



31M05SE0022 55 GILLIES LIMIT

Diamond Drilling

Township of Gillies Limit (North Part)

Report No: 55

Work performed by: Hodden-Grey Mining

Claim No	Hole No	Footage	Date	Note
C 1247	71-1	801'	July/72	(1)
T.24714	72-2	751'	Aug/72	(1)
	72-3	776'	Aug/72	(1)
		<u>2328'</u>		

Notes:

(1) Mineral Exploration Assistance Program

DIAMOND DRILL PROGRAMME

on the property of

HODDEN - GREY MINING & EXPLORATION LIMITED

Gillies Limit Township, Ontario

Timmins, Ontario,
September 13, 1972.

R. J. Bradshaw, P. Eng.,
Consulting Geologist.



31M055E0022 55 GILLIES LIMIT

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TABLE OF CONTENTS

	<u>Page</u>
Introduction	1
Property, Location and Access	1
Previous Work	2
Summary of Diamond Drilling	3
Diamond Drill Results	
Hole No. 72-1	3
Hole No. 72-2	4
Hole No. 72-3	5
Conclusions	6
Recommendations	7
Certificate	
Drill logs and sections - Hole No. 72-1	
Hole No. 72-2	
Hole No. 72-3	
Map - Location of Drill Holes	

INTRODUCTION

Hodden - Grey Mining & Exploration Limited holds five claims in the north part of the Township of Gillies Limit, Ontario. The following report is concerned essentially with a drill programme undertaken on this property, planned and supervised by the writer and Mr. W. Gilman geologist for Shield Geophysics Limited. The drilling was completed during the period mid-July to the end of August, 1972.

The writer describes the property and outlines a programme for the exploration of the silver prospect, in a report dated September 27, 1971. The work prior to diamond drilling included magnetic and geological surveys, prospecting and rock trenching described in a report by the writer and Mr. W. Gilman dated July 13, 1972. Three drill holes totalling 1800 feet, with tentative locations, are recommended in the report.

PROPERTY, LOCATION AND ACCESS

Four patented claims, designated C1247, C1234, T23554, and T20050, and one leased claim, designated T24714, form the approximately 100 acre property.

Located in the north sector of the Township of Gillies Limited (North Part) near the south end of Giroux Lake, the property is three miles south of Cobalt, Ontario.

A gravel road from Cobalt passes within a few thousand feet of any portion of the claims.

PREVIOUS WORK

The significant work prior to drilling was undertaken by Shield Geophysics Limited on behalf of Hodden - Grey as outlined in a report dated July 13, 1972.

A grid system with picketed cross lines orientated east at 200 foot intervals formed the control for the magnetic and geological surveys.

There are no pronounced magnetic anomalies on the property. Those areas of higher magnetic susceptibilities in the north half of the property are interpreted to represent an area of decreased thickness of the sediments overlying the Keewatin volcanics. The isomagnetics outlining these weak anomalies trend north-to north-northwest a reflection of the trend of the Keewatin subsurface which may in turn represent primary or secondary structures in the volcanics. Secondary structures in the form of faults at the sedimentary-volcanic contact are a primary target in the investigation of the property for silver.

Most of the rock exposure is located in the northwest and west-central sector of the property. These exposures consist of conglomerate and greywacke of the Coleman Formation. The beds strike north-northwest and dip steeply west. A number of old trenches in these exposures reveal little of economic significance.

Intersecting faults trending north-northeast and east-southeast were postulated on the basis of topographic lows along these directions. These possible structures were partially investigated by the recent drill programme.

SUMMARY OF DIAMOND DRILLING

<u>No.</u>	<u>Location</u>	<u>Direction</u>	<u>Dip</u>	<u>Depth</u>
72-1	Line 10N St. 0+50E	East	60°	801'
72-2	Line 14N St. 2+00E	East	60°	751'
72-3	Line 16N St. 2+50E	East	60°	776'
Total footage				2328'

As indicated on the accompanying plan these holes were drilled to intersect postulated faults. A north-northwest trending fault, not indicated on the plan, interpreted from the magnetic survey and intersections in hole 72-2 formed the target for hole 72-3. The ultimate target of each of the holes was the volcanic-sedimentary contact.

Logs and sections of the individual holes accompany this report.

DIAMOND DRILL RESULTS

Hole 72-1

This hole collared in greywacke of the Coleman Formation at a depth of 130 feet. From 192 to 801 feet conglomerate was intersected. Although a few sections of fractured, blocky rock and the odd narrow mud seam were intersected these features were not sufficiently pronounced to represent a strong fault.

From 535 to 540 several narrow quartz stringers were intersected containing a grey metallic mineral tentatively identified

as gersdorffite. Within this zone a section averaged 0.47 oz. silver per ton over 2.5 feet.

Other samples in the hole, generally two foot sections, assayed 0.3 to 0.9 oz. of silver as indicated on the accompanying log. Although these samples contained a little more sulphides than normal, the silver content does not appear to be associated with a particular geological feature.

Hole 72-2

At a depth of 105 feet this hole collared in greywacke and from 226 to 460.5 conglomerate was intersected. A very fine grained, green, amorphous rock was intersected between 460.8 to 504 feet which was tentatively classified as a basic volcanic. The hole was stopped in conglomerate of the Coleman Formation at a depth of 751 feet. At the contacts of the volcanic rock for widths of 55 feet above and 38 feet below, the conglomerate is brecciated. Deeper in the hole from 675 to 696 another zone of brecciation was intersected.

As a result of the identification of native silver in the "volcanic rock" at depths of 475.5 and 487 feet extensive sampling was completed in this hole; a one inch sample at 475.5 feet assayed 157.6 oz. of silver while a similar sample at 487 feet assayed 1.8 oz. Silver assays greater than 0.3 oz. are plotted on the accompanying sections. It is noted that most of the values are in the "volcanic rock" including a 6 foot section averaging 1.56 oz. As in hole 72-1 there is no direct association

of a particular geological feature with the silver mineralization.

Hole 72-3

After penetrating 67 feet of overburden this hole col-
lared in conglomerate of the Coleman Formation. Narrow sections
of greywacke, quartzite and arkose were intersected deeper in the
hole. At 527.5 and 641 feet sections of basic "volcanic rock",
respectively 25 and 35 feet wide, were intersected.

Particularly in the upper half of the hole, core recovery
was poor. Sections of lost core, each 19, 8 and 7 feet wide, are
most prominent and associated with considerable brecciation,
silicification and carbonatization. Major faulting accounts for
these features.

Extensive sampling in this hole reveals the presence of
widespread silver mineralization. At about 300 feet a sludge
sample 6 feet wide assayed 1.0 oz., where the core was not
recovered; an adjacent section of 8 feet averaged 0.5 oz. silver.
A 2 foot section at 527.5 feet assayed 5.0 oz. silver per ton. As
indicated on the accompanying drill hole section, other assays in
the hole range from 0.3 to 1.0 oz. silver. Again no particular
geologic feature seems to be related to the silver mineralization.
A study of the drill hole section, however, indicates that the
majority of the silver bearing zones occur at rock contacts or in
brecciated rock adjacent to sections of lost core.

