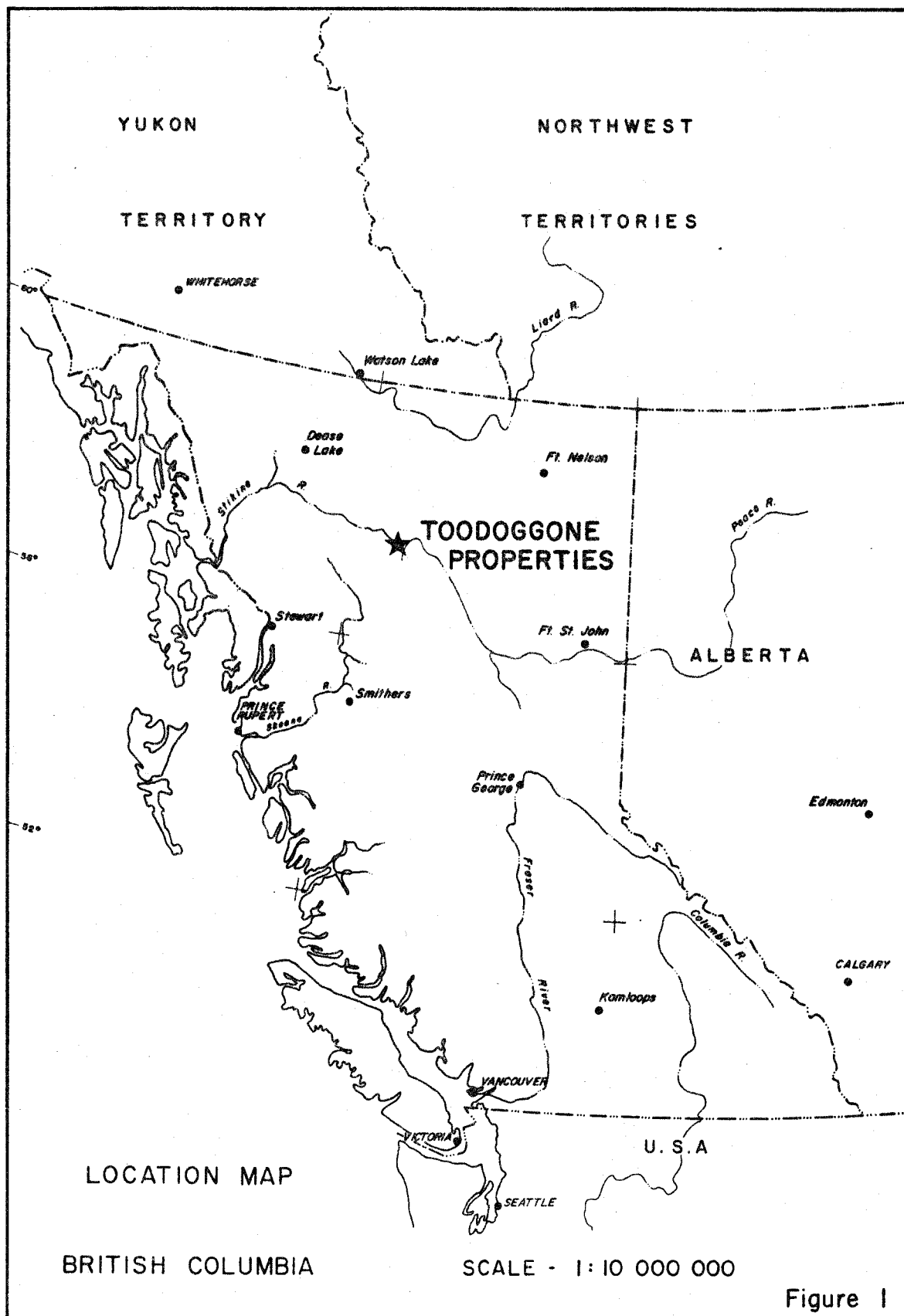
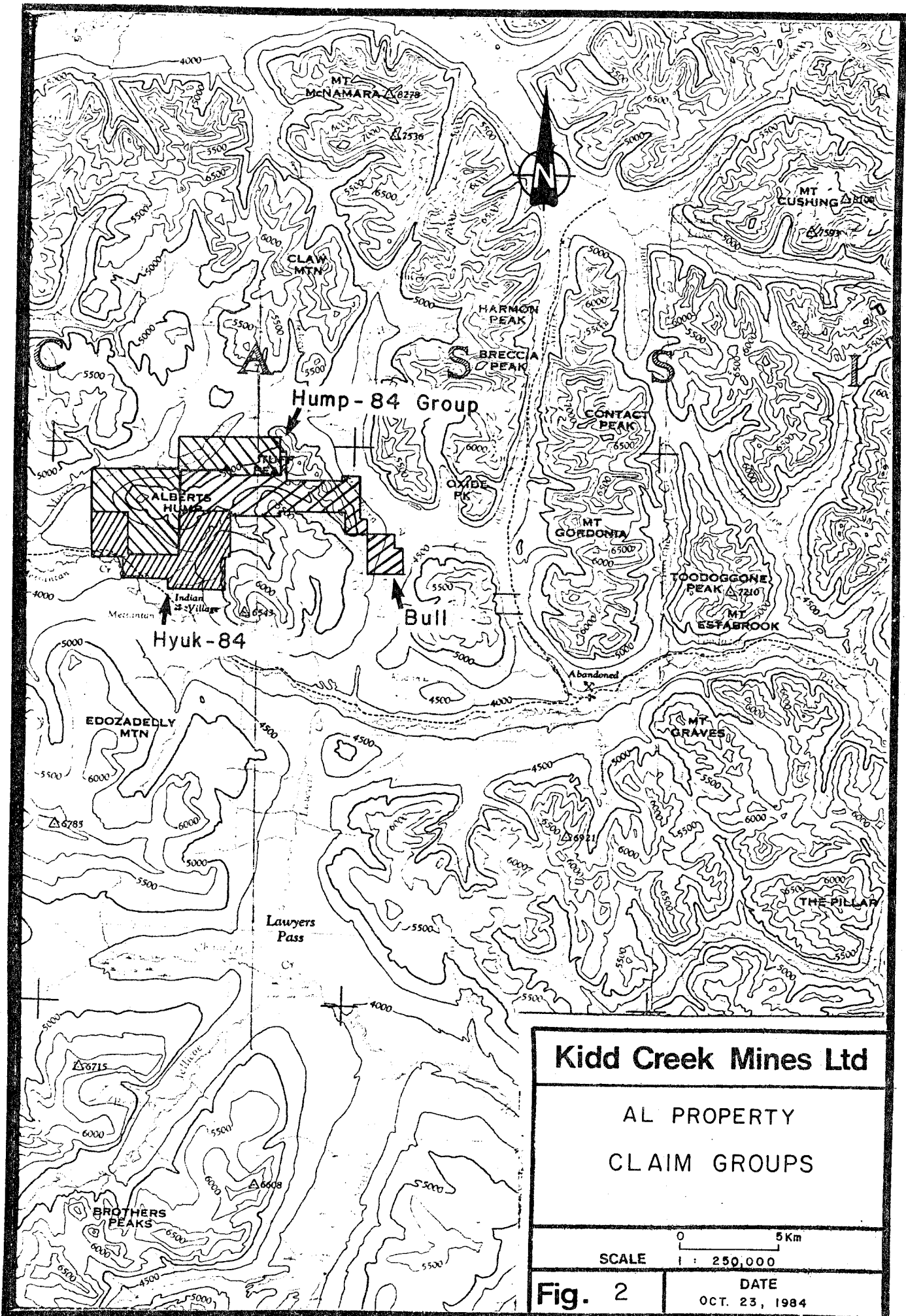


