



42B01NW0050 41 KEITH

010

Diamond Drilling

Township of KEITH

Report NO 41

Work performed by: Garnet Gold Mines

Claim NO	Hole NO	Footage	Date	Note
	1	735'		(1)
	2	900'		(1)
	3	584'		(1)
	4	690'		(1)
	5	775'		(1)
	6	752'		(1)
	7	795'		(1)
	8	306'		(1)
	9	748'		(1)
	10	597'		(1)
	11	685'		(1)
	15	795'		(1)
	16	653'		(1)
	17	680'		(1)

1726

Notes:

(1) These holes were located in a group of 27 claims shown in the report, and were drilled in 1946-47.



ONTARIO
DEPARTMENT OF MINES

7-41
RESIDENT GEOLOGIST
59 THIRD AVENUE, TIMMINS, ONT.

GARNET GOLD MINES LTD.

Keith Twp.

Sudbury Mining Division

Introduction:

This report represents a brief summary of operations during the summer of 1946 and the winter of 1946-47.

The diamond drill core and a small part of the surface was examined. The surface map included with this report was made by D. Giachino, and the program of diamond drilling was largely conducted under his direction. Toward the end of the work, however, Mr. Murray Watts, of Chamberlin Management Corporation was in charge.

Location & Access:

The property consists of 27 claims in Keith Twp., adjoining directly west of Joburke Gold Mines Ltd., and within concessions VIII and IX. The claim numbers are as follows:

S43525 - S45542 (18 claims)
S43571 - S43579 (9 claims).

Permanent log camps have been constructed in the S.E. corner of claim 43541.

The property is reached by a 3 mile tractor road along the line between concession VIII and concession IX from Joburke Station. Joburke Station is on the main line of the C.N.R. from North Bay to Winnipeg, about 14 miles south east of Foleyet.

Purpose and Extent of the Work

The property is located to the west of Joburke Gold Mines, and along the projected strike of formations on the Joburke property. The subsequent program of mapping and diamond drilling was carried out primarily with the object of exploring the extensions of the Joburke shear zone.

Approximately 9600 feet of drilling was completed to the end of March, 1947.

T-41

GARNET GOLD MINES LTD.

Report by E. L. Bruce on Specimens of Diamond Drill Core

Summary

Specimens numbered 1, 2, 3, 4, 5, 6. All of them are faintly foliated so that they break at high angles across the cores.

Microscopic examination shows that the six specimens appear to belong to two groups. It corroborates the field classification excepting that the conglomeratic nature of No. 4 is not evident on the small scale of the specimen. It should be stated that the microscopic evidence alone is not sufficiently conclusive to classify the specimens with absolute certainty. The following is given as the probable classification.

Nos. 1, 4, 5. Sediments which are highly altered and somewhat schistose.

No. 2 Feldspar Porphyry.

No. 3, 6. Quartz Porphyry.

The porphyries as well as the sediments are altered. The groundmass shows schistosity and some of the phenocrysts are broken into small, irregular fragments that are scattered through the groundmass. In both sediments and porphyries, there is considerable chlorite, sericite, and carbonate, and some pyrite. Stringers of quartz and carbonate traverse several of the specimens.

Detailed Descriptions

No. 1 - d.d.h. 1 - 90'	- Altered greywacke.
No. 2 - d.d.h. 1 - 171'	- Sheared Quartz Porphyry.
No. 3 - d.d.h. 1 - 676'	- Sheared Quartz Porphyry.
No. 4 - d.d.h. 3 - 205'	- Sheared fine Conglomerate.
No. 5 - d.d.h. 3 - 219'	- Greywacke.
No. 6 - d.d.h. 2 - 233'	- Sheared Quartz Porphyry.

No. 1 The rock of the drill core is fine-grained, pale grey, and only slightly schistose, as shown by the tendency to break across the core at an angle to its elongation, giving a smooth, glossy surface.

Under the microscope, the specimen is very fine-grained, with abundant quartz. Schistosity is only faintly marked. The mineral assemblage is a fine grained, equigranular mosaic of interlocking quartz grains, with tiny foils of sericite and of pale green chlorite lying between the grains. Areas

of carbonate flood, and obscure areas of the mosaic. Its uniformly fine texture, and the abundance of quartz indicates that the rock is a sediment. It should properly be termed an impure quartzite rather than greywacke.

No. 4 Field term Conglomerate.

This rock consists of a few fairly large grains of quartz set in a matrix that has a blotchy character due to the fact that parts of the section are fine-grained, other parts coarser. There are, therefore, three sizes of grains - very fine, intermediate, and coarse. The rock also has a streaked character due to the occurrence of roughly parallel stringers, some of which are filled with quartz, others carbonate, and others chlorite. The fine grained material in which the larger grains lie, consists of a mosaic of small quartz grains, between which there are foils of chlorite, and wisps of sericite. Pyrite occurs sparsely as cubes.

No. 5 This ^{is} a fine-grained, nearly equigranular mosaic and made up chiefly of quartz grains with foils of pale green chlorite and wisps of sericite. These are roughly parallel, giving the rock a rude foliation. There are numerous specks of a muddy to nearly opaque mineral, probably clayey in character. This rock seems to be undoubtedly greywacke.

No. 2 - is a pale grey, silicious rock that appears equigranular in hand specimen but that under the microscope is seen to contain a few grains larger than the rest, which are considered to be phenocrysts. The phenocrysts have the form of feldspars, and albite twinning shows faintly but not clearly enough to make identification of the composition possible. These are set in a groundmass of quartz with rather considerable quantity of sericite. Stringers of carbonate traverse the section - Feldspar Porphyry.

No. 3 In this rock there are a few large grains of quartz believed to be phenocrysts, and many angular quartz fragments, considered to be pieces of phenocrysts, broken up by deformation of the rock. The unbroken grains are rounded and embayed as is common in most quartz porphyries. The groundmass is a fine-grained mosaic of quartz, chlorite, and sericite, much like that of No. 2. It does not differ very much from the greywackes except that in these rocks, the fine-grained part seems fairly uniform in size. That is, there are only two sizes of grains - Quartz Porphyry, but the microscopic evidence is not entirely conclusive.

No. 6 Resembles No. 3. Several tiny cubes of pyrite occur in the section.
Quartz Porphyry.

7141

Geology:

Outcropping is largely confined to the north half of the property. The southern part, which was expected to contain the extension of the Joburke ore horizon is largely underlain by swamp.

Surface mapping showed the north part of the property to be underlain largely by rather massive andesitic lavas, with local shearing, particularly toward the south.