CONCLUSIONS

The primary objective of the drilling was to investigate a zone within a few hundred feet of the contact between the Coleman sediments and Keewatin volcanics in the vicinity of fault zones. In holes 72-2 and 72-3 sections of the core were tentatively classified as a basic volcanic. However, the lack of definite volcanic features in these sections coupled with the presence of a thick section of sediments below the "volcanic rock" indicate that those rocks classified as basic volcanics are most likely fine grained sediments.

Despite not having reached the basement volcanics, numerous zones of silver mineralization were intersected particularly in hole 72-3. The silver mineralization is not associated with a carbonate vein or a type of mineral which is characteristic of silver deposits in mines in the Cobalt camp. Hole 72-3 indicates that the silver is located at rock contacts or in particular breccia zones. It is suggested that these features have acted as conduits from a source below in the vicinity of the sedimentary volcanic contact. The silver mineralization, therefore, is interpreted to represent a halo zone about a deeper but nearby source likely associated with the faults in hole 72-3.

Deep drilling in the vicinity of hole 72-3 is required to investigate this possibility. There is insufficient data to provide an accurate estimate of the depth to the basement volcanics in this area. Immediately to the west, however, the sediments are 340 feet thick (personal communication). It is

probable, therefore, that the contact is within a few hundred feet of the bottom of the holes just completed. It is expected that holes drilled to 1200 feet at 70° will intersect the contact.

RECOMMENDATIONS

Initially, it is recommended that two holes be drilled to further investigate the property as follows:

<u>Hole No.</u>	<u>Location</u>	<u>Direction</u>	<u>Dip</u>	<u>Depth</u>
72-4	Line 16N St. 0+00	east	70°	1200'
72-5	Line 20N St. 0+00	east	70°	1200'

Cost of this programme is estimated at \$25,000.

An additional amount of \$50,000 should be allocated for 5,000 feet of drilling likely to be required as a follow-up to the initial stage.

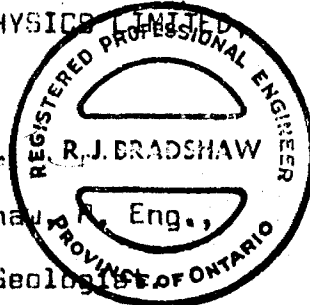
Respectfully submitted,

SHIELD GEOPHYSICS LIMITED

R. J. Bradshaw

R. J. Bradshaw

Consulting Geologist



Timmins, Ontario,
September 13, 1972.

C E R T I F I C A T E

I, Ronald J. Bradshaw, residing at 480 Howard Street, Timmins, Ontario, a consulting geologist with office at 26 Pine Street South, Timmins, Ontario, do hereby certify that:

I attended Queen's University, Kingston, Ontario, and graduated with an Honours B.A. degree in Geological Sciences in 1958.

I am a Fellow of the Geological Association of Canada, a Member of the Canadian Institute of Mining and Metallurgy and of the Association of Professional Engineers of the Province of Ontario.

I have no interest either directly or indirectly in the shares or securities of Hodden - Grey Mining & Exploration Limited.

Timmins, Ontario,
September 13, 1972.

R. J. Bradshaw
R. J. Bradshaw, P. Eng.,
Consulting Geologist



DIAMOND DRILL RECORD

PROPERTY HODDEN - GREY MINING & EXPL. CO. LTD. HOLE NO. 72-1

TOWNSHIP Gillies Limit Township PAGE NO. 1

LOCATION L10N @ 50' East (C1247)

CORE LOCATION Silverfields Mine

STARTED July 13, 1972.

DATUM _____

COMPLETED July 27, 1972.

BEARING N90°E

DEPTH 801'

ELEVATION _____

DIP 60°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
0 - 130	Casing, sand, coarse.						
130 - 130.4	Boulders - diabase, greywacke.						
130.4 - 192	Greywacke - f.g. green, chloritic, bedding planes 45° to c.a., several sections quartzose, red arkosic subgreywacke with abundant disseminated fine pyrite with trace cpy, py on joint planes;						
	141-143 finely banded GW with sulphides in m.g. some intervening lenses of jasper rich greywacke with disseminated fine cpy (e.g. 149.8-152);	GW 101	2.0'	.9			
	149.8-152 bedding varies to 60-65° to c.a.; no abundance of sulphides in usual f.g. grey-green greywacke, matrix of GW has much disseminated carbonate.	102	2.2	.8			
	165-167 red quartzite at GW contact	103	2.0	.4			
192 - 801	CONGLOMERATE - f. to m.g. green, polymictic, with abundant variable sized round, subrounded and angular fragments, largely quartz vein with abundant jasper, rock fragments etc., many pebbles, boulders, cobbles, predominantly granite						

Drilled By Lake Superior Diamond Drilling Co.

Signed W. J. Silman
SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-1

TOWNSHIP..... PAGE NO. 2

LOCATION..... CORE LOCATION..... STARTED.....

..... DATUM..... COMPLETED.....

..... BEARING..... DEPTH.....

ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
	with some volcanic rock fragments, fine py disseminated throughout matrix with some fine cpy associated, sulphides concentrated around and in pebbles, sulphides probably both syn. and epigenetic, several bands dark pink conglomerate with quartzose subgreywacke matrix, fragments not abundant but where present are unaltered suggesting coloration not due to alteration, sulphides abundant especially @ contacts of pink and green matrix;						
192-194	cgl., GW contact	104	2.0'	nil			
230-232	typical small pebble cgl.	105	2.0	.7			
270-272	typical small pebble cgl.	106	2.0	Tr			
309.3-311.0	quartz veinlets with cpy 310.3 to 310.9;	107	1.7	.4			
311-314.5	en echelon 90% to c.a., pink subgreywacke 311 to 314.5;	108	3.5	Tr			
317.9	at 318 to 322 thin quartz veinlets with cpy at 317.9						

Drilled By.....

Signed W. G.
SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-1

TOWNSHIP..... PAGE NO. 3

LOCATION..... CORE LOCATION..... STARTED.....

..... DATUM..... COMPLETED.....

..... BEARING..... DEPTH.....

ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
	subgreywacke altered to pink from 330.5 to 333 with v.f.g. clusters cpy & py;						
330.5-332.5		109	2.0'	Tr			
	pink conglomerate 356 to 359 with angular volcanic fragments;						
344.5-347.0	altered zone, aplitic alteration of cgl., pink	110	2.5	nil			
356-358		111	2.0	nil			
419.0-421.8	fractured blocky zone in cgl., carb. fillings	112	2.8	.1			
440.0-442.0	v.f.g. green (volcanic like), cpy, soft, unsilicified	113	2.0	.2			
	unknown mineral (amorphous) @ 492 (probable hem.)						
500-502	hematitic cgl., fractures with Fe, some silicification	114	2.0	.1			
	1' mud seam @ 514.7;						
	at 533 to 540 alteration zone interbedded greywacke altered pink with several thin en echelon quartz veinlets to 1/3" wide with scattered gersdorffite ?						

Drilled By.....

