



32D12SW9338 17 HARKER

010

Diamond Drilling

Township OF HARKER

Report N^o: 17

Work performed by: W.J.MATTHEWS

Claim N ^o	Hole N ^o	Footage	Date	Note
L 329782	1	912'	JUNE/73	(1)
L 329774	2	714'	JUNE/73	(1)
L 329773	3	721'	JUNE/73	(1)

Notes: (...) Date Placed On File

(1) (June 1974) 32/74, also Mineral Assistance Program
Contract KL-23

PROPERTY Anatole - (Harker Township)

Harker Twp. 300' west & 200' north of #2 Post, claim 329782

HOLE No. 1

LOCATION: _____

LATITUDE: L 74 E

STRIKE: Asst. North

PAGE No. 1

DEPARTURE: 200' North

DIP: 60°

ELEVATION: _____

DATE DRILLED: 7th - 17th June, 1973

PURPOSE: To test geochemical anomaly

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSA VALU
0-110	CASING			
110-232	TALC CHLORITE SCHIST 110-125 has 20% Lost Core - 30°-45°/core weakly magnetic soft black with mauve cast - carbonatized with many carbonate stringers & inclusions from 1" to 3 cm occasional patch epidote includes narrow syenite dike - pink to grey in colour with fine pyrite @ 177-178; and @ 222-223 Includes recognizable but highly altered narrow sections of both acid and basic tuff & agglomerate			
232-307	SYENITE pink to grey colour variable texture			
307-517	SERPENTINITE black to grey massive soft slippery magnetic cut by numerous clear opaque gypsum stringers to 1" wide in part appears fragmented			
517-597	SYENITE pink variable texture coarse to fine porphyritic in part some black inclusions @ 597 contact is 10°/core 525-540 Broken probable fault			
597-621	SERPENTINITE black to grey - magnetic as above cut by numerous carbonate stringers at all angles stringers constitute 10% of core			
621-644	SYENITE pink upper contact @ 45°/core			
650-737	BASIC TUFF & AGGLOMERATE schistose altered - magnetic - sappentinized? - few carbonate stringers scattered irregular buff colour gypsum stringers 695-705 Fault broken gouge talcose 10°-20°/core 737 6" dark green fine grained chilled edge			
737-752	ACID AGGLOMERATE FLESH TO PINK COLOURED CLOSELY packed little matrix, fragment 1/2" to 2" diameter fine pyrite around fragment coarse grained			
752-804	BASIC TUFF & AGGLOMERATE schistose - altered magnetic colour turquoise blue to black blotchy some biotite developed			
804-853	SYENITE pink massive possibly an altered acid agglomerate?			
853-868	SCHIST BASIC TUFF & AGGLOMERATE with narrow sections of acid tuff bedded @ 30°/core			
868-886	ACID AGGLOMERATE highly altered pink to mauve to green Includes narrow syenite dikes and 2 foot dark green andesite dike @ 867-869			
886-891	BASIC DIKE fine grained, dark green possibly lamrophyre			
891-900	ACID AGGLOMERATE altered pinkish			
900-912	BASIC AGGLOMERATE highly altered schistose magnetic with narrow acid section @ 45°/core at 903-904			
912	END OF HOLE			
912	SLUDGE SMAPLES EVERY 10 feet ALL NIL			

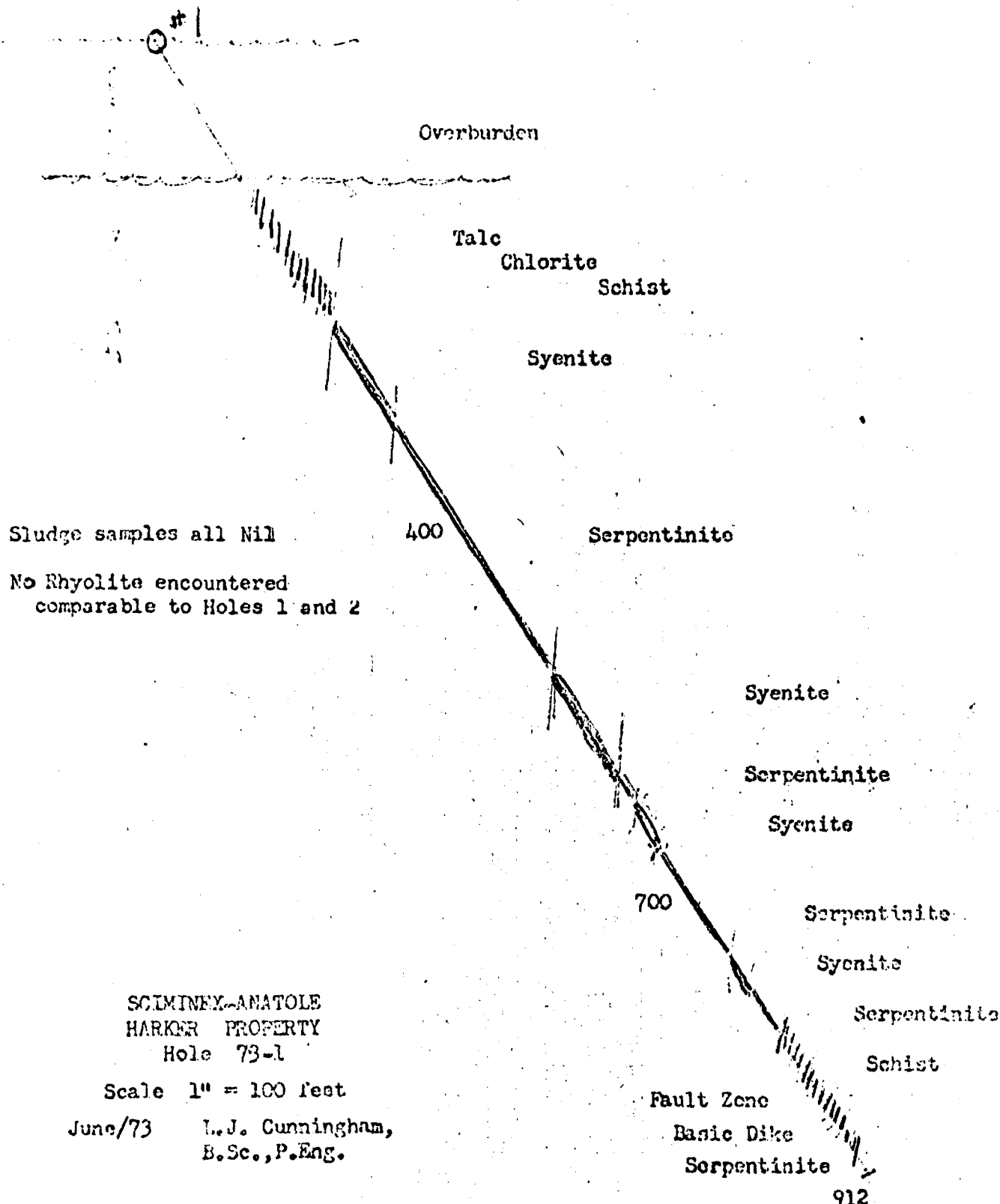
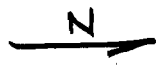
DIP TESTS