Two narrow bands of iron formation were traced by dip needle across the property and they apparently represent the extension of the iron formation outcropping between Mackeith Lake and Palomar Lake on the Joburke property. Using this iron formation as a marker horizon, the shear zone containing the quartz-carbonate veins on the Joburke should lie just to the south of the outcrop area on the Garnet Gold.

Along this south edge two small outcrops of rhyolite porphyry were found. These were thought at the time to represent the same horizon as the rhyolite porphyry outcropping north of the ore zone on the Joburke, but subsequent information makes this appear improbable.

The diamond drilling was concentrated along the southern part of the property. The swamp was completely cross-sectioned near the west end, and partly cross-sectioned on the east. A series of 5 joint holes were also drilled with Joburke Gold Mines on the East boundary. These were located to intersect the extension of the farthest west surface showing on Joburke.

The diamond drilling showed that the portion of the property covered by swamp is underlain by a wide complex of rhyolites, tuffs, and sediments, with a width of at least $\frac{1}{2}$ mile. The sediments comprise quartzose greywackes and argillites, which grade to black, graphitic tuffs. They occur in bands up to 200 feet in width, and top determinations by grain gradation indicate that they face north. The graphitic tuffs occur in narrow bands up to about 40 feet wide in the andesitic lavas to the north, in the rhyolites and in the sediments. Drilling showed that sediments are also interbedded with the sheared andesites along the south edge of the outcrop zone. They apparently occupy low ground, and were not recognized in surface mapping.

The rhyolite series is made up of coarse quartz porphyry containing a large number of quartz

eyes up to about $\frac{1}{4}$ inch in diameter, and a light grey, siliceous member in which quartz eyes can be seen only with the aid of a hand lens. These rocks have been termed quartz porphyries, as a result of thin section analysis. It is possible that they represent intrusive sills and dykes, but their association with the narrow bands of tuff and quartzose sediment make it appear probable that they are extrusive. In the drill core it is often difficult to distinguish between the quartzose greywacke, the fine textured rhyolite, and a grey felsite which occurs in narrow dykes. The problem is increased by the extensive shearing which has converted both sediments and rhyolites into quartz-sericite schists.

This series of sediments and rhyolite porphyries is thought to extend south of the ore zone at Joburke Gold Mines. The location of the westward extension of the ore horizon has not been established, though the rock types in d.d.h.'s 8 and 9 are comparable. However, a strong fault is indicated on the Joburke property striking about N 70°E and it would project into the strong chloritic schist of d.d.h. 4 of the Garnet Gold. Also, the ore horizon which strikes slightly south of east, would intersect this fault zone before reaching the property boundary with Garnet Gold Mines.

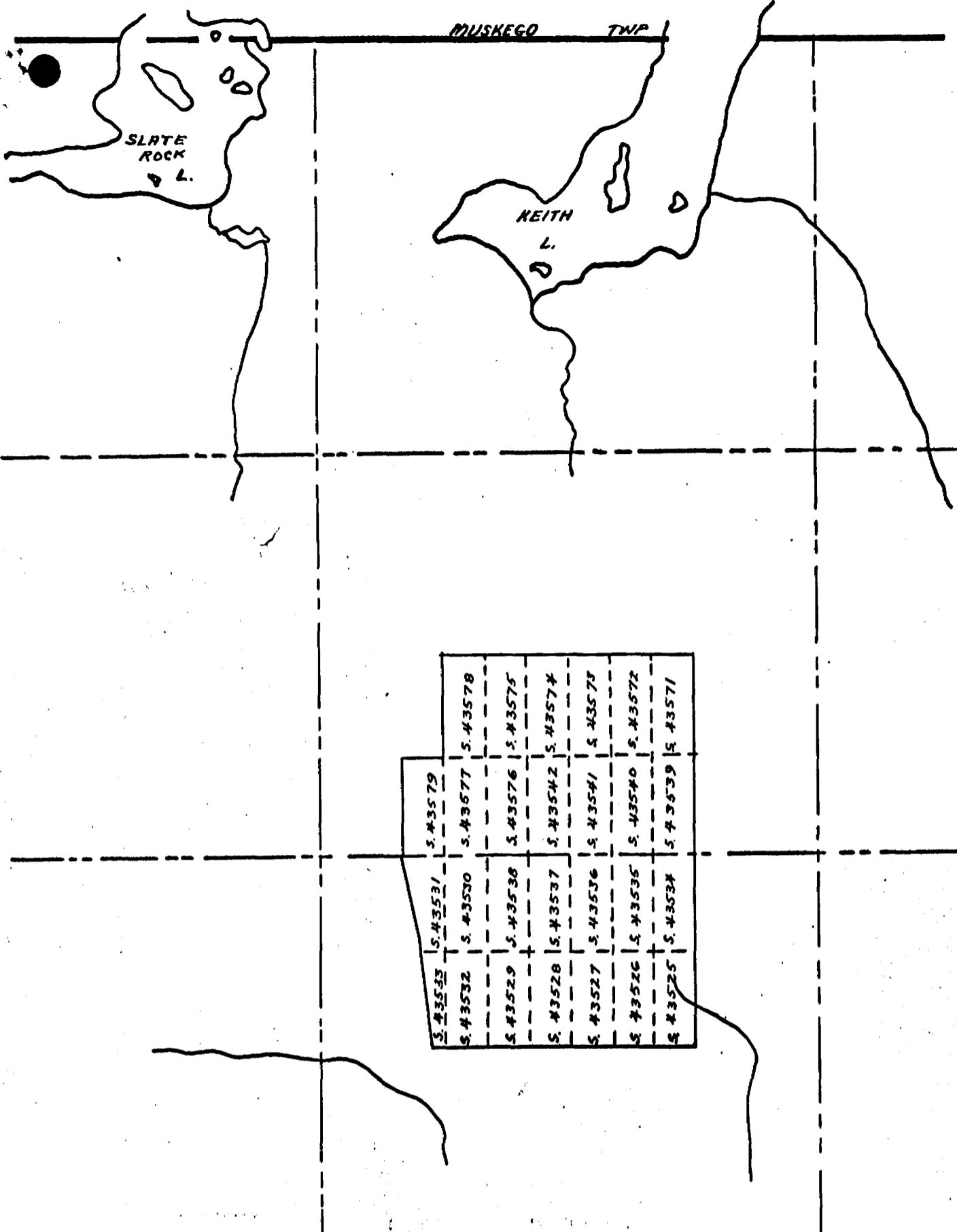
Values:

No values of interest were encountered.

Nelson Hogg

Timmins, Ontario,
June 4, 1947.

Nelson Hogg,
Resident Geologist.