Signed *W. S.*
SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-1

TOWNSHIP..... PAGE NO. 4

LOCATION..... CORE LOCATION..... STARTED.....
 DATUM..... COMPLETED.....
 BEARING..... DEPTH.....
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz	Ni/%	Pt/oz
	some strong very local cpy concentrations associated with quartz veining of pink matrix; veining 25 to 70° to c.a.					
533-535	local cpy.	28981	2.0'	0.03	nil	nil
535-536	minor veining	28982	1.0	0.08	nil	nil
536-537.5	5 or 6 thin veinlets	28983	1.5	0.02	nil	nil
537.5-539	best veining & alteration	28984	1.5	0.64	nil	nil
539-540	minor veining	28985	1.0	0.21	nil	nil
540 to 545	unaltered green m.g. greywacke as interbed in conglomerate; at 545 general polymictic conglomerate with green m.g. greywacke matrix continues to end of hole; some granite boulders to 1.5' diameter, generally small angular to subrounded pebbles & lithic fragments of volcanic rock & granite, sporadic cpy persists to end of hole, larger crystals in local shear zones within cgl. but also as fine disseminations through matrix & pebbles, fine py persists disseminated through GW matrix, consistency					

Drilled By.....

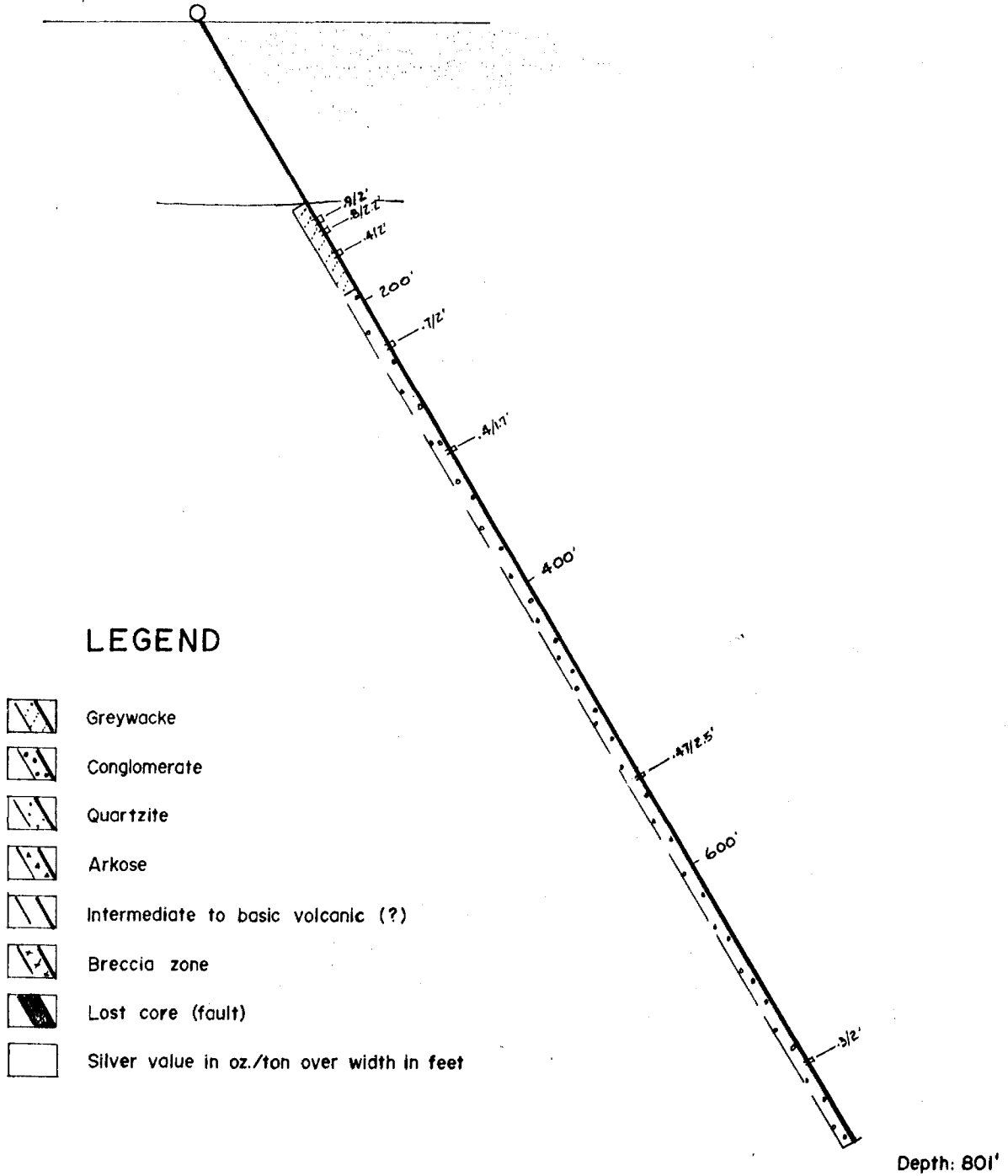
Signed..... *W.S.*

SHIELD GEOPHYSICS LIMITED









Hole 72-1

Line 10N
Station 0+50E

Dip - 60°



LEGEND

-  Greywacke
-  Conglomerate
-  Quartzite
-  Arkose
-  Intermediate to basic volcanic (?)
-  Breccia zone
-  Lost core (fault)
-  Silver value in oz./ton over width in feet

HODDEN-GREY MINING & EXPL. LTD.

SECTION - HOLE 72-1

Scale: 1" = 100'

September

1972

Fig. 1

DIAMOND DRILL RECORD

PROPERTY HODDEN - GREY MINING HOLE NO. 72-2

TOWNSHIP Gillies Limit Township PAGE NO. 1

LOCATION Line 14+00 North (T.24714) CORE LOCATION Drill camp - Finn Farm STARTED August 1, 1972.
Station 2+00 East DATUM _____ COMPLETED August 15, 1972.

BEARING N90° DEPTH 751'

ELEVATION _____ DIP 60°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag			
0 - 105	Sand, coarse.						
105 - 226	<p><u>Greywacke</u>: green-grey to 174', f.g., consists of intimate thin interbeds of light green and beige, beige are more quartzose and slightly coarser than vfg. green interbeds, dark green chloritic beds sporadically dispersed within and parallel to bedding at predominantly 45° to c.a., some folding causing bedding to 15° to c.a.; fine granular sulphide lenses within green chloritic bands, py, cpy, probable sph., trace Cu in cpy persists through GW; many microbeds of 1 mm. width faulted with small displacement within core offsetting sulphide lenses, some carbonate fractures with pyrite; @ 174 to 226 predominantly green with loss of beige interbeds and some decrease in cpy, py persists, sporadic carbonate lenses parallel bedding with abundant cpy, some coarse wider GW bands near Cgl. contact.</p>						

Drilled By Lake Superior Diamond Drilling

Signed [Signature]
 SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-2

TOWNSHIP..... PAGE NO. 2

LOCATION..... CORE LOCATION..... STARTED.....

..... DATUM..... COMPLETED.....

..... BEARING..... DEPTH.....

ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag		
226 - 460.5	<p>Conglomerate: m.g. green, a medium to coarse Gw matrix of angular rock and mineral fragments with varied size subrounded fragments of pebbles to boulders, polymictic, largely granitic fragments mainly basic rock with rare rhyolite, rough alignment of pebbles and fragments 35 to 45° to c.a., disseminated py abundant but no uniformly distributed, several short section with abundant disseminated cpy - e.g. 245-246.</p> <p>@ 257 & 295.5 to 296 often concentrated near and within carbonate fracture fillings, present also in adjacent boulder fragments, some short reddish alteration zones randomly distributed and varying from 1 cm. to several inches usually with minor cpy associated near zone (.6' 25% conc. of red brown mineral (hematite) in bld. frag. @ 262'), some local silicification & alteration starting 322.5</p> <p>@ 326.5 a .5" quartz-feldspar vein with bladed hematite</p>					

Drilled By.....

Signed *W. Salomon*.....

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-2
 TOWNSHIP..... PAGE NO. 3

LOCATION..... CORE LOCATION..... STARTED.....
 DATUM..... COMPLETED.....
 BEARING..... DEPTH.....
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz		
	from 375 to 404 a coarse Gw matrix with no fragments is included with Cgl. section; several thin scattered 1 cm. to .5" quartz feldspar veins @ 45° to c.a. with specularite, freibergite, some as long blade-like clusters @ 375.1 cpy conc. strong over 4'					
	from 404 to 460.8 a discontinuous broken (breccia like) zone in conglomerate cemented with hematite suggesting recementing along fault trace					
	404-407 largely M conglomerate <u>M</u> massive	319	3.0	tr		
	407-410 " " "	320	3.0	tr		
	410-413 " " "	321	3.0	tr		
	413-416 " " "	322	3.0	tr		
	441-444 slight breccia fabric with very little hem	323	3.0	tr		
	444-448 hematite breccia	324	4.0	tr		
	448-450 " "	325	2.0	tr		
	450-453 " "	326	3.0	nil		
	453-455 boulder plus hematite breccia	327	2.0	.1	} .3 3'	
	455-456 hematite breccia	302	1.0	.7		

Drilled By.....

Signed.....
 SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-2

TOWNSHIP..... PAGE NO. 4

LOCATION..... CORE LOCATION..... STARTED.....

..... DATUM..... COMPLETED.....

..... BEARING..... DEPTH.....

ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz		
	456-458 hematite breccia	328	2.0	tr		
	458-460.8 " "	329	2.8	.1		
460.8 - 504	<u>Basic Volcanic</u> : andesite, locally tuffaceous, v.f.g. green, amorphous, short sections tuff with some 45° to c.a. but wide variation to parallel to c.a.; selectively silicified and altered, bleached to slight brown with attendant disseminated sulphides of py and cpy, contains rare pebbles and lithic fragments in volcanic matrix.					
	460.8-462 as above	306	1.2	.1		
	462-464 as above	307	2.0	nil		
	464-466 as above	308	2.0	3.4	} $\frac{1.56}{6'}$	
	466-468 as above	309	2.0	.6		
	468-470 slight silicification	310	2.0	.7		
	470-472 as above	311	2.0	nil		
	472-474 selective silicification	312	2.0	.1		
	474-475 " "	313	1.0	.4	} $\frac{0.3}{2'}$	
	475.5 1" c.s. (chip sample)			157.6		
	475-476 minute concentration native Ag	303	1.0	.2		

Drilled By.....

Signed *Ken W. G. Green*

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-2
 TOWNSHIP..... PAGE NO. 5

LOCATION..... CORE LOCATION..... STARTED.....
 DATUM..... COMPLETED.....
 BEARING..... DEPTH.....
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz	Cu/%		
	476-478 tuff like banding, micro laminae	314	2.0'	tr			
	478-480.8 some red rock alteration	315	2.8	.2			
	480.8-482 f.g. dense green, no structures	316	1.2	.2			
	482-484 slight silicification	317	2.0	nil			
	484-487 f.g. dense green, no structures	318	3.0	.3			
	487 1" chip sample			1.8			
	487-488.1 1 minute concentration native Ag	304	1.1	1.0			
	488.1-490.1 f.g. Vc, selective silicification	298	2.0	tr			
	495.8-497.8 f.g. tuffaceous Vc, selective silicif	299	2.0	tr			
	497.8-499.2 disseminated cpy with Ag ?	305	1.4	1.0	.08		
	499.2-501.2 f.g. tuffaceous Vc, brittle	300	2.0	.5			
504 - 751	<u>Conglomerate:</u> v.f.g. green matrix with pebbles and boulders of varying size subangular to rounded, largely granite with some basic volcanic rock and minor rhyolite fragments, size and fragments concentration highly variable, sections to 4' width almost devoid of pebbles; from 504 to 542 an intermittent zone of brecciation with angular conglomerate fragments						

Drilled By.....

Signed *per W.S.*
 SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-2

TOWNSHIP..... PAGE NO. 6

LOCATION..... CORE LOCATION..... STARTED.....

..... DATUM..... COMPLETED.....

..... BEARING..... DEPTH.....

ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
	cemented with narrow hematite seams is expression of fault zone; py disseminated sporadically through matrix with cpy, minor quartz and carbonate lenses with concentration cpy in tr amounts, complete lack of pink alteration zones present in upper section of hole;						
	from 554.5 to 557 a zone of breccia recemented with silica						
	from 542 to end of hole @ 751 feet - typical cgl. as described above						
	625-654 selectively blocky, some short massive sections, minor very fine py, some cpy on slips, some very small 'gray' ? sulphide; rock is soft and nonsilicified, abundant close jointing facilitates blocky nature of core						
	625-627 same strong silicification, selective	330	2.0'	tr			
	632-634 no silicification in any of the samples	331	2.0	tr			
	635-637 hard, typical cgl., small pebble	332	2.0	tr			
	639-641 hard, no pebbles	333	2.0	tr			

Drilled By.....

Signed *per U. J.*.....

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-2

TOWNSHIP..... PAGE NO. 7

LOCATION..... CORE LOCATION..... STARTED.....

..... DATUM..... COMPLETED.....

..... BEARING..... DEPTH.....

ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
648-650	softer, small pebble	334	2.0'	nil			
652-654	softer, small pebble	335	2.0	nil			
675-696	selectively blocky, some short massive sections, some 2' concentrations of 1/4" pink carbonate fracture fillings with usual heavy disseminated cpy, usual 'soft' nonsilicified rock fabric, blocky nature due to close spaced jointing, heavy chlorite on border of carbonate						
675-677.5	pink carb, fracture fillings, cpy	336	2.5	nil			
677.5-680	" " little grey metallic xstal	337	1.5	.2			
683-685	" " with cpy	338	2.0	tr			
686-688.5	" " " "	339	2.5	nil			
690-692	strong brecciation cemented with pink carb	340	2.0	nil			
695-697	very minor fracturing, mainly M	341	2.0	nil			
706-708	typical cgl., py, trace cpy	345	2.0	.3			
708-710	" " " " "	346	2.0	.2			
710-712	" " " " "	347	2.0	.5			
712-714	very blocky (little rounded kernals)	342	2.0	.3			
714-716	very blocky	343	2.0	.4			