@ 200'	57°
400'	57°
600'	57°
800'	57°

DRILLED BY Heath & Sherwood Eastern Limited,

SIGNED 
I. J. Cunningham, P.Eng., Mining

SECTION LOOKING WEST



Sludge samples all Nil
No Rhyolite encountered
comparable to Holes 1 and 2

SCIMITEX-ANATOLE
HARKER PROPERTY
Hole 73-1

Scale 1" = 100 feet
June/73 L.J. Cunningham,
B.Sc., P.Eng.

Fault Zone
Basic Dike
Serpentinite

912

PROPERTY ANATOLE RESOURCES LIMITED

Harker Township 1100 feet east

HOLE NO. 2

LOCATION: 400' north of #3 Post 529774

LATITUDE: L 4 W

STRIKE: North (Ast)

PAGE NO. 1 of 2

DEPARTURE: 400 ft. North

DIP: 60°


ELEVATION: _____

DATE DRILLED: June 16 - June 26/73

PURPOSE: To test geochemical anomaly

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASS VAL
0- 58	CASING			
58-135	ACID VOLCANICS - fractured rhyolite, f.g., black to light green colour - mineralized with fine crystalline pyrite to a maximum of 5% - mineralization follows irregular stringers & occurs in spots and splashes			
	65.5 - 68.5	2004	3'	.005
	83	2018	2"	N11
	114 - 117	2006	2'	.015
	117 - 119 well mineralized with pyrite and 2" white qtz, some brown cherty alteration	2001	2'	.23
	119 - 122	2007	2'	.02
135-142	ACID AGGLOMERATE gross bedding suggested @ 30°/core			
	136 - 3" qtz. vein mineralized with pyrite	2002	3" 2"	.07
142-156	FAULT ZONE 20% lost core faulting 30°/core broken some qtz. and carbonate			
156-287	INTERMEDIATE VOLCANICS light green, massive, highly epidotized, little or no mineralization			
	160-161 qtz. stringers over 5" with fine pyrite in vein and walls	2003	1'	.03
	206 heavy splash of epidote with qtz. & coarse pyrite			
	212-220 40% lost core			
	226 Flow breccia over 4" with siliceous mat'l & a little pyrite			
	235 - 236.5	2008	1.5	.005
	236.5-237.1 2" white qtz. with min. wall rock	2005	8"	.02
287-300	SILICEOUS INTERFLOW material light buff to pink pink to brick red colour banded 45°/core			
300-335.5	BASIC VOLCANIC massive, dark green, f.g., uniform epidotized			
	300 1" qtz-carb. vein with pyrite	2019	2"	.02
	334-335.5 qtz. vein x 2 x 1" plus pyrite plus reddish alteration	2008	1.5'	.005
335.5-357	MIXTURE OF SILICEOUS INTERFLOW MATERIAL & BASIC VOLCANICS core broken and 20% lost core siliceous material f.g., dense, plate green, some banding 30°/core			
357-396	BASIC VOLCANICS Massive, dark green, highly epidotized in streak & bands & usually accompanied by bleb of pyrite - weakly magnetic, occ. narrow band of magnetite			
	363 - 2 x 1/4" heavy bands pyrite	2009	8"	N11
	Whole core mineralized with pyrite as blebs, streaks and bands to plus or minus 1%			
396-431	ACID VOLCANICS banded rhyolite 20-30°/core varied in colour - green, brown, red, buff f.g., dense mineralized with fine pyrite			
	398-399 3 x 1/4 qtz. stringers 45-60°/core brown alteration & pyrite plus minus 1%	2010	1'	.01
	408-409 qtz. stringers with alteration plus pyrite and coarse grains			

DRILLED BY Heath & Sherwood

SIGNED 
L.J. Cunningham, B.Sc.P.Eng.

