81.#819-9464

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REPORT ON DIAMOND DRILLING KLISUM GROUP Omineca Mining Division N.T.S. 94D (8/9E) 56° 30'N 126° 08'W

OWNER: Kennco Exploration (Western) Ltd. OPERATOR: Vital Mines Ltd.

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T. Rodgers, P. Eng. October 13, 1981

TABLE OF CONTENTS

1

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Introduction	: Page 1 *
Drilling	Page 2
Costs	Page 3
Certificate of qualification	Page 4
Index Map (Plan #1)	Page 5
Location Map (Plan #2)	Page 6
Plan of Drill-holes (Plan #3)	Page 7
Log of DDH KL1 16	Page 8
Log of DDH KL1 17	Page 9
Log of DDH KL1 18	Page 10
Log of DDH KL1 19	Page 11

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INTRODUCTION

(i) The Klisum Group consists of 37 Kli claims and 3 Uta claims. It was first staked by Kennco in 1970 and optioned to Sumac in 1973. Vital Mines is the assignee of the option and has a beneficial interest in the property. Vital Mines Ltd. operates the property and paid for the work covered by this report.

(ii) The Klisum Group is approximately ten km S.S.E. of Johannson Lake at an elevation of 1600 m and covers the watershed between Lay and Kliyul Creeks. Johannson Lake can be reached by road from Fort St. James via Germansen Landing. Access to the property is by helicopter.

(iii) The drilling program consisted of four NQ holes totaling 602 m (1978').

(iv) The work was done on the Kli4 and Kli6 claims.

(v) The core is stored near the camp site on claim Klil5.

DRILLING

4 NQ holes were drilled under contract by Buccaneer Diamond Drilling Ltd. of Williams Lake, B.C.

The intention of the program was to investigate continuity and extension of known mineralization and to test a geological hypothesis.

What correlation between holes is possible suggests that the country rocks, a succession of dacitic, andesitic, and possibly more basic volcanics dip at about 20° to the northnorth-west. A near vertical stockwork of calcite-epidotemagnetite veinlets cuts through the volcanics. In some sections clots of magnetite occur away from the veinlets. Chalcopyrite occurs chiefly in the veinlets but also dissemminated in the country rock.

- 2 -

DRILLING COSTS

Cost basis	Overburden to 60'	\$ 20.00/ft.
	Coring 0 - 500'	\$ 21.00/ft.
	Coring 500 - 1000'	\$ 23.00/ft.
Field Costs	Labour Drill with pumps	26.00/man-hour 64.00/hr.

MaterialsCost plus 15%Mobilisation, Williams Lake to Johannson
and return\$ 10,000.00

Invoiced cost

1

\$ 70,114.05

AUTHORS QUALIFICATIONS

I, Terence Rodgers, of Suite 1900 - 355 Burrard Street, Vancouver, B.C., V6C 2J3, certify that:

