DIAMOND DRILL RECORD

LOGGED BY John C. Lund

820133 103P/06 of Be 11/1

PROPERTY Kinskuch Lake

D.D.H. No. 70-K2 PAGE 1

LATITUDE L5SE BEARING OF HOLE S32°W STARTED Sept. 10/70

CLAIM No.

DEPARTURE 250NE DIP OF HOLE -75° COMPLETED Sept. 22/70

DIRECTION AND DISTANCE FROM NE. CLAIM POST

ELEVATION 3800' approx. DIP TESTS DEPTH 753 feet.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY				
0	195	OVERBURDEN:									
		0 - 60' gravel and boulders									
		60 - 100 mainly sand									
		100 - 150 boulders and sand									
		150 - 195 boulders and clay									
		above depths approximate only									
		Casing: 0 - 35 = H casing									
		0 - 100 = N casing									
		0 - 191 = B casing									
		191 - 195 = No casing									
195	198	CHLORITIC VOLCANIC ROCK:									
		Dark green chloritic andesite, intensely fractured pyrite about 7% average.									
		No visible chalcopyrite. Some oxidation of pyrite. Slightly mottled									
		appearance may suggest that the rock was originally fragmental. Recovery									
		about 80%.									
198	207	ROCK AS ABOVE:									
		Rusty weathering stops at 199 feet. Rock is dark green coarse grained									
		andesite. Pyrite about 7%; trace chalcopyrite. Rock is finely veined									
		by a dark material (biotite?). Recovery about 80%.									
207	213	FINELY BRECCIATED VOLCANIC ROCK:									
		Rock has a coarse granular appearance because of rounding of fragments due									
		to continued movement. Interfragment spaces filled with pyrite and dark									

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY				
		fine grained material, feldspars are vague amber coloured blotches.									
		Pyrite about 10%, no visible chalcopyrite. Rock becoming increasingly phaneritic.									
213	225	CHLORITIC ANDESITE:									
		Rock dark green badly fractured chloritic rock generally a coarse grained aphanitic rock. Brecciated at 221 feet, white quartzose fragments up to 3/4" long in fine green matrix. Traces chalcopyrite: pyrite 7 - 10%, average about 9%. Pyrite occurs as clusters and disseminated grains. Finely disseminated chalcopyrite at 222 feet.									
225	230	ROCK AS ABOVE:									
		Scattered finely disseminated chalcopyrite at 229 feet. Pyrite about 7% Recovery about 1' core.									
230	231	ROCK AS ABOVE:									
		Pyrite about 8 - 15%, narrow quartz-carbonate veins. No visible chalcopyrite. Recovery 6" core.									
231	234	GREY SILICEOUS ROCK:									
		Pyrite average about 10%. No visible chalcopyrite, recovery 1' core.									

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY				
234	235,5	CHLORITIC ANDESITE:									
		2" rubble only. Pyrite about 7%, chalcopyrite about 0.5% as disseminated grains.									
235.5	238	NO CORE									
238	240	ROCK AS ABOVE:									
		Recovery 1' broken rock and rubble. Pyeite up to 18% variable, average about 8%. Sparse chalcopyrite.									
240	253	ROCK DARK GREEN ANDESITE:									
		More dioritic in appearance. Chloritic alteration gives light coloured minerals a dark appearance. Mafics about 10%. Pyrite about 7%. No visible chalcopyrite. Recovery 6" rubble.									
253	254	ROCK AS ABOVE;									
		Increased recovery. Still broken. Trace chalcopyrite. Pyrite about 8%.									
254	255	FINE GRAINED DIORITE:									
		Hornblende about 10%, pyrite 8-10%, rock chloritic, occasional quartz carbonate vein with pyrite. Recovery 95%.									