LOCATION: _____

LATITUDE: _____

DEPARTURE: _____

ELEVATION: _____

STRIKE: _____

DIP: _____

DATE DRILLED: June 1973

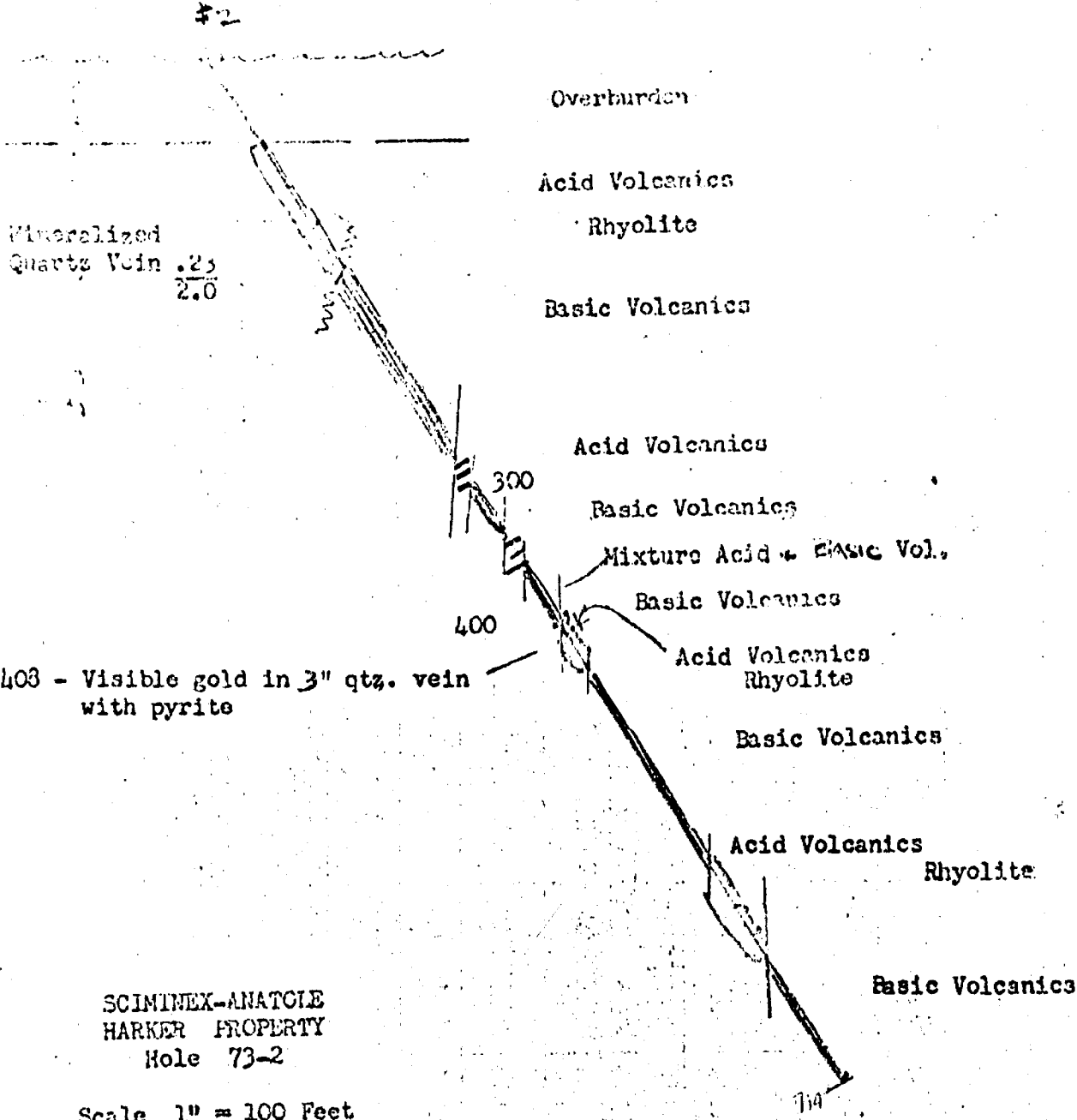
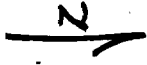
PURPOSE: _____

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE
	406-407	2013	1'	Nil
	407-408	2011	1'	.005
	408 5" qtz. vein with pyrite, brown silicificates and splash free gold & splash free gold sent to Mathews not assayed			
	408-409	2012	1'	Nil
	409-411	2014	2'	.005
	411 1/2" qtz. vein with chalcopyrite	2020	1"	.01
431-564	BASIC VOLCANIC med. grained, greenish blue, massive uniform cut by numerous quartz-carbonate stringers 45° to 90°/core generally 1/8" to 1/4" wide mineralized with occ. scattered bleb or seam of pyrite			
	511-515 fractured with fine pyrite.	2016	1'	Nil
	518-519.5 qtz. stringers silicified with pyrite	2017	1.5'	Nil
564-568	ACID AGGLOMERATE bedding suggested @ 30°/core			
	567 1" mineralized qtz. carb. vein	2015	1"	Nil
568-635	ACID VOLCANIC banded rhyolite 20-30°/core varied in colour green, brown, red, buff			
	605-615 heavy blebs of pyrite to 2.5 cm. dia.			
	615-635 20% lost core x			
	No water return at 647 cemented on Tues. 26 June			
635-650	633-650 fault zone cemented lost water			
	635-650 porphyritic syenite			
650-714	BASIC VOLCANIC as 431-568			
	688 4" white barren qtz. on flow breccia contact	2021	8"	Nil
714	END OF HOLE			
	Dip Tests @ 200 58° 400 59° 600 59°			
	See attached sludge sample reports.			