S. #3533	S. #3531	S. #3579
S. #3532	S. #3530	S. #3577
S. #3529	S. #3538	S. #3576
S. #3528	S. #3537	S. #3542
S. #3527	S. #3536	S. #3541
S. #3526	S. #3535	S. #3540
S. #3525	S. #3534	S. #3539
		S. #3578
		S. #3575
		S. #3574
		S. #3573
		S. #3572
		S. #3571

GARNET GOLD MINES LIMITED

Keith Township

Scale: 1 inch = 40 chains

PROPERTY GARNET GOLD MINES LTD.

DIAMOND DRILL RECORD

HOLE NUMBER 1
 SHEET NUMBER 1
 SECTION FROM 0' TO 658'

LOCATION: LAT.
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP

STARTED
 COMPLETED
 ULTIMATE DEPTH 735'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 25	Casing				
25-90	Sedimentary Tuffs - Yellow to grey sheared and badly broken.				
	63-69 - Dark slatey Tuffs.				
	69 - Yellow to grey, dense, siliceous type with occasional quartz grains, visible.				
	Also some short sections of old sheared diorite.				
	Thin section at 90' called impure quartzite by E. L. Bruce. 90'	22			
90-735	Quartz-Sercite Schist - Light yellow grey, sheared rock with core in buttons. Contact with sediments is obscured by shearing, but thin section at 171 called Quartz Porphyry by E. L. Bruce. Extremely sheared except for a few dioritic dykes. 173'	23			
	407-408 - Quartz with some chalco and pyrite.				
	623-637 - Silicified zone with some pyrite.				
	649-658 - Old diorite dyke except 6 inches of red, altered quartz porphyry at 655'. A section of this				

DIAMOND DRILL RECORD

LOCATION: LAT.
DEP.

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING.....
DIP.....

STARTED

COMPLETED

ULTIMATE DEPTH 735'

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$			
	inclusion was called Quartz Porphyry <i>in</i>							
	thin section, by E. L. Bruce.							
	683-690 } Dull red syenitic dykes.							
	691-693 }							

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PROPERTY GARNET GOLD MINES LTD.

HOLE NUMBER 2
 SHEET NUMBER 1
 SECTION FROM 0' TO 275'

DIAMOND DRILL RECORD

LOCATION: LAT. _____
 DEP. _____
 ELEVATION OF COLLAR _____
 DATUM _____
 DIRECTION AT START: BEARING _____
 DIP _____

STARTED _____
 COMPLETED _____
 ULTIMATE DEPTH 900'
 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 18	Casing				
18-75	Schisted Argillaceous Sediments or Tuffs? Grey to grey-green, badly sheared and broken. 18-75 - Core is too badly broken and weathered for identification. No quartz eyes were noted, however and the appearance in general is more basic than the rhyolite. Possibly collars in tuffs or argillaceous sediments.				
75-297	Sheared Quartz Porphyry 75-175 - Shearing continues but quartz eyes are visible and considerable number. These are large quartz eyes. Core is in buttons at about 80°. 175-250 - Shearing less intense - Coarse quartz eyes continue in grey siliceous matrix. Specimen called quartz porphyry by E. L. Bruce 234 190-203 - Old chloritic dyke. 250-275 - Schistosity intense with core in buttons.	20			

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DIAMOND DRILL RECORD

HOLE NUMBER 2
 SHEET NUMBER 2
 SECTION FROM 275' TO 377'

LOCATION: LAT.
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP

STARTED
 COMPLETED
 ULTIMATE DEPTH 900'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	275-297 - Sheared, but consists largely of old dioritic dykes in short sections.				
297-377	Old Diorite and Andesitic Lava - Largely greenish-pink old diorite, not sheared but almost completely altered to chlorite and carbonate. Texture is medium. Sections of lava are green, andesitic types, but colour is probably due to diorite alteration.				
	297-305 - Andesite				
	305-309 - Diorite				
	309-314 - Andesite				
	314-315 - Diorite				
	315-317 - Andesite				
	317-322 - Diorite				
	322-327 - Sheared altered andesite				
	327-333 - Diorite				
	333-339 - Andesite	354'	21		
	339-363 - Diorite				
	363-370 - Andesite				
	370-377 - Diorite.				

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HOLE NUMBER 2
 SHEET NUMBER 3
 SECTION FROM 377' TO 900'

DIAMOND DRILL RECORD

LOCATION: LAT.
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP

STARTED
 COMPLETED
 ULTIMATE DEPTH 900'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
377 - 900	Sheared Quartz Porphyry, Rhyolite				
	Revert to grey rhyolitic type as before, with only short sections of diorite. Quartz eyes are plentiful and core is broken at right angles.				
	425-600 - About 40% sheared diorite with grey rhyolite. Rhyolite in this section is darker grey, sheared and highly carbonatized with only a few quartz eyes noted. These are quite large as in former quartz porphyry.				
	600-876 - Reverts to greyish yellow type, with quartz eyes more numerous down hole to 800' where the rock is yellowish colour with about 20% quartz in large eyes.				
	876-900 - Darker, grey variety, with occasional quartz eyes.				
900	END OF HOLE				

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HOLE NUMBER 3
 SHEET NUMBER 1 *T.H.*
 SECTION FROM 0' TO 360'

DIAMOND DRILL RECORD

LOCATION: LAT.
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP

STARTED
 COMPLETED
 ULTIMATE DEPTH 584
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 13	Casing				
13-97½	Andesite - Massive, grey-green, relatively unaltered.				
97½-120	Silicified Altered Zone - Blue-black colour due to extensive molybdenite but in general this zone is silicified and fedspathized. Probably belongs to sediments.				
120-274	Greywacke				
	120-152 - Coarse-textured grey massive type				
	152-196 - Sheared, light to dark grey and usually bedded with some coarser beds. 204'	18			
	196-215 - Coarser, brownish colour. Called greywacke by E. L. Bruce.				
	215-274 - Dark grey, soft argillaceous type, as from 152-196 - Called greywacke by E. L. Bruce in thin section. 219'	19			
274-360	Quartz Chlorite Carbonate Schist - Origin not indicated - a strongly sheared rock consisting of bands of white quartz, black, chlorite material, emerald green carbonates.				

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DIAMOND DRILL RECORD

LOCATION: LAT.
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP

STARTED
 COMPLETED
 ULTIMATE DEPTH 584'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
	310-350 - Changes to dark green, soft, chloritic schist with little quartz						
	350-360 - Considerable white quartz.						
360-584	Sericite Schist - Sediments? Yellow, very schistose type, with core in narrow buttons at about 70° - No quartz eyes						
	386-389 - Grey, siliceous dyke.						
	389-475 - Yellow, extremely schistose as before						
	475-584 - Grey, dense, slightly less schistose, with small quartz eyes visible.						
584	END OF HOLE						

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PROPERTY GARNET GOLD MINES

Keith Twp.