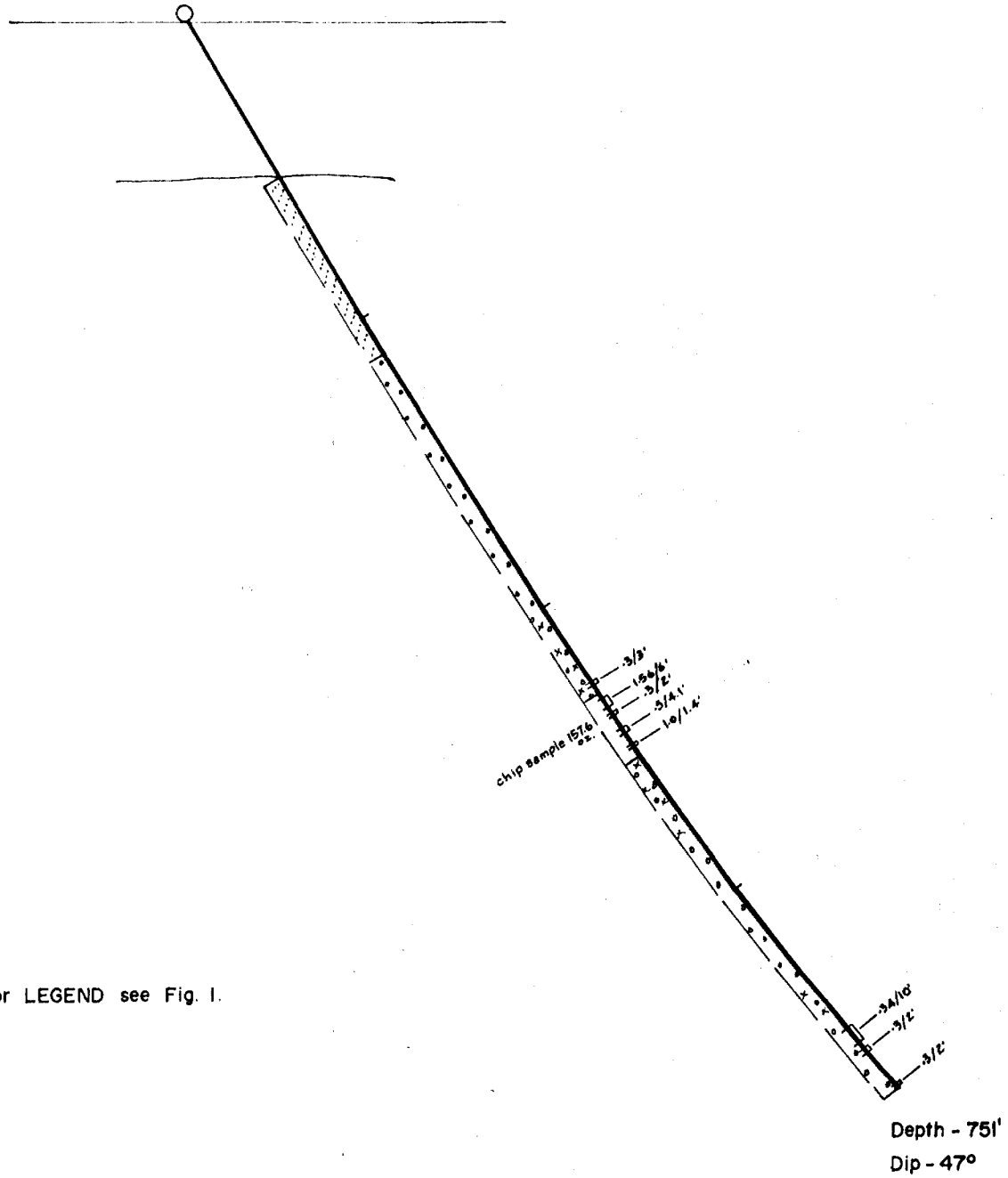
Drilled By.....

Signed..... *per W. G.*

SHIELD GEOPHYSICS LIMITED

Hole 72-2
Dip - 60°

Line 14N
Station 2+00 E



For LEGEND see Fig. 1.

HODDEN-GREY MINING & EXPL. LTD.

SECTION - HOLE 72-2

Scale: 1" = 100'

September

1972

Fig. 2

DIAMOND DRILL RECORD

PROPERTY HODDEN - GREY MINING & EXPL. CO. LTD. HOLE NO. 72-3

TOWNSHIP Gillies Limit Township PAGE NO. 1

LOCATION Line 16N, 250' East CORE LOCATION Silverfields Mines STARTED August 18, 1972.
(T. 24 71.4) DATUM _____ COMPLETED August 29, 1972.
 BEARING N90° DEPTH 776'
 ELEVATION _____ DIP 60°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
0 - 67	Casing, clay and sand.						
67 - 206.5	Conglomerate - f. to m. g. green matrix, polymictic, with larger rounded pebbles largely quartz and granite with some jasper and volcanic rock, some lithic fragments, but not as abundant pebbles as normal conglomerate, selectively sporadically silicified over short sections, a pink quartzose section with limonite staining from 69.7-72, abundant pink carbonate fracture fillings generally 45° to c.a. with slightly heavier sulphides (py, cpy) than disseminated through matrix.						
110.8-112.2	quartz, pink carb. vein	352	1.4'	.10			
123.8-126.0	carb. (pink) veinlets and grey xstal	353	2.2	Tr			
128.0-130.0	pink carb. veinlets, unsilicified	354	2.0	Tr			
130.0-132.0	pink carb. veinlets, unsilic. cpy	355	2.0	.20			
132.0-135.0	pink carb. veinlets, unsilicified	356	3.0	.40			
135.0-137.0	normal Cgl., unsilicified	372	2.0	.70			

Drilled By Lake Superior Diamond Drilling Co.

Signed [Signature]
 SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-3
 TOWNSHIP..... PAGE NO. 2

LOCATION..... CORE LOCATION..... STARTED.....
 DATUM..... COMPLETED.....
 BEARING..... DEPTH.....
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
137.0-139.0	pink carb. veinlets, silicified	357	2.0'	1.30			
139.0-140.0	typical conglomerate	373	1.0	.30			
140.0-142.0	typical conglomerate, fractured	374	2.0	nil			
142.0-144.0	pink carb. vein, strong silicification	358	2.0	Tr			
145.0-147.0	abundant carb. unsilicified	359	2.0	Tr			
147.0-149.0	some strong silicification	360	2.0	Tr			
	From 149 to 163 unsilicified green cgl. with fine py						
	from 163 to 179 well silicified, slightly bleached and altered cgl. with matrix of coarse angular fragments predominantly below pebble size, with disseminated py and some cpy with heavily fractured matrix cemented with silica						
163-165	silicified, bleached, altered	375	2.0	.30			
165-167	silicified, beige color	376	2.0	.20			
167-168	silicified, bleached	377	1.0	.30			
170-172	silicified, bleached	378	2.0	Tr			
172-174	silicified, bleached	379	2.0	Tr			
174-176	silicified, green color, heavily fractured, cemented with quartz	380	2.0	Tr			

Drilled By.....