DRILLED BY Heath & Sherwood

SIGNED 
L.J. Cunningham, B.Sc., P. Eng.

SECTION LOOKING WEST



Mineralized
Quartz Vein $\frac{.25}{2.0}$

403 - Visible gold in 3" qtz. vein
with pyrite

SCIMINEX-ANATOLE
HARKER PROPERTY
Hole 73-2

Scale 1" = 100 Feet

June/73 L.J. Cunningham,
B.Sc., P.Eng.

300' north of

Post, Claim 329774

PROPERTY

SCIMINEX

Anatole Resources Limited

HOLE NO. 3

LOCATION: Harker Township

LATITUDE: 400' North

DEPARTURE: L 15 W

ELEVATION:

STRIKE: North (Ast)

DIP: - 50°

PAGE NO. 1

DATE DRILLED: June 28 - 11 July, 1973

PURPOSE: Test geochemical anomaly

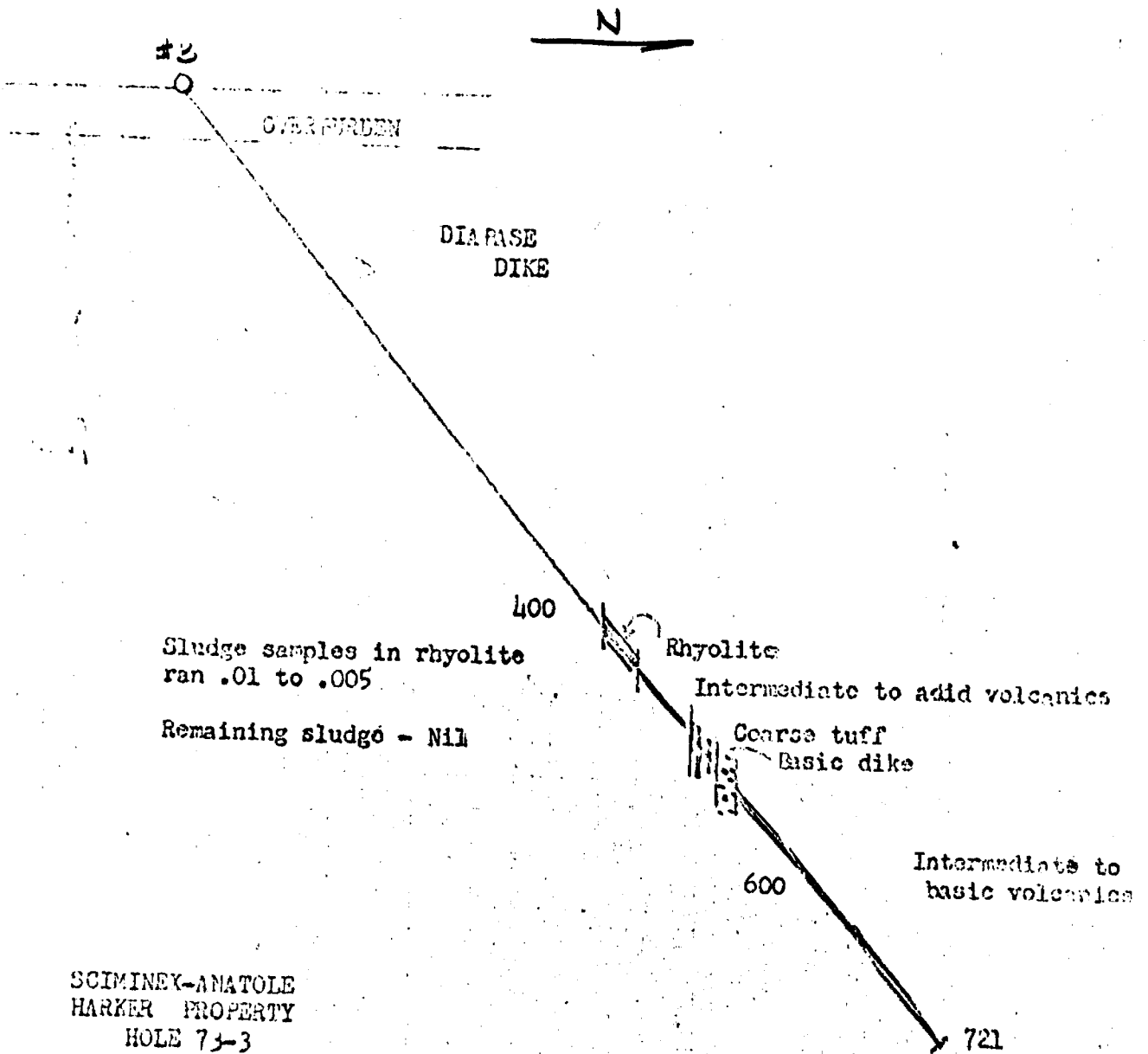
FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE
0-36	OVERBURDEN			
36-411	BASIC INTRUSIVE DIABASE Massive, med. grained, uniform occ. streaks & bands of epidote - 45°/core becoming fine grained around 390 Chilled black contact 30°/core @ 411			
411-435	RHYOLITE Fractured buff to dark brick to black epidotized scattered pyrite & magnetite gradational change to acid agglomerate			
435-470	ACID AGGLOMERATE mixture small 1/8" to 1" light coloured acid fragments in dark matrix Closely packed with fine pyrite & magnetite in matrix			
470-493	INTERMEDIATE TO ACID VOLCANICS dark, hard cut by few carbonate stringers, scattered blebs, patches & seams of pyrite			
493-518	coarse TUFF dark grey-black intermediate Black lathes & patches & light green patches appears recciated around 505 - fractured, vugy with fine pyrite in sections weakly magnetic, suggestive of flow top 514-515	2016	1'	NL
518-525	INTERMEDIATE VOLCANIC fractured scattered pyrite mineralization 518-519	2017	1'	N11
525-537	BASIC DIKE fine grained dark with black chilled contacts & tongues top & bottom contacts about 30°/core			
537-655	INTERMEDIATE VOLCANIC MASSIVE flow grey fractured in sections & occasionally vugy well epidotized for 2 feet at 537, magnetic, some pyrite mineralization, variable from fine to med. grained 567 3/4 banded qtz. & gouge & brown siliceous alteration vugy epidotized section may represent flow top	2015	1"	N11
	SLUDGE ALL NIL EXCEPT			
	50-60 .005			
	410-420 .005			
	420-430 .01			
	430-440 .005			
	460-470 .005			
655-668	FLOW TOP varicoloured - grey - green black Notable increase in pyrite ± 3% with 1" black siliceous mth. 30°/core @ 659	659 665-7	2022 2023	4" 2" N11 N11
668-700	BASIC VOLCANIC dark grey well fractured with carbonate stringers 695-700 - 50% LOST CORE			
700-702	ACID AGGLOMERATE black - fractured with fine pyrite Quartz-carbonate stringers & pyrite 700 - 701	2024	1'	N11
702-721	INTERMEDIATE VOLCANIC dark, fine grained, fractured, broken 15% LOST CORE 2" Quartz-carbonate vein with pyrite @ 708	2025	4"	N11
721	END OF HOLE			