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY				
255	259	ROCK AS ABOVE:									
		Decrease in granitic character last foot. Strongly chloritic. Trace chalcopyrite, pyrite about 8%.									
259	260	COARSE GRAINED CHLORITIC ANDESITE:									
		Little change from above. Pyrite decrease to about 5%. Trace chalcopyrite only. Good Recover - 100%.									
259	261	CHLORITIC ANDESITE (?):									
		Pyrite mainly on fracture about 5%. Trace chalcopyrite. Recovery 95%.									
261	265	ROCK AS ABOVE:									
		As above to 264, then 1' of breccia. Contact between is 75° to core axis. Marked increase in chalcopyrite; possibly .3 - .6%, spotty; pyrite 7-9%.									
265	268	CHLORITIC ROCK (Greenstone):									
		Rock may best be called greenstone, banding 55° to core axis, decrease chalcopyrite. Decrease pyrite, pyrite about 3-5%.>									
268	278	AS ABOVE: Scattered clusters of disseminated chalcopyrite. Pyrite about 5%.									
		Patches fine black mineral (Biotite?). Veinlet chalcopyrite-pyrite at 273' about 5/8" wide.									

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY				
278	285.5	CHLORITIC ANDESITE (Greenstone) as above: Rock is more competant. Occasional quartz and quartz-carbonate veinlet. Chalcopyrite is finely disseminated, irregular throughout section occurring both within rock and on fractures, also occurs with quartz.									
285.5	300	GREEN ANDESITE (Volcanic Rock): Chlorite less prevalent. Rock is laced with carbonate and quartz-carbonate veinlets. Pyrite varies from 3% to 8% chalcopyrite, scattered less than 0.3%. Recovery very good (100%). Rock is well fractured.									
300	322	Andesitic volcanic rock: In places appears fragmental. Intensely fractured. Fragmental matrix of rock increase from 306.5 to 322. Fault at 311'. Pyrite variable, average 8%. Chalcopyrite sparse and scattered. Quartz-carbonate veins as above. Pyrite-chlorite-pyrite mineralization is in veins fractured and as disseminated grains.									
322	344	LITTLE CHANGE: Rock increasingly crushed, lighter colour fault 30° to core axis at 329'; Brecciation and fault 339 - 342' sparse chalcopyrite; pyrite about 5% or less. Variable.									
344	354	ANDESITIC VOLCANIC ROCK AS ABOVE: Increase in mafic veins as vague black spots. Chlorite still prevalent. Pyrite about 5-7% as clusters of grains in									

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY				
		fractures and interfragmented spaces. Rock crushed-chalcopyrite sparse									
		< 0.3%, scattered.									
354	369	DARK GREEN VOLCANIC ROCK:									
		Rock less fractured, fewer carbonate veins and veins less irregular. Angle									
		of veins to core axis between 25° and 60°. Pyrite 8-10% from 354 to 359'.									
		Decrease where rock less fractured to about 6%. Chalcopyrite visible but									
		sparse < .3%. Recovery 100%. Pyrite in carbonate veins at 361, 362, 366,									
		366.5.									
369	392	VOLCANIC ROCK AS ABOVE:									
		Considerable carbonate and barite (?) to 374, then decrease. Carbonate is									
		part flesh or pink color. Pyrite about 5%, chalcopyrite < 0.3% and spotty.									
		Chlorite still prevalent.									
392	394	ROCK AS ABOVE, last 6" crushed.									
394	420	CRUSHED VOLCANIC ROCK, broken ground and rehealed, by pink carbonate.									
		From 404 - 410 only 6" core returned and represents centre of fault zone.									
		Rock is more competant last 5'. Pyrite about 3-5%, chalcopyrites sparse									
		and spotty: Decreases to centre of fault and increases again near 418'.									
420	425	AS ABOVE:									
		Fault at 424.5 at 15° to core axis. Some sericite.									

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY				
425	441	ROCK DARK GREEN VOLCANIC:									
		Slight increase in chalorite. Decrease pyrite. Pyrite about 3%. Trace only chalcopyrite. Fault at 431 ' 20° to core axis; in places rock is cut by dark hairline fractures. Occasionally these fractures < 1/32" are filled with clear mineral.									
441	463	VOLCANIC ROCK AS ABOVE:									
		Trace only chalcopyrite. Pyrite about 3-5%. Crushed 458 to 462', probably fault. There is an occasional vein of extremely fine-grained pyrite.									
463	467	ROCK AS ABOVE.									
467	481	FINE DENSE GREY ROCK with up to 15% finely disseminated pyrite. Traces only of chalcopyrite noted. Rock intensely fractured and veined by quartz and carbonate, mainly carbonate. Decrease chlorite.									
481	483	VOLCANIC ROCK: Broken, very little chalcopyrite at 483'. Pyrite about 7-10%.									
483	486	ROCK AS ABOVE, brecciated and faulted.									
486	504	GREEN VOLCANIC ROCK: Decrease carbonate veining slightly disseminated chalcopyrite 489 - 490. Pyrite about 3%.									

