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53F15SW0007 63.5480 LINGMAN LAKE

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OM88-1-L-217

TWIN GOLD MINES LTD.

THE LINGMAN LAKE DEPOSIT

RED LAKE MINING DIVISION

ONTARIO, CANADA

Toronto, Ontario

March 1989

SUMMARY

The Twin Gold Lingman Lake property consists of 21 patented and 43 unpatented contiguous mining claims located in northwestern Ontario near the Manitoba boundary.

Surface diamond drilling and underground exploration on 3 levels have partly tested 3 main gold-bearing zones on the property:

They are: The North Zone traced for a length of 2,100 feet

The Central Zone traced for a length of 2,000 feet

The South Zone traced for a length of 2,000 feet

Surface sampling, mapping and geophysics indicate that the North Zone could extend at least another 1,900 feet to the east and possibly onto the adjacent optioned Roman property.

The West Zone contains some excellent widths and grades and has had only limited drilling. It remains open at depth and along strike to the west.

Calculations of resources at a 5.0 ft. minimum width and a cut-off grade of 0.08 oz. per ton gold are 1,172,753 tons with a grade of 0.20 oz. per ton gold.

A programme of exploration and definition diamond drilling at a cost of \$3,102,000 is recommended for 1989. This programme is designed to raise the confidence in the above stated resources, to add to them along strike and to depth, and to test new showings and geophysical anomalies.

TABLE OF CONTENTS



53F15SW0007 63.5480 LINGMAN LAKE

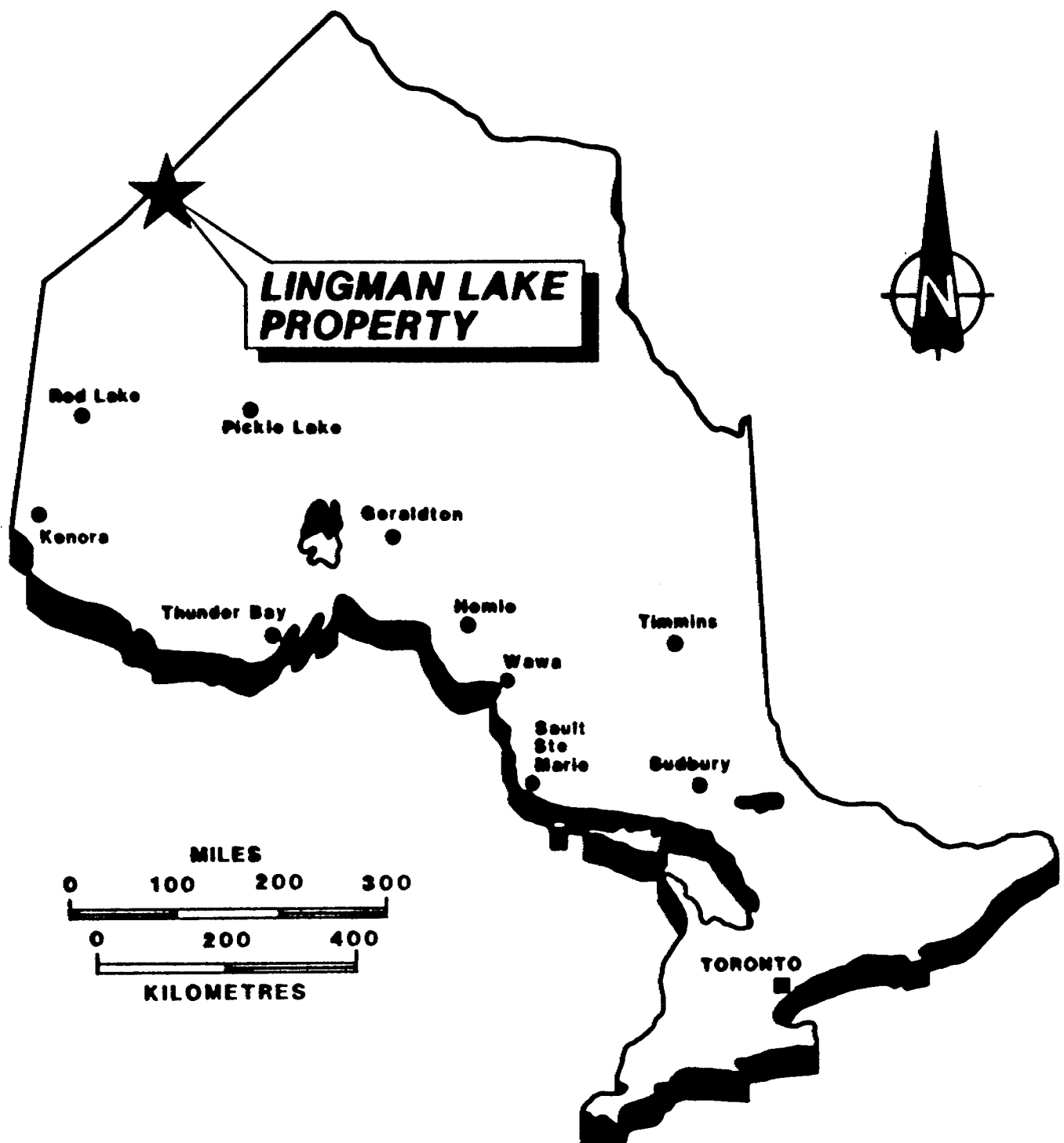
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	PAGE
SUMMARY	
LOCATION	1
ACCESS	1
CLIMATE AND TOPOGRAPHY	1
PROPERTY	4
LOCAL FACILITIES	6
HISTORY	7
RECENT 1987, 1988 WORK PROGRAMMES	9
GEOLOGY	10
MINERALIZATION	14
RESOURCES	17
CONCLUSIONS	23
RECOMMENDATIONS	25
BUDGET	26
REFERENCES	27
ILLUSTRATIONS	
Location Map 1	2
Location Map 2	3
Property Map	5
Geology	13
Cross Section	16
Drill Hole Locations and Zones	21
Longitudinal Section 1 & 2	22
Geophysics	24

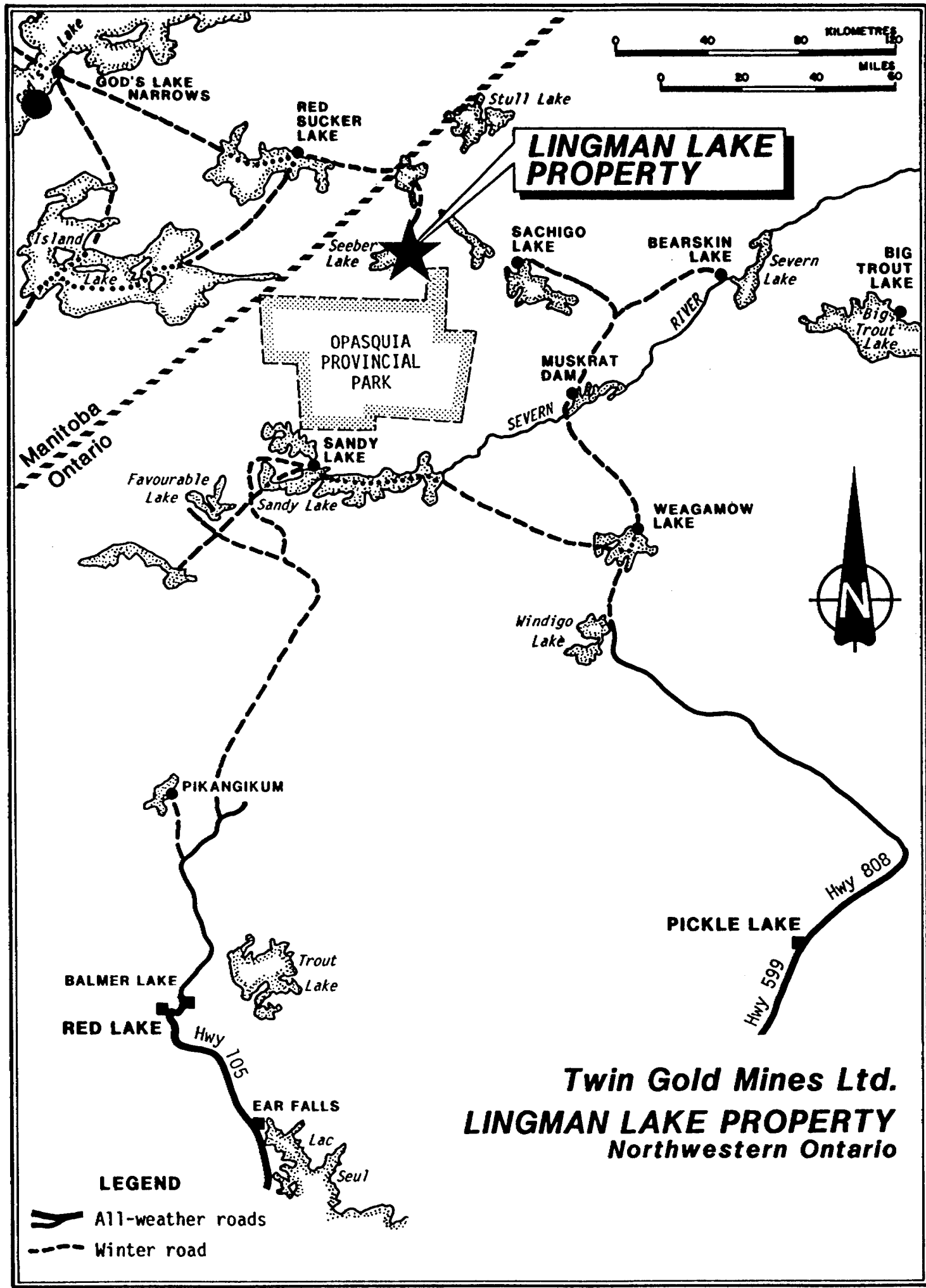
LOCATION: The Lingman Lake property is located 195 miles north of Red Lake, Ontario, and 24 miles east of the Manitoba boundary. The nearest settlements are Red Sucker Lake, Manitoba, about 36 miles to the northwest, and Sachigo Lake, Ontario, 30 miles to the east.

ACCESS: Access to the property is by air from Red Lake, Ontario, and Red Sucker and Island Lake, Manitoba. A winter road from Red Sucker has been re-established during this winter.

CLIMATE AND TOPOGRAPHY: The local climate is semi-arid, sub-Artic. Much of the area has been burnt by forest fires. The property is covered by spruce, jack pine, birch and poplar with alder swamps. The local relief rarely exceeds 20 feet in a predominantly gently rolling terrain.





Twin Gold Mines Ltd.
LINGMAN LAKE PROPERTY
Northwestern Ontario
LOCATION MAP



LINGMAN LAKE PROPERTY

**Twin Gold Mines Ltd.
LINGMAN LAKE PROPERTY
Northwestern Ontario**

LEGEND

-  All-weather roads
-  Winter road

PROPERTY: The property consists of 21 patented and 43 unpatented mining claims in the Lingman Lake area of the Red Lake Mining Division, Ontario.

Patented Mining Claims

PA6130	-	PA6138 inclusive
PA6197	-	PA6204 inclusive
PA6391	-	
PA6633	-	PA6634 inclusive
PA6196	-	

Unpatented Mining Claims

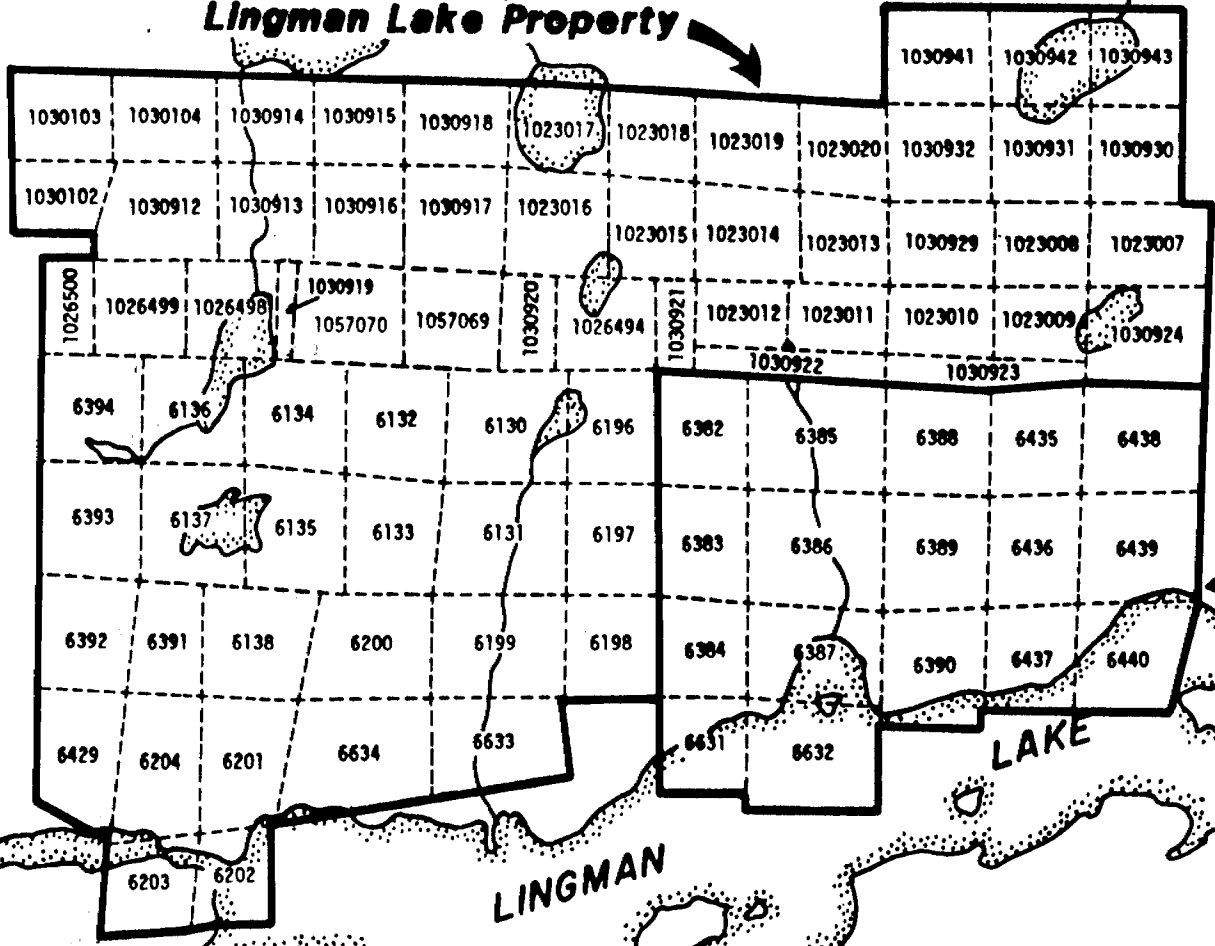
KRL1026494	-	
KRL1026498	-	KRL1026500 inclusive
KRL1023011	-	KRL1023012 inclusive
KRL1023017	-	KRL1023020 inclusive
KRL1023007	-	KRL1023010 inclusive
KRL1023013	-	KRL1023016 inclusive
KRL1030102	-	KRL1030104 inclusive
KRL1030912	-	KRL1030924 inclusive
KRL1030929	-	KRL1030932 inclusive
KRL1030941	-	KRL1030943 inclusive
KRL1057069	-	KRL1057070 inclusive

Twin Gold also has an option on the adjacent Roman property (17 claims) to the east.

Scale



Lingman Lake Property



ROMAN OPTION

Twin Gold Mines Ltd.
LINGMAN LAKE PROPERTY
 Northwestern Ontario
CLAIM MAP

LOCAL FACILITIES: Process and drinking water is readily available on the property.

Trees are small and would be of limited use for mining purposes.

Hydro power is not available in the area; however, preliminary discussions with Manitoba Hydro indicate that a transmission line is in the planning stages to service Red Sucker Lake, a distance of 36 miles from the property. This line may be completed by early 1994.

There are no all-weather roads near the property and therefore present access is by air. Twin Gold partially reestablished an old winter road from Red Sucker, Manitoba, a road distance of 52 miles, last winter. This access route has been completed this winter and equipment and fuel are now being moved in. An extensive esker about 4 miles west of the property could provide sand and gravel for a possible airstrip as well as road building and construction.

During the winter of 1987 - 1988, equipment for road building and underground testing which includes a bulldozer, buildings, a hoist, transformers, compressor and generators, as well as diesel fuel and tanks, was mobilized. An early spring caused deterioration of the road and prevented completion of this work.

A tent camp serviced by diesel power can accommodate 25 people at Lingman Lake.

PROPERTY HISTORY: The earliest recorded work on file are maps dated 1938 and 1939 showing part of a claim group staked in the same location as the present patented property. Gold was first discovered on the property in 1942. In 1945, Lingman Lake Mines Limited purchased the claims. The company name has changed several times:

1945	Lingman Lake Gold Mines Ltd.
1948	Lake Lingman Gold Mining Company Limited
1964	Lakelyn Mines Limited
1978	Lakelyn Mines Inc.
1979	Twin Gold Mines Ltd.

The following work has been carried out on the property:

1945 - 1948	Surface drilling 79 holes	36,551 feet
*1973 - 1974	Surface drilling 5 holes?	<u> ?</u>

* Indicated by a newspaper account of work in progress (Northern Miner, 1973). No logs for these holes are on file and therefore locations and results cannot be verified.

Underground

1946 - 1948	3 compartment, vertical shaft				430 feet
	<u>Drifting</u>	<u>Raises</u>	<u>Cross-Cutting</u>	<u>Drilling</u>	
Level 1	150 ft.	771	-	388	3,106 ft.
Level 2	275	1,378	207	313	2,551 ft.
Level 3	400	<u>1,125</u>	<u>233</u>	<u>121</u>	<u>4,139</u> ft.
Total:		<u>3,274</u>	<u>440</u>	<u>822</u>	<u>9,796</u> ft. 120 holes

Underground workings were face sampled as work progressed. Car samples taken at the time were in general agreement with the faces. Sometime before the mine was abandoned, it was back sampled at 5 - 7 foot intervals. The back samples were used to obtain the drift averages used in the resource calculations which occur later in this Report.

