

5211

94D/8E & 9E

SUMAC MINES LIMITED

DIAMOND DRILLING ON THE KLISUM GROUP

(OMINECA M.D.)

AUGUST - SEPTEMBER 1974

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 5211 MAP

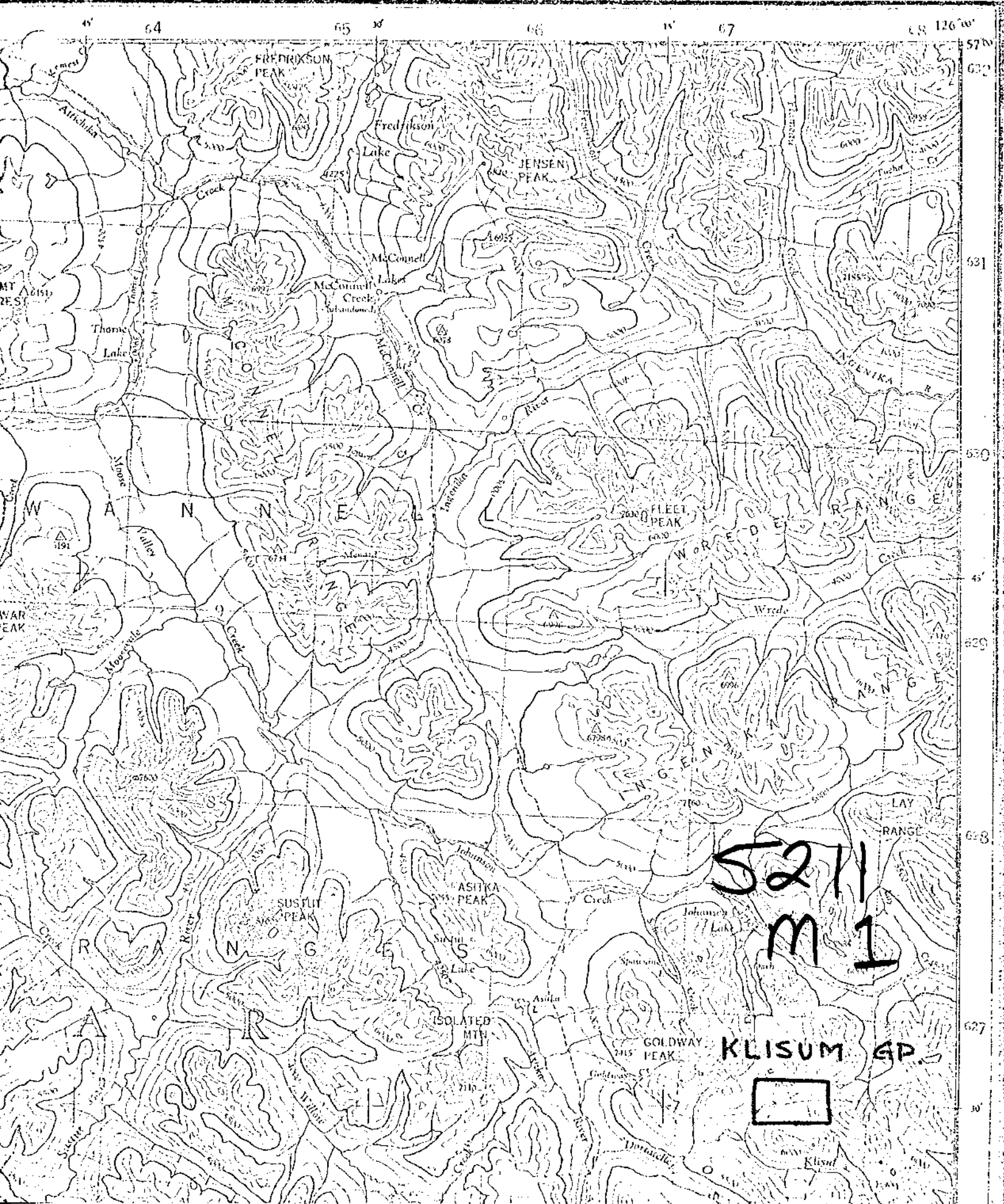
T. Brown  
22.X.74

## Introduction

This report contains the logs and costs of eleven diamond drill holes. The drilling, BQ Wireline, was done under contract by D. W. Coates Enterprises Limited, of Vancouver.