Figure 1



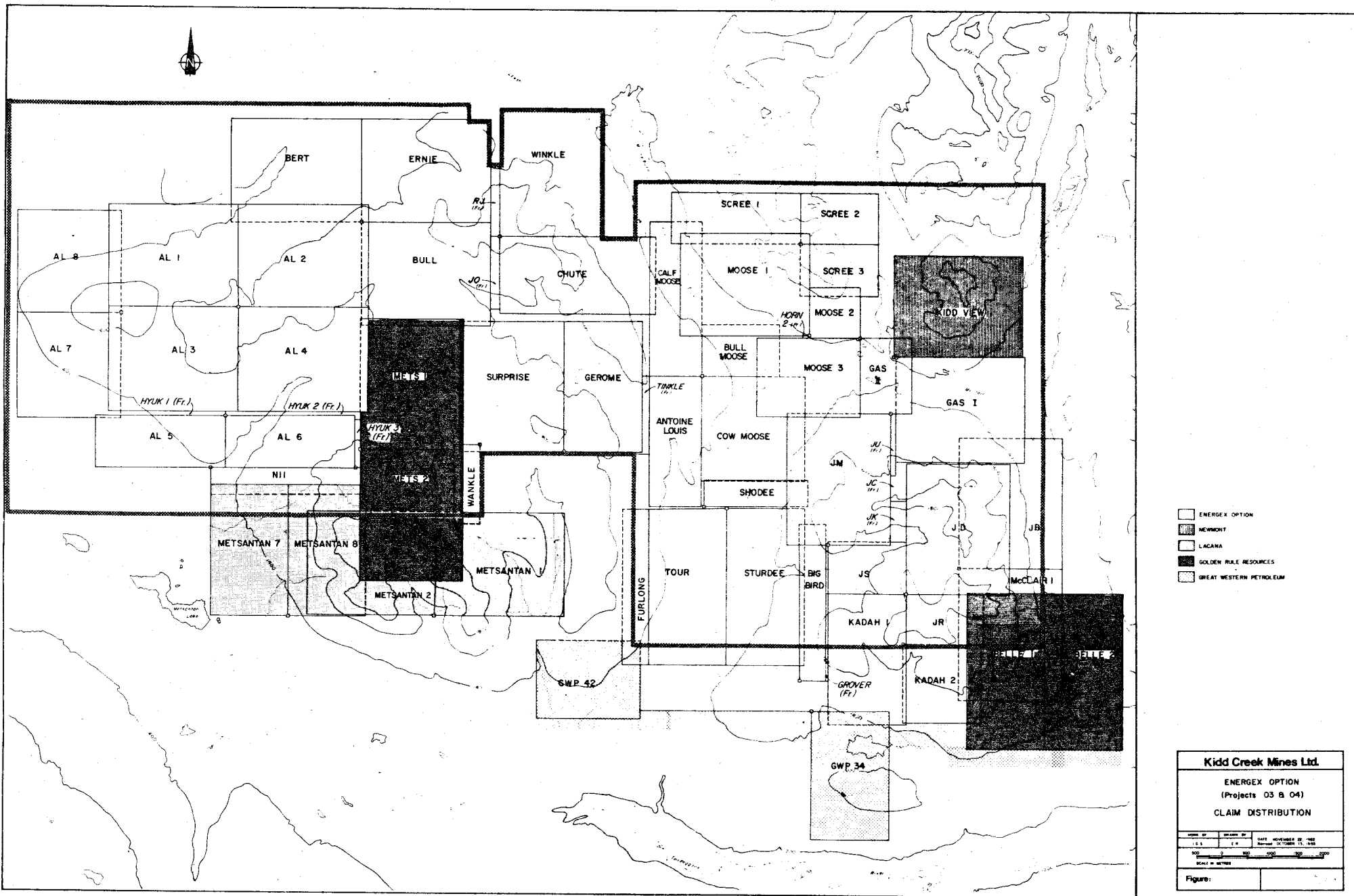
**Kidd Creek Mines Ltd**

AL PROPERTY  
CLAIM GROUPS

SCALE 1 : 250,000

**Fig. 2**

DATE  
OCT. 23, 1984



- ENEREX OPTION
- NEWMONT
- LACANA
- GOLDEN RULE RESOURCES
- GREAT WESTERN PETROLEUM

**Kidd Creek Mines Ltd.**

ENEREX OPTION  
(Projects 03 & 04)  
CLAIM DISTRIBUTION

DRAWN BY	REVISED BY	DATE APPROVED BY
T.S.	E.H.	NORTH OCTOBER 11, 1983
SCALE IN METERS		
Figure: _____		

The Bull Group consists of 5 MGS claims totalling 86 units and 2 fractional claims (2 units). Figures 2 and 3 indicate the claim positions and group boundaries.

### Summary of Work Completed

#### Diamond Drilling

During the period June 13 to June 21, 1984, 5 N.Q. diamond drill holes, totalling 223.47 m, were completed on the A1 2 M.C. All core was cut and sampled and analysed for Au and Ag.

#### Work Distribution

All work was done on the A1 2 M.C., part of the Bull claim group.

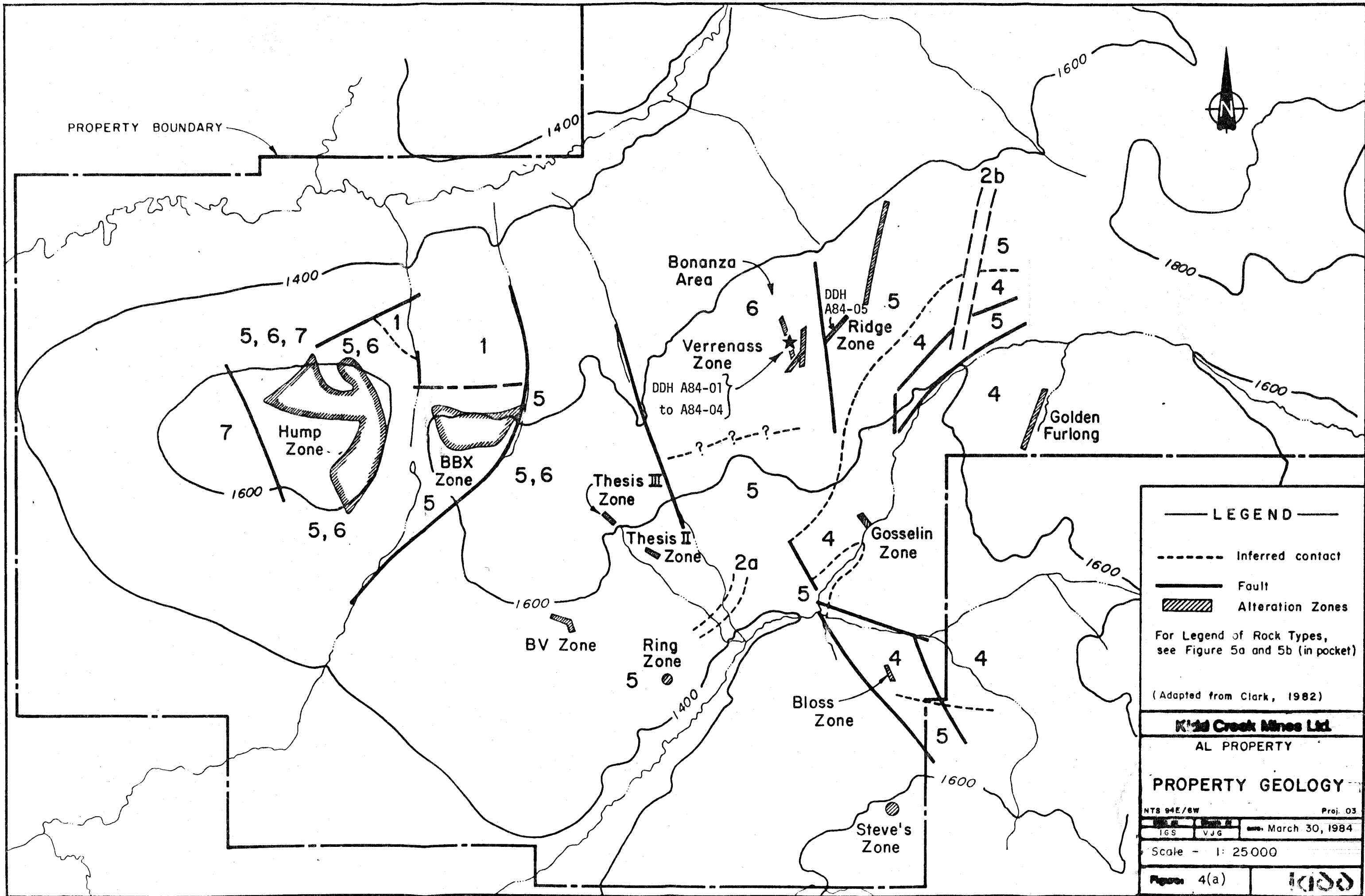
### GEOLOGY

The property is underlain by a thick succession of primarily dacitic to andesitic crystal and crystal-lapilli tuffs, tuff-breccias, flows and associated hypabyssal phases. These rocks belong to the 'Toodoggone Volcanics' of Jurassic age. A more complete description of the geology can be found in previously submitted assessment reports (Sutherland, 1983; Sutherland and Clark, 1982). The relevant portions of the property showing the approximate drill hole locations, are illustrated in Figures 4a, 4b and 4c.