Signed *per W. J.*
 SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-3
 TOWNSHIP..... PAGE NO. 3

LOCATION..... CORE LOCATION..... STARTED.....
 DATUM..... COMPLETED.....
 BEARING..... DEPTH.....
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
	176-178 silicified, green, recemented with quartz	381	2.0'	.10			
	from 179 cgl. contains .5 to 1' granite boulders with abundant smaller fragments of granite, volcanic rock and chert, with soft green matrix and some carb. fractures						
206.5 - 225.0	Lost Core.						
225.0 - 285.3	<u>Conglomerate</u> - f. to m.g. green, polymictic with angular and subrounded pebble size fragments of granite and volcanic rock, unsilicified pyritic matrix, from 272.5 to 275 a fractured and silicified granite boulder with cpy.						
285.3 - 293.0	Lost Core.						
293.0 - 301.0	<u>Arkose</u> - m.g. beige, quartz, feldspar, silica saturated sediment.						
	293-295 silicified, beige color	382	2.0	.30			
	295-297 silicified, beige color, recementing fractures with quartz	383	2.0	.90			
	298-300 silicified altered arkose	361	2.0	.10			
	300-301 silicified altered	362	1.0	.50			

Drilled By.....

Signed..... *per: W. J.*
 SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-3
 TOWNSHIP..... PAGE NO. 4

LOCATION..... CORE LOCATION..... STARTED.....
 DATUM..... COMPLETED.....
 BEARING..... DEPTH.....
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
301.0 - 321.0	<u>Conglomerate</u> - f. to m.g. green, polymictic, unsilicified with greywacke matrix of poorly sorted fragments enclosing larger rounded rock, py.						
	301-302 qtz., cemented fractures, grey xstals	363	1.0'	.50			
	302-304 qtz. cement fractures, 1 xstal sulphide noted	364	2.0	.70			
	304-306 qtz. cement fractures, hard, no silfn.	365	2.0	.20			
	310-313 typical unsilicified cgl., fractured	384	3.0	.10			
	313-315 qtz. cement fractures, no silfn, fractured	366	2.0	.80			
	315-316 qtz. cement fractures, 1 grey xstal	367	1.0	.80			
	316-318 fractured, unsilicified	368	2.0	.50			
	318-321 strongly fractured	369	3.0	.20			
321.0 - 328.0	Lost Core. (322-328)	344	sludge	1.00			
328.0 - 358.0	<u>Conglomerate</u> - f. to m.g. green greywacke matrix with subrounded and angular fragments of pebble size, py local zones of intense brecciation of rock fabric recemented with carbonate.						

Drilled By.....

Signed *per. W.S.*
 SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-3
 TOWNSHIP..... PAGE NO. 5

LOCATION..... CORE LOCATION..... STARTED.....
 DATUM..... COMPLETED.....
 BEARING..... DEPTH.....
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
	328-330 heavily fractured cgl., no cement	385	2.0'	Tr			
	330-332 heavily fractured cgl., no cement	386	2.0	.1			
	334-336 Cgl. breccia, carb. cement between frag.	387	2.0	.1			
	338-340 " " " " " "						
358.0 - 362.0	Lost Core. (355-365)	370	sludge	Tr			
	(362-367)	371	sludge	Tr			
362.0 - 365.6	<u>Conglomerate</u> - f. to m.g. green with variable size pebbles, fractured.						
365.6 - 368.4	Lost Core.						
368.4 - 369.2	<u>Conglomerate</u> - quartz vein, heavily fractured, 50% quartz vein.						
369.2 - 371.0	Lost Core.						
371.0 - 400.6	<u>Conglomerate</u> - f. to m.g. gree greywacke matrix with variable size small pebbles, lithic fragments, unsilicified, some quartz carbonate veinlets in fractures 45° to c.a.						
	371.0-373.0 .8' bull quartz in cgl.	389	2.0	.20			
	398.6-400.6 lower cgl. contact, typical	272	2.0	.20			

Drilled By.....

Signed *J.M. W.S.*
 SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-3
 TOWNSHIP..... PAGE NO. 6

LOCATION..... CORE LOCATION..... STARTED.....
 DATUM..... COMPLETED.....
 BEARING..... DEPTH.....
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
400.6 - 468.0	<u>Quartzite</u> - m.g. arkosic green, quartz, feldspar, green mica sediment, hard, massive--from 458 to 468 silica saturated arkose with some quartz, pink carb. veining, very hard, fine py.						
	400.6-402.6 quartzite, light green, arkosic	390	2.0'	.50			
	402.6-404.6 quartzite, green	273	2.0	.10			
468.0 - 490.0	<u>Greywacke</u> - predominantly f.g. green sediment with alternating layers of coarser more common angular fragment matrix, fine py, abundant hairline fractures with quartz carb. filling, heavily sheared at upper contact.						
	468-470 Gw, f.g. green matrix, strong shearing	391	2.0	.20			
	488-490 Gw, hard, high silica	274	2.0	.20			
490.0 - 511.6	<u>Conglomerate</u> - m.g. green Gw matrix with multi sized pebbles, boulders, largely granitic, unsilicified concentrations cpy, hem, diss. py.						
	490-492.8 Cgl., with .8' vuggy qtz. with minute black mineral	392	2.8	.20			
	492.8-494.8 typical cgl., high silica	275	2.0	.10			

Drilled By.....

Signed *per W. J.*
 SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-3
 TOWNSHIP..... PAGE NO. 7

LOCATION..... CORE LOCATION..... STARTED.....
 DATUM..... COMPLETED.....
 BEARING..... DEPTH.....
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
511.6 - 516.0	Lost Core. (510-520)	386A	sludge	.10			
516.0 - 527.5	Conglomerate - as immediately above, unsilicified some Vc pebbles.						
	525.5-527.5 typical cgl., unsilicified	276	2.0'	.10			
527.5 - 552.7	Basic Volcanic ? - f.g. green M with bedding planes abundant at upper contact (tuffaceous bands) at 70° to c.a., several thin GW bands of varying width interbedded with fine matrix, rare chert pebbles last 2' silica saturated bleached, heavy diss. py, some cpy.						
	527.5-529.5 basic volcanic ?	393	2.0	5.0			
	529.5-531.5 f.g. well bedded Vc rock non silicic	277	2.0	Tr			
	531.5-533.5 " " " " " " " "	278	2.0	.70			
	533.5-535.5 " " " " " " " "	279	2.0	Tr			
	535.5-537.5 fractured basic Vc rock with chl. seams	280	2.0	.10			
	548.7-550.7 soft basic volcanic ?	281	2.0	Tr			
	550.7-552.7 silica saturated lower contact of Vc?	394	2.0	.30			
552.7 - 571.5	Conglomerate - 2' silicified altered GW at upper contact, green, GW matrix, abundant small pebbles, py abundant hairline fractures, obvious tuffaceous lower contact.						

Drilled By.....