Metallurgical tests were performed in 1948 and 1949 on 3 underground samples and a composite of the 3 samples. Cyanidation on samples 1 and 2 gave good recoveries (95 - 96%). The third sample, which contained higher arsenic, proved to be refractory and gave a recovery of 64.8% by cyanidation, however 94% extraction was obtained by a combination of flotation and roasting of the concentrate followed by cyanidation. No significant silver values occurred in the samples tested (0.27 to 0.64 oz. per ton).

In 1948 Lingman Lake Gold Mines Limited purchased the mine site, mill and equipment and a power plant from God's Lake Gold Mines Limited.

In 1949, the company's God's Lake mill, with a daily capacity of 200 tons, was dismantled and shipped by winter roads to the Lingman Lake property. A power line was surveyed to a company owned power plant at Kanuchuan Rapids, Manitoba, a distance of 87 miles and the right of way for the power line was cut for 40 miles. Delays in the delivery of building materials to the site prevented the erection of the mill. The Manitoba Hydro expropriated the company's power plant and the company, unable to raise additional financing, closed the project, [M. Smerchanski, former President of the company, personal communication].

GEOLOGY: The Twin Gold property is located in the Lingman Lake volcanic belt, one of the several volcanic belts near the boundary of the God's Lake and Berens River subprovinces of the Canadian Shield. The belt is an irregularly shaped complex of Archean metavolcanics, metasediments and intrusive rocks that extends 20 miles in an east-west direction and is up to 9 miles wide. The claim group is located on the northern limb of a regional syncline and covers the volcanic-granitic contact (see Page 13).

Rock types identified on the property are summarized in the following table:

Late to Middle Archean

Diabase Dyke

Archean

Felsic Plutonic Rocks

- a) Granite to tonalite
- b) Granite feldspar porphyry

Mafic Plutonic Rocks

- a) Gabbro
- b) Diorite

Felsic Hypabyssal Rocks

- a) Tonalite quartz-feldspar porphyry
- b) Monzonite feldspar porphyry
- c) Aplite
- d) Quartz-sericite schist
- e) Quartz diorite

Clastic Metasedimentary Rocks

- a) Mudstone
- b) Arenite

Chemical Metasedimentary Rocks

- a) Oxide iron formation
- b) Sulphide iron formation
- c) Graphitic units

Felsic Metavolcanic Rocks

- a) Rhyolite flows
- b) Rhyolite tuff
- c) Rhyolite lapilli tuff
- d) Rhyolite volcanic breccia

Intermediate Metavolcanic Rocks

- a) Andesite flows
- b) Andesite porphyry

Mafic Metavolcanic Rocks

- a) Massive fine-grained basalt
- b) Pillowed basalt flows
- c) Medium-grained basalt
- d) Vesicular mafic flows
- e) Amygdaloidal mafic flows
- f) Mafic interflow sediment
- g) Mafic tuff
- h) Coarse-grained basalt
- i) Mafic feldspar porphyry ("Leopard Rock")

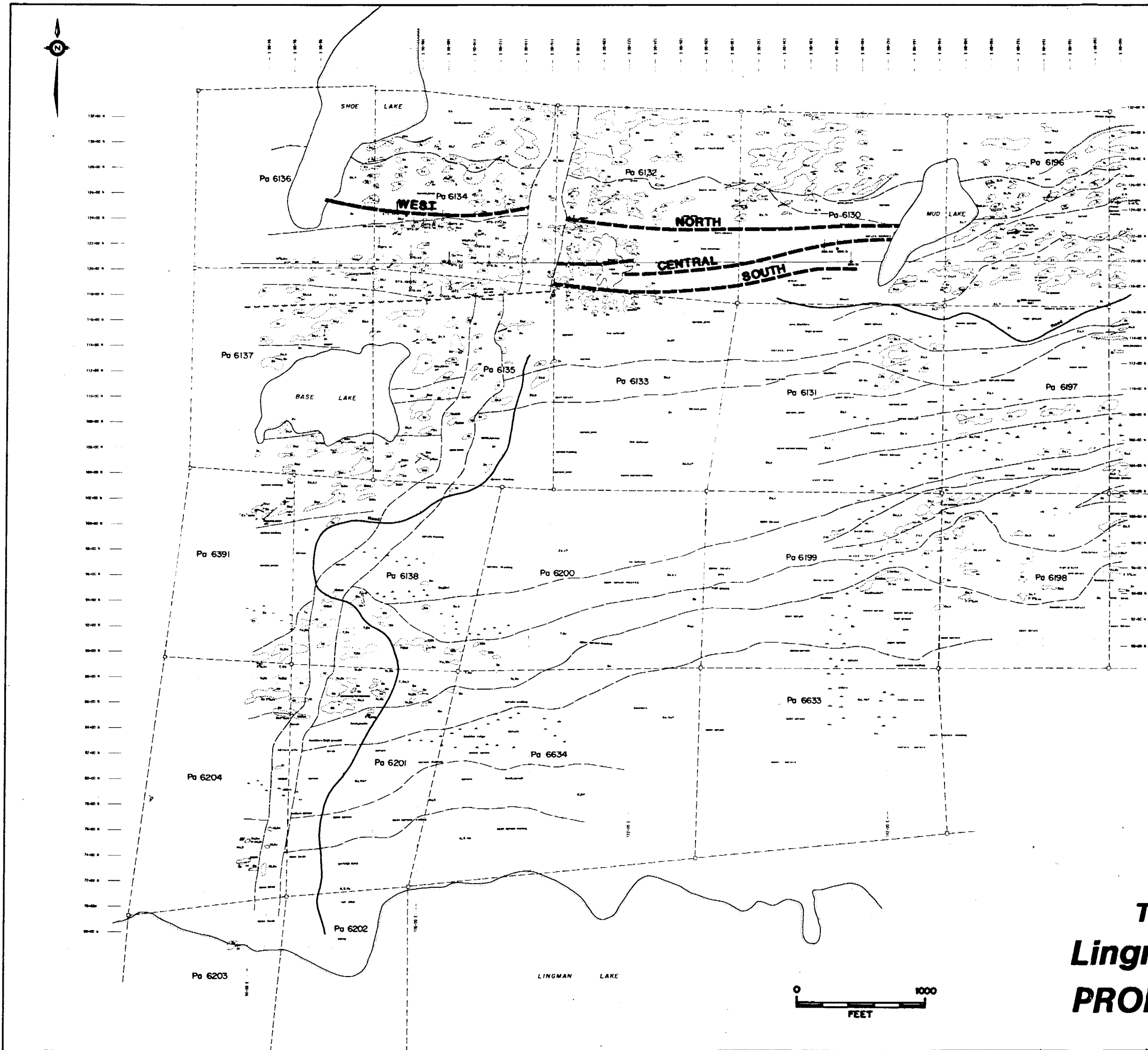
Komatiitic Metavolcanic Rocks

a) Talc-carbonate schist - komatiitic flow

The stratigraphy is characterized by a sequence of steeply dipping interbedded layers of mafic to intermediate metavolcanics and metasediments intruded by quartz-feldspar porphyry and quartz diorite. The belt is surrounded by tonalite, granodiorite and granite. A north-northwest trending, massive diabase dyke crosses the property and extends into the granitic rocks to the north.

The mineral content of the rocks indicates amphibolite grade metamorphism at and near the granitic contact and greenschist facies metamorphism to the south.

All of the rocks, including the late diabase dyke and the granitic rocks, are cut by east trending, near vertical strike-slip faults, some of which have been channelways for mineralizing solutions.



Legend

- 10 Diabase dike
- 9 Granitic rocks
- 8 Gabbro
- 7e Diorite
- 7b Felsic hypabyssal rocks
- 6 Clastic metasedimentary rocks
- 2 Metavolcanic rocks
 - 2ab Massive fine-grained basalt, pillowed basalt flows
 - 2ch Medium - coarse-grained basalt

**TWIN GOLD MINES LTD.
Lingman Lake Project
PROPERTY GEOLOGY**

MINERALIZATION: Diamond drilling has partly tested three main gold-bearing zones on the property:

They are: The North Zone traced from 11800E to 13900E = 2,100 feet.
The Central Zone traced from 11700E to 13700E = 2,000 feet
The South Zone traced from 11600E to 13600E = 2,000 feet

In addition, the West Zone, which may be an extension of the North Zone, has been partly tested by drilling from west of the diabase at 11300E to 10300E = 1,000 feet.

An additional zone, the 11650N, which is weakly mineralized, has been tested near surface and has been traced from 11900E to 12800E = 900 feet.

The most favourable host rocks for gold mineralization are foliated silicified mafic volcanics in close proximity to quartz-feldspar porphyry bodies. The porphyry associated with mineralization is foliated and altered to a quartz-sericite schist (see Page 16).

Metallic minerals associated with the gold consist of pyrite, pyrrhotite and arsenopyrite with occasional chalcopyrite, galena and sphalerite. Gold values are often associated with acicular arsenopyrite, however, good gold values do occur in silicified zones with only accessory pyrite. Other minerals in the gold zones are quartz and carbonate. Visible gold is rare on the property.

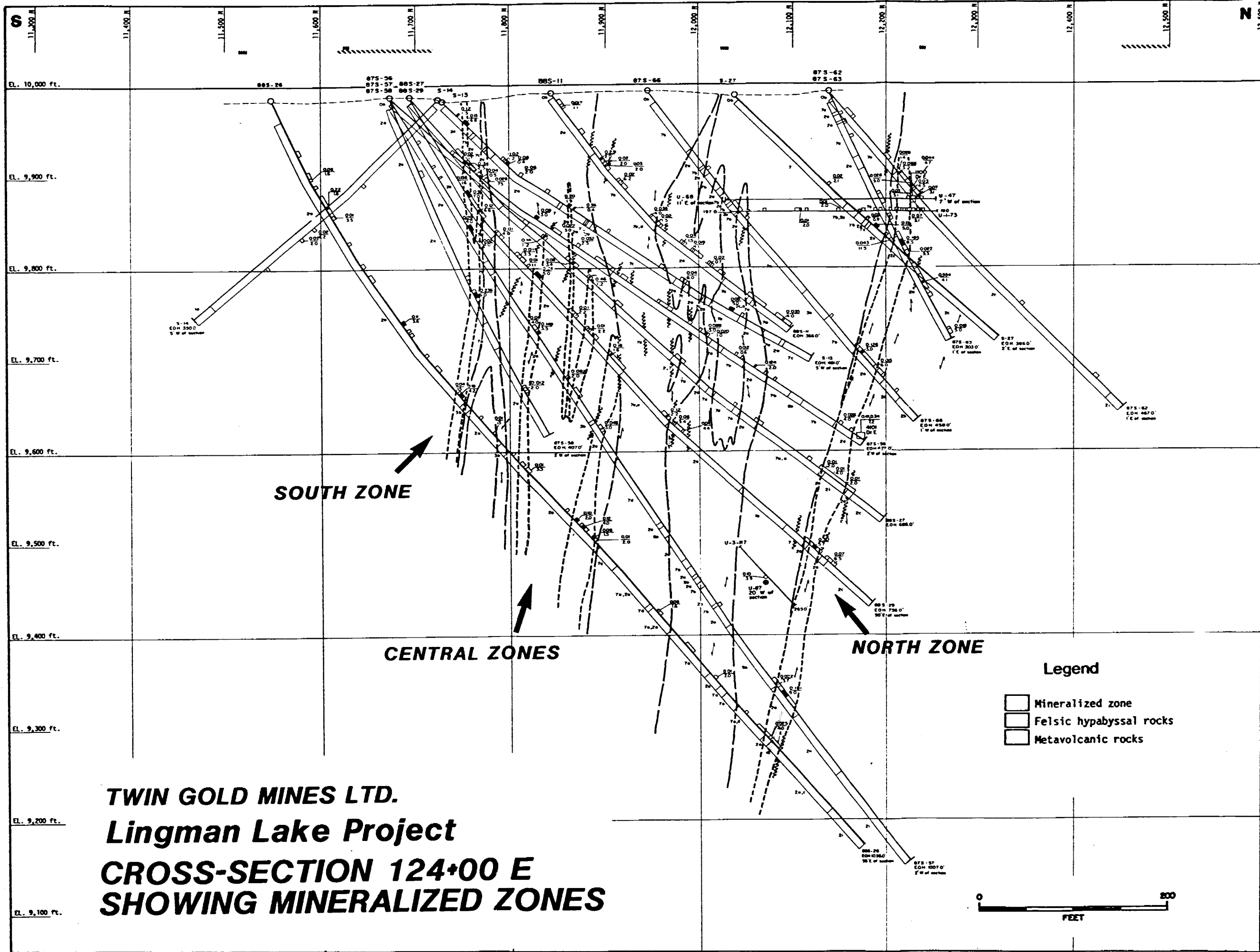
Diamond drilling, surface mapping and sampling have indicated that the zones trend east-west and dip steeply to the south. The zones pinch and swell both along strike and down dip. There are a number of good-grade intersections obtained in drilling that appear to be of limited extent and have not been used in the resource calculations. In many instances, these intercepts show the same characteristics as the main zones - i.e. sheared mafic volcanics in close proximity to felsic intrusions.

● During the late phase of the 1988 field programme, a limited amount of work was carried out on an old showing about 500 feet south of Base Lake.

Surface stripping and sampling has shown that this zone is different from the main zones. This shear zone, which is up to 35 feet wide, strikes northeast and dips steeply to the south. The shear is mineralized with chalcopyrite within a highly altered chloritic, sericitic, carbonatized rock with a green mica matrix.

Gold values of up to 0.20 oz. per ton have been obtained from limited sampling. The gold values appear to occur in the sheared volcanics and not in the quartz veins.

This zone and a flanking electromagnetic conductor will be tested in the next phase of drilling.



TWIN GOLD MINES LTD.
Lingman Lake Project
CROSS-SECTION 124+00 E
SHOWING MINERALIZED ZONES

- Legend**
- Mineralized zone
 - Felsic hypabyssal rocks
 - Metavolcanic rocks



RESOURCES:**POSSIBLE + PROBABLE**

	Au. <u>oz./ton</u>	<u>tons</u>	<u>tons/vert. foot</u>
0.08 oz./ton Assay Cut Off (min. 5.0 foot width)			
11650N Zone	0.11	23,326	78
South A	0.25	24,489	70
South B	0.31	37,653	80
South C	0.18	148,933	360
Central A	0.20	99,720	180
Central B	0.19	73,260	123
Central C	0.11	11,087	28
North	0.20	633,896	1,445
West	<u>0.22</u>	<u>120,389</u>	<u>268</u>
Total	<u>0.20</u>	<u>1,172,753</u>	<u>2,632</u>

0.10 oz./ton Assay Cut Off (min. 5.0 foot width)

11650N Zone	0.13	14,263	48
South A	0.31	18,181	52
South B	0.34	31,758	63
South C	0.18	135,931	340
Central A	0.20	99,720	180
Central B	0.22	61,902	157
Central C	0.12	7,391	18
North	0.23	498,939	1,140
West	<u>0.23</u>	<u>111,476</u>	<u>248</u>
Total	<u>0.22</u>	<u>979,561</u>	<u>2,246</u>

0.15 oz./ton Assay Cut Off (min. 5.0 foot width)

11650N Zone	0.15	2,609	10
South A	0.31	18,181	52
South B	0.34	31,758	63
South C	0.25	72,085	180
Central A	0.26	58,276	146
Central B	0.23	52,672	134
Central C	n/a	n/a	n/a
North	0.30	312,508	726
West	<u>0.25</u>	<u>94,801</u>	<u>210</u>
Total	<u>0.27</u>	<u>642,890</u>	<u>1,521</u>

Resource Calculations:

PROBABLE TONNAGE

<u>Zone</u>	<u>(0.08 oz. cut off)</u>		<u>(0.10 oz. cut off)</u>		<u>(0.15 oz. cut off)</u>	
	<u>Tons</u>	<u>Grade</u>	<u>Tons</u>	<u>Grade</u>	<u>Tons</u>	<u>Grade</u>
11650N	n/a		n/a		n/a	
South A	3,829	0.51	3,829	0.51	3,829	0.51
South B	2,439	0.51	2,439	0.51	2,439	0.51
South C	1,315	0.18	1,315	0.18	1,315	0.18
Central A	13,638	0.19	13,638	0.19	8,341	0.23
Central B	6,266	0.24	6,266	0.24	6,266	0.24
Central C	n/a		n/a		n/a	
North	46,972	0.54	46,972	0.54	43,168	0.59
West	n/a		n/a		n/a	
Total	<u>74,459</u>	<u>0.44</u>	<u>74,459</u>	<u>0.44</u>	<u>65,358</u>	<u>0.49</u>

Average Width (feet)
(0.08 oz. Au/Ton Cut Off)

<u>Zone</u>	<u>Average Width</u>
11650N	5.0
South A	7.0
South B	9.6
South C	6.3
Central A	6.2
Central B	6.0
Central C	5.0
North	7.9
West	7.5

To avoid, at this stage, the economic connotation of "reserves" the term "resources" is used to describe the "in situ" tonnage and grade calculated at the different cut-offs in this exercise. Since the deposit at this time lacks all-weather road access, proximity to power and other accepted infra structure and metallurgical recovery data, mining rate and mill head grade to be economic are not known. Because of the uncertain costs relating to the above, the resources have been calculated using 3 cut-offs.

The calculated tonnage and gold grade are based on the results of underground drift and raise sampling, underground and surface diamond drilling. The underground sampling, done in 1947, is accepted as being well done because it checks closely with the muck or car samples that were taken at the time.

Two categories only have been used to describe the resources, **Probable** and **Possible**, based on definitions accepted by The Association of Professional Engineers of the Province of Ontario:

- (1) "**Probable**" resources are those materials for which tonnage and grade are computed partly from specific measurements, samples, or production data and partly from projection for a reasonable distance on geologic evidence. The sites available for inspection, measurement and sampling are too widely or otherwise inappropriately spaced to outline the material completely or to establish its grade throughout.
- (2) "**Possible**" resources are those materials for which quantitative estimates are based largely on broad knowledge of the geologic character of the deposit and for which there are few, if any, samples or measurements. The estimates are based on an assumed continuity or repetition for which there are reasonable geological indications.

The "**Proven**" category has been avoided until the individual shoots have been confirmed on three (3) sides. This could be considered unduly conservative in some areas at Lingman Lake.

A surface pillar 50 feet thick has been recognized in areas of known overburden or swamp. The 50 feet is from the overburden/bedrock interface as interpreted from the collars of nearby drill holes. The resources in the pillar are not included in the totals.