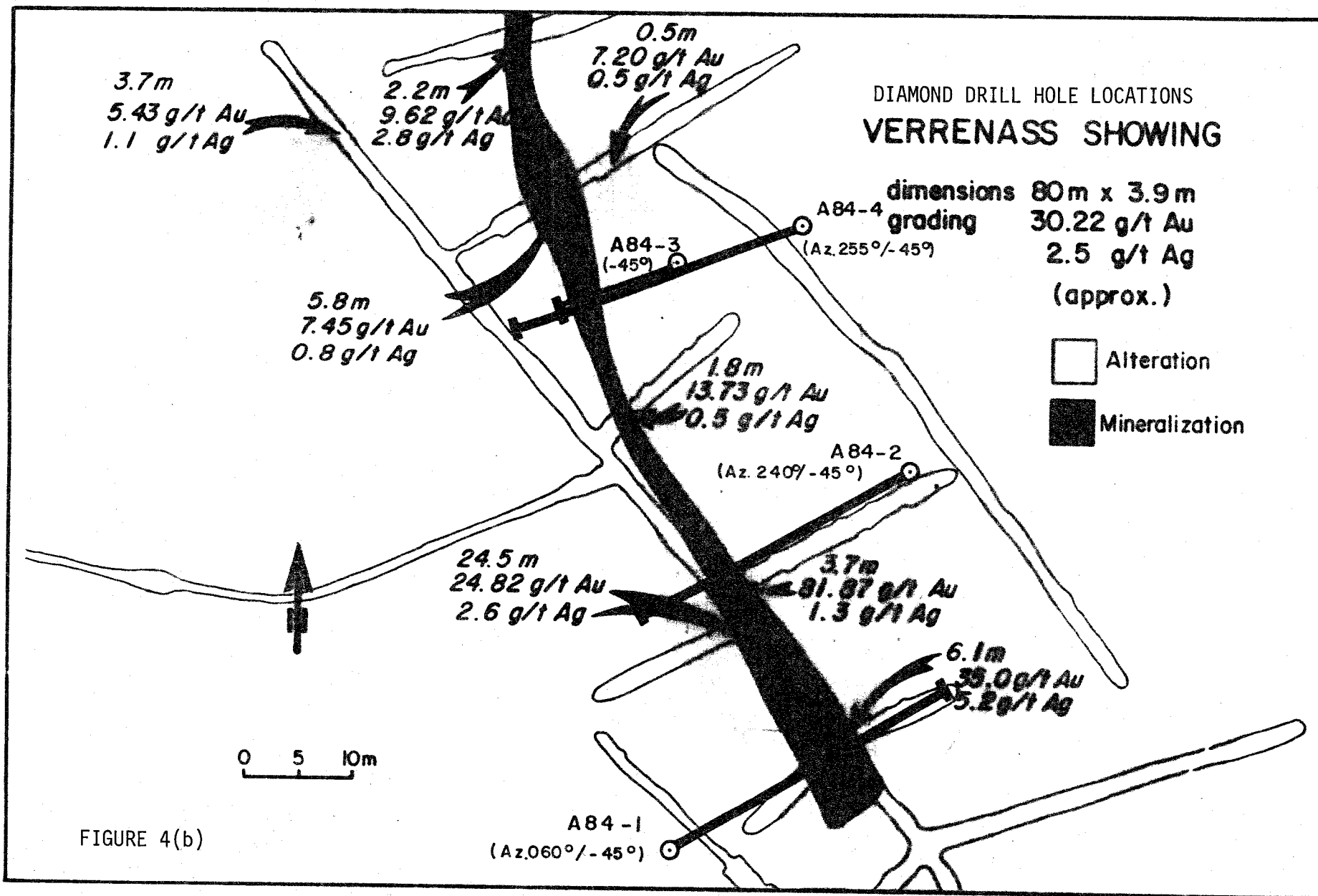
### DIAMOND DRILLING

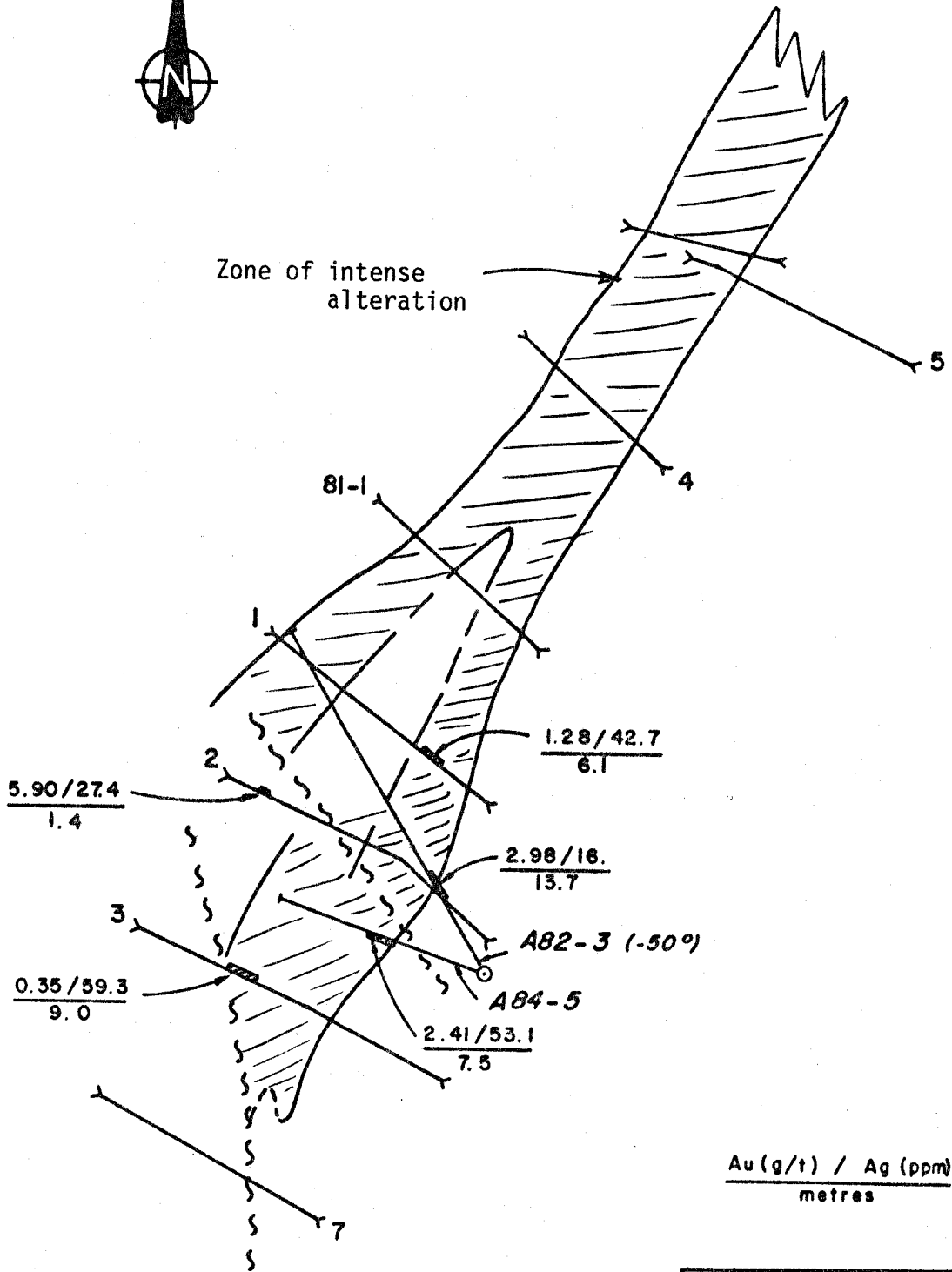
This report presents the results of five diamond drill holes completed in 1984 on the A1 2 M.C. Orientation and depth of the holes are listed below: (see Figures 4a, 4b and 4c):

<u>D.D.H.</u>	<u>Azimuth</u>	<u>Dip</u>	<u>Depth</u>
A84-1	060°	-45°	38.71 m
A84-2	240°	-45°	41.15 m
A84-3	225°	-45°	17.37 m
A84-4	225°	-45°	38.40 m
A84-5	290°	-42°	87.84 m









**Kidd Creek Mines Ltd.**

AL PROPERTY  
RIDGE ZONE  
DIAMOND DRILL HOLE LOCATION  
NTS 94E/6W Proj. 03

WORK BY	DRAWN BY	DATE
	ER	OCT 17/1984

0 50  
SCALE 1 : 2000

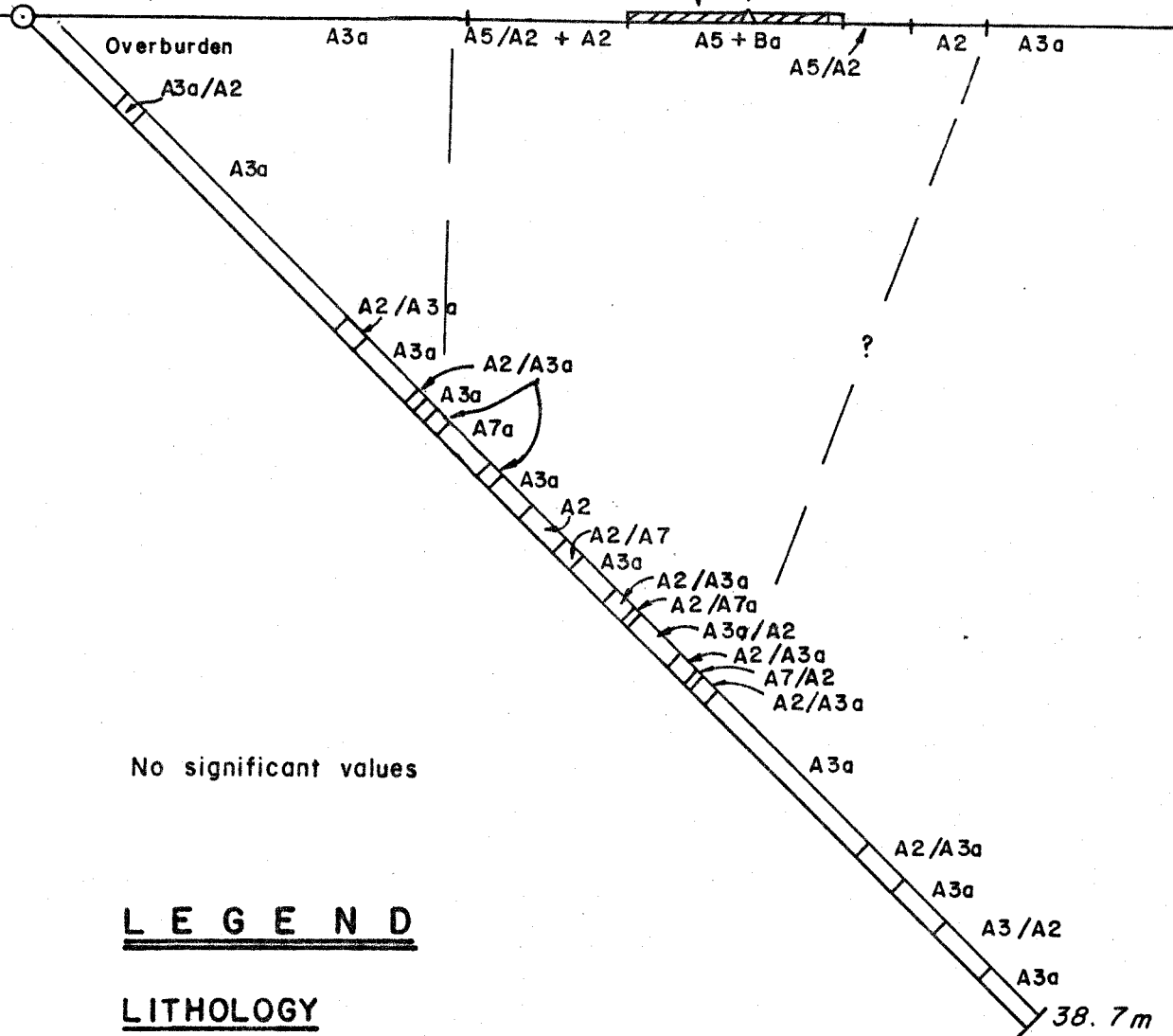
Figure: 4(c)

DDH A84 - 01

Az. 060° -45°

35.0 / 5.20  
6.10

centre of Verrenass Zone



No significant values

**LEGEND**

**LITHOLOGY**

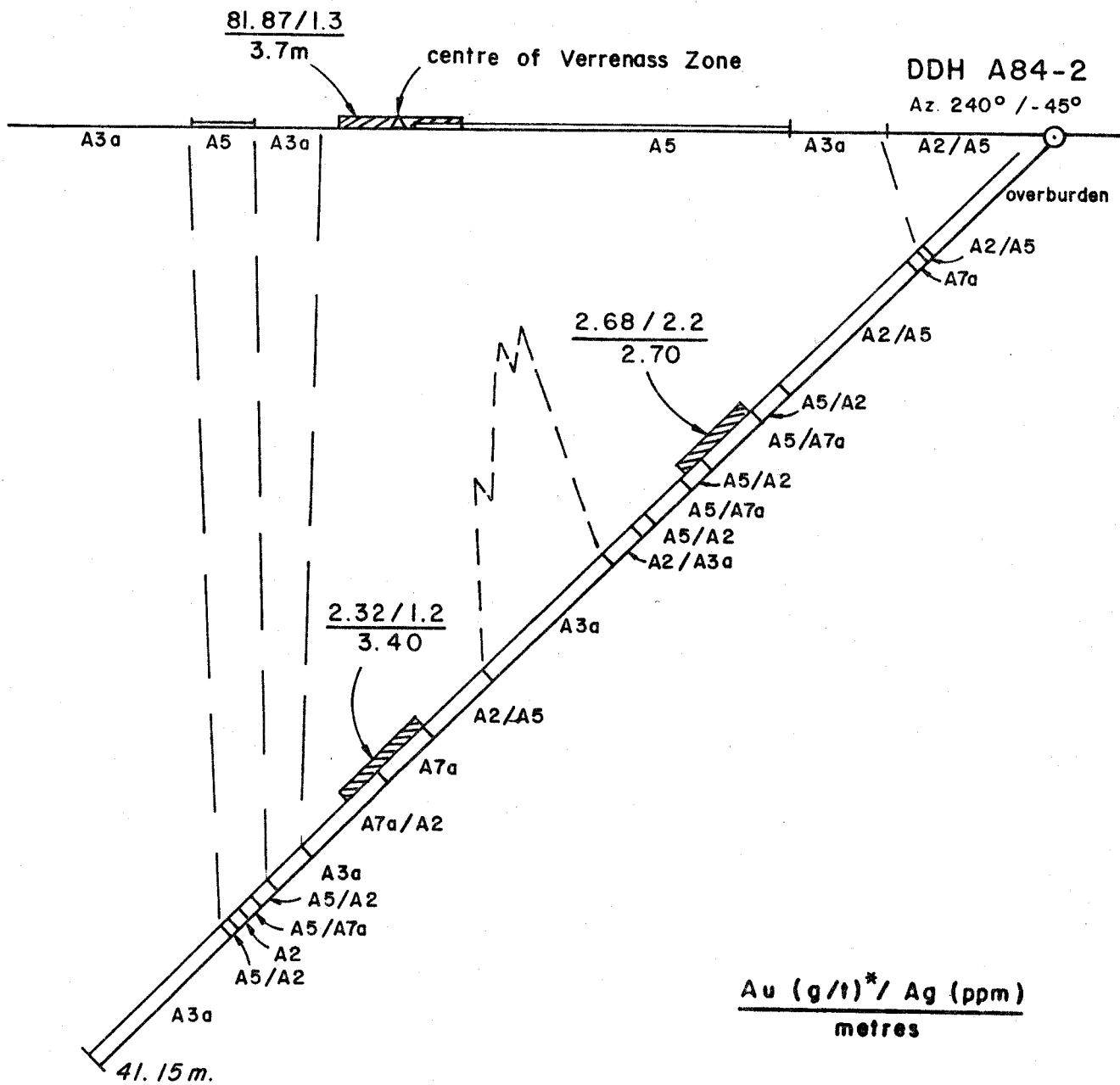
Altered dacite ash flow

**ALTERATION**

- A3, A3a, A3b - propylitic
- A2 - argillic
- A5 - silicification
- A6 - silicification + hematite
- A7, A7a - silicification + pyrite