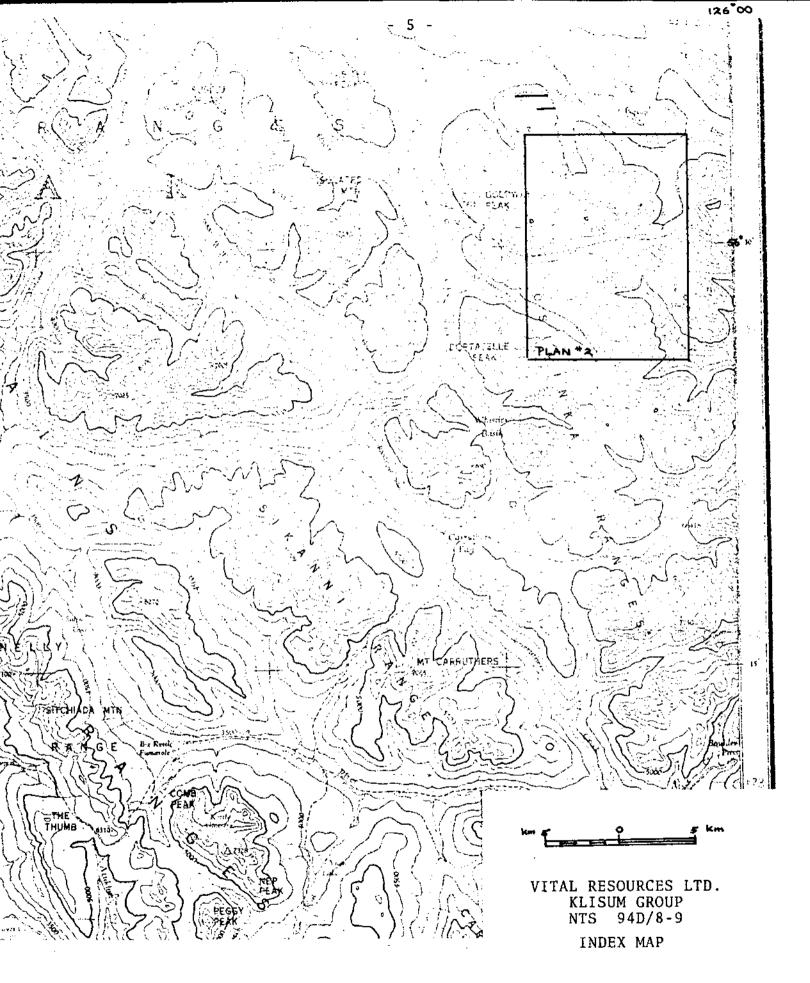
(i) I am a professional geologist and a practising Professional Engineer in the Province of British Columbia.

(ii) The report contained herein is based upon my examination of the drill core.

(iii) I am a Director of Vital Resources Ltd.

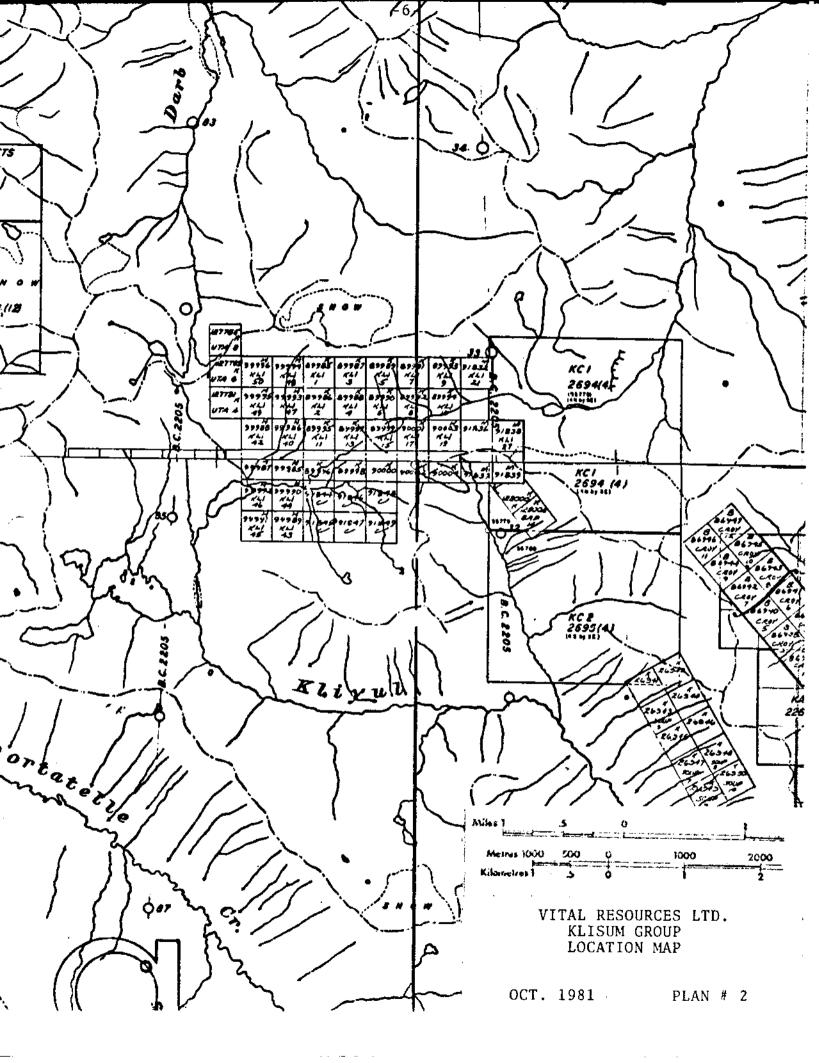
T. Rodgers, Ph.D., P. Eng.