Dip Angles 51° @ 200, 400, 600 and 720

DRILLED BY Heath & Sherwood

SIGNED
L.J. Cunningham, B.Sc., P.Eng.

SECTION LOOKING WEST



Scale 1" equals 100 feet
Aug. 73 L. J. Cunningham, B.Sc., P.Eng.

Swastika, Ont., POK 1T0, June 25, 1973 19.....

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. 45429

We have assayed thirty samples of sludge, split & unsplit core

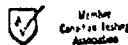
Received June 22, 1973 and submitted by Anatole Resources Limited.

Attention: Henry Kung, Esq. with the following results:

	Sample No.	Gold Gzs/ton	
Hole #2	70-80	Nil	
	80-90	0.005	
	90-100	0.005	
	100-110	0.07	RHOLITE BAND
	110-120	0.11	
	120-130	0.03	
	130-140	0.01	
	140-150	0.01	
	150-160	0.005	
	160-170	0.005	
	170-180	0.005	
	180-190	Nil	
	190-200	Nil	
	200-210	Nil	
	210-220	0.005	
	220-230	Nil	
	230-240	0.005	
	240-250	0.005	
	250-260	Nil	
	260-270	0.005	
	270-280	Nil	
	280-290	Nil	
	290-300	Nil	
	300-310	0.005	
	310-320	Nil	
	2001	0.23	
	2002	0.07	
	2003	0.03	
	2004	0.005	
	2005	0.02	
	600 - 640	NIL	

SWASTIKA LABORATORIES LIMITED,

per: *S. O. R. Lawson*



Swastika, Ont., POK 1T0, June 26, 1973 19

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. 49427

We have assayed twenty-eight samples of sludge

Received June 25, 1973 and submitted by Anatole Resources Limited.

with the following results:
Attention: Henry Kung, Esq.

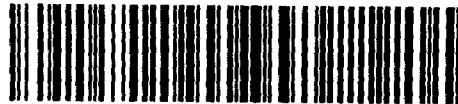
Hole #2

Sample No.	Gold Ozs/ton	
320-330	Nil	
330-340	0.01	
340-350	0.005	Partial Rholite Band
350-360	0.005	
360-370	Nil	
370-380	Nil	
380-390	Nil	
390-400	0.005	
400-410	0.01	
410-420	0.005	RHYOLITE BAND
420-430	0.005	
430-440	Nil	
440-450	Nil	
450-460	0.005	
460-470	Nil	
470-480	0.005	
480-490	Nil	
490-500	Nil	
500-510	Nil	
510-520	Nil	
520-530	0.005	
530-540	Nil	
540-550	Nil	
550-560	Nil	
560-570	Nil	
570-580	Nil	
580-590	Nil	
590-600	Nil	

600 - 680 NIL

SWASTIKA LABORATORIES LIMITED,

per: *D. C. [Signature]*



32D125W9338 17 HARKER

Report on

HARKER TOWNSHIP PROPERTY
OF
ANATOLE RESOURCES LIMITED
LARDER LAKE MINING DIVISION
ONTARIO

INTRODUCTION

Following a program of bio-geochemical investigation in 1972, diamond drilling was carried out in 1973 to test some of the anomalous areas. Three holes were spotted by Mr. W. J. Mathews, P. Eng. and in his absence, the writer supervised the drilling, logged and sampled the core.