DIAMOND DRILL RECORD

HOLE NUMBER 4
 SHEET NUMBER 1
 SECTION FROM 0' TO 596'

LOCATION: LAT. N 11774 } Joburke
 DEP. E 7794 } Coordinates
 ELEVATION OF COLLAR 1159
 DATUM 0 - 45°
 DIRECTION AT START: BEARING S 11 1/2° E 550 - 36°
 DIP -45°

STARTED
 COMPLETED
 ULTIMATE DEPTH 690'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 7	Casing				
7 - 256	Sheared Andesitic Lava				
	7-33 Grey green, highly carbonatized lava, with stringers of grey carbonate.				
	33-92 - Grey brown, banded type with carbonate in stringers, so that the core breaks into a large number of small buttons. Also chlorite on slips.				
	92 - Foliation still marked at about 50° to core, but shearing less intense.				
256-293	<u>Black Graphitic Tuffs</u> - Well-banded. May be related to iron formation.				
293-571	<u>Chlorite-Carbonate Schist</u> Soft, black, chloritic schist, badly broken up with considerable lost core. Patchy appearance due to lenses of carbonate 40% lost core to 450'. 450-571 - Less carbonates and more chlorite and extremely soft and schistose.				
571-596	<u>Black Banded Silicious Iron Formation</u> Includes sections of basic dyke.				

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PROPERTY GARNET GOLD MINES

Keith Twp.

DIAMOND DRILL RECORD

HOLE NUMBER

2

SHEET NUMBER

SECTION FROM 571' TO 690'

LOCATION: LAT. N 11774 } Joburke
 DEP. E 7794 } Coordinates

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING S 11½ E
 DIP -45°

STARTED

COMPLETED

ULTIMATE DEPTH 690'

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	571-574 - Black, rather coarse, basic porphyry.				
	574-587 - Black basic dyke				
	593½-596 - Lost core				
	592½-593½ - Black basic dyke.				
596-690	<u>Quartz Sericite Schist (Quartz Porphyry?)</u> This rock is extremely schistose and broken into small buttons only a fraction of an inch in thickness. Light grey colour and very sericitic. Becomes decidedly porphyritic at 650 with numerous quartz eyes in a schisted matrix.				
	669½-671½ - Sheared basic dyke.				
	675-678 - Sheared basic dyke. 660'	1			
690	END OF HOLE				

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PROPERTY GARNET GOLD MINES

HOLE NUMBER 5
 SHEET NUMBER 1
 SECTION FROM 0' TO 501'

DIAMOND DRILL RECORD

LOCATION: LAT.....
 DEP.....
 ELEVATION OF COLLAR.....
 DATUM.....
 DIRECTION AT START: BEARING.....
 DIP.....

STARTED.....
 COMPLETED.....
 ULTIMATE DEPTH 774 1/2'
 PROPOSED DEPTH.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 50	Casing				
50 - 127	Quartz Sericite Schist - (Rhyolite ?)				
	Yellow to grey silicious rock, highly sheared and broken into small buttons.				
	97-108 - Black schist - original black tuff.				
127 - 158	Acid Syenitic Dyke - Dull red, fine textured acid dyke, with some inclusions of schist.				
158 - 450	Sheared Quartz Porphyry - (Rhyolite)				
	Grey, sheared, uniform type, with numerous quartz eyes. Somewhat reddened near contact with syenite. Foliation @ 70° to core.				
	178-186 - Quartz - Some coarse pyrite.				
	186-405 - Continues as good quartz porphyry with occasional short section of old diorite.				
	405-420 - Dioritic dyke - Not sheared, but altered to chlorite.				
	425-443 - Largely sheared old dioritic dyke, with some rhyolite.				
450 - 501	Chloritic Schist - Black, soft, badly broken up type of basic greenstone - Very schistose.				

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PROPERTY GARNET GOLD MINES

HOLE NUMBER 5

SHEET NUMBER 2

SECTION FROM 497' TO 774 $\frac{1}{2}$ '

DIAMOND DRILL RECORD

LOCATION: LAT.

DEP.

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING

DIP

STARTED

COMPLETED

ULTIMATE DEPTH 774 $\frac{1}{2}$ '

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$			
	497-501 - Old dioritic dyke - less schistose.							
501-774 $\frac{1}{2}$	Sheared Quartz Porphyry - (Rhyolite)							
	Grey, sheared, as before, with well developed quartz eyes. Includes short sections of old sheared dykes.							
	600-675 - Core almost entirely in small buttons @ about 80°.							
774 $\frac{1}{2}$	END OF HOLE							

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PROPERTY GARNET GOLD MINES LTD.
Keith Twp.

HOLE NUMBER 6
SHEET NUMBER 1 *PH*
SECTION FROM 0' TO 248 1/2'

DIAMOND DRILL RECORD

LOCATION: LAT. N 11292 } JOBURKE
 DEP. E 7782 } CO-ORDINATES
 ELEVATION OF COLLAR 1127 0 - 45°
 DATUM 250 - 40 1/2'
 DIRECTION AT START: BEARING S 2° E 500 - 31
 DIP -45°

STARTED _____
 COMPLETED _____
 ULTIMATE DEPTH 752'
 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 60	Casing				
60 - 152	Chloritic Schist (Original Coarse Greenstone) Black, soft, schistose type, but the texture is rather coarse. Considerable lost core. 142-152 - Finer textured, but black and schistose.				
152-752	Quartz Sericite Schist - (Quartz Porphyry?) Core broken up into buttons as before in hole 4. 50% lost core near contact. 176-182 - Grey lamprophyre dyke. 187-189 - Black biotite lamprophyre. 205-223 1/2 - Biotite lamprophyre highly carbonatized with indistinct patches of pink carbonate. Schistose - Quartz eyes common in the schist. 242-248 1/2 - Biotite lamprophyre - Schistose as before. It is possible that these lamps represent original recrystallized basic lava and have been intruded by quartz porphyry.				

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DIAMOND DRILL RECORD

Hole #6

LOCATION: LAT. N 11292
 DEP. E 7782
 ELEVATION OF COLLAR 1127
 DATUM _____
 DIRECTION AT START: BEARING S 2° E
 DIP -45°

STARTED _____
 COMPLETED _____
 ULTIMATE DEPTH 752'
 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
299' - 10"	massive pyrite.				
305-350	Colour becomes darker, but quartz is still prominent in small black eyes.				
350-377	Quartz eyes numerous, but shearing is less intense in zone of 360' dykes.	2			
392-404	Dioritic dyke - Greenish black, with chlorite prominent and pink carbonate in indistinct patches.				
420½-422	Dioritic Dyke				
427-430	Pinkish alteration				
430-431½	Dioritic dykes - greenish colour with pink hue due to carbonates.				
437-440					
453-467					
480-486½					
514-520		517	3		
521-535					
544-547					
568-571					
571-650	Colour becomes darker, but quartz eyes remain. Streaks of dark chloritic				

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PROPERTY GARNET GOLD MINES LTD.