Au (g/t) / Ag (ppm)  
metres

<b>Kidd Creek Mines Ltd.</b>		
AL PROPERTY		
DDH A84-01		
NTS 94E/6W		Proj. 03
WORK BY	DRAWN BY	DATE: OCT. 11, 1984
	ER	
 SCALE 1: 200		
Figure:		



Au (g/t)\* / Ag (ppm)  
metres

**LEGEND**

**LITHOLOGY**

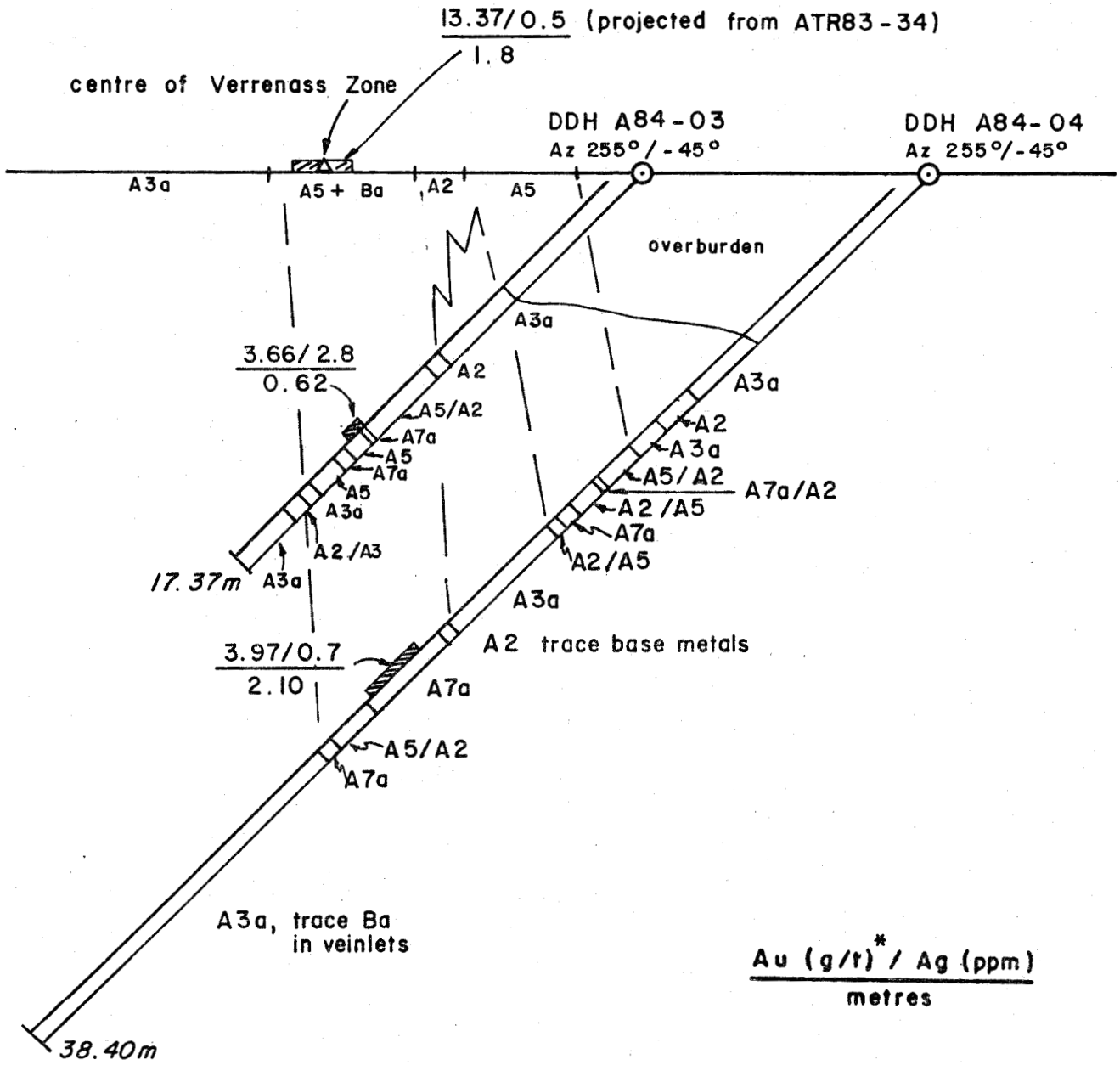
Altered dacite ash flow

**ALTERATION**

- A3, A3a, A3b - propylitic
- A2 - argillic
- A5 - silicification
- A6 - silicification + hematite
- A7, A7a - silicification + pyrite

\*(may include some geochemical values)

<b>Kidd Creek Mines Ltd.</b>		
AL PROPERTY		
DDH A84-2		
NTS 94 E / 6W		Proj. 03
WORK BY	DRAWN BY	DATE: OCT. 12, 1984
	ER	
 SCALE 1 : 200		
Figure:		



**LEGEND**

**LITHOLOGY**

Altered dacite ash flow

**ALTERATION**

- A3, A3a, A3b - propylitic
- A2 - argillic
- A5 - silicification
- A6 - silicification + hematite
- A7, A7a - silicification + pyrite

\*(may include some geochemical values)

<b>Kidd Creek Mines Ltd.</b>		
AL PROPERTY		
DDH A84-03, A84-04		
NTS 94 E/6W		
WORK BY	DRAWN BY	DATE: JUNE 26/84
ER		
0		5 m
SCALE 1 : 200		
Figure:		

Summary logs and geochemical results are included together in Appendix C. The core is stored in camp on the Moose 3 M.C.

The holes were drilled to test the down dip extent of known surface mineralization exposed in trenches and to clarify the geometry of the alteration zones hosting mineralization.

### GEOCHEMISTRY

Drill core was routinely cut and sampled, the standard sample interval being approximately 0.5 m. Changes in alteration and/or lithology influenced this sample interval considerably. A total of 117 samples were shipped to CDN Resource Laboratories Ltd. in Delta, B.C.; 70 of these were analysed geochemically for Au and Ag. An additional 47 samples were also analysed by fire assay for Au and Ag.

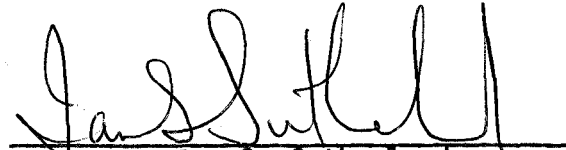
A summary of the extraction and analytical techniques for these metals follows:

<u>Element</u>	<u>Extraction</u>	<u>Analysis</u>
Au	Hot Aqua Regia	Atomic Absorption
Ag	Nitric acid	Atomic Absorption

### CONCLUSIONS

Results on drill holes A84-01 to A84-04 indicated that the Verrenass zone changes dramatically from silicified (leached) rocks with abundant barite and important gold values at surface (see Sutherland, 1984) to a pyritic system at depth, characterized by mixed silicification and argillization and by low gold values. The apparent feeder structure dips steeply to the east to subvertically. The surface mineralization is obviously less than 15 m in thickness, indicating that this is not an economic deposit.

Drill hole A84-05 intersected almost identical alteration and mineralization to that encountered in 1982 in hole A82-3 (see Sutherland, 1982(b)). Because mineralization was not more encouraging than in earlier drilling, the Ridge zone is also considered economically unviable at present.

  
\_\_\_\_\_  
Ian G. Sutherland

### BIBLIOGRAPHY

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- SCHROETER, T.G. 1982. Toadoggonne River (94E) in Geological Fieldwork 1981. British Columbia Department of Energy, Mines and Petroleum Resources, Victoria, pp. 122-123.
- SUTHERLAND, I.G. 1982(a). Assessment report for examination of trenches on the A1 2 and Bull M.C. Report submitted for assessment work credit to the British Columbia Ministry of Energy, Mines and Petroleum Resources, Victoria, May, 1982.
- SUTHERLAND, I.G. 1982 (b) Assessment report on diamond drilling on the A1 2 M.C. Report submitted for assessment work credit to the British Columbia Ministry of Energy, Mines and Petroleum Resources, Victoria; November, 1982.
- SUTHERLAND, I.G. and CLARK, J.R. 1982. Assessment report for geological and geochemical surveys done on the A1 1-6 M.C. Report submitted for assessment work credit to the British Columbia Ministry of Energy, Mines and Petroleum Resources, Victoria, April 1982.



APPENDIX A

Statement of Qualifications

## APPENDIX A

### Statement of Qualifications

#### I.G. Sutherland - Geologist

I. G. Sutherland holds a B.Sc. (Hons) Degree in Geology from the University of Western Ontario, granted in 1976. Since that time he has held several positions in Industry and Government, and has been employed by Kidd Creek Mines Ltd. in Vancouver since March 1981.