East of the underground workings calculations are based on surface diamond drill hole intersections entirely. The holes are on section lines 100 feet apart with intercepts roughly 100 feet apart in the vertical plan on the North Zone, less on zones closer to the drill hole collars. In the area of the underground workings drilling and sampling data are more concentrated.

In the resource calculation process correlation is first completed on the cross sections. A longitudinal section is constructed on each geologically recognized zone. From

the data on the longitudinal section the shoots conforming to the three (3) cut-off criteria are shaped by contour lines halfway between data acceptable to the cut-off and data below the cut-off. When the shoot outline has been determined the resource blocks are made to fit the outline.

On cross section the vertical extent of the blocks is determined by extending assay data halfway to the next assay data. Area is determined by true width times slope distance. Volume is determined on longitudinal section by extending each block halfway to the next section or to the contour limiting the shoot as shaped (see above). Tonnage is calculated by dividing the volume by 11.5. The 11.5 is the cubic feet per short ton based on the specific gravity of the North Zone of 2.7.

In this exercise a minimum true width of 5 feet has been used. Samples and intersections giving a true width of less than 5 feet have been extended to 5 feet using the grade of adjacent samples or zero, whichever information is available. To be acceptable in the 3 cut-off grade categories each intersection used must meet the grade criterion over 5 feet true width.

High grade gold assays have not been cut in the calculations because gold assays in excess of 1 oz. gold are common in the area of the underground workings where sample frequency is high.

Dilution has not been applied to the resources because a mining method has not been decided. Wall rock conditions in core seen should not offer a problem in caving.

Tonnage and grade on each section are tabulated and posted. Each block is categorized "**Probable**" or "**Possible**" on the basis of the information at hand. Because of the large quantity of sample data in drifts and raises, blocks containing a raise are placed in the Probable category as is a 25 foot strip above and below a drift containing acceptable grade in any of the 3 cut-offs. Blocks based on drill hole data only are categorized "Possible".

Totals are kept for each zone (North, Central, South, etc.) and for all zones combined. Average widths for each zone are recorded as are tons per vertical foot.



WEST ZONE

NORTH ZONE A

SOUTH ZONE

"11650 N" ZONE

DIABASE

LEGEND

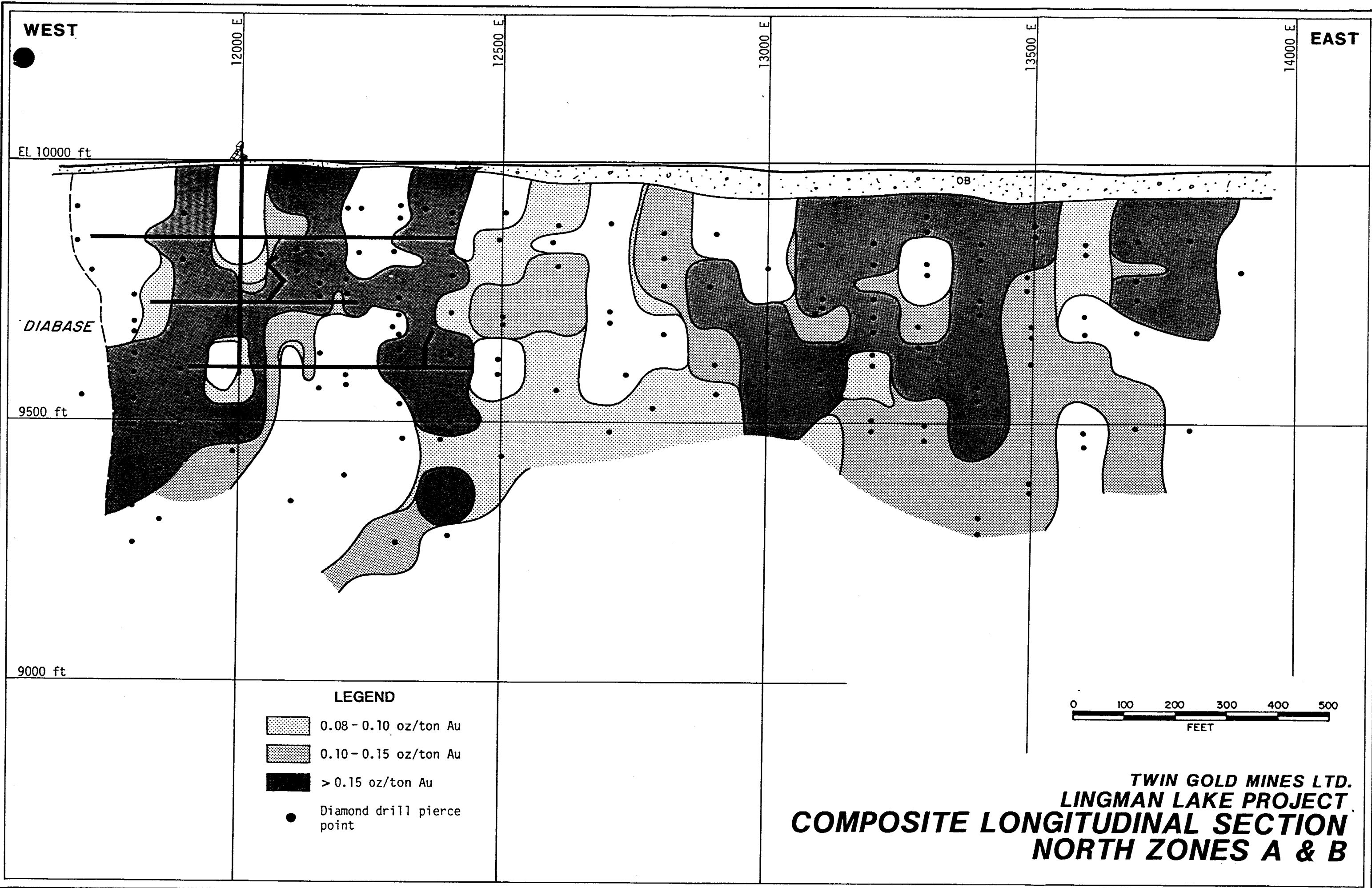
- DRILL HOLE - SURVEYED
- DRILL HOLE - UNSURVEYED

MINERALIZED ZONES

- ▬ Good geological control
- ▬ Weak geological control

Number	Date
S-	1946
73-	1973
87S-	1987
88S-	1988





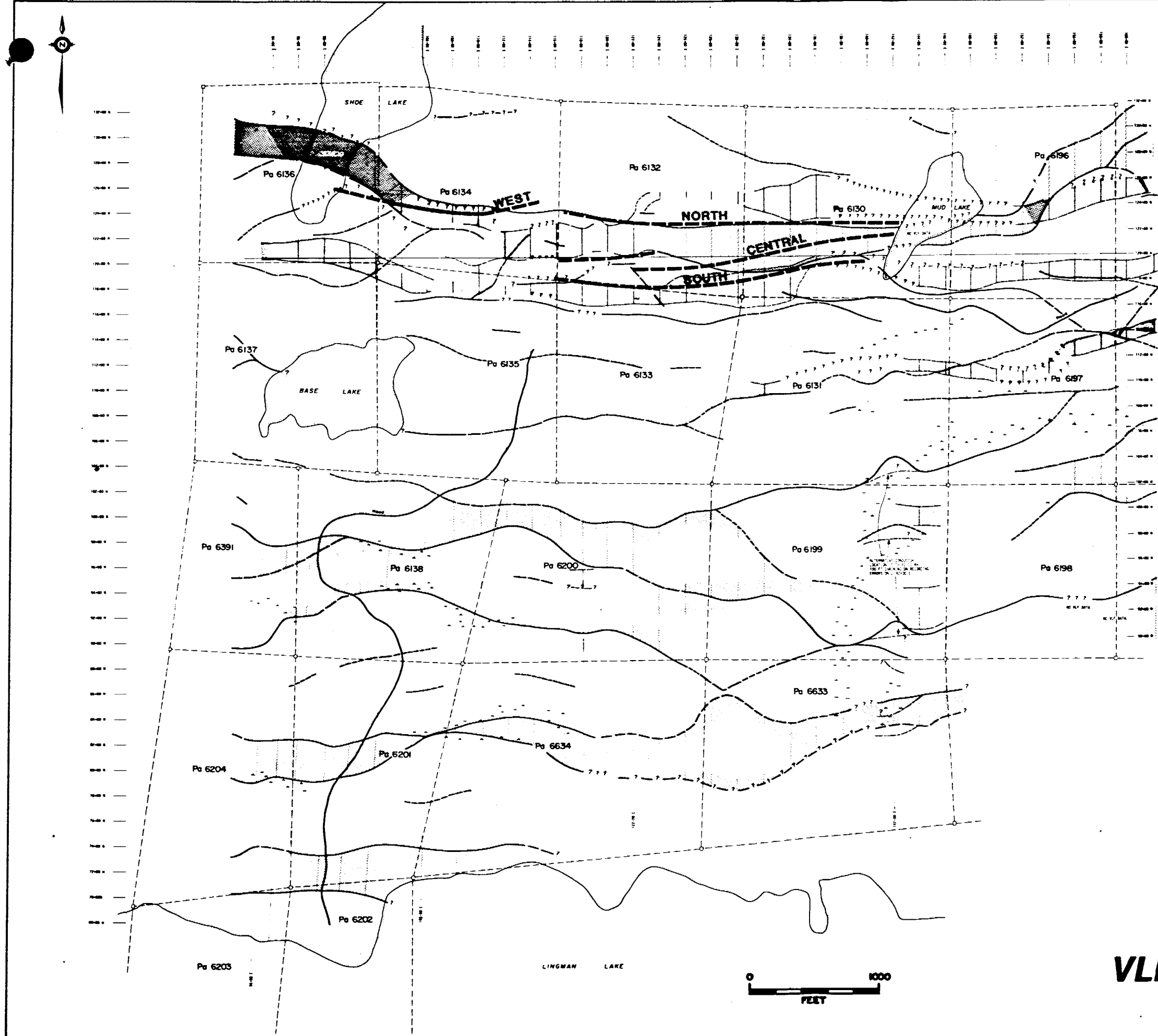
CONCLUSIONS: Results of work to date on the Lingman Lake property are exceedingly encouraging and indicate that an enlarged exploration programme in 1989 is warranted. The objective of the programme is two fold: - to confirm the resources calculated to date and, to enlarge the resource base.

Surface drilling and underground work on the Lingman Lake property have partly outlined 3 main mineralized gold-bearing zones. The zones are open along strike and at depth. The compilation of the data now indicates a steep westerly plunge to the better-grade sections within the zones. To date, the North Zone shows the best continuity (and greatest quantity of resources) and some of the wider mineralized sections on the property. Surface mapping and sampling and partial geophysical coverage indicate that this zone extends at least another 1,900 feet to the east and possibly into the neighbouring optioned Roman property.

The West Zone contains some excellent widths and grades and has had only limited drilling. It remains open at depth and along strike to the west.

Page 25 shows the V.L.F. electromagnetic survey coverage of the property. It shows the relationship of the E.M. conductors and the mineralized zones outlined by surface drilling and underground work. It also shows many conductors that could indicate additional mineralized zones. Only 20% of the property has had any detailed exploration.

Results to date indicate the potential for approximately 2,600 tons per vertical foot. As the strike extensions are increased to the east and west with the recommended surface diamond drilling in 1989, this potential will increase and permit a scale of mining to be contemplated.



LEGEND

- VLF Conductor Axis - Fraser values >10 units
- - - VLF Conductor Axis - Fraser values 0 to 10 units
- - - VLF Conductor Axis - Fraser value <0 but >neighbouring values
- [Stippled pattern] Evidence of conductive material beyond conductor axis
- [Dashed line] Well-defined boundary
- [Solid black area] IP Zone
- - - Poorly-defined boundary, probably transitional in nature.
- ? - ? - Very poorly-defined boundary, due to incomplete data or to resolution problems.

**TWIN GOLD MINES LTD.
Lingman Lake Project
VLF & IP INTERPRETATION**



RECOMMENDATIONS: In 1989, a three phase programme is recommended.

Phase I Exploration

- 1) Line-cutting North Boundary claims
- 2) Max.-Min. Electromagnetic Survey
- 3) Surface Drilling
 - a) Base Lake Showing - 1250 feet
 - b) West Zone - 3790 feet
 - c) North Zone - 18,965 feet
- 4) Metallurgy - bench scale

Phase II Definition drilling to 500 ft. level
Sections 100 ft.
North Zone - **20,000 feet**

Phase III Definition drilling to 500 ft. level
Sections 50 ft.
North Zone - **44,000 feet**

The Phase I surface programme on the North Zone will include definition drilling on 3 sections 50 ft. apart to increase the level of confidence in the 1988 interpretation. It will also include testing the western plunge of a number of shoots at the 500 to 600 ft. level. Also included in this programme is the testing of the North Zone to the east on sections 100 ft. apart to increase the potential resources.

If the results of Phase I are positive, Phases II and III will be required for the necessary control needed to plan an underground programme of drifting, raising and bulk sampling leading to a Feasibility Study.

Many of the holes planned to test the North Zone will also test the Central and South zones near surface.

BUDGET 1989:

Phase I

1. Line Cutting North Boundary Claims		\$ 10,500
2. Electromagnetic (Max.- Min. II) Survey		16,000
3. Surface Drilling		
a) Base Lake Showing	1,250 ft.	
b) West Zone	3,800 ft.	
c) North Zone	<u>19,000</u> ft.	
Total	24,050 ft.	<u>841,750</u>
		<u>868,250</u>

Phase II

Detailed Definition Drilling		
Sections at 100 feet	20,000 ft.	<u>700,000</u>


Phase III

Detailed Definition Drilling		
Sections at 50 feet	44,250 ft.	<u>1,548,750</u>

TOTAL 1989 **\$3,117,000**

\$3,200,000

Toronto, Ontario
March, 1989


D.S. McPhee
F.G.A.C., F.G.S.

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- Wilson, G. 1988 Mineralogy of Samples from the Lingman
Lake Area, Northwestern Ontario,
Turnstone Geological Services Ltd.

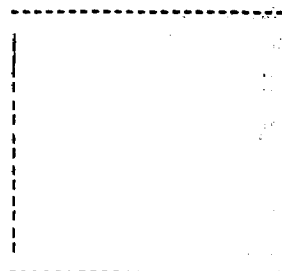
DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 088-1

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 11800.6E/ 11400 N
 Length: 977 ft.
 Core Size: BQ
 Claim No:
 Township:
 Started: June 1, 1988
 Logged by: A. Ali

Azimuth: 360 degrees
 Dip: -60 degrees @ 0', 57 @ 300', 48 @ 600
 45 @ 900
 Elevation: Surface, 9977.3
 Drill Company: Morrisette
 Completed: May 28, 1988
 Date Logged: June 1, 1988



Other Tests: 41 @ 000 - 300; 47 @ 005 - 600; 41 @ 007 - 970 (Sperry Sun)

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	9.0	Overburden				
9.0	93.7	Basalt. Medium green, thoroughly chloritized, massive, fine-grained, possibly 10% amphibole, 3% carbonate microveining, 2-10 mm at 40-80 degrees. Odd quartz vein, 1cm.	32.0	36.4	110001	<0.002
		32.0-36.4 - 2 to 5cm quartz vein along core axis. minor pyrite, traces of chalcopyrite.	85.5	87.9	110002	0.007
		72.4-73 - quartz vein at 20 deg. to core axis				
		77.7-78.1 - 40% quartz/tourmaline at 40 degrees				
		85.5 to 87.9 - 30% massive white quartz vein. 10% carbonate 10% epidote 3% pyrite, tr.chalcopyrite				
93.7	141.0	Basalt. Schistose, medium-grained, medium green. Foliated at 50 deg. to core axis. Sharp contact - first foot is contorted with 80% white quartz and epidote microveining. Thoroughly chloritized.	102	106.5	110003	<0.002
		102 - 106.5 - 3% disseminated pyrite, 20 % carbonate veins at 40 deg.	106.5	107.2	110004	<0.002
		106.5-107.2 Massive white quartz vein.	107.2	113.5	110005	0.004
		107.2-113.5 1% dissemin. pyrite, 10% carbonate microveins. Rock is slightly vuggy - 2% porosity.	127.2	130.2	110006	0.013
		127.2-130.2 5% disseminated pyrite, 20% carbonate veining				
		137.3-139.5 3 boudinaged qtz veins, 2cm at 40 deg				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
141.0	174.0	Mafic Tuff. Aphanitic, well chloritized. Occasional short section with vague tuffaceous size fragments. Lighter green, talcose. 163-166.5 80% closely packed, 3mm fragments well chloritized, foliated at 80 deg. Minor pyrite cubes towards lower contact.				
174	235.7	Ultramafic. Massive, fine-grained, well chloritized. Darker green. Minor disseminated pyrite, 5-10% random carbonate veining. Odd quartz 2-3cm vein.				
235.7	263.4	Metasediment. Alternating pale green and greyish green sections. minor pyrite (traces in places). Foliated at 60 deg. - extremely contorted locally (1 ft. section) 5% carbonate microveining at 45 degrees. 5% cherty lamination (Fault at 257.2 at 60 deg. - 2 cm of gouge.	262	263.4	110007	<0.002
263.4	338.0	Ultramafic. Massive, dark green, well chloritized. Occasional weak foliation at 45 deg. <1% carbonate microveining. Occasional minor pyrite. Weakly magnetic				
338	445	Basalt. Medium green, chloritized, foliated at 10 to 20 deg. to 362'. Foliation generally at 10 deg. 361.5-369.7 Minor disseminated pyrrhotite. Mildly epidotized. Traces of pyrite and pyrrhotite. 369.7-373.5 Carbonatized, epidotized, silicified zone with 15% pyrrhotite microveining - possible ore zone. Foliation at 50 deg. Mildly contorted. 10% carbonate, 5% epidote microveining. Pervasive silicification and chlorite.	361.5 367.0 369.7	367 369.7 373.5	110008 110009 110010	<0.002 <0.002 0.008
445	458	Metasediment. Possibly metasediment - Finely laminated at 35 deg. still well chloritized				
458	657	Basalt. Massive, Fine-grained. Darker green, about 5% carbonate microveining. Odd vein of quartz, 1-2 cm. Locally epidotized (microveining) Minor pyrrhotite microveining (whisps or threads) 484.5-486.6 Fracture along core axis. Minor gouge. 487.7-489.9 Pyrrhotite, 5% qtz blebs/splashes minor epidote. Foliation at 40 deg. slightly contorted 518-573 20% coarse-grained quartz splashes, minor py.	487.7 571.7	489.9 573	110011 110012	<0.002 0.007