Keith Twp.

DIAMOND DRILL RECORD

HOLE NUMBER 6

SHEET NUMBER 3

SECTION FROM 653' TO 752'

LOCATION: LAT. N 11292

DEP. E 7782

ELEVATION OF COLLAR 1127

DATUM

DIRECTION AT START: BEARING S 2° E

DIP -45°

STARTED

COMPLETED

ULTIMATE DEPTH 752'

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
	chloritic material occur in the silicious rock.						
	653-660½ } Green, biotitic diorite dykes 664½-693½ } with chlorite and pink carbonate 732-752 } alteration.						
	650-732 - Colour of the quartz porphyry is lighter again in this section.						
752	END OF HOLE						

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PROPERTY GARNET GOLD MINES LTD.
 Keith Twp.

HOLE NUMBER 7
 SHEET NUMBER 1
 SECTION FROM 0' TO 205'

DIAMOND DRILL RECORD

LOCATION: LAT.
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP

STARTED
 COMPLETED
 ULTIMATE DEPTH 795'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 9	Casing				
9 - 101	Sericite Schist - (Quartz Porphyry)				
	Core is highly schistose and broken into buttons but some larger buttons have good quartz eyes.				
	Includes narrow chloritic bands, which may be old lamprophyre dykes.				
	94-101 - Chloritic schist.				
101-211½	Quartz Porphyry (<i>Rhyolite</i>)				
	101-106 - Quartz porphyry with numerous quartz eyes - Less schistose than formerly - Quartz eyes are fractured.				
	106-108 - Grey, siliceous dyke.				
	113-114 - Grey, siliceous dyke.				
	120-124 - Grey, siliceous dyke.				
	124-127 - Quartz eyes numerous and schistosity not prominent.				
	127-128½ - Basic chloritic dyke.				
	128½-162½ - Well developed quartz porphyry.				
	162½-164 - Basic dyke.				
	164-205 - Well developed quartz porphyry 172'	15			

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DIAMOND DRILL RECORD

HOLE NUMBER _____
 SHEET NUMBER 2
 SECTION FROM 205' TO 348'

LOCATION: LAT. _____
 DEP. _____
 ELEVATION OF COLLAR _____
 DATUM _____
 DIRECTION AT START: BEARING _____
 DIP _____

STARTED _____
 COMPLETED _____
 ULTIMATE DEPTH 795'
 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	205-207 $\frac{1}{2}$ - Black, biotite lamprophyre.				
	208-209 - Red lamprophyre. Scattered biotite flakes in an iron red felsitic matrix.				
	210 $\frac{1}{2}$ -211 $\frac{1}{2}$ - Red Lamprophyre as above.				
211 $\frac{1}{2}$ -270	Grey, Sheared Quartz Porphyry (or Rhyolite) More schistose than quartz porphyry above and uniform in texture with scattered small eyes of quartz.				
	240 $\frac{1}{2}$ -242 - Sheared Chloritic dyke				
	241 $\frac{1}{2}$ -242 $\frac{1}{2}$ - Sheared Chloritic dyke				
	251-252 - Sheared Chloritic dyke.				
	250-270 - Core broken up into small buttons.				
270-341	Quartz Porphyry - Coarser textured variety with numerous good quartz eyes and little schistosity.				
	317-338 - Most of this section has a reddish matrix, with quartz eyes, and appears to be a true porphyry.				
	338-341 - Basic, chloritic, sheared dyke.				
341-454	Quartz Porphyry ? 341-348 - Fine textured massive siliceous				

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HOLE NUMBER _____
SHEET NUMBER 3
SECTION FROM 348' TO 573'

DIAMOND DRILL RECORD

LOCATION: LAT. _____
DEP. _____
ELEVATION OF COLLAR _____
DATUM _____
DIRECTION AT START: BEARING _____
DIP _____

STARTED _____
COMPLETED _____
ULTIMATE DEPTH 795'
PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	phase of quartz porphyry.				
	348-357 - Sheared, chloritic dyke.				
	357- 40° Grey to pinkish massive siliceous type of quartz porphyry with some distinct quartz eyes.				
	400-402 - Fine textured dark biotite lamprophyre.				
	402-433 - Massive, grey, dense quartz porphyry as before. "Eyes" concentrated in bands.	398'	16	Thin Section	
	433-444 - Lighter green, coarser and somewhat chloritic, but retains small quartz eyes.			Definitely ?	
	444-448 - Dense massive type becoming darker toward contact.				
	448-454 - Basic, sheared, chloritic dyke.				
454-474	Quartz Porphyry - Grey, very coarse type with numerous large fractured quartz eyes. Contact at 474 is sharp, with quartz eyes well developed to contact.				
474-573	Quartz Porphyry or Quartz ^{sp.} Greywacke? Similar to 341-454 - Very uniform, siliceous				

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DIAMOND DRILL RECORD

HOLE NUMBER 7
 SHEET NUMBER 4
 SECTION FROM 557' TO 622'

LOCATION: LAT. _____
 DEP. _____
 ELEVATION OF COLLAR _____
 DATUM _____
 DIRECTION AT START: BEARING _____
 DIP _____

STARTED _____
 COMPLETED _____
 ULTIMATE DEPTH 795'
 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	type with some small quartz eyes and granular texture under lens but has no sign of bedding. General impression is that of a rhyolite flow.				
	557-558 - Agglomerate - Inclusion ? Chloritic matrix with a large granitic fragment rounded and 1 1/2 in. diameter in flow type matrix. Same as agglomerate below.				
	371-573 - Chilled bottom of flow? Bottom of flow is also suggested by inclusion of agglomerate.				
573-638	Agglomerate or Conglomerate ? Rounded granitic pebbles up to 6 ins. in diameter in a chloritic matrix containing quartz eyes and volcanic type fragments.				
	575 1/2 - 577 - Pinkish felsite dyke.				
	590-601 - Dioritic dyke.				
	618-622 - Dull grey, dense quartz porphyry - possibly a dyke - Quite fresh.				
	The origin of this strange conglomerate is a matter for speculation. The pebbles are				

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DIAMOND DRILL RECORD

HOLE NUMBER 7
SHEET NUMBER 5
SECTION FROM 658' TO 741'

LOCATION: LAT.
DEP.
ELEVATION OF COLLAR
DATUM
DIRECTION AT START: BEARING
DIP

STARTED
COMPLETED
ULTIMATE DEPTH 795'
PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
	rounded and heterogeneously distributed, but all are the same granitic type. The matrix is chloritic and volcanic in appearance with small angular fragments and some sections that look like flow material. It may be an agglomerate formed on the bottom of a flow.						
638-659½	<u>Quartz Porphyry ?</u> Same as from 341-454. Grey dense, siliceous and massive type - very uniform. Contact at 638 is somewhat cherty and altered for a foot or so.						
659½-666	<u>Coarse Quartz Porphyry</u> Same as 454-474. Grey coarse type with large quartz eyes. Contains a few obscure porphyritic fragments at 664.						
666-728	<u>Quartz Porphyry ?</u> Grey dense siliceous type.						
728-741	<u>Volcanic Fragmental</u> - Flow type with sections of coarse quartz porphyry and some obscure fragments.						