**APPENDIX B**

**Statement of Expenditures**

APPENDIX B  
STATEMENT OF EXPENDITURES

A. DRILL SITE PREPARATION

Case 450 bulldozer with winch		
Period: June 13-19	12.5 hours @ \$56/hour	700.00
Room and Board	2 man-days (equiv) @ \$80/day	160.00
		<u>860.00</u>

TOTAL A           \$ 860.00

B. DIAMOND DRILLING AND SUPPORT

DIAMOND DRILLING - June 13-21

D.W. Coates invoice charges for drilling, survey, core boxes, supplies and equipment, moving time, etc. applicable to the holes covered in this report.	22,303.10
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ROOM AND BOARD

D.W. Coates personnel	18 man-days @ \$80/day	1,440.00
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HELICOPTER

ALC Hughes 500D	11.1 hrs @ \$525/hour (incl fuel)	<u>5,827.50</u>
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TOTAL B           \$29,570.60

C. DRILLING SUPERVISION, DRILL CORE EXAMINATIONS AND ANALYTICAL WORK

Salaries and Fringe Benefits, Kidd Creek Mines Ltd.

N. von Fersen - Geologist		
Period: June 15-23	6 days @ \$193/day	1,158.00

I.G. Sutherland - Geologist		
Period: June 15-23	5 days @ \$145/day	725.00

P.J. Maheaux - Geologist		
Period: June 16-22	6 days @ \$ 88/day	440.00

M. Trotzuk - Assistant		
Period: June 17-24	4 days @ \$ 62/day	248.00

J. Black - Assistant		
Period: June 17-23	3 days @ \$66/day	198.00

J. Leigh - Assistant		
Period: June 18-19	2 days @ \$66/day	132.00

B. Anderson - Assistant		
Period: June 18-24	3 days @ \$60/day	180.00

B. von Schulmann - Assistant		
Period: June 20-24	3 days @ \$54/day	<u>162.00</u>

3,243.00	\$3,243.00
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APPENDIX B

Statement of Expenditures - Cont'd

C. C/fwd		\$ 3,243.00	
<u>Room and Board</u>			
Kidd Creek Mines personnel	32 man-days @ \$80/day		2,560.00
<u>Helicopter</u>			
(Additional trips for drilling supervision)			
ALC, Hughes 500D	1.1 hour @ \$525/hour (incl. fuel)		577.50
<u>Sample Shipment</u>			
Helicopter; ALC 500D	0.5 hours @ \$535/hour (incl. fuel)	262.50	
Fixed Wing; Central Mountain Air Services Cessna 185			
	1/2 trip @ \$507.15/trip	253.58	
PWA Air Express, Smithers to Vancouver		42.50	
		<u>558.58</u>	558.58
<u>Analytical Costs</u>			
13 Au fire assays @ \$6.00		78.00	
52 Au + Ag fire assays @ \$8.50		442.00	
161 Au + Ag geochemical analyses @ \$6.75		1,086.75	
213 sample preparations @ \$1.50		319.50	
		<u>1,926.25</u>	1,926.15
<u>Report Preparation</u>			
I. G. Sutherland	2 days @ \$145/day	290.00	
Drafting	1 day @ \$131/day	131.00	
Typing	1 day @ \$135/day	135.00	
		<u>687.00</u>	687.00
			\$9,552.33

SUMMARY

Sub total of 'B'	\$29,570.60
Sub total of 'C'	9,552.33
Total ('B' + 'C')	<u>\$39,122.93</u>

APPENDIX C

Diamond Drill Logs and Analytical Results

# KIDD CREEK MINES LTD

## DRILL HOLE LOG

HOLE No. A84-01 PAGE No. 1

HOLE START: \_\_\_\_\_  
 HOLE FINISH: \_\_\_\_\_  
 DEPTH: 38.71m  
 SIZE: NQ

PROPERTY: A1 (03) - VERRENASS ZONE

DATE: JUNE 14, 1984

DEPTH	AZIM.	DIP
38.71m	060°	-45°

CORE RECOVERY: 99%

LOGGED BY: PJM

INTERVAL (metres)		GEOLOGY	ASSAYS		Au g/t	Au ppm	Ag ppm	Ag g/t
FROM	TO		FROM	TO				
0.0	3.70	TRICONED ; NO CORE						
3.70	16.45	ALTERED DACITE ASH FLOW (PLAGIOCLASE - HORNBLENDE-BIOTITE- <sup>QUARTZ</sup> PHYRIC). BEDDING IS AT 40° TO CORE AXIS AS DEFINED BY THE PLANAR FABRIC OF FINE. THESE ROCKS ARE WEAKLY ARGILLIZED (± HEMATIZED); NARROW (<1m) SECTIONS OF INTENSE ARGILLIZATION OCCUR SPORADICALLY THROUGH THE INTERVAL.	12.3 m	14.3 m	0.05			0.5
			14.3 m	15.3 m	0.05			0.2
			15.3 m	16.45 m	0.05			3.0
16.45	18.05	ALTERED DACITE ASH FLOW. INTENSE PYRITIC SILICIFICATION (15-20% PYRITE) HAS MINOR, INTERMIXED ARGILLIZATION. MODERATE BRECCIATION IS RESPONSIBLE FOR THE PRESENCE OF APPROX. 2% VUGS.	16.45m	18.05m	0.07			18.6
18.05	19.74	SIMILAR TO 3.70 m TO 16.45 m.	18.05m	19.05m	0.05			1.0
			19.05m	20.05m	0.05			4.0
19.74	21.04	ALTERED DACITE ASH FLOW. INTENSE ARGILLIZATION PLUS HEMATITE COMPLETELY REPLACES ORIGINAL DACITE. BEDDING TEXTURES ARE PRESERVED.	20.05m	21.04m	0.05			1.5
21.04	26.15	SIMILAR TO 3.70 m TO 16.45m. MODERATE TO INTENSE ARGILLIZATION LOCALLY ADMIXED WITH WEAKER ARGILLIZATION PREDOMINATES.	21.04m	21.70m	0.05			9.0
			21.70m	22.70m	0.05			2.0
			22.70m	23.74m	0.05			8.5
			23.74m	23.91m	0.10			9.5
			23.91m	25.5m		trace	3.0	
			25.5m	26.15m		trace	1.2	

# DRILL HOLE LOG

SHEET No 2 of 2

INTERVAL (metres)		GEOLOGY	ASSAYS		Au g/t	Au ppm	Ag ppm		
FROM	TO		FROM	TO					
26.15	26.35		ALTERED DACITE ASH FLOW. PYRITIC SILICIFICATION (10% PYRITE) AND PATCHY, INTENSE ARGILLIZATION ARE INTERMIXED IN SUBEQUAL PROPORTIONS.	26.15m					
26.35	38.71	SAME AS 21.04 TO 26.15 m.		26.35m	26.95m		trace	0.7	
			26.95m	28.95m		trace	3.4		
			28.95m	30.95m		trace	2.8		
			30.95m	32.71m		trace	0.5		
			32.71m	33.00m		trace	2.5		
			33.00m	34.20m		trace	0.2		
			34.20m	35.10m		trace	0.4		
			35.10m	37.10m		trace	1.9		
			37.10m	38.10m		0.010	0.1		



# KIDD CREEK MINES LTD

## SUMMARY DRILL HOLE LOG

HOLE No. A84-02 PAGE No. 1

HOLE START: \_\_\_\_\_  
 HOLE FINISH: \_\_\_\_\_  
 DEPTH: 4.15m  
 SIZE: NQ

PROPERTY: AL(03) - VERRENASS ZONE  
 DATE: JUNE 13, 1984

DEPTH	AZIM	DIP
4.15m	240°	-45°

CORE RECOVERY: 95%  
 LOGGED BY: NvF

INTERVAL (metres)		GEOLOGY	ASSAYS		Au g/t	Au ppm	Ag ppm	Ag g/t
FROM	TO		FROM	TO				
0	4.77	TRICONED ; NO CORE						
4.77	5.37	LOST CORE						
5.37	11.28	ALTERED DACITE ASH FLOW (PLAGIOCLASE - HORNBLENDE-BIOTITE - QUARTZ PYRITIC). BEDDING, DEFINED BY THE PLANAR FABRIC OF FIAMME, IS AT 40° TO CORE AXIS (ie. SUBHORIZONTAL). ALTERATION CONSISTS OF MIXED, INTENSE ARGILLIZATION AND SILICIFICATION. ARGILLIZATION PREDOMINATES EXCEPT BETWEEN 5.57m AND 5.87m WHERE A WEAKLY BRECCIATED ZONE OF PYRITIC SILICIFICATION (25% PYRITE) OCCURS. ALTERATION CONTACTS IN THIS PYRITIC ZONE ARE AT 70° TO CORE AXIS. THE LOWER 4.18m HAS 1% PYRITE.	5.37m	5.58m		0.360	0.8	
			5.58m	5.95m	<0.05		5.0	
			5.95m	7.15m		trace	0.3	
			7.15m	8.23m		0.25	1.2	
			8.23m	9.23m		trace	0.4	
			9.23m	10.28m		trace	0.6	
			10.28m	11.28m		trace	0.2	
11.28	12.60	ALTERED DACITE ASH FLOW. SIMILAR TO 5.37m - 11.28m BUT SILICIFICATION PREDOMINATES OVER ARGILLIZATION. BELOW 12.25m 2% VUGS AND 2% PYRITE ARE PRESENT.	11.28m	12.00m		trace	0.5	
			12.00m	12.60m		trace	0.5	
12.60	17.60	ALTERED DACITE ASH FLOW. INTENSE SILICIFICATION CONTAINS TRACE TO 10% PATCHY PYRITE FLOODING. BELOW 17.10m INTERMIXED SILICIFICATION AND ARGILLIZATION MARK THE GRADATIONAL CHANGE TO UNDERLYING ARGILLIZATION.	12.60m	13.10m	2.00			2.5
			13.10m	13.60m	1.80			1.0
			13.60m	14.10m	5.70			0.5
			14.10m	14.80m	3.20			3.0
			14.80m	15.30m	0.50			3.5
			15.30m	15.75m	0.05			0.5
			15.75m	16.10m	0.10			2.0