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		573-574.5 Greenish white, epidotized (5-10%) quartz zone. Massive with 20-30% coarse, 3-5 mm, quartz grains. Splashes of milky white quartz and epidote microveining. Traces of pyrite.	573	574.5	110013	0.168
			574.5	576.4	110014	0.067
			576.4	577.8	110015	0.017
			577.8	580.2	110016	<0.002
		574.5-576.4 Similar to 571.7 to 573	584.4	586.5	110017	<0.002
		576.4-577.8 Foliated at 40 deg. Minor to trace of pyrite.				
		577.8-580.2 1% pyrite, traces pyrrhotite				
		584.4-586.5 5% quartz vein, 1cm, slightly contorted, 2% pyrite microveining				
		586.5-615.3 Darker green, occasional carbonate microvein with associated minor pyrite and pyrrhotite.	615.3	619	110018	<0.002
			621.5	622.8	110019	0.003
		615.3-619 Light green, epidotized, 2% pyrite, 10% contorted carbonate microveining.				
		621.5-622.8 1% pyrite, 3% carbonate microveins				
657	667	Quartz-Feldspar-Porphyry. Medium grey, coarse-grained massive, 2-5 mm., rounded feldspar phenocrysts, 60%. 10% quartz eyes. Very weak foliation at 35 deg.				
667	678	Basalt. Medium green, chloritized, 10% carbonate microveining.				
678	687.5	Quartz-Feldspar-Porphyry. Similar to 657-667. Upper contact at about 60 deg. Lower contact sharp at 40 deg.				
687.5	800	Basalt. Massive, darker green, chloritized, siliceous				
		687.4-691.5 10% carbonate microveining	729.5	732.5	110020	0.007
		691.5-729.5 2% carbonate microveining	733.3	734.6	110021	0.004
		729.5-732.5 40% carbonate microveins, anastomosing 2% disseminated pyrite	797.5	800	110022	0.021
		733.3-734.6 ditto				
		762-769 Light green, epidotized, 15-20% carbonate anastomosing microveins.				
		773.5-774.5 Milky white quartz-feldspar vein				
		783.5-784.8 Quartz/feldspar vein at 40 deg. and 5% similar veins to contact. Minor py at lower contact				
800	806.2	Phyolite Tuff. Contact along foliation at 55 deg. Fine foliation, slightly contorted. Light grey, sericitized. 10-20% quartz eyes (2-5mm). 2% quartz veins stretched along foliation locally. 2-4% disseminated pyrite	800	806.2	110023	0.079

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
806.2	857.3	Basalt. Massive, medium green, aphanitic. Epidotized, 10% veins, 2-5% quartz veins at 70 to 90 deg. Minor pyrite locally.	806.2	807.2	110024	0.013
			830	834.4	110025	0.010
			834.4	837.5	110026	0.020
		830-834.4 5% pyrite microveining	849.6	851	110027	0.310
		834.4-837.5 Quartz-rich brecciated zone. Upper contact at 60 deg. 2-5 mm fragments over first foot.	845.6	847.6	109108	Trace
		About 20% quartz veining - flooding.	847.6	849.6	109109	Trace
		849.6-851 Cherty zone with 10-15% pyrite	851	855.5	109110	Trace
857.3	869.7	Chert: Probable Ore Zone. 60% banded chert (2-5cm), brecciated, contorted. 15-20% carbonate microveining. 5-10% pyrite microveining. Banding at 35-60 deg. Lighter green matrix is talcose. Contacts at 35 and 45 deg. and gradational into basalt- no sharp line.	855.5	857.3	110028	0.010
			857.3	862	110029	0.355
			862	867	110030	0.050
			867	869.7	110031	0.031
869.7	977	Basalt. Lighter green, epidotized. Foliated at 60 deg. Minor carbonate stringers, 20% epidote. Minor pyrite locally. Few amygdules. Occasional closely packed lappilli-size fragments, possibly interstitial pillow material	894.6	899.8	110032	<0.002
		894.6-899.8 <0.5% pyrrhotite microveining. Traces of pyrite				
		903-977 Less than 1% quartz-feldspar veins 1-5", pinkish				
		921-922 Silicified, greyish white				
		936.4-936.7 Carbonatized, 15% biotite, minor pyrite.				
977		End of Hole. Casing left in hole.				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-2
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 118+00 E/ 116+00 N _____ Azimuth: 360 degrees _____
 Length: 977 ft. _____ Dip: -55 degrees @ 0', 53 @ 300', 48 @ 600
 Core Size: BQ _____ 48 @ 900 _____
 Claim No: _____ Elevation: Surface _____
 Township: _____ Drill Company: Morrisette
 Started: June 2, 1988 _____ Completed: June 6, 1988 _____
 Logged by: A. Ali _____ Date Logged: June 6, 1988 _____

Other Tests: 51 @ 003 - 300; 42 @ 009 - 600; 40 @ 008 - 977 _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	5.1	Casing				
5.1	83.2	Ultramafic. Massive, aphanitic, darker green. <0.5% carbonate microveining. Strongly magnetic.	53 74.2	55.8 75.1	110033 110034	0.020 0.016
		53-55.8 Foliated at 45 deg. slightly contorted. 5% carbonate microveining, epidotized, biotized. 2-5% pyrite microveins, 1% pyrrhotite, minor chalcopyrite and pyrrhotite in erratic carbonate microvein.				
		73.5-83.2 Medium grained, weakly foliated at 45 deg. Pervasive carbonatization (40%), mildly chloritized, amphibole rich.				
		74.2-75.1 Minor quartz carbonate microvein along core axis with a few specks of chalcopyrite and pyrrhotite and galena				
83.2	413	Basalt. Fine-grained, medium green, foliated at 40 deg, epidotized, carbonatized locally, <1% carbonate microveins.				
		87.2-91.7 Probable Ore Zone. Brownish grey-green. Foliation contorted, 20-40 deg. Foliation concentric. (nose of a fold) at 97.2.	84 87.2	87.2 91.7	110035 110036	<0.002 0.049
		Biotized/carbonatized/epidotized along foliation. Silica flooding as blebs and splashes, less than 5%. Mild brecciation at upper part of zone. 10% disseminated and wispy pyrite. Traces to minor pyrrhotite. Perfect correlation with 11,650 North Zone.				
		91.7-94.2 Similar to 84-87.2	91.7	94.2	110037	<0.002
		96.5-97.5 5% disseminated pyrite, minor pyrrhotite.	96.5	97.5	110038	<0.002

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
97.5-101.8		Massive, medium grained, pervasive carbonatization	136.9	139	110039	<0.002
			164.7	166.8	110040	<0.002
101.8-117.2		Aphanitic to fine grained, will chloritized very weak foliation locally at 60 deg.	181.5	183.5	110041	<0.002
117.2-126		Massive, medium grained, 10 % pervasive feldspar (1mm). Lower contact sharp at shear at 50 deg. Minor gouge.	183.5	184	110042	0.022
			184	186.8	110043	<0.002
126-147.5		Dark green, aphanitic, massive siliceous, 1% pyrite microveining. Short representative sample taken.				
147.5-161.5		Light green, massive, medium grained. Pervasively carbonatized and epidotized.				
161.5-164.7		Dark green, aphanitic, silicified. Minor threads of pyrite and pyrrhotic. <1% wispy carbonate threads				
164.7-166.8		Well foliated at 50 deg. 15% carbonate microveining over the first foot. Minor threads of pyrite. Traces of chalcopyrite.				
181.5-183.5		Biotized along foliation at 40 deg (5%) foliated, just slightly contorted.				
183.5-184		Greenish white quartz-feldspar-epidote vein at 50 deg. Minor pyrite over 1" in hanging wall and foot wall.				
184-186.8		Biotized (10%), silicified (5%), Foliation contorted to 20 deg. Minor pyrite.				
186.8-198		Weakly foliated at 50 deg. Chloritized, 10% carbonate microveining along foliation, occasional quartz microveining, 5mm, with minor pyrite on fringes.	226.4	227.1	110044	0.003
			227.1	229.2	110045	0.060
			229.2	230.3	110046	0.076
			230.3	232.1	110047	0.004
198-227.1		Occasional quartz vein, 1", every 5 ft.	243.3	244.6	110048	<0.002
227.1-230.3		Greyish white alteration zone. Minor disseminate pyrite over last foot in footwall.	244.6	246.0	110049	0.013
			250.7	252.8	110050	0.054
227.1-229.2		90 % quartz-carbonate, foliated at 45 deg.				
229.2-230.3		Brownish, greenish grey, foliated at 55 deg. 5% biotite along foliation, 20% carbonate, 5% disseminated pyrite.				
230.3-232.1		Weakly foliated at 60 deg. Last 6 inches is contorted. Foliation to 40 deg, silicified, 2% pyrite threads, 20% carbonate and 5% epidote veining.				
243.3-246		Silicified, epidotized, zone with <5% quartz-carbonate threads to microveins, 5mm. Foliation contorted 35-50 deg. Particularly over last 1-1/2 ft. with 10% pyrite.				
250-252.8		Silicified, epidotized over first 9" with 5% pyrite. Rest of zone is siliceous, mildly brecciated, foliation contorted, 50-35 deg. Epidotized with 5% carbonate stringers.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		257.5-260 Fine to medium grained, massive.	297.0	300.8	110051	0.011
		260-297 Aphanitic, medium green, foliated at 40 deg.	300.8	302.3	110052	0.09
		2% carbonate stringers, traces of pyrite. 20% quartz	302.3	303.6	110053	<0.002
		veins at 272-274 (Quartz sweats), slightly contorted.	308	310	109011	0.14
		Silicified.	310	312.2	109012	Trace
		297.0-302.3 Probable Ore Zone	312.2	314	110054	0.198
		297-300.8 Silicified, mild brecciation, 10%	314	317	109113	0.01
		disseminated euhedral pyrite, 2mm. Foliation	317	321.2	109114	Trace
		contorted mildly at 40 deg, 10 % carbonate	321.2	322.9	110055	0.003
		microveining	322.9	326.4	110056	0.195
		300.8-302.3 Pale greenish grey. Carbonatized,	326.4	326.9	110057	0.343
		silicified, epidotized with 5% disseminate pyrite.	326.9	329	109115	Trace
		Foliated, contorted at 40 deg. Upper contact possible	329	331	109116	Trace
		shear. Lower contact sharp at 35 deg.				
		312-314 Silicified, 20% quartz sweats, 5%				
		disseminated pyrite.				
		321.2-322.9 3% disseminated pyrite, foliated at 25				
		deg. Slightly contorted.				
		322.9-326.4 17 % disseminated euhedral pyrite. Cubes				
		are clustered into microveins, odd 1" vein. Weak				
		foliation at 25 to 30 deg.				
		326.4-326.9 Greenish white silicified, carbonatized				
		zone, foliated at 65 deg. Traces of sulphide.				
		326.9-413 Silicified, weakly foliated at 35 deg.				
		weakly magnetic, weakly brecciated locally (1-6"				
		sections) throughout. Breccia clasts (1-10 mm) in				
		quartz/carbonate matrix. Darker green. Minor pyrite				
		occasional.				
		371.0-375.8 Fractures along core axis blocky core				
		375.8 1" of gouge.				
413	434.5	Feldspar Porphyry. Upper contact at clean fracture at				
		50 deg. Lower contact sharp at 45 deg. Very weakly				
		foliated at 45 deg. Massive, medium grey, coarse				
		grained. Slightly sericitized. 40% rounded,				
		sericitized feldspar in slightly chloritized matrix.				
434.5	482.6	Basalt. Darker green, aphanitic, massive, silicified.				
		Very weak foliation locally. Occasional felsic vein				
		and disseminated/vein of pyrite 1-2%. Carbonate				
		threads along foliation at 30 deg.				
		462-474 Brecciated, chloritized, weakly foliated at				
		35 deg.				
		474-476 Porphyritic-20% K-spar				
		476-482.6 Chloritized, weak foliation at 30 deg.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
482.6	493.7	Quartz-feldspar-porphyry. Sharp contacts at 50 & 45°. 70% coarse-grained feldspar, 10% quartz. Massive, pinkish grey. 1 ft. inclusion of basalt				
493.7	579.8	Basalt. Massive, Fine-grained, medium green, 0.5 carbonate stringers. Slightly magnetic. 508.5-519 Felsic dykes(xenoliths), 2"-2', 30% 519-526.5 Massive, Fine-grained, very weak foliation 526.5-543.8 Aphanitic, mildly brecciated, 5% anastomosing carbonate threads. Minor traces of py 543.8-551.6 Massive, fine-grained 551.6- 579.8 Pillowed, Mildly brecciated anastomosing carbonate threads and stringers.				
579.8	585.8	Rhyolite Tuff: Probable Ore Zone 570.8- 581.4 Upper contact sharp at 30 deg. Brecciated with 5% pyrite, 5% pyrrhotite, slightly vuggy, some pyrite tarnished. 581.4-584 Light grey, well foliated at 45 deg. Sericitized with 1% quartz veins and 10% pyrite along foliation. Pyrite is uniformly distributed throughout. Silicified. 584- Fault 0.5" gouge at 60 deg (finely crushed rock) 584-585.8 Pale grey, talcose, chloritized. 30% carbonate at 70 deg, 5-10% disseminated pyrite.	576 578 579.8 581.4 584 585.8 588	578 579.8 581.4 584 585.8 588 590	109117 109118 110058 110059 110060 109119 109120	Trace Trace 0.78 0.25/0.35 0.16 Trace Trace
585.8	717.8	Basalt. Massive, fine-grained, medium green. Weak Foliation locally at 70 deg. Less than 0.5% carbonate stringers. Minor disseminated py and po. 598.8-599.3 Carbonatized (85%) with 5% disseminated pyrite. Local shear zone. 675.5-688.5 20% felsic dykes (2"-2') 689-692 Blocky core-fault zone. 1/4" gouge at 25° 695.4-697 Fractured quartz rich siliceous zone 700-702 -Ditto- 702.6-705 Felsic dyke 711.3-711.8 Sericitized, biotized, foliated at 45 deg. 10% pyrite. 715.3-716.4 Brownish grey- biotized, carbonatized. Foliated at 65 deg. 3% pyrite.	598.8 711.3 715.3	599.3 711.8 716.4	110061 110062 110063	0.042 0.049 0.028
717.8	872	Ultramafic Volcanic. Massive, medium-grained. Darker green, weakly foliated at 55 deg. 15% pervasive carbonatization, 5% biotization, chloritized.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		730.5-732.3 3" of ground core	730.5	732.3	110064	<0.002
		734.8-735.8 Contorted carbonate (20%), 5% pyrite, 5% pyrrhotite as stringers.	734.8	735.8	110065	0.035
			817.5	821.5	110066	0.013
		764.1-780.7 60% acid dykes, white massive, quartz rich	864.1	869	110067	<0.002
			869.0	872	110068	<0.002
		790.7-809 20% pink felsic dykes 1-2'				
		817.5-821.5 biotized zone, well foliated at 55 deg. short sections (30%) silicified, 20% carbonate stringers along foliation, 5% pyrite microveining over three short sections (0.5') at beginning, middle, end.				
		840.3-855.7 silicified, feldspathized (pinkish), brecciated.				
		863.9-864.1 Pinkish dark green feldspathized zone				
		864.1-872 Dark green, massive, chloritized. 1% carbonate, 2% pyrite throughout.				
872.	900.5	Probable Ore Zone. Possibly basalt. Whitish green, carbonatized, talcose, cherty banding, contorted foliation.				
		872-874.7 5% large pyrite cubes, 20% carbonate stringers contorted along foliation at 10-60 deg.	872	874.7	110069	0.004
			874.7	879	110070	<0.002
		874.7-879 similar. First foot well carbonated, 80%	879	884	110071	<0.002
		879-884 Extremely carbonatized, 60%, silicified 10%, chloritized 20%, 5% fuchsite, 1% pyrite.	884	885	110072	0.003
			885	887.4	110073	<0.002
		884-885 similar, 5% pyrite, 2" milky white chert.	887.4	892	110074	0.004
		885-887.4 90% milky white chert, 5% green mica(fuchsite)	892	897	110075	<0.002
			897	900.5	110076	0.024
		887.4-892 20% carbonate stringers, 10% pyrite, 5% green carbonate 5% silicification				
		892-897 Similar, last 2" only slightly carbonatized				
		897-900.5 similar				
900.5	928	Basalt. Fine grained, darker green, weakly foliated, well chloritized. Foliated at 50 deg., 1% disseminate pyrite.				
		900.5-901.4 10% silicified, 5% disseminated pyrite/pyrrhotite.	900.5	901.4	110077	0.018
			905.2	907	110078	<0.002
		905.2- 907 25% silicified 5% pyrite, traces of pyrrhotite	910	912	109121	tr
			912	914.5	109122	0.01
		907.3-907.9 Fault at 70 deg.-1/4" gouge, brecciated over this section	914.5	916	110079	0.237
			916	918	109123	tr
		908.5-909 Blocky core	918	920	109124	tr
		914.5-916 10% silicified, minor pyrite and pyrrhotite.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
928	958	Leucoxene Basalt. Massive, medium grained, darker green. About 60% pervasively disseminated leucoxene 1-2 mm and 20% amphibole. Equigranular.				
958	977	Feldspar Porphyry. "Leopard Rock" 1-10% (gradational) feldspar phenocrysts, 5-10 mm in basically same groundmass as previous unit. Massive. Occasional sericitized shears (1/2") at 20 to 30 deg.				
977		End of Hole				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 885-3
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 11800.1E/ 11900.9N Azimuth: 360 degrees
 Length: 472 ft. Dip: -45 degrees @ 0', 41 @ 436
 Core Size: BQ
 Claim No: Elevation: Surface, 9993.8
 Township: Drill Company: Morrisette
 Started: June 6, 1988 Completed: June 8, 1988
 Logged by: A. Ali Date logged: June 8, 1988