Signed *per W.S.*
 SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-3
 TOWNSHIP..... PAGE NO. 8

LOCATION..... CORE LOCATION..... STARTED.....
 DATUM..... COMPLETED.....
 BEARING..... DEPTH.....
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
	552.7-554.7 cgl., some silicification	282	2.0'	Tr			
	569.5-571.5 cgl., lower contact, chloritic	283	2.0	.30			
571.5 - 578.5	Basic Volcanic - f.g. green andesite, abundant anastomosing fractures with dark chlorite in breaks with some hairline carb. fillings, cpy.						
	571.5-573.5 basic Vc, f.g. green, multi fractures	396	2.0	.30			
	573.5-575.5 basic Vc, fractured, heavy chlorite	284	2.0	.20			
	575.5-577.5 unsilicified volcanic (basic)	285	2.0	Tr			
	577.5-578.5 silicified, partially bleached	286	1.0	Tr			
578.5 - 589.0	Quartzite - largely red.						
	578.5-580.5 red quartzite with chl. frac. fillings	397	2.0	1.0			
	580.5-582.5 red quartzite	287	2.0	Tr			
	587.0-589.0 red quartzite	288	2.0	.30			
589.0 - 641.0	<u>Conglomerate</u> - largely Gw at upper contact merging to large pebble Cgl. with coarse Gw matrix, fragments mainly granitic, from 589 to 595 coarse brown Gw with diss. hem., cpy, considerable hematite sporadically dispersed through brecciated matrix.						

Drilled By.....

Signed *PCA W J.*
 SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-3
 TOWNSHIP..... PAGE NO. 9

LOCATION..... CORE LOCATION..... STARTED.....
 DATUM..... COMPLETED.....
 BEARING..... DEPTH.....
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
	589-591 1' Gw 1' Cgl.	398	2.0'	1.90			
	591-593 typical cgl.	289	2.0	nil			
	628-630 typical cgl. with py, cpy, hem.	395	2.0	.10			
	639-641 big pebble cgl.	290	2.0,	.80			
641 - 676	Basic Volcanic ? - f.g. green, fairly M with interbedded Gw, 647 to 649 red quartzite, some short rare cgl. bands, occasional sedimentary pebbles through f. green matrix, minimal v.f. py, heavily chloritized joint planes.						
	641-643 basic volcanic ?	399	2.0	1.30			
	643-645 unsilicified basic volcanic ?	291	2.0	.40			
	645-647 " " "	292	2.0	Tr			
	648.6-651 unsilicified banded basic volcanic ?	293	2.4	Tr			
	674-676 " " " "	294	2.0	.20			
676 - 680	Quartzite - m.g. red, silica veinlets in fractures, diss. v.f. py.						
	676-678 red quartzite	400	2.0	.70			
	678-680 red quartzite, hard	295	2.0	.60			

Drilled By.....

Signed *per W.S.*
 SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY..... HOLE NO. 72-3
 TOWNSHIP..... PAGE NO. 10

LOCATION..... CORE LOCATION..... STARTED.....
 DATUM..... COMPLETED.....
 BEARING..... DEPTH.....
 ELEVATION..... DIP.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Ag/oz			
680 - 749	<u>Conglomerate</u> - upper contact largely GW merging to typical cgl. with variable sized fragments, largely granitic with subordinate volcanic fragments, some acid volcanic fragments with high proportion of sulphides.						
	680-682 typical cgl. soft, unsilicified	296	2.0'	.50			
749 - 776	<u>Greywacke</u> - f. to m.g. matrix of angular mineral and lithic fragments with sporadic pebbles granite and volcanic rock and rare thin cgl. horizons, diss. py and cpy, rare thin carb. qtz. veinlets with cpy, fairly M core.						
	749-751 upper contact of hard silicified GW	297	2.0	Tr			
776	END OF HOLE.						
	<u>DIP TESTS</u>						
	363' - 55°						
	776' - 48°						

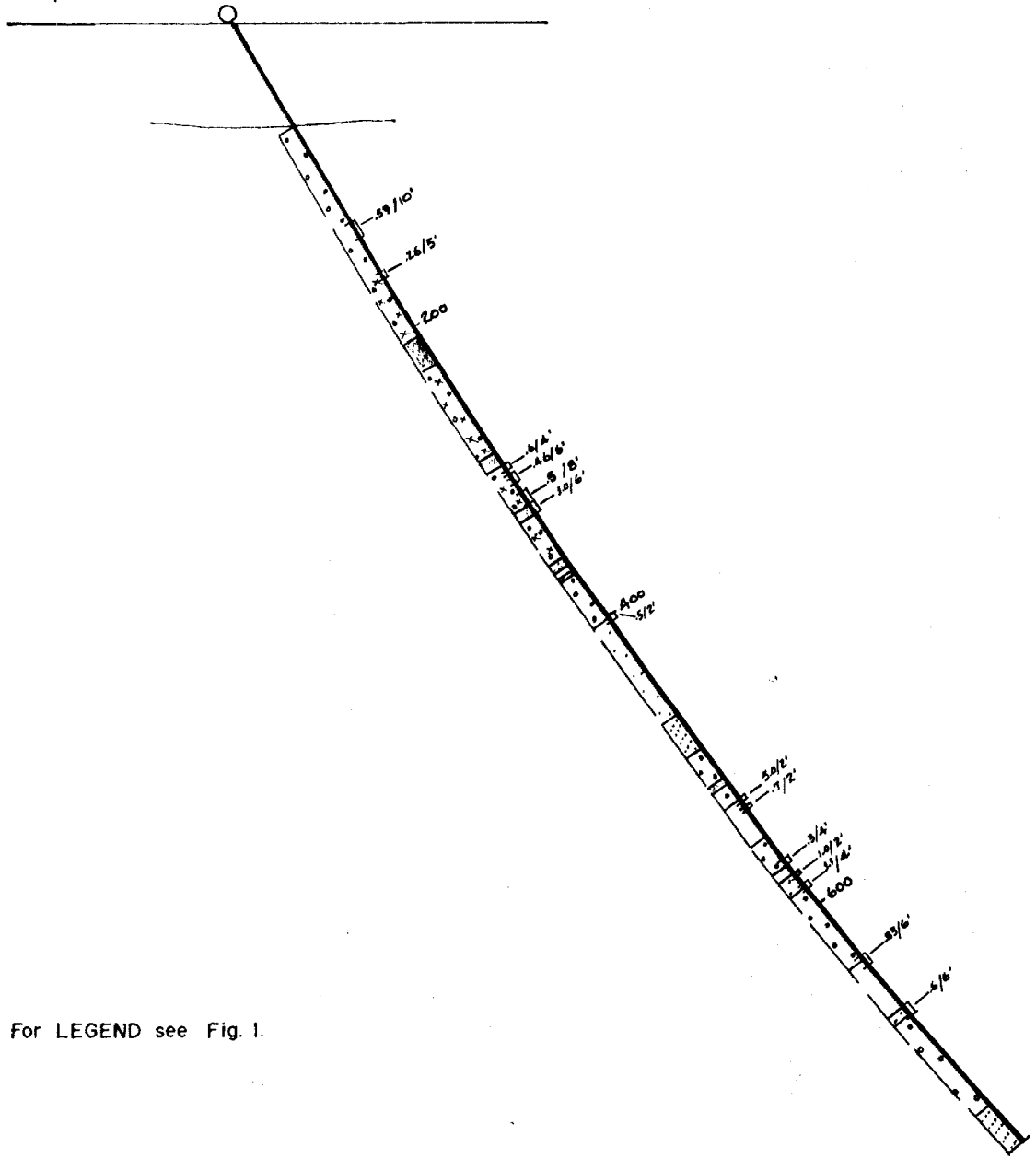
Drilled By.....