Total footage was 2,347 feet.

LOCATION

The property consists of 18 contiguous claims in Harker Township located approximately 30 miles east of Matheson, the claims are readily accessible via Highway 101 which crosses Harker Township less than a 1,000 feet from the north boundary of the group. Excellent logging roads suitable to all vehicles cross the property. The claims are numbered as follows: 329769-86 inclusive.

GEOLOGY

The township was mapped by the O.D.M. in 1950 and a report and map were published being Vol. LX, Part VII, 1951 with map no. 1951-4.

Outcrop is scarce and much of the geology is conjecture.

However, according to map 1951-4, the claim group straddles the Destor-Porcupine Break and is underlain by sediments which strike easterly in the general area of the assumed fault and by intermediate to acid volcanics which lay south of the fault. A large syenite intrusive lies immediately south of the claim group.

No sediments were encountered in the three holes drilled.

The most westerly hole cut mostly highly altered basic

FORM NO. L2-311-P REPORT PAPER GRAND & TOY LIMITED

Anatole, Harker

Aug. '73

serpentinized rocks intruded by syenite dikes. The first 100 feet of the hole was a talc-chlorite schist suggesting proximity to faulting and shearing.

Hole No. 2 located 3,000 feet east of #1 cut a sequence of acid and basic volcanic flows with no evidence of intense shearing as indicated in Hole no. 1. Part of the acid volcanic series are rhyolite flows which are multi-coloured, cherty, blotched and streaky and mineralized with fine disseminated pyrite. They are occasionally cut by quartz-carbonate veins and stringers. These horizons show anomalous gold values in sludge samples and a .25 oz. gold over 2 feet was obtained in one assay associated with a quartz vein and free gold was observed in a 3" quartz vein in a second rhyolite band. No. 2 hole cut three rhyolite bands - the upper two have promising gold content. The third or lower band was barren where intersected.

Hole No. 3, located approximately 1,000 feet west of No. 1 hole, unfortunately collared in a diabase dike or sill and continued in it for over 400 feet. Below the dike a rhyolite band, similar to that encountered in hole No. 2, was encountered from 411 to 435. Again the sludge samples were anomalous in gold but no veins or fractures were observed and no samples were taken in this horizon. No further rhyolite bands were intersected in the hole.

DALE GOLD MINES

In 1946-7 Dale Mines drilled 6 holes to test geophysical anomalies on ground which is now part of Anatole. The drill logs are on file with the Ontario Dept. of Mines in Kirkland Lake. Although no significant gold values are shown in the logs, they (the logs) indicate that mineralized siliceous zones were encountered which appear similar to the favourable horizons cut in Holes #2. This is a further reason for staking additional ground.

DISCUSSION OF RESULTS

In the writer's opinion, the geochemical technique employed by Sciminex-Anatole shows great promise. The results of this limited drill program

FORM NO. L4331-P REPORT PAPER GRAND & TAY LIMITED

show that the method can locate gold bearing structures. Additional work is warranted and justified.

Hole No. 2 was uncommonly successful - cutting two rhyolite horizons carrying significant gold values.

Hole No. 3 very unfortunately entered a dike and failed to test most of the favourable horizons. However, the hole does suggest an east-west strike to the rhyolite horizon and a length of at least 1,000 feet.

Geological conditions are entirely different in hole No. 1 and it is difficult to explain why a geochemical anomaly should occur over this hole.

RECOMMENDATIONS

- A) Hole No. 2 is located about 800 feet from the east boundary of the property and a lesser distance from the south boundary. It is imperative that additional ground be staked to protect the known gold bearing structures. Considering the promising drilling results, it is recommended that the group be enlarged by staking 27 additional claims as indicated on the accompanying sketch - this would extend the group to the patented land which lies about 2,000 feet east and 2,000 feet west of the claim boundaries - and add a strip, one claim wide, along the north and south sides of the group.
- B) All of the rhyolite sections of Holes #2 & #3 have been stored in Kirkland Lake. It is recommended that these entire horizons be split and assayed in 5 foot lengths.
- C) Additional drilling should be done in the vicinity of Hole No. 2. It is recommended that holes be drilled parallel to No. 2 at locations 200 feet east and 200 feet west of that collar. Depending on these results, additional drilling should be considered.