Some of the work was done during the 1973-4 assessment year for some claims for which an affidavit has been submitted already, but the majority was done in the 1974-5 assessment year and will be claimed in a later affidavit.

The core is stored on the property at the camp site.



Direct Project Costs, Klisum, 1974

(a)(b)	T.C. Scott	Aug. 4 - Sept. 11	\$ 2,256.93
	A. Stone	Aug. 4 - Sept. 11	1,344.72
	K. Hashimoto	Sept. 7 - Sept. 11	448.25
			<hr/> 4,049.90
(c)	Food and supplies		995.06
(d)	Road haulage (Russell Transfer)		456.00
(e)(i)	Fixed wing support and transportation		1,701.02
(ii)	Helicopter support		8,120.73
(h)	Report preparation		250.00
(i)	Diamond drilling contract cost		43,032.10
	Travel and communications		558.33
	Fuel		948.42
			<hr/>
		Total	<u>\$60,111.56</u>

MAPS

- #1 Location map
- #2 Diamond Drilling

T. Brown  
22 X. 74

# DIAMOND DRILL RECORD

PROPERTY KLISUM

HOLE No. KL-5

DIP TEST		
Footage	Angle	
	Reading	Corrected
0	-55°	

Hole No. <u>KL-5</u>	Sheet No. <u>1 of 1</u>	Lot <u>4S</u>	Total Depth <u>272 ft.</u>
Section _____	Dep. <u>10 + 75W</u>	Bearing <u>060°</u>	Logged By <u>K. Hashimoto</u>
Date Begun <u>Aug. 13, 1974</u>	Date Finished <u>Aug. 16, 1974</u>	Elev. Collar <u>5735</u>	Claim <u>Kli 6</u>
			Core Size <u>B.Q.</u>

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE		
0 to 22	Overburden.				
22 28	Limonite stained zone, minor malachite.				
44.5	Strongly silicified, dark green andesite. Pyrite and chalcopyrite bearing, minor magnetite to 52; same rock.				
84	Very strong magnetite concentration, also some pyrite, chalcopyrite up to 0.4% Cu.				
104	Epidote in fractures, 0.2% Cu 97' to 103'; heavy magnetite bearing porphyritic andesite, also quartz ubiquitous veining.				
131	Rather paler green andesite. Less mt. and py.				
160	Same but fewer cp (almost nil), highly fractured, 8% magnetite, 2.5% py.				
181	Epidote rich.				
208	Same as above. 187'; very fine chalcopyrite specks.				
213	Siliceous, argillaceous white pyrite bearing rock. 217' to 219'; white, pyrite bearing rock.				
227 237	Andesite dyke rock. 228' to 237'; good core recovery, others poorly recovered brecciated cores.				
240 246	Cp., mt. mineralisation 0.5% Cu.				
248	Few cp., 0.1 to 0.2% Cu.				
269	Magnetite bearing siliceous rock 1% pyrite.				
272?	Green andesite, no mineralisation at all. End of the hole.				



# DIAMOND DRILL RECORD

PROPERTY ..... KLISUM .....

HOLE No. .... KL-7 .....

DIP TEST		
Footage	Angle	
	Reading	Corrected
0	-55°	
352	-54°	

Hole No. KL-7 Sheet No. 1 of 1 Lat. 5 + 50S  
 Section ..... Dep. 13 + 50W  
 Date Begun Aug. 9, 1974 Bearing 060°  
 Date Finished Aug. 11, 1974 Elev. Collar 5700

Total Depth 352 ft.  
 Logged By K. Hashimoto  
 Claim Kli 15  
 Core Size B.Q.

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE			
0 to 26	Overburden.					
26 56	26 to 33.5; green andesite (magnetite, quartz veinlets bearing).					
33.5 34.5	Phyllitic white rock 40 to 49'; 30% core recovery.					
56 75	0.2 to 0.3% Cu. Dark green andesite, epidote, quartz.					
	81', 87' : native Cu in film on fractures.					
86 93	Dark green dyke rock (basaltic andesite).					
	110 )					
	113 ) Stronger silicification.					
	116.5) Epidote, quartz bandings bearing phyllitic siliceous rock.					
123 128 )	White, magnetite bearing pyritic zone with rare cp.					
132 134 )	Quartz vein (width 8 mm) parallel to core axis.					
	158.5) 156'; native copper, cp, magnetite also 149 to 151.					
	177 ) Native copper in fractures.					
177 191	White siliceous pyritic rock.					
	206.5 Magnetite-pyrite bearing siliceous andesite, no visible cu minerals.					
	211 Green andesite (dyke).					
	224 Occasionally cp and native cu, heavy magnetite. 0.2% Cu.					
	239 Paler green andesite, pyrite only.					
	244.5 Rather white siliceous rock, 253 to 271; the rest is pale green silicified andesite containing 2% py.					
	274 to 276.5; paler green rock.					
279 352	Pale green, silicified and argillaceous weakly magnetitized pyritic rock. Py, epidote, quartz, chlorite. Overall pyrite content; 1.5%. 352: End of the hole.					