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	5	Casing, in bedrock				
5	96.8	Basalt. Massive, darker green, aphanitic. <1% carbonate stringers, <0.5% epidote stringers.				
		29.5-30.7 Lighter green, epidotized, carbonatized, 10%. Minor pyrite	110080	29.5	30.7	0.009
		73.20-74.1 Pink felsic dyke at 55 deg. (upper), 40 deg. (lower)				
96.8	105	Quartz-feldspar-Porphry. Sharp upper contact at 55 deg. Darker grey, massive, felsic groundmass. 10% of 2mm feldspar/quartz phenocrysts. weak banding locally at 50 deg. Lower contact not clear (Gradational over 1')				
105	340	Basalt Fine-grained, medium green, weakly foliated few carbonate stringers.				
		105-107 Silicified	105	107	109125	Trace
		107-109 Minor disseminated pyrite	107	112	110081	0.122
		109-112 Relatively fresh, chloritized.				
		112-137.5 Alteration Zone -Probable ore zone.	112	112.5	110082	0.037
		1120117.5 Greenish white, well foliated at 50 deg. (slightly contorted). 5% biotite, 10% cherty bands (1-2"), 2% pyrite, 20% carbonate.	112.5	116.5	110083	0.128
		116.5-120.1 Biotized(40%), 1-2% pyrite, 20% chlorite	116.5	120.1	110084	<0.002
		120.1-120.9 Relatively unaltered.	120.1	120.9	110085	<0.002
		120.9-123.2 10% biotite, <1% pyrite-relatively unaltered.	120.9	123.2	110086	<0.002
		123.2-124.8 Pervasively biotized, mildly brecciated, minor pyrite. Brownish-10% carbonate stringers extremely contorted	123.2	124.8	110087	0.005

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
124.8-128.8	128.8	Brownish grey, 20% biotite, 40% contorted	124.8	128.8	110088	0.029
	128.8	microveining, 5-10% pyrite microveins (threads)	128.8	129.6	110089	0.047
128.8	129.6	Massive, white chert	129.6	130.5	110090	0.207
129.6-130.5	130.5	70% cherty banding at 50 deg. Traces of	130.5	134.3	110091	0.032
	134.3	disseminated pyrite.	134.3	136.3	110092	0.044
130.5-134.3	136.3	40% biotite along foliation at 50 deg.	136.3	137.5	110093	0.425
	137.5	10% carbonate stringers, 10% pyrite microveining, 5%	137.5	138.9	110094	0.025
	154.2	green carbonate. Last foot is brecciated, contorted.	154.2	156.6	110095	0.019
134.3-136.3		Quartz-rich, brecciated. Fault at upper				
		contact at 55 deg. (1/2" gouge). Fracture along core				
		axis. 10% carbonate (anastomosing microveins)				
136.3-137.5		Brownish grey-60% biotite, 10% cherty				
		banding at 60 deg., 10% carbonate microveining, 3%				
		pyrite				
137.5-138.9		5% biotite, minor pyrite/pyrrhotite.				
154.2-156.6		Brownish lighter green. Contorted				
		foliation. Mild brecciation. Silicified,				
		feldspathized, minor biotization, 5% epidote				
		stringers, 5-10% pyrite stringers				
156.6-201		Medium green, silicified, weak local				
		foliation at 40 deg.				
201-231		15% felsic dykes (2"-1') at approximately 50				
		deg. Minor disseminated pyrite.				
231.2-233.5	231.2	Biotized over first foot. Rest is	231.2	233.5	110096	0.041
	257.8	silicified about 10% disseminated pyrite. Mildly	257.8	258.3	110097	0.030
	261	brecciated foliated at about 50 deg.	261	261.6	110098	0.063
241-290	267	Leucoxene basalt. Massive, fine-grained,	267	267.4	110099	0.026
	267.6	lighter green, 40% of 1mm disseminated feldspar.	267.6	268.7	110100	0.013
	270.1	Weakly foliated at 50 deg. 5% felsic dykes - splashes	270.1	270.4	110101	0.025
	275.4	(1"-2") and up to 4"	275.4	275.8	110102	<0.002
250-297.5	316.4	20% felsic dykes (3"-1')	316.4	320.3	110103	0.035
257.80-258.3		Felsic dyke with 5mm pyrrhotite				
		microvein				
261-261.6		silicified zone, foliated at 60 deg. 5%				
		disseminated pyrite				
267-267.4		Irregular splash of quartz, minor pyrite.				
267.6-268.7		Chloritized /biotized shear zoned, 2%				
		disseminated pyrite. Foliated at 50 deg. contorted				
		slightly				
270.1-270.4		Silicified 5% pyrite, 5% pyrrhotite.				
275.4-275.8		Irregular felsic dyke three 3 mm grains				
		of pyrite				
297.5-302.3		Felsic dyke				
316.4-320.3		Possible ore zone. Siliceous, mildly				
		brecciated, foliated at 55 deg. (weak) 5%				
		biotization, 5% epidotization				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
340	367.8	Rhyolite tuff. Finely foliated at 55 deg, light grey well sericitized, 10% quartz eyes. contact along foliation.				
		340-340.4 10% disseminated pyrite along foliation	340	340.4	110104	<0.002
		341.3 2" with 30% green carbonate, 60% quartz sweets	346.3	347.2	110105	0.045
		342.8-343.1 Fault chloritized gougey material, 65 degrees.	348.5	348.9	110106	0.095
		346.3-347.2 Silicified chloritized zone with 20% disseminated pyrite. Foliated at 70 deg.	357	360.5	109126	0.01
		348.5- 348.9 Similar, foliated at 50 deg.	360.5	364	110107	0.095
		360.5-367.8 Possible Ore Zone. Greenish grey	364	367.8	110108	0.181
		360.5-364 Foliated at 60, very mildly contorted 5-10% green carbonate, 10-15% pyrite along foliation, 15-20% quartz sweets 5% biotite.				
		364-367.8 Brownish green - 10% biotite, 30% chlorite, 10% pyrite along foliation.				
367.8	385.4	Basalt. Darker green, Massive, aphanitic, well chloritized.	367.8	370.6	110109	0.017
		367.8-370.6 Mildly brecciated, 5% disseminated pyrite short section over 0.7' is feldspar porphyritic.	370.6	372.4	110110	0.025
		370.6-372.4 Well chloritized, 10% biotite, No sulphides.	372.4	373.8	110111	0.004
		372.4-373.8 Alteration (shear) zone, greenish grey - 60% quartz/carbonate, 5% pyrite				
385.4	399	Feldspar Porphyry. 20-30% of 2mm feldspar phenocrysts in dark grey groundmass. Massive, no sulphides.				
399	451.5	Basalt. Medium green, weakly foliated at 70 deg.				
		399.2-405.7 Possible ore zone. Simply chloritized with 10% wispy pyrite throughout. 1% epidotization/carbonatization	399.2	401.9	110112	0.086
		405.7-407 Traces of pyrite.	401.9	405.7	110113	0.013
		407-409 2" of 40% disseminated pyrite.	405.7	407	110114	<0.002
		409-412.8 Only traces of pyrite.	407	409	110115	0.020
		412.8-413.8 10% disseminated veins of pyrite	409	412.8	110116	0.012
		422.50- 425.3 10% pervasive carbonatization, minor pyrite.	412.8	413.8	110117	0.007
		436.1-437.6 1% disseminated stringers of pyrite	422.5	425.3	110118	<0.002
		437.6-439.3 Talc/chlorite schist	436.1	437.6	110119	0.027
		447-450.8 Pale green, epidotized, silicified, feldspathized (blebs) - 2% disseminated pyrrhotite.	437.6	439.3	110120	0.247
			447	450.8	110121	0.131
			450.8	453	109127	Trace
			453	455	109128	Trace

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
451.5	472	Feldspar Porphyry. 30% of 2mm feldspar phenocrysts in medium grey, aphanitic groundmass. Massive. 468-472 Ground core - fault zone. 5mm gouge. Some pieces brecciated				
472		End of Hole				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-4

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 11882.7E/ 11763.3N
 Length: 773 ft.
 Core Size: BQ
 Claim No:
 Township:
 Started: June 8, 1988
 Logged by: A. Ali and R. Anderson

Azimuth: 360 degrees
 Dip: -51 degrees @ 0', 49 @ 300', 47 @ 766
 Elevation: Surface, 9990.4
 Drill Company: Morrisette
 Completed: June 12, 1988
 Date Logged: June 28, 1988

Other Tests: 43 @ 002 450; 41 @ 008 750

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	12	Casing				
12	181.2	Basalt. Aphanitic, medium green, chloritized, 20% epidotization, 3% carbonate stringers. Massive, weakly foliated locally at 55 deg. Traces of pyrite.				
		94.5-103 Silicified, minor pyrite 10% anastomosing carbonate threads.	93.5	95.5	110122	<0.002
		103-103.6 Gouge, Major fault	124	126	110123	0.007
		103.6-136.2 Similar to 94.5-103	126	128	110124	0.017
		136.2-160 Massive, equigranular, leucoxene basalt	128	130	110125	0.006
181.2	204.5	Quartz-feldspar-porphyry. Weakly foliated at 55 deg, 10% feldspar phenocrysts in medium-grey aphanitic groundmass.				
204.5	471	Basalt. Green, foliated at 60 deg., medium-grained, chloritic, <1% stringers of pyrite and pyrrhotite. non-calcareous and non-magnetic.				
		208.5-211; 226-278.5 Potassium altered granitic rock with 30% chloritized mafic minerals. Bluish quartz flooded zones and minor disseminated pyrite.	211.5	216	110126	<0.002
		Subhedral potassic feldspar. Related to a quartz-feldspar-porphyry?	244.5	247	110127	0.017
		244.5-252.5 Chloritic with 3% stringer pyrite. Well foliated at 42 deg,	247	251	110128	0.020
		292-293 Stringers of pyrite, 2%.	251	253	110129	0.006
		296-299 Quartz veining, grey with stringers of pyrite and chalcopyrite in calcite, up to 5%.	292	296.5	110130	<0.002
		307-324.5 Very chloritic, carbonate rich. Quartz vein at 322. Stringer pyrite in carbonate bands up to 5%	296	299	110131	0.098
			307	311.5	110132	<0.002
			311.5	312	110133	0.034
			312	314.5	110134	0.052
			314.5	318.5	110135	0.013
			318.5	324.5	110136	0.023

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		Outside of these zones, basalt is uniform and chloritic.	335.5	337.5	110137	<0.002
			344.5	346.5	110138	0.110
			358	361.5	110139	0.019
		346 Quartz carbonate veining with pyrrhotite	366	367	110140	0.022
		359 and pyrite, 5%. The basalt is	373.5	375	110141	0.004
		366.5 essentially barren outside these zones	388.5	390.5	110142	<0.002
		400.5	390.5	395	110143	0.029
		411-413	399	401	110144	<0.002
			411	413	110145	<0.002
		416-418; 436-441 Quartz-feldspar-porphry.	451	456	110146	<0.002
		436 Sugary, crushed carbonate vein.	456	461	110147	0.013
		448.5-451 Potassium altered quartz-feldspar-porphry	461	463	110148	<0.002
		with blue quartz augen and quartz flooding.	463	466	110149	<0.002
		451-465 Mixture of silica, quartz-feldspar-porphry,				
		biotite, chlorite, basalt and potassium alteration.				
471	478	Felsic feldspar porphry. Peach coloured with silica flooding and 1% disseminated pyrite.	474	478	110150	<0.002
		478 Chloritized, biotized and foliated at 26 deg.				
478	501	Chloritized basalt, green, medium grained. Slightly calcareous with zones of pink-grey silica	478	481	110151	<0.002
			481	483	110152	0.007
			483	488	110153	<0.002
		490 Possible quartz-feldspar-porphry veinlets.	488	491	110154	0.003
		500 Progressively more sheared, with stringers of pyrite 1-2%.	491	500	110155	0.004
			500	502	110156	0.010
501	505	Mineralized zone. Sheared basalt with chlorite talc, pyrite to 3/8" euhedral grains. 10% stringer pyrrhotite, pyrite and sphalerite.	502	506	110157	0.017
505	507	Sheared, chloritized Basalt				
507	511	Altered quartz-feldspar-porphry. Sheared, sericitic. Strong lineation. Foliated at 46 deg.				
511	513	Altered Basalt. Sheared and chloritic.	506	513	110158	<0.002
513	519	Mineralized Zone. Stringers of pyrite, up to 20% in altered basalt. Silicified, sericitic. Trace of arsenopyrite. Generally only 10 % sulphides.	513	516	110159	0.022
			516	519	110160	0.274

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
519	530.5	Altered basalt. Chloritized and foliated at 41 deg. Minor phenocrysts of K-spar.	519 526	520.5 531	110161 110162	0.011 <0.002
		526.5, 530 Zones of sheared quartz-feldspar-porphyry as at 490 with 2-3% stringers of pyrite and associated with biotization.				
530.5	536.5	Altered quartz-feldspar-porphyry. Grey to orange. Potassium alteration. Fractured. Silicified. Fractures and foliation generally at 46 deg.				
536.5	538	Altered basalt. Chloritized and sheared.				
538	559	Altered quartz-feldspar-porphyry. Potassium altered with silica flooding. Chloritic fractures. Trace of disseminated pyrite. Foliated at 30 degrees to core axis. Not very many phenocrysts, 5-10%.	548 550	550 552	110163 110164	0.145 0.021
559	573	Altered basalt. Chloritic with carbonate-filled irregular fractures, 10-15% With stringers of pyrite, 5%.	559 563 568	563 568 573	110165 110166 110167	<0.002 0.081 <0.002
573	622	Carbonatized Basalt. <u>Pale grey</u> . With 10-15% grey dolomitic fractures, angular. First 8' still have up to 15% stringers of pyrite and pyrrhotite, eg. @ 579. After that 8', the basalt is typically barren of sulphides. Slightly calcareous, non-magnetic.	573 578 578 602 605 605 607	578 580 605 607 610	110168 110169 110170 110171 110172	0.380 2.466 0.089 0.033 <0.002
		600-601 Silicified.	610	614	110503	<0.002
		601-622 Shearing with chlorite and calcite. The rock is soft and broken-up. Pyrite, pyrrhotite, 2-3%. May be a contact zone with an underlying flow unit.	614 618 618	618 622	110504 110505	0.043 <0.002
		605-610 Stringer and disseminated pyrite 5-10%.				
622.	662.5	Basalt-Diorite. Slightly magnetic, medium-grained, non-calcareous. Clean, dark, green-grey/ Minor zones of epidotization, chloritization, and leucoxene. All related to fractures or shearing. For example 660-662.5				
662.5	765	Feldspar Porphyry-"Leopard Rock". Dark green with pale spots up to 2" in diameter. Phenocrysts of orthoclase are rounded and compose roughly 10% of the rock. The groundmass is essentially the basalt-diorite of 622. Slightly magnetic. Phenocrysts are oriented at roughly 40 deg.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		675 The percentage of phenocrysts is up to 30%. 728 Phenocrysts up to 50%. 731, 736.5 Chloritic, sheared with cherty silica 765 Lower contact is sheared, chloritic and sericitic				
765	773	Sheared quartz-feldspar-porphyry. Blue quartz augen Disseminated fine pyrite 1-2%. 40% phenocrysts, half of which are blue quartz eyes. The matrix is non- calcareous, and is mostly fine-grained silica with minor pyrite. Non-magnetic.	766	773	110173	0.024
773		End of hole. Casing left in hole.				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-5
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 118+56.4E/114+12.2N
 Length: 1215 ft.
 Core Size: BQ
 Claim No:
 Township:
 Started: June 13, 1988
 Logged by: R. Anderson

Azimuth: 003 degrees
 Dip: -49 degrees @ 0', 42 @ 300', 40 @ 600
 38 @ 900'
 Elevation: Surface, 9977.5
 Drill Company: Morrisette
 Completed: June 17, 1988
 Date Logged: July 2, 1988

Other Tests: 37 @ 005 - 700'; 35 @ 010 - 1000'; 41 @ 004 - 300'

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	12	Casing				
12	30	Basalt. Dark green, uniform, fine irregular carbonate veins, 5%. Non-magnetic, non-calcareous, equigranular, medium-grained, foliated at 46 deg.				
30	70	Altered basalt. strong foliation, almost looks tuffaceous. Green-grey. Foliated at 62 deg. Contorted. Very carbonate rich, chloritic, talcose. Pyrite content 2-3% as disseminations in bands.	29.5	32	110174	<0.002
			32	36	110175	<0.002
			36	41	110176	<0.002
			41	46	110177	<0.002
			46	51	110178	<0.002
		44- 2' white quartz vein with 5% pyrite	51	56	110179	0.013
		66 1/8" disseminated arsenopyrite.	56	61	110180	<0.002
70	101.5	Ultramafic. Almost black with a green tinge. Talcose, extremely well foliated - breaks like a thin bedded mudstone. Foliation at 48 deg. Magnetic zones. Very fine-grained.	65	65	110181	<0.002
			65	69.5	110506	<0.002
		79.5 - 4' ground.				
		84 start seeing pale carbonate ovals up to 5% of the rock, 1/4". Appear to be amygdules. 1-2% disseminated pyrite at lower contact.				
101.5	115.5	Altered basalt as at 30' Slightly finer grained, non-calcareous, non-magnetic, 5% irregular fine carbonate veins.				
115.5	177.4	Ultramafic as at 70' Talcose and carbonate rich. Carbonate ovals the first 6'. Good foliation at 54 deg. Corresponds to "talc-carbonate schist"	174	177.4	110507	<0.002
		125-155 1/8" euhedral disseminated pyrite				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		131-133, 142-142.7 Zones of chloritic basalt. 147 Becomes paler with deformed fine 1/2" layers of carbonate at 44 deg.				
		The last 2' of this unit is very talcose, chloritic and contorted. Contact may be at 177.4				
177.4	504.2	Andesite-Basalt Flow. Hard, uniform. Dark green, fine to medium-grained and foliated at 58 deg. Irregular and conformable carbonate veinlets. Zones of chloritization. Trace of fine disseminated pyrite.				
		202.5 Pale, silicified zone around 1/2" quartz vein. Possible internal contact.	177.4	178.1	110508	0.006
		197 3% stringers of pyrite.	178.1	182	110509	<0.002
		205 Start to get sporadic leucoxene and chlorite alteration zones up to 2: thick with hard contacts.	195	199	110510	<0.002
		Unaltered dark sections are magnetic	199	202	110511	<0.002
		224-226.7; 240.5-242.8 Shear with silicification, chlorite and disseminated arsenopyrite grains up to 1/8", 1%. Stringers of pyrite up to 20%.	202	203	110512	<0.002
		229.7-230.1 Massive stringers of pyrite, 40%	203	206	110513	<0.002
			221	224	110514	<0.002
			224	226.7	110515	<0.002
			226.7	229.7	110516	<0.002
			229.7	230.1	110517	0.007
		The basalt around the shears generally has 2-3% stretched pyrite blebs.				
		250-253 Stringers of pyrite, chalcopyrite and pyrrhotite 5-10%.	230.1	234	110518	<0.002
		263.8-265; 283-289; 293-296.5 - Pyrite and pyrrhotite	234	238	110519	<0.002
		content is up to 5% as diffuse stringers and fracture fillings.	238	241.4	110520	<0.002
		313 Finer grained, better foliation at 66 deg. With zones of green-blue quartz-carbonate as 1/2" sheared veins.	241.4	242.8	110521	0.025
		325.3-326 Carbonate, chlorite, and biotite shear with a 2" white quartz vein. Stringers of chalcopyrite and pyrrhotite, 5-10%	242.8	246	110522	<0.002
		331.5- 334.5 3-4% disseminated euhedral arsenopyrite, stretched disseminated pyrite grains and higher chlorite and biotite content.	250	253	110182	<0.002
		339-349 Sheared and contorted with chlorite, biotite, carbonate and quartz. Stringer pyrite-pyrrhotite up to 5%	262.8	263.8	110599	<0.002
		358-370 As at 339 plus carbonate fracture fills with pyrite and 1/8" euhedral arsenopyrite 1-2%	263.8	265	110600	0.007
		372-387 Disseminated euhedral arsenopyrite 1% also stringers of pyrite up to 1% or as fracture fills.	265	269	110601	<0.002
			283	287	110602	<0.002
			287	289	110603	<0.002
			289	293	110604	<0.002
			293	296.5	110605	0.003
			296.5	299	110606	<0.002
			322	325.3	110607	<0.002
			325.3	326	110608	0.039
			326	330	110609	<0.002
			330	331.5	110610	<0.002
			331.5	334.5	110611	0.134
			334.5	336.5	110612	<0.002
			336.5	340	110613	<0.002
			340	345	110183	