Signed,



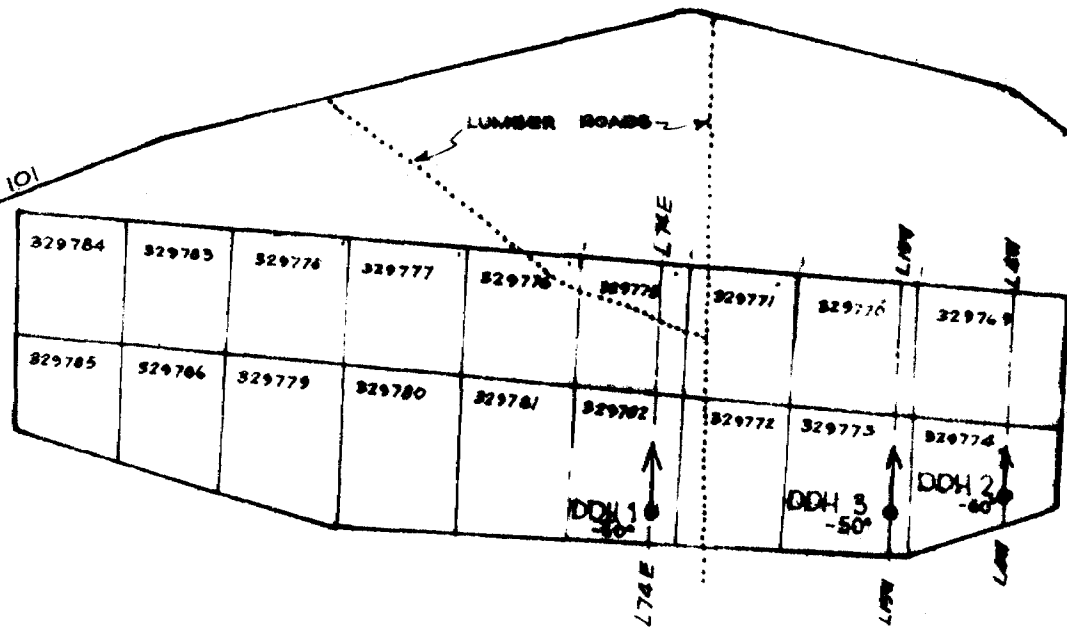
L. J. Cunningham, B.Sc., P.Eng.
Mining Engineer

9th August, 1973
Kirkland Lake, Ontario

FRANKLIN TWP
HARKER TWP

GARRISON TWP
HARKER TWP

HWY 101







SKETCH MAP FOR CONTRACT KL-23
TO SHOW LOCATION OF DIAMOND DRILLING
IN HARKER TOWNSHIP, ONTARIO

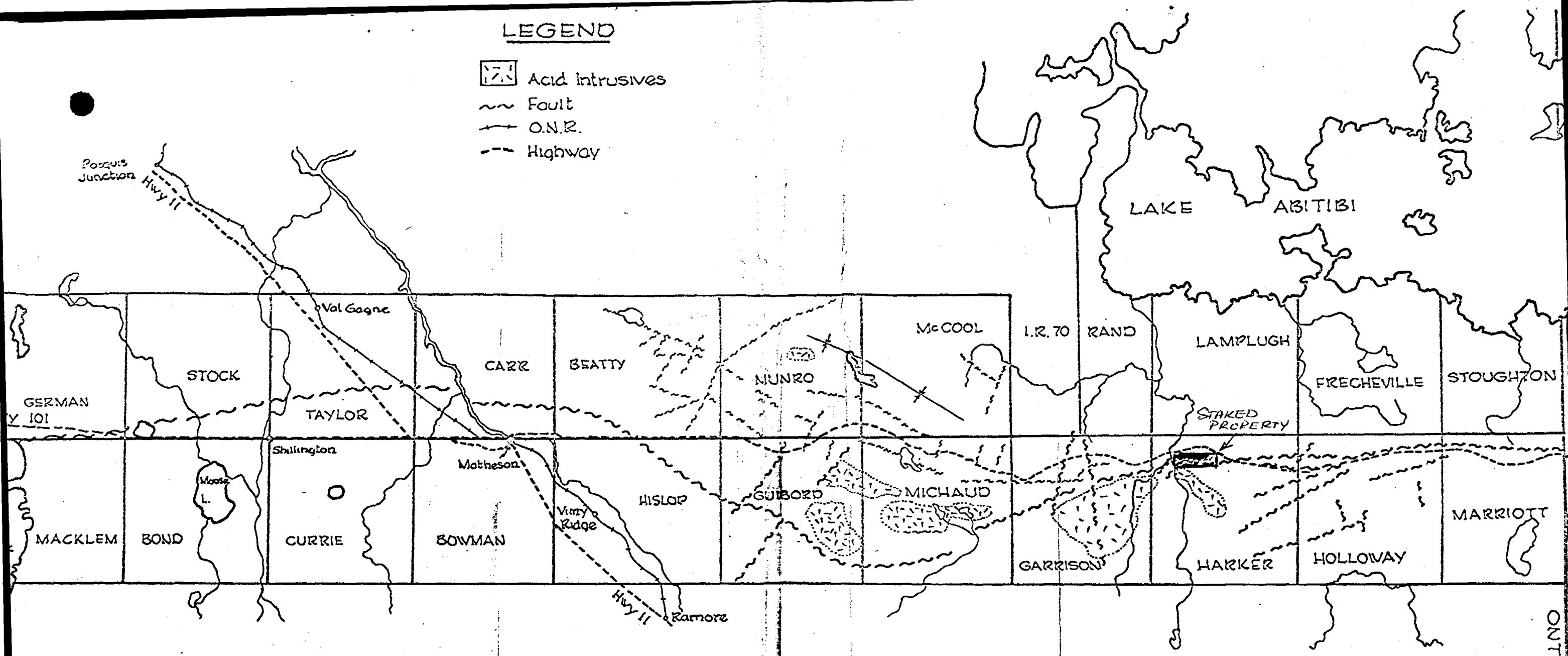
SCALE: 1" = 2000'