# DIAMOND DRILL RECORD

PROPERTY KLISUM

HOLE No. KL-8

DIP TEST		
	Angle	
Footage	Reading	Corrected
0 439	-50° -57°	

Hole No. KL-8 (Sheet No. 1 of 2 (2nd page 2 of 2)) Lt. 5 + 47S  
 Section..... Dep. 13 + 52W  
 Date Begun. Aug. 11, 1974 Bearing 330°  
 Date Finished Aug. 13, 1974 Elev. Collar 5700

Total Depth 439 ft.  
 Logged By K. Hashimoto  
 Claim Kli 15  
 Core Size B.Q.

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE			
0 to 21	Overburden.					
21 26	White phyllitic argillite. Has quartz veinlets standing 50 degrees to the core axis.					
26 27	Magnetite veining.					
27 36	White sericite rich rather rhyolitic rock (argillite).					
36 124.5	Strongly silicified, and chloritized pale green andesite, containing 2 to 3% of pyrite and 2 to 8% of magnetite. From 61'; distinct amphibole phenocrysts. 62'; cp speck. 64'; hematite in fracture with magnetite and pyrite. From 72, epidote increasing. 93' to 94'; cp specks. 103' to 107'; poor recovery (60%).					
143.6	Same rock, increasing magnetite. Epidote in fractures. 137' chalcopyrite in fracture with quartz and calcite. 126'; cp.					
204	Essentially same rock, the amount of epidote increasing in fractures. 189' to 204'; erratic cp occurrences (0.2% Cu).					
205	Hematite in fractures.					
225	Few chalcopyrite specks with magnetite and quartz. 223'; cp rich.					
243	Magnetite predominates. (Magnetite in vein associated with quartz.)					
264	0.5% Cu.					
264 284	Magnetite rich, quartz, chalcopyrite veinlets 0.6% Cu, atz-veinlets; 20 to 30 degrees to the core axis.					
303	0.4% Cu.					
326	0.4% Cu. The core badly broken except 322 to 326'.					
332	0.4% Cu.					
357	0.2% Cu. 373 to 375'; 1% Cu, cp richer zone.					







# DIAMOND HILL RECORD

PROPERTY KLISUM

HOLE No. KL-10

DIP TEST		
Footage	Angle	
	Reading	Corrected
0	-50°	

Hole No. KL-10 Sheet No. 1 of 2 Lot. 8 + 00S  
 (2nd page 2 of 2) Dep. 17 + 00E  
 Section..... Bearing 180°  
 Date Begun Aug. 23, 1974 Elev. Collar. 5640  
 Date Finished Aug. 25, 1974

Total Depth 300 ft.  
 Logged By K. Hashimoto  
 Claim Kli 19  
 Core Size B.Q.

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE			
0 to 25?	Overburden.					
40	Epidote rich green andesite. Oxidized zone to 31.					
57	3% pyrite bearing silicified andesite. Mainly fissure filling py.					
70.3	2% pyrite.					
82.5	2.5% pyrite.					
95	2.5% pyrite.					
109	3% pyrite bearing silicified andesite.					
128	2% pyrite.					
128	138 Dark green epidote rich andesite with no pyrite (dyke).					
144.5	White argillized and silicified andesite with 2.5% pyrite.					
159	Dark green andesite with less than 0.5% pyrite.					
189	White silicified and argillized andesite with 3% pyrite.	186'	chalcopyrite speck.			
194	Epidote rich green andesite with 1% pyrite.					
201	Silicified and arg. andesite 2 to 3% pyrite.					
205	207 30% sulfides zone (mainly pyrite).					
218	2.5% pyrite zone with larger pyrite grain.					
239	2.5% pyrite 227' to 228'; white arg.-silic. zone.					
251	4% pyrite.					
262	5% pyrite. Badly broken core.					
274	4% pyrite chlorite-clots in arg. and silic. andesite.					
286	5% pyrite 276' to 278.5'; black clay zone with very fine grained pyrite.					