## SUMMARY DRILL HOLE LOG

A84-02

SHEET NO 2 of 3

INTERVAL (metres)		GEOLOGY	ASSAYS		Au	Au	Ag	Ag
FROM	TO		FROM	TO	g/t	ppm	ppm	g/t
12.60	17.60	(CONT'D) ALTERED DACITE ASH FLOW	16.10m	16.50m	0.30			0.5
			16.50m	16.60m	2.30			2.0
			16.60m	17.10m	1.70			0.5
			17.10m	17.65m		trace	1.2	
17.60	18.80	ALTERED DACITE ASH FLOW. MODERATE TO INTENSE ARGILLIZATION IS MODERATELY HEMATITIC WITH PATCHY RELICS OF ORIGINAL TEXTURES.	17.65m	18.90m		trace	4.1	
18.80	23.93	ALTERED DACITE ASH FLOW. ARGILLIZATION OF FELDSPARS AND HEMATIZATION OF GROUNDMASS CHARACTERIZES THIS WEAK ARGILLIC ALTERATION.	18.90m	19.90m		trace	0.7	
			19.90m	20.90m		0.010	6.1	
			20.90m	22.90m		0.010	4.1	
			22.90m	24.00m		trace	7.8	
23.93	26.50	ALTERED DACITE ASH FLOW. MODERATELY BRECCIATED INTENSE ARGILLIZATION AND LESS DOMINANT SILICIFICATION MAKE UP THIS INTERVAL.	24.00m	25.00m		0.045	3.7	
			25.00m	26.00m		0.060	0.9	
			26.00m	26.60m		0.070	0.3	
26.50	28.40	ALTERED DACITE ASH FLOW. INTENSE PYRITIC SILICIFICATION (5% PYRITE) HAS 5% VUGS. DRUSY BARITE (0.3%) FILLS VUGS. BEDDING IS AT 60° TO CORE AXIS.	26.60m	27.10m	2.50			0.5
			27.10m	28.04m	0.80			1.5
			28.04m	28.40m	5.60			4.5
28.40	31.70	SIMILAR TO 23.93m - 26.50m. ALTERATION IS SLIGHTLY MORE SILICEOUS WITH MODERATE BRECCIATION AND 2% VUGS. PYRITE IS PRESENT AS IRREGULAR PATCHES THROUGH THE INTERVAL (3-5%). ALTERATION FRONTS AT 20° AND 30° TO CORE AXIS WERE OBSERVED.	28.40m	30.00m	2.40			0.5
			30.00m	31.00m	0.10			0.5
			31.00m	31.70m	2.40			3.0
31.70	33.25	SIMILAR TO 18.80m - 23.93m. MODERATELY FRACTURED WITH SOME DICKITE FRACTURE-FILLING	31.70m	33.25m		0.020	4.2	

SUMMARY DRILL HOLE LOG

A84-02

SHEET No 3 of 3

INTERVAL (metres)		GEOLOGY	ASSAYS		Au g/t	Au ppm	Ag ppm
FROM	TO		FROM	TO			
33.25	34.38	ALTERED DACITE ASH FLOW. INTENSE SILICIFICATION	33.25m	34.00m		trace	0.4
		IS ADMIXED WITH INTENSE ARGILLIZATION PREDOMINANTLY.	34.00m	34.50m		trace	0.9
		BELOW 34.00 m ONLY MINOR CLAYS OCCUR AFTER					
		PLAGIOCLASE AND PYRITE IS PRESENT AS FRACTURE					
		ENVELOPES (2%).					
34.38	34.95	ALTERED DACITE ASH FLOW. INTENSE ARGILLIZATION	34.50m	34.70m		trace	0.2
		TO 34.75 m BECOMES DOMINANTLY SILICIFICATION WITH	34.70m	34.90m		trace	0.2
		LESSER ADMIXED ARGILLIZATION IN THE LOWER 0.2 m OF					
		THE INTERVAL.					
34.95	41.15	SAME AS 18.80 m - 23.93 m.	34.90m	36.90m		trace	<0.1
			36.90m	38.90m		trace	<0.1
			38.90m	41.15m		trace	<0.1
	41.15	END OF HOLE					

# KIDD CREEK MINES LTD

## SUMMARY DRILL HOLE LOG

HOLE No. A84-03 PAGE No. 1

HOLE START: \_\_\_\_\_  
 HOLE FINISH: \_\_\_\_\_  
 DEPTH: 17.37m  
 SIZE: NQ

PROPERTY: AL (03) - VERRENASS ZONE  
 DATE JUNE 16, 1984.

DEPTH	AZIM.	DIP
17.37m	255°	-45°

CORE RECOVERY: 99%  
 LOGGED BY: PJM/IGS

INTERVAL (metres)		GEOLOGY	ASSAYS		Au g/t	Au ppm	Ag ppm	Ag g/t
FROM	TO		FROM	TO				
0.0	5.6	TRICONED ; NO CORE						
5.60	8.33	ALTERED DACITE ASH FLOW (PLAGIOCLASE - BIOTITE - HORNBLENDE PHYRIC). BEDDING, DEFINED BY THE PLANAR FABRIC OF FIAMME, IS AT 45° TO CORE AXIS (APPROX. HORIZONTAL). WEAK ARGILLIC ALTERATION INVOLVES ARGILLIZATION OF PHENOCRYST AND GROUNDMASS PLAGIOCLASE AS WELL AS FIAMME AND MODERATE GROUNDMASS HEMATIZATION.	5.60m	6.43m		0.010	1.0	
			6.43m	8.33m		trace	0.8	
8.33	11.55	ALTERED DACITE ASH FLOW. INTENSE SILICIFICATION IS INTERMIXED WITH MINOR ARGILLIZATION. THE UPPER CONTACT IS MARKED BY 0.6m INTENSE ARGILLIZATION. SILICIFICATION BECOMES INCREASINGLY ABUNDANT BELOW 8.93m. MINOR HEMATITE AND TRACE PYRITE ARE ALSO PRESENT.	8.33m	8.93m		trace	1.0	
			8.93m	10.08m		trace	0.2	
			10.08m	11.20m		0.030	0.1	
			11.20m	11.55m		0.015	0.3	
11.55	14.10	ALTERED DACITE ASH FLOW. INTENSE SILICIFICATION WITH ONLY MINOR ARGILLIZED FELDSPAR RELICTS PREDOMINATES. FROM 11.85m TO 12.60m, MINOR FRACTURE-FILLING PYRITE IS PRESENT (AT 50° TO CORE AXIS). AT 12.12m A STRONG FRACTURE (AT 30° TO CORE AXIS) IS FILLED WITH DARK BROWN SMITHSONITE (XRD IDENTIFICATION). 5-10% PYRITE OCCURS AS FRACTURE-CONTROLLED DISSEMINATIONS FROM 12.60m TO 12.95m. THROUGHOUT THE INTERVAL 1-2% VUGS ARE PRESENT.	11.55m	11.83m	6.60			5.5
			11.83m	12.07m	11.30			<0.5
			12.07m	12.17m	1.10			<0.5
			12.17m	12.60m	0.70			0.5
			12.60m	12.95m	0.60			0.5
			12.95m	13.32m	<0.05			<0.5
			13.32m	13.70m	<0.05			<0.5
			13.70m	14.10m	<0.05			<0.5



# KIDD CREEK MINES LTD

## SUMMARY DRILL HOLE LOG

HOLE No. PAGE No  
A84-04 1

HOLE START: \_\_\_\_\_  
HOLE FINISH \_\_\_\_\_  
DEPTH: 38.40 m  
SIZE: NQ

PROPERTY: AL(03) - VERRENASS ZONE  
DATE: JUNE 17, 1984

DEPTH	AZIM	DIP
38.40 m	255°	-45°

CORE RECOVERY: 99%

LOGGED BY: NJF/PJM

INTERVAL (metres)		GEOLOGY	ASSAYS		Au g/t	Au ppm	Ag ppm		
FROM	TO		FROM	TO					
0.0	7.03	TRICONED ; No CORE							
7.03	10.00	ALTERED DACITE ASH FLOW (PLAGIOCLASE - HORNBLende - BIOTITE - QUARTZ PHYRIC). BEDDING IS AT 30°-50° TO CORE AXIS AS DEFINED BY THE PLANAR FABRIC OF FIAMME. WEAK ARGILLIZATION IS THE DOMINANT ALTERATION ; PLAGIOCLASE IS REPLACED BY CLAYS AND THE GROUNDMASS IS HEMATIZED. MINOR QUARTZ-DICKITE VEINS OCCUR AT IRREGULAR ANGLES TO CORE AXIS.	7.03m	9.73m		trace	0.7		
			9.73m	10.73m		0.950	1.8		
10.00	11.48	ALTERED DACITE ASH FLOW. THE UPPER ALTERATION CONTACT OF THIS INTENSE ARGILLIZATION IS AT 50° TO CORE AXIS.	10.73m	11.48m		0.025	3.5		
11.48	12.60	SAME AS 7.03m TO 10.00m. NO QUARTZ-DICKITE VEINLETS.	11.48m	12.60m		0.005	0.3		
12.60	15.90	ALTERED DACITE ASH FLOW. MIXED SILICIFICATION AND ARGILLIZATION TYPIFY THIS INTERVAL. SILICIFICATION IS SLIGHTLY DOMINANT TO 14.03m AND PYRITE (5%) IS PRESENT FROM 13.80m TO 14.03m. AN ALTERATION FRONT AT 70° TO CORE AXIS WAS NOTED. ARGILLIZATION IS SLIGHTLY DOMINANT BELOW 14.03m.	12.60m	13.80m		trace	0.4		
			13.80m	14.03m		0.080	1.4		
			14.03m	14.93m		trace	0.3		
			14.93m	15.63m		trace	0.5		
			15.63m	16.63m		trace	0.4		
			16.63m	17.57m		trace	0.1		
15.90	20.00	SAME AS 7.03m TO 10.00m.	17.57m	18.57m		trace	0.1		
			18.57m	19.57m		trace	0.2		
			19.57m	20.00m		0.005	0.4		

## SUMMARY DRILL HOLE LOG

A84-04

SHEET NO 2 of 2

INTERVAL		GEOLOGY	ASSAYS		Au g/t	Au ppm	Ag ppm	Ag g/t
FROM	TO		FROM	TO				
20.00	23.72	ALTERED DACITE ASH FLOW. INTENSE PYRITIC SILICIFICATION (10% PYRITE) PREDOMINATES AND CONTAINS <1% DRUSY BARITE IN VUGS. A MINOR ZONE OF INTENSE ARGILLIZATION OVERLIES THE SILICIFICATION (20.00 - 20.62m) AND IS CUT BY TRACES OF PYRITE, GALENA (?), SPHALERITE (?) AND AN UNKNOWN BLACK METALLIC SULPHIDE IN FRACTURE-FILLINGS. ALTERATION CONTACTS AND FRONTS THROUGH THE INTERVAL ARE AT 40°-50° TO CORE AXIS.	20.00m	20.62m		trace	23	
			20.62m	21.12m		0.050	7.5	
			21.12m	21.62m	0.90		0.5	
			21.62m	22.12m	8.20			0.5
			22.12m	22.62m	2.80			<0.5
			22.62m	23.12m	3.40			1.5
			23.12m	23.72m	1.90			<0.5
23.72	25.32	SIMILAR TO 12.60m TO 15.90m. SILICIFICATION IS PREDOMINANT OVER ARGILLIZATION THROUGHOUT AND PYRITE IS RARE TO ABSENT.	23.72m	24.42m	0.10			<0.5
			24.42m	24.92m		trace	0.3	
			24.92m	25.32m		0.005	1.0	
25.32	25.62	SIMILAR TO 20.00m TO 23.72m. SILICIFICATION IS DOMINANT OVER ADMIXED ARGILLIZATION. PYRITE (10%) AND A POSSIBLE TRACE OF GALENA OCCUR AS DISSEMINATIONS.	25.32m	25.62m		0.050	2-1	
25.62	38.40	SAME AS 7.03m TO 10.00m. TRACES OF CALCITE AND BARITE WERE NOTED AS VEIN MATERIAL.	25.62m	26.62m		trace	1.2	
			26.62m	27.62m		trace	0.4	
			27.62m	28.62m		0.020	32.5	
			28.62m	30.62m		trace	0.2	
			30.62m	32.00m		trace	0.5	
			32.00m	34.00m		trace	0.2	
			34.00m	36.00m		trace	0.1	
			36.00m	38.40m		trace	0.4	

# KIDD CREEK MINES LTD

## SUMMARY DRILL HOLE LOG

HOLE No. 84-05 PAGE No. 1

HOLE START: \_\_\_\_\_  
 HOLE FINISH: \_\_\_\_\_  
 DEPTH: 87.43m  
 SIZE: NQ

PROPERTY: AL (03) - RIDGE ZONE  
 DATE: JUNE 19-21, 1984.