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY				
504	509	AS ABOVE:									
509	529	ROCK IS FINE GRAINED GREY GREEN FRAGMENTAL VOLCANIC. Increase carbonate veins (pink). Pyrite about 10% in veins and interfragmental spaces. Chalcopyrite sparse. Prominent fracture direct 20°-30° to core axis. Rock is finely laced with fractures.									
529	550	FRAGMENTAL (?) VOLCANIC ROCK: Chlorite prevalent to 539', then decrease. Rock is laced with thin carbonate veins. A set of late veinlets less than 1/32" thick filled with soft clear mineral with cleavage near perpendicular to veinlet wall. Possibly barite. Cut carbonate veins. Pyrite about 3° - 15°, average 7%. Chalcopyrite sparse. Dyke (andesite) 545 - 546.5'; contacts 20° - 30° to core axis.									
550	575	VOLCANIC ROCK AS ABOVE: Pyrite average about 8% increase chalcopyrite as finely disseminated on fractures; spotty.									
575	599	VOLCANIC ROCK: Decrease in pink carbonate veins. Increase chalcopyrite to about 0.4%. Pyrite about 8%.									
599	621	VOLCANIC ROCK: Finely fractured and laced with white quartz-carbonate veins. Decrease chalcopyrite (about 0.1%). Pyrite about 8- 10%.									

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY				
621	646	DARK GREEN VOLCANIC ROCK AS ABOVE:									
		Lineation at about 40° to core axis. Pyrite about 10%. Rock is mottled, soft, fragmental. Sparse to trace of chalcopyrite.									
646	667	AS ABOVE:									
		Fault at 5° to core axis at 666'. Near parallel fault at 656.5'.									
667	693	LITTLE CHANGE:									
		Fault 35° to core axis at 680.5'. Pyrite 8-10%, chalcopyrite sparse < 0.2% and scattered. Lighter colour - grey-green.									
693	714	VOLCANIC ROCK AS ABOVE:									
		Less fractured section 698 - 704' has about 15%-20% pyrite. Slightly darker in colour. Chalcopyrite spotty < 0.2%.									
714	740	ROCK AS ABOVE:									
		Distinctly fragmental. Pyrite 8-10%, chalcopyrite about 0.2% but spotty.									
740	753	LITTLE CHANGE:									
		Rock less distinctly fragmental. Pyrite about 10%. Chalcopyrite 0.2% or less, scattered. END OF HOLE. Recovery about 90%+									

DIAMOND DRILL RECORD

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PROPERTY Kinskuch Lake

D.D.H. No. 70-K1A PAGE 1

LATITUDE L20+80SE BEARING OF HOLE N35°E STARTED Aug. 31/70

CLAIM No.

DEPARTURE L00+80NE DIP OF HOLE -75° COMPLETED Sept. 6/70

DIRECTION AND DISTANCE FROM NE. CLAIM POST

ELEVATION 4025 approx. DIP TESTS DEPTH 266 feet

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY				
0	43	"H" Casing in Overburden									
43	128	"H" Rods - Used as casing in Overburden									
		Overburden consists of abundant boulders from fist size to 10 feet									
		through with gravel in between boulders. Complete Mud loss at 84 feet - never recovered.									
128	151	OVERBURDEN:									
		Rock cores like bedrock. It is composed mainly of green and purple agglomerate boulders. Rubble and clay at 135 feet. Recovery - 26 feet of core.									
151	174	OVERBURDEN:									
		Boulders of mixed composition, mainly volcanic.									
174	177	OVERBURDEN:									
		Mixed pebbles and boulders cemented by fine clay. Cores well.									
177	178	COURSE SAND:									
178	206	OVERBURDEN:									
		Mixed pebbles and boulders with a wide compositioned range cemented by approximately 60% clay. Good Recovery.									