Signed per W. J.
SHIELD GEOPHYSICS LIMITED

Hole 72-3

Line 16N
Station 2+50E

Dip - 60°



For LEGEND see Fig. 1.

Depth: 776'
Dip: 48°

HODDEN-GREY MINING & EXPL. LTD.

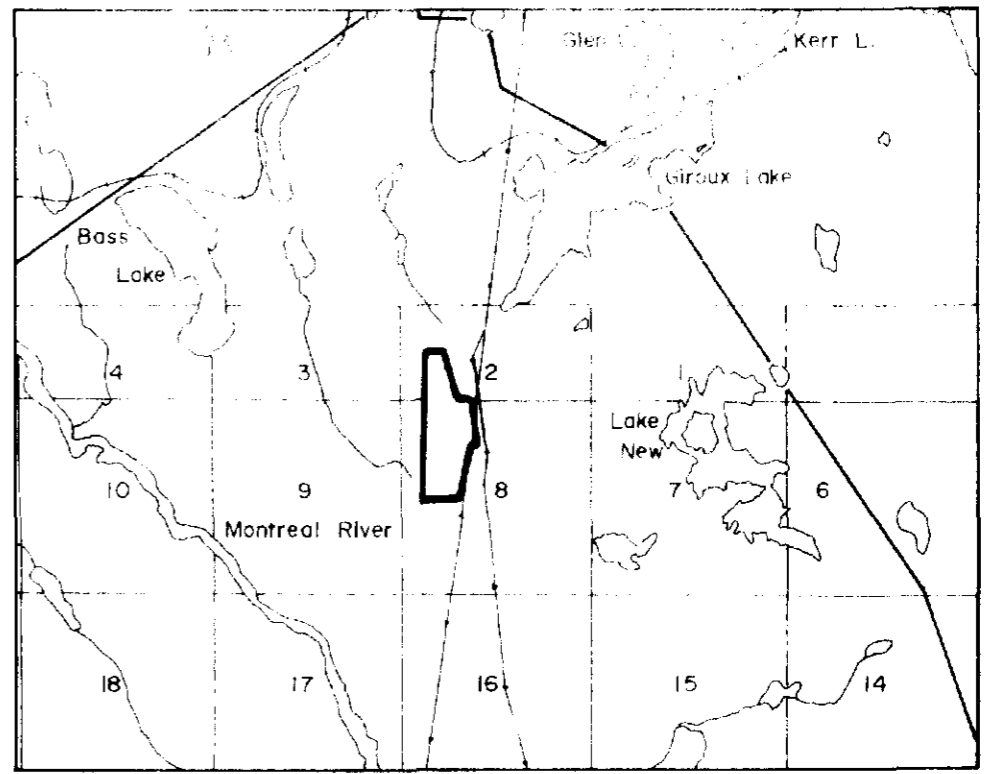
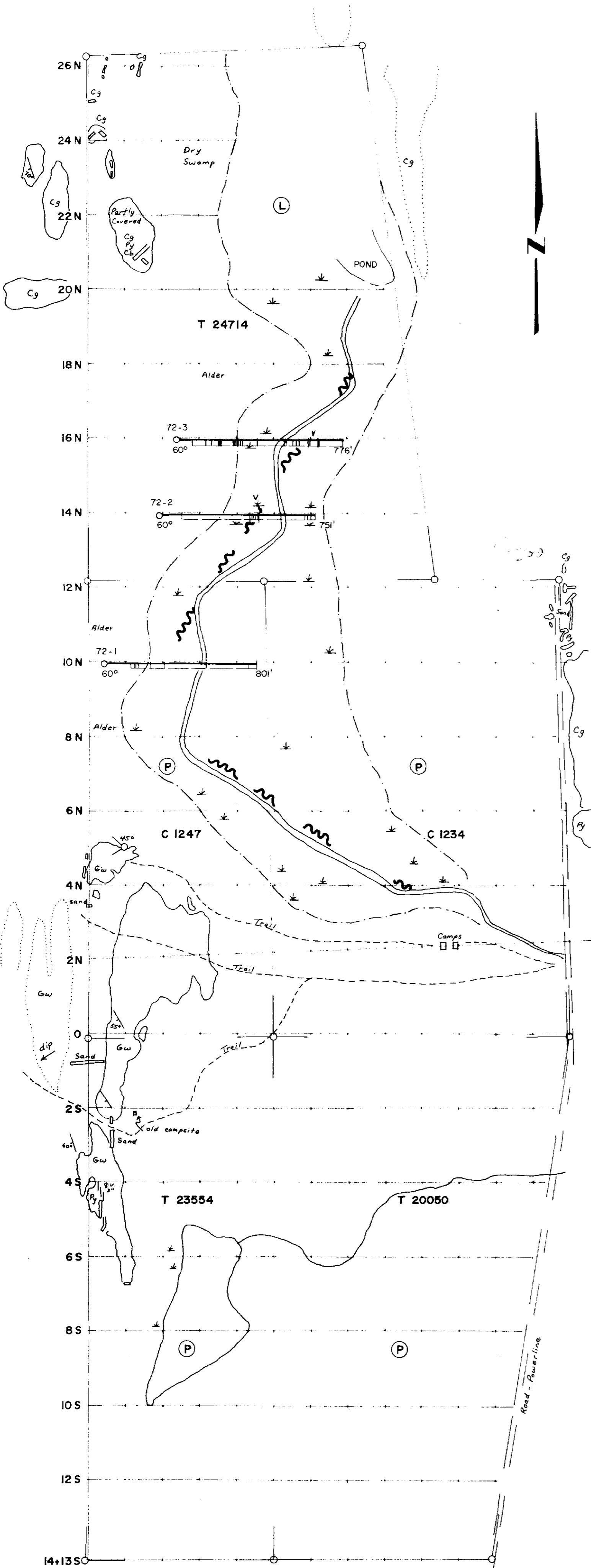
SECTION - HOLE 72-3

Scale: 1" = 100'

September

1972

Fig. 3

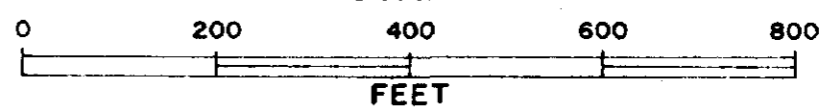


KEY MAP one inch to one mile

LEGEND

- Gw Greywacke
- Cg Conglomerate
- Diamond drill hole in azimuth
- Strike & dip of formation
- Trench
- Proposed fault
- Exposure
- Approximate outline of exposure
- Vertical projection of drill hole with silver values
- Vertical projection of intermediate to basic volcanics
- Lost core

GEOLOGICAL SURVEY
 ON THE PROPERTY OF
HODDEN-GREY MINING & EXPL. LTD.
 TOWNSHIP OF GILLIES LIMIT (NORTH PART), ONTARIO
 BY
SHIELD GEOPHYSICS LIMITED
 SCALE



JULY

Gillies Limit (N.P.T.) 1972 #55