# DIAMOND WELL RECORD

PROPERTY \_\_\_\_\_ KLISUM \_\_\_\_\_

HOLE No. KL-11 \_\_\_\_\_

DIP TEST		
Footage	Angle	
	Reading	Corrected
0	-50	

 Hole No. KL-11 Sheet No. 1 of 1  
 Section \_\_\_\_\_  
 Date Begun Aug. 26, 1974  
 Date Finished Aug. 28, 1974

 Lat. 15 + 00S  
 Dep. 27 + 00W  
 Bearing 225°  
 Elev. Collar 5595

 Total Depth 317 ft.  
 Logged By K. Hashimoto  
 Claim Kli 14  
 Core Size B.Q.

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE			
0 to 34	Overburden.					
34 182	Green Andesite					
	36' to 43'; very large amphibolite phenocrysts bearing Ad.					
	45'; chalcopryite. 50'; native copper.					
	60' to 61'; native copper-coloured clayey mineral.					
	62.5, 63'; chalcopryite, 79' to 81'; cp specks (0.2% Cu).					
	82'; cp. .... to 114' the rock contains 2% pyrite.					
	114' to 128'; erratic cp. specks. 1.5% pyrite.					
	137' to 139'; erratic cp., 153' to 154'; cp. and pyrite.					
	167' to 168'; clayey zone (sheared zone).					
	155' to 177'; 2% pyrite. 177' to 182'; 2.5% pyrite.					
182 200	Phyllitic green andesite. Quartz veinlets bearing.					
200 217	Green andesite, 211' to 214'; large amphibolite phenocrysts.					
217 218	Contact clayey zone.					
218 220	Contaminated zone.					
220 241	Biotite porphyry. Well fractured, clayey, no mineralization.					
241 246	Andesitic tuff. Brittle, well laminated rock.					
246 248.5	Tuff-breccia (andesitic).					
	267 Epidote rich andesitic tuff.					
	269.5 Phyllitic white rock.					
269.5 217	Green andesitic lava. (Amphibole-Andesite). 317'; End of the hole.					

# DIAMOND HILL RECORD

PROPERTY KLISUM

HOLE No. KL-12

DIP TEST		
Footage	Angle	
	Reading	Corrected
0	50°	

Hole No. KL-12 Sheet No. 1 of 2 Lat. 12 + 00S  
 Section (2nd page 2 of 2) Dep. 42 + 00W  
 Date Begun Aug. 28, 1974 Bearing 225°  
 Date Finished Aug. 30, 1974 Elev. Collar 5645

Total Depth 330 ft.  
 Logged By K. Hashimoto  
 Claim Kli 12  
 Core Size B.Q.

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE			
0 to 24	Overburden.					
24 45	Pale green andesite, 1.5% to 2% pyrite bearing (mostly cubic) quartz calcite stringers are abundant. 32'; chalcopyrite in quartz stringer.					
45 80	Brittle, white, argillaceous broken rock. 54'; cp specks. Quartz calcite stringers; 25 degrees to drill axis. Occasionally fine grained cp, overall grade: 0.05% Cu. 54.5; cp speck.					
80 121	Darker green andesite. To 97; 2.5% pyrite (mostly as stringers) 100 to 121; epidote rich, also strong chloritization.					
121 123.5	Dark green pyrite absent chlorite rich andesite.					
127	3 to 5% pyrite bearing.					
144	Argillaceous, brittle andesite. 1.5% pyrite.					
144 147	Pyrite absent dark green chloritic andesite, intruded by barren quartz stringers.					
167	Around 163; 30 degrees to the core axis foliation bearing rock.					
170 178	Epidote rich 1.5% pyrite bearing.					
195	Rather paler green coloured altered andesite to 204.					
204 211	Abundant epidote bearing (1.5 by 2.0 mm grain size). 207.7; native copper(?) in fracture.					
221.5 233	Epidote rich porphyritic andesite, less than 1% of pyrite.					
240	Sericite chlorite rich 245 to 248; dark green fine grained epidote chlorite-rich andesite, containing quartz-calcite stringers.					
266 277	Good core recovery 2% pyrite bearing green andesite. Mainly pyrite in veinlets.					
295.3	Argillaceous, pyritized andesite. Gypsum, chlorite, sericite predominant. To 303; chlorite rich, 1.5% pyrite.					