DEPTH	AZIM	DIP
<u>87.43m</u>	<u>290°</u>	<u>-42°</u>

CORE RECOVERY: 95%

LOGGED BY: IGS/NJF

INTERVAL (metres)		GEOLOGY	ASSAYS		Au g/t	Au ppm	Ag ppm																							
FROM	TO		FROM	TO																										
0.0	4.18	TRICONED ; NO CORE																												
4.18	25.91	ALTERED ANDESITE TUFF BRECCIA (PLAGIOCLASE - HORNBLende PYRITIC). SUBANGULAR BRECCIA FRAGMENTS (<1mm TO APPROX. 10 cm.) AND CRYSTAL FRAGMENTS COMPRISE THIS WEAKLY PROPYLITIZED ROCK. CHLORITE IS THE DOMINANT ALTERATION MINERAL. INTERBEDS OF ALTERED ANDESITE ASH TUFF ARE PRESENT FROM 7.25m - 8.40m ; 9.33m - 15.10m ; 16.24m - 17.07m ; 23.01m - 25.91m (LOST CORE FROM 20.39m - 23.01m). CONTACTS ARE GENERALLY GRADATIONAL. PYRITE IS PRESENT MAINLY IN TUFF BRECCIA BETWEEN 15.10m AND 20.39m (2-5%) AS DISSEMINATIONS. MINOR TENNANTITE - TETRAHEDRITE (?) ALSO OCCURS BETWEEN 15.10m AND 16.24m.																												
25.91	26.94	ALTERED ANDESITE TUFF BRECCIA(?). INTENSE PYRITIC SILICIFICATION (5% PYRITE) IS INTERMIXED WITH INTENSE ARGILLIZATION IN SUBEQUAL PROPORTIONS.	25.91m	26.94m		trace	1.5																							
26.94	32.52	ALTERED ANDESITE TUFF BRECCIA(?). INTENSE SILICIFI- CATION CONTAINS VARIABLE PYRITE AND HEMATITE. HEMATITIC ALTERATION IS DOMINANT TO 27.43m AND MIXED PYRITIC AND HEMATITIC SILICIFICATION DOMINATES BELOW (AVERAGE 10% PYRITE, 2% HEMATITE) AN AVERAGE 25% POROSITY EXISTS THROUGH THE INTERVAL.	26.94m	27.43m	27.43m	27.93m	27.93m	28.43m	28.43m	28.93m	28.93m	29.43m	29.43m	29.93m	29.93m	30.43m	trace	4.4	trace	8.4	0.125	14.2	0.020	16.0	trace	16.7	trace	12.1	trace	10.4



## SUMMARY DRILL HOLE LOG A84-05

SHEET No 2 of 5

INTERVAL (metres)		GEOLOGY	ASSAYS		Au g/t	Au ppm	Ag ppm
FROM	TO		FROM	TO			
26.94	32.52	(CONT'D)	30.43m	31.17m		trace	6.8
			31.17m	31.57m		0.010	18.4
			31.57m	32.17m		0.005	17.2
			32.17m	32.52m		trace	15.8
32.52	34.41	ALTERED ANDESITE TUFF BRECCIA(?). INTENSE ARGILLIZATION IS WEAKLY PYRITIC (0.3-1%). BELOW 33.20 m ALTERATION CONSISTS OF MASSIVE DICKITE.	32.52m	33.20m		0.005	3.7
			33.20m	34.41m		trace	3.4
34.41	53.84	ALTERED ANDESITE TUFF BRECCIA(?). INTENSE HEMATITIC SILICIFICATION (2-10% HEMATITE) CONTAINS MINOR PYRITE PATCHES (0.1% TO 0.3% PYRITE). LOCALLY MORE ABUNDANT PYRITE (2%) OCCURS TO 35.03 m ALSO AS PATCHY DISSEMINATIONS. BELOW 43.03 m ORIGINAL BRECCIA FRAGMENTS BECOME INDISTINCT SUGGESTING A POSSIBLE CHANGE IN LITHOLOGY.	34.41m	34.91m		0.020	12.0
			34.91m	35.03m		0.010	34.0
			35.03m	35.53m		0.030	26.0
			35.53m	36.03m		0.020	35.0
			36.03m	36.53m		trace	16.6
			36.53m	37.03m		trace	10.1
			37.03m	37.53m		trace	11.2
			37.53m	38.03m		trace	8.8
			38.03m	38.53m		0.005	13.9
			38.53m	39.03m		trace	12.3
			39.03m	39.53m		trace	9.2
			39.53m	40.03m	1.40	1.020	42.0
			40.03m	40.53m	5.70	4.700	61.0
			40.53m	41.03m	3.20	2.380	53.0
			41.03m	41.53m	3.30	2.250	44.0
			41.53m	42.03m	3.55	2.900	40.0
			42.03m	42.53m	6.00	4.790	18.2
			42.53m	43.03m	6.05	4.570	37.0
			43.03m	43.53m	1.70	1.100	9.5
			43.53m	44.03m	2.30	1.750	94.0
			44.03m	44.53m	2.50	2.000	154.0
			44.53m	45.03m		0.360	86.0

## SUMMARY DRILL HOLE LOG

A84-05

SHEET No 3 of 5

INTERVAL (metres)		GEOLOGY	ASSAYS		Au g/t	Au ppm	Ag ppm
FROM	TO		FROM	TO			
34.41	53.84	(CONT'D.)	45.03m	45.53m	1.50	1,090	54.0
			45.53m	46.03m	2.80	1,900	26.0
			46.03m	47.03m	1.80	1,300	39.0
			47.03m	47.53m		0.650	15.4
			47.53m	48.03m		0.080	14.2
			48.03m	48.53m		0.110	1.4
			48.53m	49.03m		0.110	2.3
			49.03m	49.53m		0.070	4.4
			49.53m	50.03m		0.050	4.4
			50.03m	50.53m		0.100	4.1
			50.53m	51.03m		0.020	0.9
			51.03m	51.53m		0.070	1.8
			51.53m	52.03m		0.160	2.5
			52.03m	52.55m		0.060	3.0
			52.55m	53.03m		0.020	1.6
			53.03m	53.53m		0.010	0.8
			53.53m	53.84m		trace	0.6
53.84	55.93	ALTERED ANDESITE TUFF BRECCIA (?). INTENSELY ARGILLIZED ZONE OF APPROX. 1m IS IN CONTACT WITH AN INTENSELY SILICIFIED AND ARGILLIZED ZONE (SUBEQUAL PROPORTIONS) ALSO OF APPROX. 1m.	53.84m	54.94m		trace	0.7
			54.94m	55.44m		trace	0.2
			55.44m	55.93m		trace	0.1
55.93	58.24	ALTERED ANDESITE TUFF BRECCIA (?) SIMILAR TO 4.18m-25.91m WITH TWO NARROW NARROW ZONES OF MODERATE TO INTENSE ARGILLIZATION. MINOR PYRITE IS PRESENT LOCALLY.	55.93m	56.99m		trace	2.4
			56.99m	58.24m		trace	0.6

## SUMMARY DRILL HOLE LOG

A84-05

SHEET No 4 of 5

INTERVAL (metres)		GEOLOGY	ASSAYS		Au g/t	Au ppm	Ag ppm
FROM	TO		FROM	TO			
58.24	63.40	ALTERED ANDESITE TUFF BRECCIA (?). INTENSE SILICIFICATION IS PRESENT WITH AN UPPER ALTERATION CONTACT AT 80° TO CORE AXIS. THE LOWER 0.9m OF THE INTERVAL IS INTENSELY BRECCIATED AND RECEMENTED WITH SILICA. VUGS OCCUR THROUGHOUT AND AVERAGE 10% OF THE INTERVAL.	58.24m	58.74m		0.145	9.4
			58.74m	59.24m		0.110	1.2
			59.24m	59.74m		0.080	1.6
			59.74m	60.24m		0.110	2.3
			60.24m	60.74m		0.220	3.7
			60.74m	61.16m		0.145	4.6
			61.16m	61.32m		0.170	3.7
			61.32m	61.82m		0.060	3.1
			61.82m	62.50m		0.160	7.8
			62.50m	62.95m		0.210	39.0
			62.95m	63.40m		0.040	8.3
63.40	72.10	ALTERED ANDESITE TUFF BRECCIA (?). INTENSE ARGILLIZATION PREDOMINATES EXCEPT IN THE BOTTOM METRE OF THE INTERVAL. MIXED SILICIFICATION AND LESSER ARGILLIZATION ARE PRESENT HERE. VUGS ARE RARE ON AVERAGE.	63.40m	63.90m		0.120	5.2
			63.90m	64.40m		0.165	4.1
			64.40m	65.25m		0.050	2.2
			65.25m	65.75m		0.080	3.6
			65.75m	66.25m		0.080	5.6
			66.25m	66.75m		0.070	4.8
			66.75m	67.25m		0.030	2.6
			67.25m	67.75m		trace	1.4
			67.75m	68.25m		trace	2.2
			68.25m	68.75m		trace	2.9
			68.75m	69.25m		trace	1.1
			69.25m	70.41m		trace	3.4
			70.41m	71.02m		trace	1.3
			71.02m	71.77m		trace	0.9
			71.77m	72.10m		trace	0.2
72.10	74.00	ALTERED DACITIC ASH FLOW (PLAGIOCLASE - HORNBLENDE-BIOTITE PHYRIC). BEDDING IS AT 45° TO CORE AXIS (APPROX. HORIZONTAL), AS DEFINED BY THE PLANAR FABRIC OF FIAMME. WEAK ARGILLIZATION PREDOMINATES; PLAGIOCLASE IS ARGILLIZED AND GROUNDMASS IS HEMATIZED.	72.10m	74.00m		trace	0.7