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DIAMOND DRILL RECORD

HOLE NUMBER 7

SHEET NUMBER 6

SECTION FROM 741' TO 795'

LOCATION: LAT.

DEP.

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING

DIP

STARTED

COMPLETED

ULTIMATE DEPTH 795'

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$			
741-795	Quartz Porphyry ?							
	Grey dense, siliceous type.							
	747-748 - Lamprophyre dyke.							
	777-787 - Silicified fractured zone.							
795	END OF HOLE							

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HOLE NUMBER 8 141
 SHEET NUMBER 1
 SECTION FROM 0' TO 230'

DIAMOND DRILL RECORD

LOCATION: LAT. N 11713 } JOBURKE 0 - 45°
 DEP. E 7773 } CO-ORDINATES 295 - 41½
 ELEVATION OF COLLAR 1156
 DATUM
 DIRECTION AT START: BEARING N 12° E
 DIP -45°

STARTED
 COMPLETED
 ULTIMATE DEPTH 306'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 12	Casing				
12- 126	Sheared Andesite - Platey foliation parallel to core, so that core is in long flat plates. Carbonatized. and somewhat sericitized.				
	85-111 - Shearing lessens in intensity, but carbonate remains, in rhombs, giving the rock a pseudo coarse texture.				
	111-126 - Fine textured as before, but not so highly sheared.				
126-306	Massive Andesite - In general, a dull green, chloritic type but in some sections it has a porphyritic appearance due to white carbonate crystals. Texture becomes coarser to 180' where it is almost dioritic with prominent chlorite flakes.				
	190-230 - Texture becomes gradually finer and at 225 it is a light green dense andesite with planes of foliation almost parallel to core.				
	230 - Massive, light green, with texture becoming coarser to 270 where it is				

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DIAMOND DRILL RECORD

HOLE NUMBER 8
 SHEET NUMBER 1
 SECTION FROM 0' TO 305'

LOCATION: LAT. _____
 DEP. _____
 ELEVATION OF COLLAR _____
 DATUM _____
 DIRECTION AT START: BEARING _____
 DIP _____

STARTED _____
 COMPLETED _____
 ULTIMATE DEPTH 305'
 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 12	Casing				
12-126	Sheared Carbonatized Andesite				
	Grey green, rather soft rock, well foliated, with planes of foliation at about 20-30° to core. This is probably due to a flat dip to the north and a north dipping hole.				
	87-112 - Coarser texture and extremely altered to biotite, chlorite and carbonates.				
	112-126 - Sheared as before.				
126-305	Massive Andesitic Lava - /Shearing less intense, but rock is grey and soft and carbonatized. At 150' it becomes coarser in texture and varies from fine to medium from that point.				
		237'	4		
305	END OF HOLE				

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DIAMOND DRILL RECORD

HOLE NUMBER 0
SHEET NUMBER 2
SECTION FROM 275' TO 306'

LOCATION: LAT. N 11713 0 - 45°
DEP. E 7773 295 - 41 1/2°
ELEVATION OF COLLAR 1156
DATUM _____
DIRECTION AT START: BEARING N 12° E
DIP -45°

STARTED _____
COMPLETED _____
ULTIMATE DEPTH 306'
PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
	again dioritic.						
	275-306 - Texture remains medium grained and uniform.						
306	END OF HOLE						

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HOLE NUMBER 9
 SHEET NUMBER 1
 SECTION FROM 0' TO 748'

DIAMOND DRILL RECORD

LOCATION: LAT. N 12278 DEP. E 7781
 ELEVATION OF COLLAR 1165
 DATUM
 DIRECTION AT START: BEARING S 3° E DIP 0 - 40°

STARTED
 COMPLETED
 ULTIMATE DEPTH 748'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 18	Casing				
18 - 225	<u>Sheared Andesitic Lava</u> Chloritized and carbonatized. Relatively massive to 50', then becomes broken up into thin buttons at right angles to core. 100-140 - Somewhat less schistose and slightly coarser in texture. 140-170 - Core in buttons 170-225 - Less schistose with coarser phases.				
225-518	<u>Massive Andesite</u> - Light green andesitic lava. 516-518 - Quite coarse texture due to secondary carbonate.				
518-624	<u>Sheared Andesite</u> - as before from 18-100				
624-748	<u>Massive Andesite</u> - grey-green colour - chloritic. Slight shearing.				
748	END OF HOLE				

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HOLE NUMBER 10
 SHEET NUMBER 1
 SECTION FROM 0' TO 394'

DIAMOND DRILL RECORD

LOCATION: LAT.....
 DEP.....
 ELEVATION OF COLLAR.....
 DATUM.....
 DIRECTION AT START: BEARING.....
 DIP.....

STARTED.....
 COMPLETED.....
 ULTIMATE DEPTH 597'
 PROPOSED DEPTH.....

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
<u>0 - 12</u>	<u>Casing</u>				
<u>12-43</u>	<u>Dioritic Greenstone - Green, rather coarse-textured, altered variety - Probably an old dyke.</u>				
<u>43-114</u>	<u>Andesitic Lava - Light green, massive, fine textured, and carbonated, with obscure foliation.</u>				
<u>114-138</u>	<u>Tuffs (?)</u> <u>114-138 - Brown carbonate schist. Very highly sheared and carbonatized breaking into small discs @ 60° to core.</u>				
<u>138-317</u>	<u>Sheared Andesitic Lava - Grey, slaty type with good fissility but little change in grain size; due to the uniformity of texture it is considered to be a lava.</u> <u>229-240 - Zone of alteration with irregular quartz carbonate stringers.</u> <u>317 - Strong shear.</u>				
<u>317-394</u>	<u>Dioritic Greenstone</u> <u>Change to light green coarse-textured.</u>				

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DIAMOND DRILL RECORD

HOLE NUMBER 10
 SHEET NUMBER 2
 SECTION FROM 394' TO 597'