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY Cu%	ASSAY Ag oz	ASSAY Au oz
206	209	OVERBURDEN:							
		Pebbles. No Clay.							
209	219	OVERBURDEN:							
		Pebbles and boulders cemented by clay. About 60% Clay.							
219	220	BEDROCK:	600	219	229	10'	0.04	0.2	0.01
			601	229	239	10	0.03	0.1	0.01
		Pale grey-green medium to fine-grained diorite contains about 8-10% pyrite	602	239	249	10'	0.02	Tr.	0.01
		as cubes and grains. Rock is very blocky (fractured) generally breaking	603	249	259	10'	0.04	0.1	0.01
		along fracture, lined with pyrite or quartz-carbonate veins. No visible	604	259	266	7'	0.04	0.1	0.01
		chalcopyrite. Recovery = 1 foot.							
220	221	DIORITE:							
		Grey-green medium to fine-grained mafics only dark hazy blotches. Crystal							
		outlines in rock indistinct. Rock could be altered coarse andesite or							
		fine diorite, cut by quartz-carbonate veins. Main direction @ 75° to core							
		axis. Highly fractured rock that breaks in many directions. Pyrite =							
		about 8%, chlorite on fractures and as alteration of mafics.							
221	225	ROCK AS ABOVE:							
		Decrease pyrite to about 3% average, spotty. Carbonate veins with cleavag							

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY				
		perpendicular to vein walls. Veins < 3/16". Mafics more distinct mainly									
		chloritized hornblende.									
225	228	AS ABOVE:									
		Less distinctly dioritic. Nondescript appearance may be due to silicification.									
		Chalcopyrite on fractures (70° to core axis) at 227.5'. 1/2" quartz vein									
		at 227.5'									
228	237	HORNBLENDE DIORITE:									
		Rock generally indistinctly dioritic but occasionally shows crystal outlines.									
		Little change from above. Pyrite about 3 - 5% variable.									
237	243	DIORITE:									
		Rock as above, mafics not distinct; chloritic. Increase pyrite to about									
		6 - 7% average. Occasional grain chalcopyrite closely associated with									
		pyrite at 242.5 feet. Rock still broken. Occasional quartz-carbonate vein.									
		Dark hairline fracture at 238', dark mineral unidentified.									
243	249	DIORITE:									
		Increase in chlorite. Pyrite about 5%.									
249	255	DIORITE:									
		Little change from above. Pyrite in finely disseminated grains and poorly									

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LATITUDE _____ BEARING OF HOLE _____ STARTED _____

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DIRECTION AND DISTANCE FROM NE. CLAIM POST

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FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY				
		developed cubes; commonly appears fractured. Decrease chlorite toward									
		255 feet. Pyrite about 6%.									
255	266	ROCK AS ABOVE:									
		Pyrite about 7%.									
		Abandoned hole at 266 feet because of caving and loss of rods down hole.									
		Total core Recovery about 85%.									

DIAMOND DRILL RECORD

LOGGED BY John C. Lund

OCT - 7 1970 B BR. 11/1

PROPERTY Kinskuch Lake

D.D.H. No. 70-K7 PAGE 1

LATITUDE L20+80SE BEARING OF HOLE STARTED Aug. 25/70

DEPARTURE L00+80NE DIP OF HOLE -60° COMPLETED Aug. 30/70

ELEVATION 4025 DIP TESTS DEPTH 122 feet

N

CLAIM No.

DIRECTION AND DISTANCE FROM NE. CLAIM POST

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE No.	FOOTAGE FROM	FOOTAGE TO	SAMPLE LENGTH	ASSAY				
0	12	"H" Casing									
12	64	"N" Casing									
64	101	"BX" Casing									
0	122	OVERBURDEN:									
		Composed of boulders from fist size to eight feet in diameter with gravels fitting cavities between boulders.									
		Lost Circulation: at 80 - 93'. After losing mud the hole deteriorated rapidly and "N" casing could not reach beyond 64 feet.									
		ABANDONED HOLE AT 122 feet.									