DEPT. 1973

W. J. Matthews, P. ENG.

LEGEND

-  Acid Intrusives
-  Fault
-  O.N.R.
-  Highway



GEOLOGY . ADJACENT TO PORCUPINE-DESTOR FAULT (AFTER O.D.M. MAP 2046)
 Scale 1 in. = 4 mi. *wjm '72*

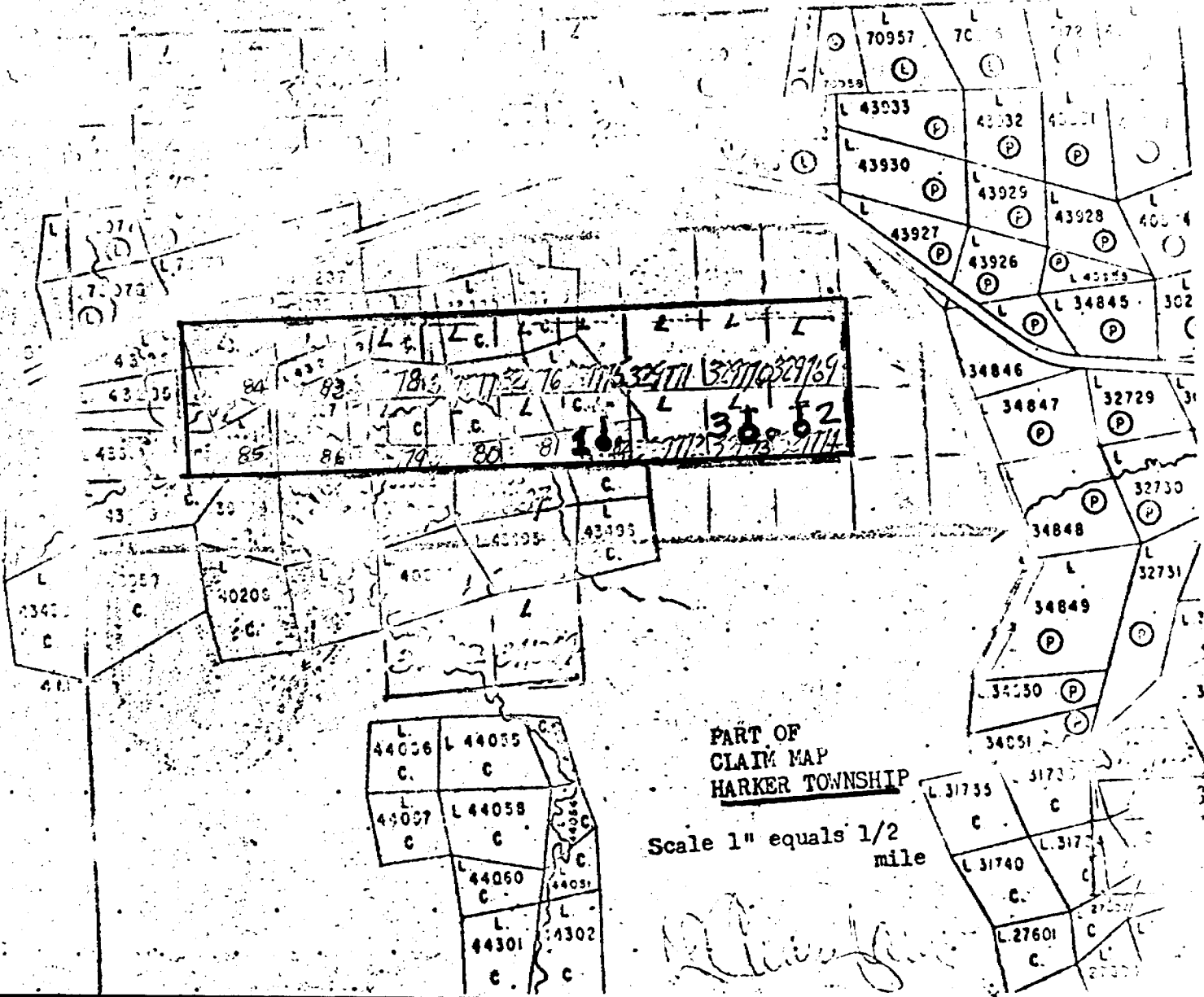
ONTARIO



32D 125W9338 17 HARKER

Armed property shown in red.
Recommended staking shown in blue
Staked or Patented land shown in green
Ansoole Drill Holes shown in ~~blue~~ Red
Dale Gold Mines drill holes shown in ~~red~~

1, 2, 3.



PART OF
CLAIM MAP
HARKER TOWNSHIP

Scale 1" equals 1/2
mile

[Handwritten signature]

Expenses on Claims L 329769 to L 329786 inclusive in
Harker Township, Larder Lake Mining Division in 1973.

1. Drill hole spotting - W. Matthews May 26 - 29/73	200.00
2. Engineering and consulting - Len Cunningham	1,035.00
3. Diamond Drilling - by Heath & Sherwood DDH #1 - 912' length - located in L 329782 DDH #2 3 - totally ⁷¹⁴ 435 ' - located in L 329774 DDH #3 - 72' length - located in L 329773 Total cost of 2347' drilling	19,266.85
4. Assaying by Swastika Laboratories	848.50
Total	<hr/> 21,350.35

Toronto, March 19/74

W. Matthews P. Eng.