SUMMARY DRILL HOLE LOG

A84-05

SHEET NO 5 of 5

INTERVAL (metres)		GEOLOGY	ASSAYS		Au g/t	Au ppm	Ag ppm
FROM	TO		FROM	TO			
74.00	75.28	ALTERED DACITIC ASH FLOW. INTENSE SILICIFICATION IS DOMINANT OVER SUBSEQUAL INTENSE ARGILLIZATION. TRACE PYRITE OCCURS AS FINE DISSEMINATIONS. MINOR DICKITE VEINING IS PRESENT.	74.00m	74.50m		trace	0.2
			74.50m	75.28m		trace	0.7
75.28	80.00	SAME AS 72.10m - 74.00m.	75.28m	77.28m		0.010	0.5
			77.28m	79.28m		0.025	3.2
80.00	82.20	ALTERED DACITIC ASH FLOW. SIMILAR TO 74.00m - 75.28m.	79.28m	80.00m		0.030	1.7
			80.00m	80.98m		trace	1.8
			80.98m	81.32m		trace	2.1
			81.32m	82.20m		0.010	1.0
82.20	87.48	SAME AS 72.10m - 74.00m.	82.20m	84.20m		trace	4.4
			84.20m	86.20m		trace	1.2
			86.20m	87.48m		trace	2.2

**ASSAY REPORT**

Sample Description	Au (ppb)	Ag (ppm)	GEOCHEMICAL DETERMINATIONS
10090	L5	.4	<i>CH004</i> 
10091	80	1.4	
10092	L5	.3	
10094	L5	.4	
10095	L5	.1	
10096	L5	.1	
10097	L5	.2	
10098	5	.4	
10099	L5	.3	
10157	L5	.3	
10158	5	1.0	
10159	50	2.1	
10160	L5	1.2	
10161	L5	.4	
10162	20	32.5	
10163	L5	.2	
10164	L5	.5	
10165	L5	.2	
10166	L5	.1	
10167	L5	.4	

Please note that all results on pages 5 and 6 represent geochemical determinations.

The prefix "L" indicates "less than"

  
 Certified Assayer of British Columbia

**ASSAY REPORT**

Sample Description	Au (ppb)	Ag (ppm)	GEOCHEMICAL DETERMINATIONS
10014	L5	3.0	<i>CH001</i>
10015	L5	1.2	
10016	L5	L.1	
10017	L5	.7	
10018	L5	3.4	
10019	L5	2.8	
10020	L5	.5	
10022	L5	.2	
10023	L5	.4	
10024	L5	1.9	
10025	10	.1	
10026	360	.8	<i>CH002</i>
10028	L5	.3	
10029	25	1.2	
10030	5	.4	
10031	L5	.6	
10032	L5	.2	
10033	L5	L.1	
10034	L5	L.1	
10045	L5	1.2	
10046	L5	4.1	
10047	L5	.7	
10048	10	6.1	
10049	10	4.1	
10050	L5	7.8	
10051	45	3.7	
10052	60	.9	
10053	70	.3	
10060	20	4.2	
10061	L5	.4	
10062	L5	.9	
10063	L5	.2	
10064	5	.2	
10065	L5	L.1	
10066	10	L.1	
10067	L5	L.1	
10068	10	1.0	<i>CH003</i>
10069	L5	.8	
10070	L5	1.0	
10071	L5	.2	
10072	30	.1	
10073	15	.3	
10082	L5	.7	
10083	10	1.3	
10084	10	4.3	
10085	20	1.7	
10086	L5	.7	<i>CH004</i>
10087	950	1.8	
10088	25	3.5	
10089	5	.3	

*[Signature]*  
 Certified Assayer of British Columbia

**CDN RESOURCE LABORATORIES LTD.**  
 #8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

**ASSAY REPORT**

TO: Kidd Creek Mines Ltd.  
 701 1281 West Georgia  
 Vancouver, B.C.  
 V6E 3J7

FILE NO.: 84-130

DATE: June 29, 1984

ATTENTION: Peter Delancey

cc. Ian Sutherland

PROJECT: 03

Sample Description	Au (g/t)	Ag (g/t)
10074	6.60	5.5
10075	1.30	L.5
10076	1.10	L.5
10077	.70	.5
10078	.60	.5
10079	L.05	L.5
10080	L.05	L.5
10081	L.05	L.5
10093	L.05	.5
10100	L.05	7.5
10151	.90	L.5
10152	8.20	6.0
10153	2.80	L.5
10154	3.40	1.5
10155	1.90	L.5
10156	.10	L.5

*Handwritten notes:*  
 CH083 (above 10074)  
 CH007 (above 10093)  
 A vertical arrow points from the CH007 label down to the 10100 sample row.

**CDN RESOURCE LABORATORIES LTD.**  
 #8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

**ASSAY REPORT**

TO: Kidd Creek Mines Ltd.  
 701 - 1281 West Georgia  
 Vancouver, B.C.  
 V6E 3J7

FILE NO.: 84-126

DATE: June 27, 1984

ATTENTION: Peter Delancey

PROJECT: 03

Sample Description	Au (g/t)	Ag (g/t)
10001 <i>27001</i>	L.05	L.5
10002	L.05	2.0
10003	L.05	3.0
10004	.10	11.5
10005	L.05	28.0
10006	L.05	14.5
10007	L.05	1.0
10008	L.05	4.0
10009	L.05	1.5
10010	L.05	9.0
10011	L.05	2.0
10012	.05	8.5
10013	.10	9.5
10016	L.05	L.5
10027 <i>27002</i>	L.05	5.0
10035	2.00	2.5
10036	1.80	1.0
10037	5.70	L.5
10038	3.20	3.0
10039	L.05	3.5
10040	L.05	L.5
10041	.10	2.0
10042	.30	L.5
10043	2.30	2.0
10044	1.70	L.5
10054	2.50	L.5
10055	.80	1.5
10056	5.60	4.5
10057	2.40	L.5
10058	.10	L.5
10059	2.40	3.0



RIDGE ZONE

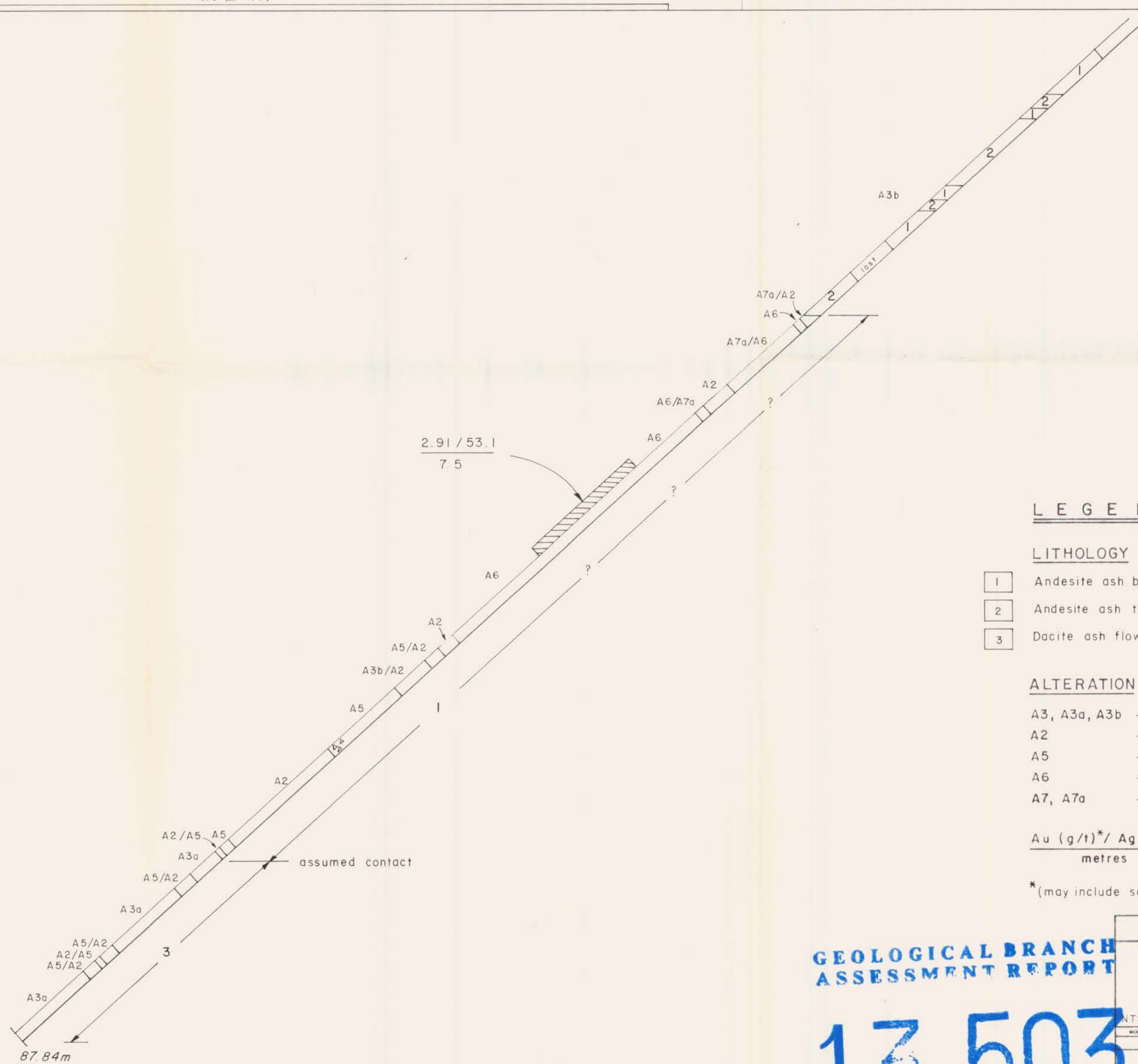
DDH A84-5  
Az 290° / -42°

A6 (± A5)

Andesitic flows & flow breccias

Andesitic aquagene tuff breccia

overburden



LEGEND

LITHOLOGY

- 1 Andesite ash breccia
- 2 Andesite ash tuff
- 3 Dacite ash flow

ALTERATION

- A3, A3a, A3b - propylitic
- A2 - argillic
- A5 - silicification
- A6 - silicification + hematite
- A7, A7a - silicification + pyrite

Au (g/t)\* / Ag (ppm)  
metres

\*(may include some geochemical values)

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,503**

Kidd Creek Mines Ltd.

AL PROPERTY

DDH A84 - 5

NTS 94E/6W Proj 03

WORK BY ER DATE OCT 16/1984

0 5m

SCALE 1 : 200

Figure: 5d