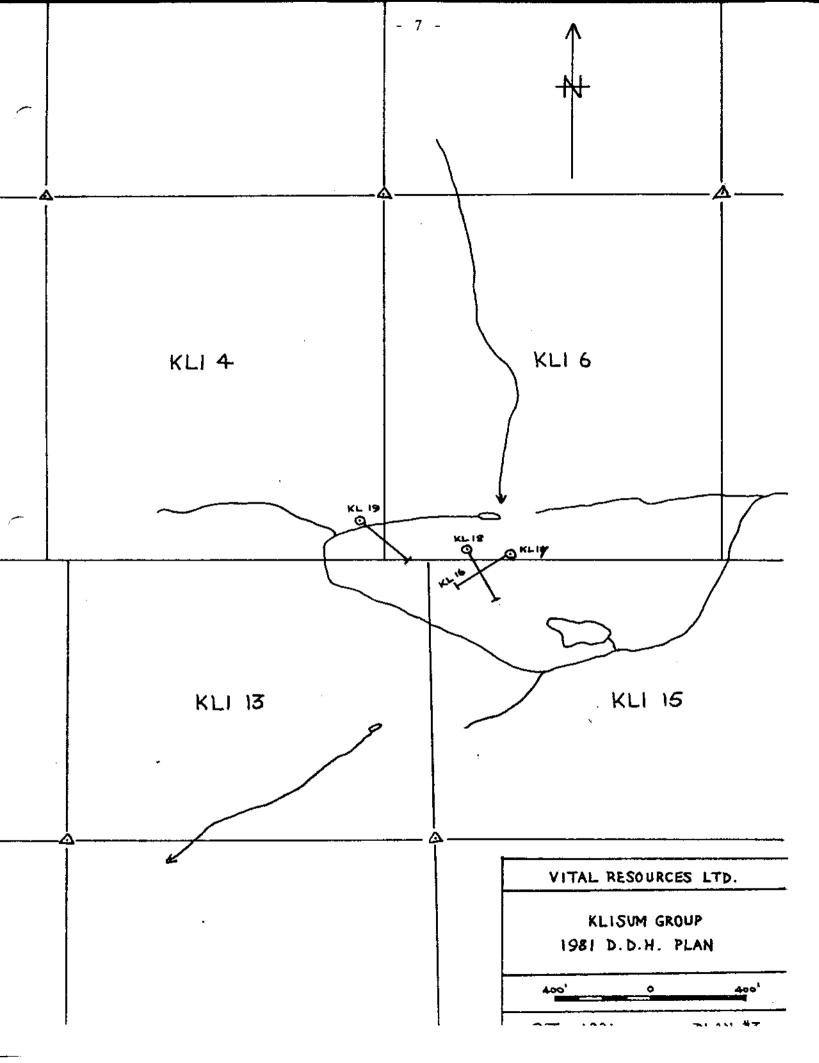
Vancouver, B.C. October 13, 1981



OCT. 1981

PLAN #1





DIAMOND URILL RECORD

PROPERTY____KLISUM

HOLE N. KL 16

	Angle			
Footage	Reading	Corrected		
0	- 60			
		`		
	1			

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Hole No Sheet No	Lat. 4005	Total Depth536!
Section	Dep. <u>1075 W</u>	Logged ByT_R
Date Begun	Bearing <u>240 T</u>	ClaimKL1_#6
Date Finished	Elev. Collar	Core SizeNQ
Date Logged 13 VII 81		

DE F FROM	РТН ТО	RECOVERY	DESCRIPTION	SAMPLE N.	FROM	то	WIDTH OF SAMPLE]
0	30		CASING]
30	448	98%	Medium-dark grey andesite with minor				· · ·		 		
			disseminated py. and occasional epidote								
			veinlets. Felspars saussauritized					·			
			V. blocky.						 		
			<u>398-410 Ash tuff layers 45⁰to c.a.</u>].
			<u>427-448 Minor Haemetite stringers</u>	<u> </u>]α
448	536	100%	Grey limey ash-no apparent bedding.					-] •
			Minor gypsum and epidote stringers.]
			Slightly magnetic								
						-					1
											1
									1		1
										-	1
											1
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		t									1
<u>L</u>	1										