# DIAMOND DRILL RECORD

PROPERTY KLISUM

HOLE No. KL-13

DIP TEST		
Footage	Angle	
	Reading	Corrected
	45	

Hole No. KL-13 Sheet No. 1 of 1  
 Section \_\_\_\_\_  
 Date Begun Aug. 18, 1974  
 Date Finished Aug. 19, 1974

Lat. 4 + 00S  
 Dep. 10 + 75W  
 Bearing 000°  
 Elev. Collar 5735

Total Depth 225 ft.  
 Logged By K. Hashimoto  
 Claim Kli 6  
 Core Size B.Q.

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE		
0 to 21	Overburden.				
66	Siliceous, chloritized and epidotized andesite, abundant magnetite bearing. 24' to 32'; malachite stained, also some chalcopryrite.				
71	1.5% pyrite, magnetite, but no cp, epidote in fractures.				
71 95	Chalcopryrite bearing zone (0.3% Cu).				
95 99	0.8% Cu.				
121	0.25 to 0.30% Cu. Abundant epidote.				
133.5	0.1% Cu, less magnetite.				
137	Same				
141	Occasional chalcocite coating on pyrite crystals. To 148; white phyllitic rock, containing 2% of pyrite.				
148 171	Green, massive siliceous andesite which has no pyrite. 171 to 176; no cores were recovered. Also 151 to 171; poor recovery.				
195	Darker green andesite, 1 to 2% pyrite bearing. 186' to 187'; magnetite rich zone.				
195 225	2% pyrite, erratic chalcopryrite specks (210', 223')				
225	End of hole.				





# DIAMOND DRILL RECORD

PROPERTY KLISUM

HOLE No. KL-15

DIP TEST		
Footage	Angle	
	Reading	Corrected
0	-42°	
400	-50°	

Hole No. KL-15 (2nd Sheet No. 1 of 2 page 2 of 2) Lot. 10 + 00S Total Depth. 400 ft.  
 Section. \_\_\_\_\_ Dep. 11 + 45E Logged By. K. Hashimoto  
 Date Begun. Aug. 31, 1974 Bearing. 000° Claim. Kli 17  
 Date Finished. Sept. 1, 1974 Elev. Collar. 5725 Core Size. B.Q.

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE			
0 to 50	Overburden.					
50 67	Pale green andesite, fine grained pyrite mostly in fractures cubic-pyrite predominant. Badly broken cores					
82	3% pyrite, same rock 81.5 to 82; sericite rich.					
97	95 to 96; very siliceous, pyrite; cubic larger grained.					
112	96 to 102; rather paler green andesite 105 to 111; paler 111 to 116; rather harder dark green andesite with 1% pyrite.					
112 125	To 171; pale green andesite, 1.5 to 2% of pyrite.					
152	159; magnetite bearing zone. Fractures mainly subparallel to drill axis.					
171 206	Paler green sericite rich tuffaceous rock.					
208	206; chalcopryrite and pyrite banding.					
207 210	Paler green coloured rock.					
210 214	Dark green basaltic andesite. To 237; dark green andesite 1.5% pyrite bearing. 236; chalcopryrite speck.					
237 307	Green basaltic andesite, very weak pyritization. 247 to 248; rather stronger silicification. To 278; strong chloritization. Less than 1% pyrite.					
280 282	Silicified, brittle rock, pyrite 1%.					
307 329	2.5% pyrite bearing, brittle, chloritized, sericitized and silicified pale green andesite. 325; chalcopryrite specks (finer grained).					
329 331	White, rather phyllitic rock. Sericite rich, foliated rock. Foliation; subparallel to the drill axis.					
	344 to 345; chalcopryrite zone (0.5% Cu), 359 to 360; pyrite, chalcopryrite zone (0.4% Cu).					
351 357	Green, less pyrite zone.					
373	Minor chalcopryrite (0.2% Cu).					





5211  
M2

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 5211 MAP #2

SULLIVAN RODGERS  
**SUMAC - 321**  
KLISUM GROUP  
(OMEGA M.D.)  
DIAMOND DRILLING  
1974

*T. Rodgers*  
02-7-74