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		384 Zones of grey silicification up to 1' thick with distorted chlorite alteration around the silicification.	345 357 361	350 361 366	110184 110185 110186	<0.002 <0.002 0.009
		389-394 Very chloritic. Distorted with bleb and stringer pyrite and pyrrhotite, 3%. Some of the sulphides are also in fractures. No arsenopyrite.	366 371 376 380	371 376 380 384	110187 110614 110615 110616	<0.002 <0.002 0.017 <0.002
		The basalt is very chloritic and foliated at 46 deg.	384 388	388 390	110617 110618	0.034 <0.002
		400 Zones of sheared chlorite and white carbonate, calcite and quartz with talc and biotite as well. The sulphide content is generally higher with stringers of pyrite and pyrrhotite up to 20%, eg. at 407	400 401.5 406 411	401.5 406 411 416	110188 110189 110190 110191	0.024 0.151 0.534 0.021
		406 1-2% disseminated euhedral arsenopyrite.	416	421	110192	0.007
		407-411 Brown, fine-bedded chert as 1" thick units. Disturbed by chlorite and carbonate, 20%. Pyrite occurs as bands of disseminations.	429 433.4 439	433.4 439 441.5	110619 110620 110621	<0.002 0.056 0.029
		416 Stringers of pyrite are oriented at 34 deg. whereas the foliation appears to be at 73 deg.	441.5 442.1	442.1 444	110622 110623	<0.002 <0.002
		410 The basalt becomes virtually barren with 5-10% irregular white carbonate veining and chloritization.				
		431.2-433.4 Shearing with quartz, carbonate and chlorite. 1% euhedral arsenopyrite and 2-3% stringers of pyrite and pyrrhotite.				
		441.5-442. As at 431 but no obvious arsenopyrite.				
		Basalt is fine-grained, uniform with less than 3% carbonate fractures. Foliated at 62 deg.	463 466	466 468.5	110193 110194	0.014 <0.002
		465-468 Stringer pyrite, 3% with 1% disseminated arsenopyrite.	468.5 473	473 476	110195 110624	0.003 0.052
		473-477 3-4" Zones of carbonate and stretched chlorite with stringers of pyrite.	476 484	480 486	110625 110196	<0.002 0.004
		481, 486.5-489, 490 Zones of silicification or sheared quartz-feldspar-porphyry. Grey, chloritic, hard, trace of disseminated pyrite.	501	504.2	110626	<0.002
504.2	523	Quartz-feldspar-porphyry. Medium-grained, quartz flooding, sericitic. Grey, hard with paler orthoclase phenocrysts.	504.2 508 510.5	508 510.5 513	110627 110197 110628	<0.002 <0.002 <0.002
		508-510.5 1% fine disseminated arsenopyrite.	521	523	110629	<0.002
523	578.7	Altered basalt. Similar to previous. First 2' is typical chloritized basalt, that at 525 start to get silicification with accompanying arsenopyrite. The arsenopyrite is euhedral and occurs of bands of disseminations up to 5-10%, usually 2%.	523 524.5 529 536 536	524.5 529 536 541	110630 110198 110199 110200	0.031 0.019 <0.002 <0.002

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		Arsenopyrite extends down to 538. Stringers of pyrite average 4-5%. Shearing is oriented at 45 deg.				
		541 - Back to typical chloritized basalt.				
		570 - Start to get irregular carbonate filled fractures, brecciated, calcareous. darker green				
578.7	588.7	Grey quartz-feldspar-porphyry as 504.2 but darker, more chloritic with angular carbonate filled fractures. Some quartz flooding.				
588.7	598.3	Altered basalt as at 523. With 10-20% carbonate-filled fractures. Medium-grained, chloritic. Oriented at 65 deg. Pyrite as disseminations but as a variable percentage. More brecciated downhole.	596	598.3	110631	0.060
598.3	606.2	Brecciated basalt flow. 20-30% sub angular fragments of chloritized basalt in a carbonatized, slightly calcareous, paler green matrix. Pyrite, 10% as stringers or with carbonate in fractures parallel to core axis.	598.3 602	602 606.2	110632 110633	0.050 <0.002
606.2	631	Chloritized basalt. First 10 feet are broken by fine, irregular carbonate, chlorite and talc-filled fractures with 2-3% pyrite. Below 612', the rock is green, fine-grained and uniform. Still have chloritic-pyritic fractures but not as many - 1% pyrite.	606.2 626 628.5	610 628.5 631	110634 110635 110636	0.051 <0.002 <0.002
631	640.5	Breccia-Fault Zone. Fractured, gouged. Talc and chlorite foliated at 5 deg. Disruption is centred about 631'	631 633 636	633 636 640.5	110637 110638 110639	<0.002 <0.002 <0.002
640.5	679	Chloritized basalt as 606.2				
679	745	Carbonatized Basalt. Grey with carbonate fractures in some places brecciating. No obvious sulphides	672 676 686	676 679 691	110640 110301 110302	<0.002 0.007 0.035
		674-679 Silicified, well-foliated at 58 deg.	691	696	110303	0.173
		Disseminated pyrite in bands, up to 10% but generally 3-5%. Possibly a sheared quartz-feldspar-porphyry	696 705.5 721	699 708 723	110304 110305 110306	0.452 0.340 <0.002
		689-698; 705.5-708 Silicification as at 674.	723	726	110307	0.789
		Foliated at 70 deg., Cherty.	726	730	110308	1.512
		723-735 As at 674 but with 10-20% stringer pyrite.	730	734	110309	0.051
		730-731.5 White quartz with disseminated pyrite 2-3%.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
745	841	Chloritized Basalt. As previous.	744	745	110310	0.017
			771	780.1	110641	<0.002
		774-776 Zone of fractured, silicified quartz- feldspar-porphyry	836	840	110642	<0.002
		777 Shear with epidote, silicification and stringer pyrrhotite, 2%.	840	841.1	110643	<0.002
		802.5-803.4 Zone of quartz-feldspar-porphyry as at 774				
		Below 805 the chloritized basalt shows zones of leucoxene alteration and conformable carbonate veins up to 1' thick. Generally a good foliation at 65 deg.				
		840-841.1 Biotite-chlorite alteration, shearing with a contorted quartz vein.				
841	856	Sheared quartz-feldspar-porphyry. Sericitized, strongly foliated at 70 deg. Quartz flooding, silicification. Trace of fine disseminated pyrite. Below 848 The unit has randomly oriented sericite- chlorite fractures.	841.1	844	110644	<0.002
			854	856	110311	<0.002
856	866	Chloritized Basalt- Mineralized zone. Intercalated with a sheared quartz-feldspar-porphyry or silicification zones. Mostly stringer pyrite but some in bands of dissemination, total 15-20%. The pyrite shows two directions of stretching, at 48 and 66 deg.	856	861	110312	0.033
			861	864	110313	0.053
866	873	Quartz-feldspar-porphyry as at 841.				
873	929.8	Altered basalt. Chloritized and well foliated as previous. Zones of quartz-feldspar-porphyry occur at 878.1-881.3, 887-887.5, 894-895, 897.2-897.5, 901.2- 901.7, 920.5-921, 925.6-927, 999				
		895 Becomes coarser grained, more chloritic, foliated at 50 deg.				
		Lower contact has sheared biotite, chlorite and carbonate.				
929.8	965.5	Altered quartz-feldspar-porphyry. Potassic alteration, pink-orange. Chloritic fractures are less than 5%. 10% black specks of chlorite and amphibole. Siliceous with feldspars difficult to see at times.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		936-937 Zone of chloritized basalt with pyrite- calcite fractures and 3" of disseminated pyrite and fine arsenopyrite totalling 5-10%.	945.3 949.7 951.5	949.7 951.5 953.3	110645 110646 110647	<0.002 <0.002 <0.002
		945.3-949.7; 951.5-953.3 Zones of chloritized basalt, medium-grained with up to 5% disseminated pyrite, trace of needles of arsenopyrite	953.3 963 936 963	956 966 937 966	110648 110649 110314 110315	<0.002 <0.002 0.004 <0.002
965.5	1003	Alternating zones of altered basalt and quartz- feldspar-porphry. The basalt is usually chloritized, foliated and contorted.	966	971	110650	<0.002
1003	1018	Altered basalt. Very chloritized, carbonatized and sheared at 66 degrees with pyrite as stringers and fine disseminations up to 5%. Near the lower margin the basalt is brecciated with rounded chunks of chloritized basalt in a fined-grained carbonate, chlorite matrix. Gougey.	1002 1006 1010 1013	1006 1010 1013 1018	110316 110317 110318 110651	<0.002 0.039 <0.002 <0.002
1018	1071.5	Basalt-Gabbro. Medium-grained. The upper 10 feet is slightly magnetic. Uniform with minor zones of chlorite, epidote alteration associated with fracturing and shearing. 1029 - Gougey carbonate fractures				
1071.5	1096	Feldspar Porphyry. Essentially the previous unit (Basalt) with rounded orthoclase phenocrysts up to 1/2". "Leopard Rock". Non-magnetic.				
1096	1123.5	Andesite Flow. Fine-grained, chloritic, sheared. Foliated at 340 deg. Generally fine disseminated pyrite is 1% of the core. 1114 Trace of arsenopyrite. 1122.5-1123.5 White quartz vein. 1-3". 1% stringer pyrite.	1096 1101 1106 1111 1116 1119.5 1121	1101 1106 1111 1116 1119.5 1121 1123.5	110319 110320 110321 110322 110323 110324 110325	<0.002 <0.002 <0.002 0.104 0.017 0.694 0.125
1123.5	1138.8	Feldspar Porphyry. Identical to 1071.5				
1138.8	1162.6	Quartz Porphyry. No feldspar phenocrysts. With 20% rounded quartz phenocrysts and 5-10%, 1/4" hornblende grains (almost look like shards) Foliated at 60 deg. Trace of disseminated pyrite.	1138 1143	1143 1148	110326 110327	<0.002 <0.002

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
1162.6	11215	Feldspar Porphyry. Similar to 1071.5 but with only 10-15% dispersed phenocrysts of orthoclase. Non- magnetic. non-calcareous. Slightly chloritic. Disseminated pyrite, 2%	1162.5	1166	110328	<0.002
			1176	1181	110329	<0.002
			1202	1204	110330	<0.002
		1203 Sheared stringers of pyrite 2-3%				
1215		End of Hole. Casing left in hole				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-6
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 11998.8E/ 11547.1N
 Length: 956 ft.
 Core Size: BQ
 Claim No:
 Township:
 Started: June 18, 1988
 Logged by: W. Rowell

Azimuth: 360 degrees
 Dip: -45 degrees @ 0', 40 @ 300', 38 @ 600
 36 @ 950'
 Elevation: Surface, 9982.4
 Drill Company: Morrisette
 Completed: June 22, 1988
 Date Logged: July 4, 1988

Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
20.3	131.0	Basalt Flow - Dark green, medium to finegrained, where medium grained 40% chloritized mafics and 55% saussuritized plagioclase, < 1% quartz-carbonate in thin randomly oriented fractures, locally sheared at 40 - 55 deg., slight schistosity of mafics 50 - 55 deg. <1% pyrite and trace arsenopyrite	23.7	26.1	110701	<0.002
			26.1	28.2	110702	<0.002
		41.2-42.6 quartz-chlorite schist with 0.5% pyrite along shear planes	40.8	42.9	110703	<0.002
		42.6-53.0 slightly schistose with 1% pyrite	42.9	46.0	110704	<0.002
			46.0	49.0	110705	<0.002
		63.1-63.9 1% arsenopyrite in medium to coarse grained patches and rare needles, 0.5% pyrite + chalcopyrite mineralization along fractures at 52 deg.	49.0	52.0	110706	<0.002
			52.0	56.0	110331	<0.002
		63.9-65.2 trace very fine grained arsenopyrite	56.0	61.0	110332	<0.002
			61.0	63.1	110707	<0.002
		76.9-77.8 25% quartz vein subparallel to core axis	63.1	66.1	110708	<0.002
			76.0	81.0	110333	<0.002
		102.8-111.5 highly chloritized with schistosity 44 deg.	102.0	106.0	110334	<0.002
			106.0	111.0	110335	<0.002
			111.3	116.0	110709	0.023
		111.5-112.1 silicified with trace arsenopyrite	116.0	121.0	110336	<0.002
		112.1-112.8 quartz-chlorite schist, slightly magnetic	121.0	126.0	110337	<0.002
		112.8-112.9 3% pyrrhotite + pyrite	126.0	128.0	110338	0.023
		116.4-116.8 quartz vein	128	131.0	110339	0.028
		114.0-126.8 slightly magnetic due to up to 1% pyrrhotite				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
131.0	144.0	Andesite Flow - Greenish-grey, fine grained, massive, harder and more siliceous than basaltic unit, <1% carbonate in a few thin shears at 46 deg., 1% biotite, <1% pyrite	142.0	144.0	110340	<0.002
144.0	147.1	Basalt Flow - Pervasively carbonitized with 1% pyrite + pyrrhotite, slightly magnetic				
147.1	148.6	Quartz-Feldspar-Porphyry - Greyish-white, medium grained plagioclase in fine grained matrix, localized quartz flooding, slight sericitization of feldspars, 1 - 2% pyrite + pyrrhotite + arsenopyrite needles, upper contact 66 deg.	144.0	146.0	110341	0.027
			146.0	149.5	110342	0.268
148.6	165.0	Andesite Flow - same as 131.0 - 144.0 but with feldspars oriented at 72 deg.	149.5	152.0	110710	<0.002
		148.6-149.0 silicified and chloritized with 2 % carbonate, 2% fine grained pyrite	152.0	156.0	110711	<0.002
		156.5-160.5 increased schistosity at 42 deg., 1% pyrite + arsenopyrite needles	156.0	158.0	110343	0.035
		160.6-165.0 pervasive silicification, 5 - 10% pyrrhotite + pyrite in coarse grained patches	158.0	160.5	110344	0.025
			160.5	165.0	110345	0.104
165.0	218.6	Basalt Flow - Dark green, fine grained, massive, quartz in randomly oriented veins, <1% biotite, < 1% pyrite + pyrrhotite + chalcopyrite, lower contact at 47 deg.	165.5	167.5	110346	0.022
			167.5	173.0	110347	<0.002
			173.0	176.0	110348	<0.002
			176.0	178.5	110349	<0.002
		190.8 - 192.5 10 % quartz-carbonate with 1% pyrite	191.0	192.6	110350	0.035
		209.8 - 211.0 15% quartz-carbonate veins with 1% pyrite	210.5	211.5	110351	0.014
218.6	227.3	Andesite Flow - Greyish-green, fine grained, massive, <1% quartz-carbonate, trace pyrite, lower contact 45 deg.				
227.3	230.5	Basalt Flow - Same as 165.0 - 218.6, lower contact 48 deg. 230.0 - 230.5 10% biotite oriented at 50 deg.				
230.5	238.4	Andesite Flow - Same as 218.6 - 227.3 234.0 - 234.8 slight schistosity at 42 deg. defined by quartz-carbonate and chlorite				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
238.4	256.4	Basalt Flow - Same as 165.0 - 218.6, lower contact 42 deg. 250.6 - 253.0 quartz-carbonate-biotite-chlorite schist, foliated at 41 deg., 1% pyrrhotite + pyrite in coarse grained patches	234.0	236.0	110352	0.066
			239.5	241.0	110353	0.017
			243.0	246.0	110354	<0.002
			245.0	248.0	110355	<0.002
			248.0	250.5	110712	<0.002
			250.5	253.5	110713	0.029
256.4	278.4	Andesite Flow - Greyish green, fine grained, 40% mafics, 50% feldspar (slightly porphyritic), 1% carbonate in veins < 5 mm wide, trace chalcopryrite along a few fractures, lower contact at 45 deg.				
278.4	325.3	Basalt Flow - Dark green, fine grained, 3% quartz-carbonate in shears at 45 - 50 deg., 1% biotite, <1% pyrite, trace arsenopyrite, lower contact at 55 deg. 287.8 - 288.0 andesite same as 256.4 - 278.4 293.8 - 294.2 80% quartz in vein at 63 deg. 297.6 - 298.0 5% pyrite along fractures and in medium grained patches, 2% arsenopyrite in medium grained cubes 312.7 - 313.0 10% pyrite	279.0	282.0	110356	0.029
			282.0	284.0	110357	0.022
			291.7	294.2	110714	<0.002
			295.4	297.4	110715	<0.002
			297.4	299.0	110716	0.037
			299.0	300.9	110717	<0.002
			311.6	313.6	110718	<0.002
325.3	327.9	Feldspar Porphyry Dike - Grey, locally porphyritic with medium grained feldspar in fine grained matrix, localized quartz flooding and sericitization, a few shears at 40 deg.				
327.9	338.4	Basalt Flow - Same as 278.4 - 325.3 334.0 - 334.3 bleached with 3% fine grained pyrite 336.5 - 337.2 2% pyrite + pyrrhotite + chalcopryrite	333.0	335.0	110719	0.035
			336.0	338.0	110720	<0.002
338.4	339.0	Quartz-Feldspar-Porphyry - Grey, fine to medium grained, 30% plagioclase and 30% quartz phenocrysts, 40% mafics, trace pyrite, lower contact at 48 deg.				
339.0	341.8	Basalt Flow - Same as 278.4 - 325.3				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
341.8	346.1	Quartz-Feldspar-Porphyry - Grey, fine to medium grained, 40 % plagioclase and 30% quartz phenocrysts in a mafic matrix, 1% epidote, <1% quartz filled veins <3mm in width, <1% pyrite, trace arsenopyrite	342.0	346.0	110721	0.038
		342.5 - 342.7 basalt				
		342.7 - 343.7 quartz vein with 2% pyrrhotite				
346.1	366.0	Basalt Flow - Same as 278.4 - 325.3	346.0	350.0	110722	<0.002
		349.0 - 349.3 Quartz-Feldspar-Porphyry	350.0	354.0	110723	<0.002
		354.5 - 355.2 Quartz-Feldspar Porphyry	354.0	357.0	110724	<0.002
366.0	383.1	Quartz-Feldspar-Porphyry - Greyish-white, 50% quartz and 30% feldspar phenocrysts, 20% mafic matrix, feldspars slightly sericitized, increasing strain toward lower contact, a few thin quartz veins at 49 deg.	367.6	370.8	110725	<0.002
		367.6 - 370.8 quartz vein with 5% epidote				
		370.8 - 376.8 increasingly siliceous with quartz along shears				
		376.8 - 383.1 pink potassic alteration of feldspars begins and strain increases				
383.1	392.4	Mylonitized Quartz-Feldspar-Porphyry - Greyish-green, fine grained, sheared at 38 deg.	382.4	384.4	110726	<0.002
		383.1 - 387.4 intense potassic alteration, a few relicts of unmylonitized Q.F.P.	384.4	387.5	110727	<0.002
		387.4 - 392.4 limited potassic alteration, mostly quartz-sericite schist, 2 - 3% very fine grained pyrite, trace arsenopyrite	387.5	390.5	110728	0.045
			390.5	392.4	110729	0.022
392.4	393.8	Feldspar Porphyry - Whitish-grey, 80% medium grained feldspars in chloritic matrix, unmineralized				
393.8	395.4	Altered Quartz-Feldspar-Porphyry - Pinkish-grey, porphyritic to fine grained, highly strained with quartz flooding, 5% potassic alteration, brecciated at lower contact, 10 cm of fault gouge at lower contact				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
395.4	407.2	Basalt Flow - Dark green, fine grained, pervasively chloritized, locally silicified, 1% quartz-carbonate veins <2 cm wide				
		395.4 - 395.8 silicified				
		395.8 - 399.5 broken and missing core				
407.2	411.5	Quartz-Feldspar-Porphyry - Pinkish-white and black, 40% feldspar and 20% quartz phenocrysts in mafic matrix, feldspars have undergone pink potassic alteration and sericitization, localized quartz flooding, lower contact at 64 deg.	410.0	411.5	110730	<0.002
411.5	416.4	Basalt Flow - Same as 395.4 - 407.2	411.5	416.0	110358	0.082
		412.7 - 414.7 pervasive carbonitization, sericitized feldspars, 5% fine grained disseminated pyrite				
416.4	434.6	Feldspar Porphyry - Grey, 20 - 50% fine to medium grained feldspar in aphanitic groundmass, localized quartz flooding, no sulfides	416.0	418.0	110731	<0.002
434.6	500.9	Basalt Flow - Dark green, fine grained, highly fractured with localized brecciation, silicification and carbonitization along fractures, trace pyrite				
		453.6 - 454.1 brecciated with quartz-carbonate matrix				
		478.5 - 479.1 40% quartz-feldspar-porphyry vein				
		486.6 - 487.0 quartz flooded quartz-feldspar porphyry vein				
		498.2 - 499.9 80% quartz vein with 10% quartz-feldspar-porphyry				
500.9	522.2	Quartz-Feldspar-Porphyry - Greenish-grey, 30% plagioclase and 40% quartz medium grained phenocrysts, feldspars have undergone localized potassic alteration and sericitization, fine grained sericitized section foliated 51 deg., localized quartz flooding	510.4	514.4	110732	<0.002
			514.4	518.0	110733	<0.002
			518.0	522.4	110734	<0.002
		514.0 - 515.2 quartz-sericite schist, 1% pyrite				
		517.5 - 518.5 quartz-sericite schist				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz)
522.2	533.6	Basalt Flow - Greyish-green, fine grained, 2% carbonate alteration, localized silicification, 0.5% arsenopyrite locally concentrated, 1% pyrite	522.0	524.5	110359	0.006
			524.5	526.0	110360	0.173
		524.9 - 529.0 pervasive silicification with 3% fine grained disseminated pyrite and 1% very fine grained arsenopyrite needles	526.0	529.0	110361	0.261
			529.0	531.0	110362	0.007
533.6	550.0	Quartz-Feldspar-Porphyry - Same as 500.9 - 522.2	542.0	546.0	110363	0.013
		536.0 - 536.9 quartz-sericite schist	546.0	549.0	110364	0.027
		542.1 - 550.0 quartz-sericite schist	549.0	551.0	110365	0.302
550.0	649.3	Basalt Flow - Greyish-green, fine grained, pervasively silicified to 556.0, 1% carbonate in randomly oriented fractures	551.0	553.0	110366	0.129
			553.0	556.0	110367	0.194
		550.3 - 556.8 2% pyrite, trace arsenopyrite	556.0	557.0	110368	0.017
		555.3 - 555.9 pervasively carbonitized with 2% arsenopyrite in fine grained cubes and needles	557.0	558.9	110735	<0.002
			586.0	588.0	110369	0.037
		575.5 - 577.2 brecciated with quartz matrix				
		585.9 - 588.2 slightly silicified, 1% pyrrhotite + pyrite	606.0	610.0	110370	0.007
			610.0	612.0	110736	<0.002
		606.8 - 609.7 10 - 15% carbonate in randomly oriented fractures, 1% pyrite, 0.5% arsenopyrite, 0.5% pyrrhotite				
		616.2 - 616.5 quartz-feldspar-porphyry vein				
		616.9 - 618.8 quartz-feldspar-porphyry				
		619.4 - 619.9 quartz-feldspar-porphyry				
			622.0	625.0	110737	<0.002
		620.5 - 620.8 quartz-feldspar porphyry				
			643.0	645.0	110738	0.015
		621.6 - 622.0 quartz-feldspar-porphyry				
		624.0 - massive pyrrhotite along fractures				
		632.4 - 634.3 quartz-feldspar-porphyry, contact 32 deg.				
		643.6 - 644.3 brecciated quartz clasts up to 3 cm in width, hematitic staining, 0.5% pyrite				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
649.3	662.8	Quartz-Feldspar-Porphyry - Similar to 616.9 - 618.8 but sericitization and quartz flooded throughout 656.0 - 657.8 silicified mafic volcanic 661.8 - 662.4 slight potassic alteration				
662.8	669.5	Quartz-Sericite Schist - Greenish-grey, fine grained, 55% slightly rounded quartz, 40% sericite, schistosity at 56 deg.				
669.5	671.5	Basalt Flow - Similar to 550.0 - 616.9, slightly silicified and carbonitized, 1% disseminated pyrite	669.5	671.5	110371	0.023
671.5	676.2	Quartz-Sericite Schist - Same as 662.8 - 669.5 671.5 - 672.6 silicified 673.6 - 674.5 5% disseminated fine grained pyrite	673.0	676.0	110739	0.164
676.2	712.7	Basalt Flow Intercalated with Quartz-Feldspar - Porphyry - Greenish-brown, fine to medium grained basalt intercalated with thin pinkish-white quartz- feldspar-porphyry dikes				
712.7	733.2	Potassic Quartz-Feldspar-Porphyry - Pinkish-grey, medium to fine grained , quartz flooded and pervasive pink potassic alteration, 5% chlorite 717.3 - 721.1 more mafic with 5% hornblende and 5% biotite, schistosity 42 deg.				
733.2	748.6	Basalt Flow - Similar to 676.2 - 684.5 but more chloritized and 3% epidote 741.1 - 748.6 intercalated with thin quartz-feldspar- porphyry units accompanied by silicification and potassic alteration	741.0 746.0	746.0 749.0	110372 110373	<0.002 0.006
748.6	754.0	Potassic Quartz-Feldspar-Porphyry - Same as 717.3 - 733.2 751.7 - 753.2 quartz flooded with 15% amphibole and biotite and rounded quartz clasts up to 1 cm wide				
754.0	799.4	Basalt Flow Intercalated With Thin Quartz-Feldspar- Porphyry Dikes - dark green, massive basalt intercalated with thin dikes of quartz-feldspar- porphyry similar to 717.3 - 733.2				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
799.4	836.4	Basalt Flow - Dark Green, aphanitic to medium grained,	801.0	803.0	110374	0.007
		50% saussuritized plagioclase, 2% quartz-carbonate in				
		stringers < 5 mm wide, slight schistosity at 58 deg.,	803.0	806.0	110375	0.164
		0.5 % fine grained pyrite, lower contact 44 deg.				
			806.0	809.0	110376	0.014
		801.0 - 809.8 pervasively carbonitized with 1% pyrite				
			809.0	811.0	110741	<0.002
		820.3 - 821.5 increased schistosity and				
		carbonitization, slight brecciation	820.3	822.8	110742	0.655
		821.5 - 822.4 95% quartz-carbonate, trace pyrite				
836.4	956.0	Mafic Feldspar Porphyry (Leopard Rock) - Green with	837.0	839.5	110377	0.013
		white spots, 35% medium to coarse grained slightly				
		rounded feldspar phenocrysts up to 5 cm in length in				
		a fine grained feldspar and chlorite matrix, 2%				
		epidote				
		890.4 - 890.6 shearing at 80 deg.				
			843.0	844.5	110378	0.012
		922.4 - 925.3 more siliceous and non-porphyrific				0.024
		941.4 - 944.0 feldspars more sericitized				
956.0		End of Hole				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-7
Page : 1

Property Owner: Twin Gold Mines Ltd. _____
 Grid location: 11972.8E/ 11709.1N _____
 Length: 384 ft. _____
 Core Size: BQ _____
 Claim No: _____
 Township: _____
 Started: June 23, 1988 _____
 Logged by: R. Anderson _____

Azimuth: 360 degrees _____
 Dip: -45 degrees @ 0', Estimate 40 deg.
 at bottom of hole _____
 Elevation: Surface, 9990.2 _____
 Drill Company: Morrisette _____
 Completed: June 24, 1988 _____
 Date Logged: June 24, 1988 _____



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	4	Casing				
4	13	Basalt Flow - Fine to medium grained, dark green and well-foliated at 51 deg. Non-calcareous and non-magnetic. With up to 15% irregular white calcareous veins up to 1/2" thick. Half the veins wander the other half are conformable.	4	5	110379	<0.002
		4-5' Calcareous fractures with 5% pyrite.				
13	16.5	Mafic Tuff. Fine to medium-grained. Chloritic, non-magnetic, non-calcareous, uniform. Foliated at 45 deg. Fine, thin pyritic seams - 1-2%.	13	16.5	110380	0.055
		14.5' Disseminated arsenopyrite, 1/16-1/8", 1%.				
16.5	46	Mafic Tuff. Dark green etc., similar to previous but starts out with what appears to be basaltic oval masses up to 1 or 2". Medium grained mafic tuff below 52 feet. Foliated at 46 degrees. Fine disseminated pyrite up to 1%. Non-calcareous and non-magnetic. 5% irregular and conformable calcareous veins.	40	42	110381	0.022
		40 - start to get more chlorite and increase in pyrite, 2-3%.	42	46	110382	0.020
		43 - 6" of euhedral arsenopyrite, 3%.				
46	50	Tectonic Zone. Chlorite, biotite, quartz and calcite. Distorted but generally well foliated at 45 deg. More biotitic and with stringer pyrite 10% near lower contact. Pyrite stringers are oriented at 37 degrees to core axis.	46	50	110383	0.055
			50	51	110384	0.212
			51	55.5	110385	0.007

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag No.	Gold (oz/t)
50	51	White-blue quartz-carbonate vein. Cataclastic texture with rounded quartz grains up to 1/2", fractured. Non-calcareous. No apparent sulphides.				
51	55.5	Mafic tuff similar to 16.5. Chlorite and biotite alteration near upper contact. Well foliated at 56 deg.				
55.5	58	May be a mylonitic quartz vein or a very fractured quartz-feldspar-porphry. Grey silica with white-pale oval shapes up to 1/4". With fine disseminated interstitial pyrite, 1-2%.	55.5	58	110386	<0.002
58	80.5	Mafic tuff. Similar to 16.5 but more massive, uniform. Irregular calcite veins with maximum 2% disseminated pyrite.	58	62	110387	<0.002
			77	80.5	110388	0.006
						0.002
		62.5 - Fine stringers of chalcopyrite				
80.5	83.5	Fractured Quartz-feldspar-porphry similar to unit at 55.5. Altered feldspar pseudomorphs are apparent at lower contact. Trace of fine disseminated pyrite. Non-calcareous. Non-magnetic.	80.5	83.5	110389	<0.002
83.5	103	Mafic tuff similar to 58-80.5. Finer grained. Fewer irregular calcareous veins, maximum 5%. Foliated at 50 deg. Pyrite is finely disseminated, up to 2%.	83.5	87	110390	<0.002
103	117	Quartz-feldspar-porphry. Grey, medium-grained with white feldspar phenocrysts up to 1/4". Foliated at degrees.	103	107	110391	<0.002
			46	107	110392	<0.002
			109	111	110393	<0.002
			111	113	110394	<0.002
		110 - Well-foliated sugary green zone with pyrrhotite, 5%, disseminated.	113	117	110395	0.049
117	134	Mafic tuff similar to 58-85. Finer-grained, non calcareous, non-magnetic. Foliated at 45 deg. With less than 5% irregular calcite veins.	124	128	110396	<0.002
			128	129	110397	<0.002
			129	133	110398	<0.002
		128-129 Silicified, well-foliated zone with pyrite, arsenopyrite and minor pyrrhotite. Black, Very fine-grained.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
134	152	Andesite. Dark grey-green, uniform, fine-grained, slightly calcareous, minor calcareous veins near upper contact.	148	152	110399	0.006
152	174	Quartz-feldspar-porphyry similar to previous. Coarser-grained with interstitial blue?(boron?) quartz. Foliated at 57 degrees. With minor 1/2" fine feldspar zones parallel to foliation. Trace of pyrite. Mafic minerals have altered to chlorite.	152	156	110400	<0.002
174	206	Mafic tuff. Brecciated with angular calcareous fractures 10-15%. Euhedral pyrite to 1/8" associated with calcite infilling.	170 174 178	174 178 182	110401 110402 110403	<0.002 <0.002 <0.002
206	226	Quartz-feldspar-porphyry. No pyrite, non-calcareous. Medium-grained. Foliated at 60 deg.	182 186	186 190	110404 110405	<0.002 <0.002
226	256	Mafic tuff similar to 174 to 206 but with fewer calcareous fractures, max 5%. Fine disseminate pyrite, 1-2%	237	241	110406	<0.002
		239 - Pyrrhotite, calcite, pyrite vein, 1/2"				
256	260	Quartz-feldspar-porphyry similar to previous but with a trace of arsenopyrite?	256	260	110407	<0.002
260	283.5	Andesite. Fine-grained, green, uniform, chloritic. Slightly calcareous and non-magnetic. Becomes very fine-grained near lower contact.	260 279.5 281.5	263.5 281.5 283.5	110408 110409 110410	<0.002 <0.002 <0.002
		291.5 shearing with 4" white calcite and 5% stringer pyrite				
283.5	351	Silicified Intermediate Tuff. Appears at first to be a felsic tuff but becomes less siliceous down hole. A confusing aspect is a calcareous matrix. Grey, fine to medium-grained. Also fine angular calcareous fractures. Non-magnetic. The first 2 feet is sheared carbonate with sugary disseminated pyrite, pyrrhotite and arsenopyrite. Total maximum sulphides is 5%. The first 5' are very siliceous. Fine-grained with what appears to be 1-3" band of quartz-feldspar-porphyry material.	283.5 285	285 289	110411 110412	0.014 <0.002

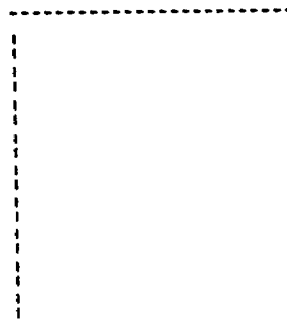
From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		Fairly uniform below the upper silicified zone. Green, siliceous, fine disseminated pyrite <1% Foliated at 58 degrees. Minor shearing zones are oriented parallel to the foliation.				
		302-303 Stringer bands of pyrrhotite and or pyrite maximum 5%.	301 310	305 313	110413 110414	0.010 0.003
		311-313 Minor Quartz-Feldspar- Porphyry zone.	313	314	110415	<0.002
		313-314 Intensely sheared, buff green. Fine-grained with sugary, disseminated pyrrhotite and arsenopyrite	314 318	318 320	110416 110417	<0.002 <0.002
		314 Below this point the sulphide content is generally higher. Up to 5%.	320 324	324 326	110418 110419	<0.002 <0.002
		318-320 Shearing as at 313-314	326	330	110420	0.006
		324-326 Darker green shear with stringers of pyrrhotite and pyrite, 5% overall.	343.5 346.5	346.5 347.5	110421 110422	0.009 0.154
		344 Disseminated grains of arsenopyrite upto 1/8" around this point.	347.5	350.5	110423	<0.002
		346.5-347.5 Talcose shear with chlorite, calcite and minor pyrite.				
351	359.4	Basalt. Medium-grained, uniform, black with sheared salvage-like upper and lower contacts. Little sulphides. Slightly calcareous. Non-magnetic. Lower contact has brecciation and up to 10% stringer pyrite.	357.4	359.4	110424	<0.002
359.4	384	Intermediate tuff. Similar to tuff at 283.5 but without the silicification. Has pale green sheared carbonate zones 1-2" thick. This unit may also be a very sheared intermediate flow.				
		374.1-375.4, 378.3-379.2, 380.5-381.5: Shearing with white calcite filling and stringers of pyrite up to 10%.	359.4 359.9 370 374.1 375.4 378.3 379.2 380.5 381.5	359.9 361.9 374.1 375.4 378.3 379.2 380.5 381.5	110425 110426 110427 110428 110429 110430 110431 110432 110433	<0.002 <0.002 <0.002 lost <0.002 <0.002 <0.002 0.007 <0.002
384		BOH Hole entered station on the 275 level. Hole was abandoned and the casing was left in the hole.				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 885-8
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 11972.7E/ 11931.9N
 Length: 546 ft.
 Core Size: BQ
 Claim No:
 Township:
 Started: June 24, 1988
 Logged by: R. Anderson