DIAMOND URILL RECORD

PROPERTY KLI	KLIS
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KLISUM

HOLE N. KL17

DIP TEST						
Angle						
Reading	Corrected					
90						
·						
·						

Hole No	 Sheet N	9
Section Date Begun	VIII	81
Date Finished_		
Date Logged		

Lat. 400S	Total Depth	179
Dep. 1075W	Logged By	TR
Bearing240°	Claim	KL1 #6
Elev. Collar	Core Size	.NQ

DEF		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH OF SAMPLE]
	20		Casing]
20	179		Medium-dark grey andesite with]
			disseminated pyrite and magnetite								
 			<u>Occassional epidote-magnetite veinlets</u>				· ·	 		ļ	
			with chalcopyrite					 		 	-
		80%	127-139 Very blocky ground	· · · · · · · · · · · · · · · · · · ·				 	-		-
		70%	149-156 Caving core reduced to cobbles								1
			sulphides in fractures probably	,							
			lost	,				 		. <u> </u>	
		60%	<u>174-179 More caving, water lost</u>								
		· · · · · · · · · · · · · · · · · · ·	179 Hole abandoned	· · · · · · · · · · · · · · · · · · ·				 			
							,				$\left \right $
						-					
											$\left\{ \right.$
								 		<u>_</u>	1

DIAMOND UNILL RECORD

PROPERTY____KLISUM

HOLE N. _____KL 18

	DIP TEST				
	Angle				
Footage	Reading	Corrected			
0	-60				
	+ · ·				
	† ∵				

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Hole No Sheet No Section	Total Depth <u>467'</u>
Date Begun <u>21VIII 81</u>	Claim <u>KL1 #6</u>
Date Finished 25VIII 81	 Core SizeNQ
Date Logged 26VIII 81	-

DEF	РТН ТО	RECOVERY	DESCRIPTION		FROM	то	WIDTH OF SAMPLE				٦
0	30	- :	Casing								
30	467	95%	Chiefly grey-green andesite with a								
			"blotchy" appearance. Pyrite disseminat	ed				 			
			throughout; sparse chalcopyrite in bleb	s			L	 	_	ļ	
			and epidote veinlets					 	ļ		
			<u>362-437 Perceptible increase in cpy.</u> content.								
			267 Comparable to rock at 515' in K1 16.								
			437-467 Rock has a more basic cast with taley partings					 			
			Haemetite increases down the hole]
			467' End of hole]
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			****					 			-
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NEVILLE CROSBY INC.

DIAMOND RILL RECORD

PROPERTY	KLISUM

HOLE N. _____KL 19

	An	gle
Footage	Reading	Correcte
0	- 71	
	—	

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Hole No Sheet No							
Section			_				
Date Begun			81				
Date Finished_	30	VIII	81				
Date Logged	31	VIII	81				
neis rofåsa							

Lat.	2455	Total Dept
Den	1680W	Logged By
Bearing	130 ⁰ T	Claim
Elev. Coli	ar	Core Size.

Total Depth	797	
Logged By		
Claim		
Core Size		

DEP	тн то	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH OF SAMPLE				
0	20		Casing								
20	430	Varies 0 ⁰ -90 ⁰	Dark grey blotchy andesite. Rock is highly sheared at varying angles to								
			core axis. Disintegrates on removal from core barrel. Minor pyrite.								
430	796	98%	Pale grey (with buff-purple tones) fragmental rock possibly re-broken and cemented. Sugary appearance on								
			fresh breaks (gypsum?) Abundant pyrite stringers. Minor								
			magnetite. Minor chalcopyrite from 630 ⁰ onwards								
			633-639 Gabbro dyke (post-mineralizat	ion)					 		
			796 Hole ends								<u> </u>
										••• • • • • •	
								<u> </u>			· · ·

NEVILLE CROSBY INC.