LOCATION: LAT.
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP

STARTED
 COMPLETED
 ULTIMATE DEPTH 597'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	andesitic rock of very uniform texture, and no shearing.	367'	14		
	371-394 - Becomes progressively more sheared and finer textured to contact.				
394-478	<u>Argillaceous Sediments and Tuffs.</u>				
	394-408 - Black slaty variety - well bedded and sheared.				
	408-467 - Grey green, coarser textured greywacke with some shearing and bedding and granular texture interbedded with argillaceous types.				
	467-478 - Becoming schistose with little bedding, which is badly contorted.				
478-597	<u>Chlorite Carbonate Schist (Fault Zone)</u> Badly broken, soft soapy, black, muddy core with considerable lost core. No single plane of foliation, but entire core is meshed. Chloritic fragments in soapy matrix.				
597	END OF HOLE				

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DIAMOND DRILL RECORD

HOLE NUMBER 11
 SHEET NUMBER 1
 SECTION FROM 0' TO 385'

LOCATION: LAT. N 12777 } JO BURNE
 DEP. E 7782 } CO-ORDINATES 0 - 45°
685 - 42 1/2°
 ELEVATION OF COLLAR 1169
 DATUM _____
 DIRECTION AT START: BEARING S 2° E
 DIP 45°

STARTED _____
 COMPLETED _____
 ULTIMATE DEPTH 685'
 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 18	Casing				
18-236	Andesitic Lava- Grey-green, carbonatized somewhat schistose with core in buttons almost normal to core.				
	23-52 - Dioritic dyke - highly altered and chloritized with indistinct contacts.				
	52-150 - Sheared carbonatized lava as before with buttons only a fraction of an inch in thickness.				
	150-236 - Less shearing and becomes light grey, carbonatized massive andesite. Some small black specks in sections suggest that part may be massive tuff.				
236-272	Banded Iron Formation - Tuffaceous type with a few black cherty bands - Weakly magnetic				
272-298	Chloritic Greenstone - Soft, rather coarse textured chloritic rock with stringers of quartz and carbonate. Probably a dyke.				
298-385	Andesitic Lava - Greenish colour relatively hard and unaltered varying from fine to medium textured.				

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DIAMOND DRILL RECORD

HOLE NUMBER 11
SHEET NUMBER 2
SECTION FROM 385' TO 685'

LOCATION: LAT. N 12777
DEP. E 7782
ELEVATION OF COLLAR 1169
DATUM _____
DIRECTION AT START: BEARING S 2° E
DIP 45°

STARTED _____
COMPLETED _____
ULTIMATE DEPTH 685'
PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$			
385-505	<u>Sheared Carbonatized Andesitic Lava</u> Grey to brown, extremely altered and sheared and very high in carbonate. 432-455 - Becomes more chloritic and coarser grained but retains strong foliation. 455-505 - Largely grey, carbonatized type.							
505-685	<u>Andesitic Lava - Green and chloritic with less shearing. Little carbonatization and quite hard.</u>							
685	<u>END OF HOLE</u>							

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DIAMOND DRILL RECORD

HOLE NUMBER 10 179
 SHEET NUMBER 1
 SECTION FROM 0' TO 467'

LOCATION: LAT. _____
 DEP. _____
 ELEVATION OF COLLAR _____
 DATUM _____
 DIRECTION AT START: BEARING _____
 DIP _____

STARTED _____
 COMPLETED _____
 ULTIMATE DEPTH 795'
 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 11	Casing				
11- 342	Andesitic Lava - Grey-green, massive, hard variety. Some shearing near collar, but in general it appears relatively unaltered 127'	5			
342-362	Black Slaty Tuff -(or weak Iron Formation) Good regular banding in a black, even textured, fine grained rock. No magnetic attraction.				
	346'	6			
362-394	Greywacke - Grey, coarse grained sediment 373' no bedding, but grains of quartz can be readily seen with hand lens.	7	Spec. for Thin Section		
394-430½	Black Slaty Tuffs - Good uniform, slaty banding as before - Contact at 430½ is not sharp.				
430½-441	Quartzose Greywacke - Yellow sericitic type with quartz grains visible.				
441-467	Tuffs ? - Brownish to grey, extremely altered and carbonatized. Banding looks original and is extremely contorted. Possibly part of sediments.				

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DIAMOND DRILL RECORD

HOLE NUMBER 15

SHEET NUMBER 2

SECTION FROM 467' TO 695'

LOCATION: LAT.

DEP.

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING

DIP

STARTED

COMPLETED

ULTIMATE DEPTH 795'

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
467-575	<u>Chlorite Carbonate Schist</u> Black, soft, extremely broken core. 470-525 - Fault Breccia ? with carbonate fragments in a chloritic broken matrix over 25% lost core.				
575-594	<u>Black, Graphitic Schist</u> Looks like original bedded tuff or sediment, but is sheared into small blocks, with nearly 50% lost.				
594-635	<u>Carbonate-Quartz Schist</u> - Origin is not indicated as this rock is extremely altered to carbonates chlorite and quartz, with some green mica.				
635-652½	<u>Schisted Argillaceous Sediments</u> Largely dark chloritic schist with core in buttons, but at 646 (see spec. 8) it becomes coarse textured and shows grain gradation.				
652½-695	<u>Massive Sulphide Zone in Black Graphitic Schist.</u> Massive pyrite and granular pyrite with grey quartz makes up nearly half the core.	8 (Thin Section?)			

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HOLE NUMBER _____
SHEET NUMBER 3
SECTION FROM 695' TO 795'

DIAMOND DRILL RECORD

LOCATION: LAT. _____
DEP. _____
ELEVATION OF COLLAR _____
DATUM _____
DIRECTION AT START: BEARING _____
DIP _____

STARTED _____
COMPLETED _____
ULTIMATE DEPTH 795'
PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
695-727	<u>Argillaceous Sediment or Tuff</u> In general a schist, but it contains short sections that are coarse grained greywackes. 722-3 Blue cherty band.				
727-795	<u>Quartzose Greywacke ? Quartz Porphyry?</u> Sheared and sericitized and no conclusive evidence was seen. A few quartz eyes which may be small pebbles and a few suggestions of bedding, that may result from foliation.				
795	END OF HOLE				

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DIAMOND DRILL RECORD

HOLE NUMBER 16
 SHEET NUMBER 1
 SECTION FROM 0' TO 311'

LOCATION: LAT.....
 DEP.....
 ELEVATION OF COLLAR.....
 DATUM.....
 DIRECTION AT START: BEARING.....
 DIP.....

STARTED.....
 COMPLETED.....
 ULTIMATE DEPTH 653'
 PROPOSED DEPTH.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 12	Casing - <u>May include some tuff.</u>				
12 - 42	<u>Sheared Andesitic Lava</u> & Sheared grey-green to brown, fine textured rock. Some banding seems due to grain difference and some tiny black fragments noted.				
42-101	<u>Dioritic Dyke</u> - Light green, rather coarse textured, with dark, chloritized ferromagnesian giving a mottled appearance.				
101-162	<u>Carbonatized Tuffaceous Sediments</u> - Fine textured, sheared and highly carbonatized. Colour varies from light green to buff. Banding is difficult to distinguish from the foliation due to shearing, but the fragmental character is apparent in coarser beds. Probably in part sedimentary. 142'	11			
162-311	<u>Quartz Diorite</u> - Sharp change to crystalline rock of medium texture - green colour, hard, and relatively unaltered. Small blue quartz eyes noted. 238'	12			
	223-224 - Biotite lamprophyre.				

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DIAMOND DRILL RECORD

HOLE NUMBER 15

SHEET NUMBER 2

SECTION FROM 248' TO 422'

LOCATION: LAT. _____
 DEP. _____

ELEVATION OF COLLAR _____

DATUM _____

DIRECTION AT START: BEARING _____
 DIP _____

STARTED _____

COMPLETED _____

ULTIMATE DEPTH 653'

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	248-253 - Hornblende lamprophyre. Large, inter-crossing crystals of dark blue chloritized hornblende in a light matrix.				
	253-311 - Texture of quartz diorite remains coarse to 275 and becomes progressively finer to contact.				
311-331	Tuffs				
	311-315 - Rather massive, affected by diorite, with bands of blue molybdenite alteration.				
	315-331 - Black and white banded variety resembling iron formation but not magnetic.				
331-354	Lamprophyre - A black, coarsely crystalline rock, with a honey-comb texture on the ground surface. Largely pyroxene in equi-dimensional crystals, with biotite and feldspar interstitially. 352'	13			
354-422	Tuffs (In part sedimentary)				
	354-362 - Banded dark grey type quite similar to rock before lamprophyre.				

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DIAMOND DRILL RECORD

SHEET NUMBER 3
 SECTION FROM 362' TO 624'

LOCATION: LAT. _____
 DEP. _____
 ELEVATION OF COLLAR _____
 DATUM _____
 DIRECTION AT START: BEARING _____
 DIP _____

STARTED _____
 COMPLETED _____
 ULTIMATE DEPTH 653'
 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
	362-404 - Greenish massive sedimentary variety some resembling good greywacke in texture and fresh and hard. Becomes more carbonatized from 395.						
	404-422 - Sheared and carbonatized with grey carbonate in planes of foliation.						
422-491½	Andesitic Lava (or Massive tuffs) Greenish, massive variety, which in places seems granular, but has no bedding.						
	473-474 - Tuff. Black and white banded variety for 12 inches.						
	490½-491½ - Biotite Lamprophyre.						
491½-514	Sheared Andesitic Lava - Dark grey, speckled rock, with good foliation at about 70° to core. Speckled appearance due to regularly distributed specks of white opaque mineral (clay leucoxene)						
514-624	Sediments ? - Light green, massive, carbonatized type with some banding and some places where granular texture is notable - Become coarser and sedimentary to 598. On the whole these						

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DIAMOND DRILL RECORD

HOLE NUMBER 16
 SHEET NUMBER 4
 SECTION FROM 598' TO 653'

LOCATION: LAT. _____
 DEP. _____
 ELEVATION OF COLLAR _____
 DATUM _____
 DIRECTION AT START: BEARING _____
 DIP _____

STARTED _____
 COMPLETED _____
 ULTIMATE DEPTH _____
 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	tuffs and lavas are almost impossible to separate in the core.				
	598-601 - Chloritic Schist - Core in small discs.				
	601-624 - Sedimentary type with some coarse greywacke and some argillaceous bands. Indication of tops in several places, by grain gradation, toward top of hole.				
624-653	Andesitic Lava - Sharp change to coarser textured, light grey-green rock - probably a flow.				
653	END OF HOLE.				

NORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM NO. 501 REV. 8/44

DRILLED BY _____ SIGNED N.H.

PROPERTY GARNET GOLD MINES LTD

Keith Twp.

DIAMOND DRILL RECORD

HOLE NUMBER 17

SHEET NUMBER 1

SECTION FROM 0' TO 433'

LOCATION: LAT. 980' S from No. 1 Post S43379

DEP. 15' West of claim line

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING 160° Ast.

DIP -45°

STARTED

COMPLETED

ULTIMATE DEPTH 680'

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 25	Casing				
25 - 42	<u>Dioritic Dyke ?</u> - Coarse textured, sheared, with spotted appearance due to chlorite. Light green colour.				
42-385	<u>Greywacke or Tuff?</u> - Light green fresh-looking but some narrow shears give the effect of bedding over a few inches in places, 85' and there are cherty bands up to a couple of inches in width.	9	Thin Section		
	232 - Becomes somewhat sheared at about 45° to core with carbonates in planes of foliation.				
	260 - 12" quartz and calcite.				
	261-385 - Shearing lost and rock is light green, fresh type as before with regularly space beds of fine white argillite separating wide bands of granular greywacke. 302'	10	Thin Section		
385-443	<u>Andesite ?</u> - Seems like a lava from this point but there is no contact with material that seems to be good sediment.				

NORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM No. 501 REV. 9/44

DRILLED BY

SIGNED N.H.

DIAMOND DRILL RECORD

LOCATION: LAT. 980' S from No. 1 Post S43379
 DEP. 15' West of claim line

ELEVATION OF COLLAR.....

DATUM.....

DIRECTION AT START: BEARING 160° Ast.
 DIP -45°

STARTED.....

COMPLETED.....

ULTIMATE DEPTH 680'

PROPOSED DEPTH.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	<u>439½-441 - Fine Basic Dyke</u>				
<u>443-482</u>	<u>Dioritic Greenstone (Old dyke)</u> <u>Coarse textured - chloritic, and somewhat schistose.</u>				
	<u>472-482 - Largely fine textured, carbonatized lava with some dark, coarse dioritic dykes.</u>				
<u>982-628</u>	<u>Argillaceous Sediments</u> <u>Banding is good in black tuffaceous looking rock to 498.</u> <u>Then becomes a grey argillaceous type with some coarse gritty bands and some good greywacke types.</u>				
<u>628-680</u>	<u>Conglomerate ? - A fractured sheared zone, with cherty pebbles up to 1 inch. They are angular and rounded. This rock shows some banding.</u>				
<u>680</u>	<u>END OF HOLE.</u>	<u>Collar</u>	<u>45½</u>		
		<u>150</u>	<u>39</u>		
		<u>300</u>	<u>30</u>		
		<u>450</u>	<u>27° 30</u>		
		<u>655</u>	<u>27° 30</u>		