Azimuth: 360 degrees
 Dip: -45 degrees @ 0', 40 @ 300', 41 @ 400
 36 @ 546
 Elevation: Surface, 9999.5
 Drill Company: Morrisette
 Completed: June 26, 1988
 Date Logged: June 26, 1988



Other Tests:

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	52.5	Basalt. Medium-grained, green, chloritized, Uniform, non-calcareous, non-magnetic, no apparent sulphides, Less than 5% irregular carbonate veins. Foliated at 64 deg. Finer grained downhole. Disseminated pyrite at the lower contact.	48	52.2	110434	<0.002
52.2	64.2	Silicified Tuff. Grey, siliceous, variable percentage of pyrite as stringers. Fine irregular carbonate fractures 5-10%. Strong shearing.				
	56-61.5	Chlorite-biotite alteration with 3% stringers of pyrite.	52.2	56	110435	0.007
			56	58	110436	0.020
	61.5-64.2	Brecciated with calcite matrix, 30-40%, 10% blebs and stringers of pyrite.	58	61.5	110437	<0.002
			61.5	64.2	110438	0.012
64.2	92.5	Intermediate tuff or strongly foliated flow. Dark green with stretched pale grains in a chloritic matrix. Not as hard as the previous unit. Non-calcareous, well-foliated but contorted.	64.2	68	110439	<0.002
			68	72	110440	<0.002
			72	76	110441	<0.002
			76	80	110442	<0.002
	64.2-68	Banded chlorite, biotite and silica alteration zone. Foliated at up to 12 deg. to core axis.	85	88.7	110443	<0.002
			88.7	92.5	110444	<0.002
	80	More uniform below this point. Still have minor zones of chlorite-biotite alteration. Foliated at 44 deg.				
	88.7-92.5	Sheared carbonate, quartz, chlorite, biotite, pyrite and pyrrhotite. Sulphides up to 20%. Paler medium-grained, sheared at 48 deg.				
92.5	223.7	Foliated andesite flow. Fine-grained, dark green-grey, uniform. Non-calcareous, non-magnetic. Chloritic. Minor zones of shearing with stringers of pyrite and pyrrhotite, 1%. Coarser-grained downhole.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
117.5-119,	127-128,	135-136 Thin zones of slightly	112	117.5	110445	0.019
		potassium altered quartz-feldspar porphyry.	117.5	119	110446	<0.002
		Distinctive with fine-grained silica and disseminated	119	123	110447	0.007
		sugary pyrite at the margins	123	127	110448	<0.002
		122 Carbonate-chlorite shear with disseminated	127	128	110449	0.013
		arsenopyrite, 1%.	128	132	110450	<0.002
		Generally slightly calcareous.	138	141.5	110451	<0.002
		141.5-142.3 Quartz carbonate, stringers of pyrite, 5%	141.5	142.3	110452	0.032
		Shearing. Local bleaching as above this zone with 3%	142.3	146	110453	<0.002
		disseminated pyrite.	146	150	110454	<0.002
			150	154	110455	<0.002
		149-150, 152-153, 154-156.2, 158-162, 163.4-163.6	154	158	110456	<0.002
		Fine-grained silica veining. Thicker zones show	164	168	110458	<0.002
		1/4 inch feldspar phenocrysts. Foliated at 48				
		degrees. Criss-crossed by chloritic fractures.				
		Contacts have variable orientations but tend to be				
		sheared, chloritic and pyritic.				
		The andesite in this zone has 2% disseminated pyrite.	168	170	110459	<0.002
			170	174.2	110460	<0.002
		168, 174.2-178 Shears with chlorite, carbonate	174.2	176	110461	<0.002
		biotite and up to 3% pyrite as stringers and	176	178	110462	<0.002
		disseminations	178	182	110463	<0.002
		188.7-190.5 Sheared quartz-feldspar porphyry and	182	184.7	110464	<0.002
		quartz flooding. Sharp contact at 190.5	184.7	188.7	110465	<0.002
		190.5-194 Sheared carbonate, biotite, chlorite and 5%	188.7	190.5	110466	<0.002
		pyrite as stringers and disseminations	190.5	194	110467	0.010
		194-195.6 Fractured quartz-feldspar porphyry, grey,	194	195.6	110468	<0.002
		broken-up by chloritic fractures.	195.6	199	110469	<0.002
		195.6-203.4 chloritized andesite foliated at 57 deg.	199	203.4	110470	<0.002
		203.4-206 Mineralized zone as at 190.5 but with less	203.4	206	110471	0.088
		biotite and chlorite but more silica and 10% pyrite	206	210	110472	<0.002
		as stringers. Sheared at 47 degrees.	210	220.5	110473	<0.002
			220.5	221.5	110474	<0.002
		210.8-212.2, 221.1-221.5 Zones of quartz-feldspar-	221.5	223.7	110475	<0.002
		porphyry with sharp contacts parallel to the				
		foliation				
		221 shearing with heavy biotite and chlorite				
		alteration up-hole. 4" of stringer pyrite, 10% at				
		221' Very silicified from here to lower contact and				
		contains occasional 1/2" blue quartz augen.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
223.7	245.7	Quartz-Feldspar-Porphyry. White with chloritized mafic minerals. Well-foliated at 55 deg. Non-calcareous and non-magnetic. Zones of silicified andesite at 232-234.4, 236.4-238. Not unlike bottom of previous unit.	238	241.9	110476	<0.002
			241.9	242.3	110477	<0.002
			242.3	245.7	110478	0.026
		241.9, 242.3 sheared chlorite, calcite, disseminated euhedral pyrite, 3%, 1/8" diameter.				
245.7	276	Foliated basalt. <u>Medium-grained</u> . Foliated at 45-72 degrees. Chloritic, non-calcareous, non-magnetic.				
		251 Pyrite, pyrrhotite content up to 1% as fine stringers. Stronger foliation and more chlorite	251	254.7	110479	0.007 - 0.033
		254.7-256 Strong shearing with pyrite, pyrrhotite silica. Pyrite as masses up to 1". Foliated at 48 deg. Trace of disseminated grains of arsenopyrite.	254.7	256	110480	<0.002
		256-259.5 strongly contorted with calcite. Sulphide content up to 1%.	256	259.5	110481	<0.002
		259.5-260.2 As at 256 but with trace of disseminated arsenopyrite.	259.5	260.2	110482	<0.002
		260.2-261.5 Strong shearing at 42 deg. with stringers and disseminations of pyrite up to 5% of core.	260.2	261.5	110483	0.040
		261.5-263 Silicified. grey with stringers of pyrite, 2%. Foliated at 56 deg.	261.5	263	110484	0.079
		263-267 Fractured grey quartz-feldspar-porphyry.	263	267	110485	<0.002
		271-272 Shear with silica, carbonate and 3% stringers of pyrite.	268	271	110486	0.030
		272-276. Fractured grey quartz-feldspar-porphyry.	271	272	110487	<0.002
			272	276	110488	<0.002
276	325	Alternating zones of chloritized basalt? and quartz-feldspar-porphyry. Neither rock type is ever more than 5 feet thick. Sulfides tend to be in the basalt, approximately 1% disseminated pyrite.	287	290.3	110489	<0.002
			290.3	291.9	110490	0.107
			291.9	296	110491	<0.002
			321	325	110492	<0.002
		290.3-291.9. Strongly sheared with carbonate, biotite, chlorite and stringers of pyrite and pyrrhotite averaging 5% of the core.				
		This unit bottoms with 5' of quartz-feldspar-porphyry				
325	337	Altered andesite, foliated, chloritized, irregular calcite veins approximately 15% of core. First 10' is brecciated by the calcite veining.				
		325-330 Mineralized. 325-327 Fractured quartz-feldspar-porphyry and andesite with 3% stringers of pyrite. 327-330 minor arsenopyrite and no quartz-feldspar-porphyry.	325	327	110493	<0.002
			327	330	110494	<0.002
			330	334	110495	<0.002

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
337	382.5	Carbonatized andesite. Calcareous with up to 10% irregular calcareous brecciating veins and fine chloritic fractures. Paler green than the altered andesite above				
382.5	394	Fractured, grey quartz-feldspar-porphyry with carbonate infilling. Phenocrysts make up 40% of the rock. Virtually a breccia due to the carbonate veining.				
394	420.7	Grey carbonatized tuff. Medium-grained. Well-foliated at 75 to 65 degrees to the core axis. More chlorite and carbonate filled fractures downhole.	408 412 413.5 416	412 413.5 416 420	110496 110497 110498 110499	<0.002 0.003 <0.002 <0.002
		399-406 Intersected underground workings 412-413.5 Blebby pyrite in heavily chloritized fracture zone. 10-15% pyrite. Below 413.5, 2-3% disseminated pyrite.				
420.7	426.5	Grey quartz-feldspar-porphyry. Uniform. Similar to previous but not as fractured. Slightly foliated at 54°.				
426.5	496	Basalt to andesite flow. Sharp upper contact. Medium-grained, uniform, unaltered except for some chlorite. Magnetic . Slight foliation at 50 deg. Zones of slight epidization. Minor disseminated euhedral pyrite. Minor phenocrysts of white orthoclase. Do not enter true leopard rock until 496				
496	546	Pophyritic andesite. "Leopard Rock" Up to 40% K-spar phenocrysts up to 1" in diameter. Sub- to anhedral and oriented parallel to foliation. The phenocrysts are corroded by the andesitic matrix and appear disrupted by fine chloritic fractures. Non-magnetic.	528 532	532 536	110501 110502	<0.002 <0.002
		528-532 Shearing, chloritic, contorted, silicified, epidotization. . Pyrite grains up to 1/8"				
546		End of hole				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-9
Page : 1

Property Owner: Twin Gold Mines Ltd. _____
 Grid location: 11972.7E/ 11931.5N _____ Azimuth: 358 degrees _____
 Length: 596 ft. _____ Dip: -58 degrees @ 0', 55 @ 300', 50 @ 596
 Core Size: BQ _____
 Claim No: _____ Elevation: Surface, 9999.5 _____
 Township: _____ Drill Company: Morrisette _____
 Started: June 26, 1988 _____ Completed: June 28, 1988 _____
 Logged by: Rob Anderson _____ Date Logged: June 29, 1988 _____

Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	72	Altered Basalt, chloritic basalt, medium grained, uniform, dark green, foliated at 45 deg. Irregular white carbonate veins up to 1/2", 1-2%. No apparent pyrite. Fairly uniform.				
		18-23.5 Brecciated by carbonate veining, chloritized. 18	21	21	110523	<0.002
		Sharp lower contact. This may be a flow-bottom breccia, no obvious sulphides.	21	23.5	110524	<0.002
			51	54	110525	<0.002
		37 - Start to get 1-2% disseminated pyrite, fine-grained	54	56.7	110526	<0.002
			56.7	61	110527	<0.002
		54-56.7 40% Stretched carbonate veining, brecciating the basalt. Foliated at 43 deg. Stringers of pyrite	67	71	110528	<0.002
		5%. This veining and brecciation carries on to 61 feet but less pervasive with pyrite approximately 1%.	71	72	110529	<0.002
		67 - Foliated at 69 deg.				
		71-72 White quartz vein with 5% stringers of pyrite, pyrrhotite and minor chalcopyrite at the vein's margins.				
72	109	Silicified Basalt. May be tuffaceous. 2% stretched pyrite grains. Some thin layers of biotization. Fine-grained, grey to buff green. Well foliated at 21 deg.	72	76	110530	<0.002
			76	80	110531	<0.002
			80	84	110532	0.016
			84	88	110533	<0.002
		87 3" brecciating calcite band with pyrite proportional to the calcite content or disruption of rock. Foliated at 23 deg.	88	92	110534	<0.002
			92	96	110535	<0.002
			96	100	110536	<0.002
		95 Start getting some pyrrhotite	100	104	110537	<0.002
		109 Flow contact?	104	109	110538	<0.002

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
109	188	Altered basalt. Unsilicified but banded chlorite and biotite is at times pervasive. non-calcareous and non-magnetic. Foliation distorted but generally at 20 to 30 deg. Stretched grains of pyrite and pyrrhotite up to 1%.				
		121.5-125.2; 133-136.5 Irregular fractures. Some with pyrrhotite fracture filling, 3-4%	118	121.5	110539	<0.002
		127 Silica, carbonate, chlorite, fractured, disrupted. Looks like a distorted pillow salvage. The basalt still has bands of heavy chlorite alteration. The foliation is distorted but generally at 20 to 30 deg.	121.5	125.2	110540	<0.002
		147-161.5 Zone of heavy chlorite-carbonate alteration. Buff green, distorted, brecciated some epidote. Stringers of pyrite and pyrrhotite, 3%	125.2	129	110541	<0.002
		162 Settles down. Uniform, undisrupted, dark green. non-calcareous, non-magnetic.	131	133	110542	<0.002
		180-181 Thin silicified band oriented at 40 deg.	133	136.5	110543	<0.002
		184-186 Quartz-carbonate veining, 10-15% of rock with 5% stringer pyrite.	133	140	110544	<0.002
			145	147	110545	<0.002
			147	150	110546	<0.002
			150	152	110547	<0.002
			152	156	110548	<0.002
			156	160	110549	<0.002
			160	161.5	110550	<0.002
			161.5	166	110551	<0.002
			179	183	110552	<0.002
			183	185.5	110553	<0.002
188	249	Altered basalt and quartz-feldspar-porphyry. Strongly foliated zones of chloritic basalt and quartz-feldspar-porphyry. Sulphides tend to be in the basalt and on the down-hole sides of the quartz-feldspar-porphyry. The sulphides are associated with carbonate veining, biotite and silicification. Foliated at 36 deg. Stringers of pyrite 3% and pyrrhotite, 2%. The quartz-feldspar-porphyry is potassic altered at 189, 198, 219, 226. Below 226, the quartz-feldspar-porphyry looks granitic with a greater percentage of chloritized mafic minerals -20%.	188.5	189.3	110554	0.003
			189.3	193	110555	<0.002
			194	197.8	110556	<0.002
			197.8	198.5	110557	0.039
			198.5	202	110558	<0.002
			215	218.8	110559	<0.002
			218.8	219.7	110560	0.020
			219.7	224	110561	<0.002
			224	225.5	110562	<0.002
			225.5	226	110563	<0.002
			226	230	110564	<0.002
249	269.5	Chloritized basalt. Dark green, well-foliated at 46 deg. Medium-grained, slightly calcareous, trace of disseminated pyrite. Approximately 5% irregular white carbonate veining.				
		254.30-256.5, 257.5-260 Brecciation by carbonate veins 20-25%, with 5-10% disseminated and stringer pyrite Possibly silicified.	250	254.3	110565	<0.002
			254.3	256.5	110566	0.039
			256.5	257.5	110567	0.013
			257.5	260	110568	0.007
			260	264	110569	<0.002

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
269.5	285	Silicified quartz-feldspar-porphry. Quartz flooding. Grey to buff tan. Only see the feldspar phenocrysts in a few places. Chloritized mafic mineral. No sulphides. Lower contact oriented at 30 deg. and in-folded with altered basalt.	281	285	110570	<0.002
285	351	Altered basalt. Chloritized similar to previous but with a zone of silicification at 290. Disseminated grains of pyrite, 1-2%	285 286 296 298.5 302.5 316	286 290 298.5 302.5 306 318.8	110571 110572 110573 110574 110575 110576	<0.002 <0.002 0.004 <0.002 <0.002 <0.002
		285-286; 298.5-302.5 Brecciated by up to 60% carbonate veining. Stretched and distorted chlorite and biotite. 5% euhedral and blebby pyrite.				
		306; 317.5-318.8; 326.5-328 Minor quartz-feldspar-porphry zone, silicified. Foliated at 45 deg.. No sulphides?				
		339-340 Irregular pink quartz-feldspar-porphry zone. Possible boudin.				
351	364.7	Quartz-feldspar-porphry. As at 269.5	362	364.7	110577	<0.002
		356-360 Zone of chloritized basalt.				
364.7	367.8	Altered basalt. 40% calcite veining. 5-10% stringer pyrite. The rest is chlorite with some biotite and quartz. Medium-grained. Foliated at 42 deg.	364.7	367.8	110578	<0.002
367.8	382.6	Chloritized basalt with minor zones of silicified quartz-feldspar-porphry up to 4".	367.8	371	110579	0.004
382.6	391	Quartz-feldspar-porphry. Quartz flooding. At 386.5 - get darker chloritic fractures. Slightly calcareous. Euhedral 1/4 grains of pyrite increase to 5-10%. Lower contact is very broken-up.	382.6 386.5	386.5 391	110580 110581	0.021 <0.002
391	467	Carbonatized Andesite? Grey with 5-10% irregular carbonate veins angular brecciating veinlets. Also dark green chloritic fractures. Uniform. Carbonate appears to be a pinkish dolomite. Trace of disseminated pyrite. Slightly calcareous.	391 394 397 448 451.8	394 397 401 451.8 455	110582 110583 110584 110585 110586	<0.002 <0.002 <0.002 <0.002 0.206
		391-397 Up to 80% calcite with euhedral pyrite grains, disseminated, to 1/4", 5%. Strong foliation at 47 deg. With chlorite biotite.	455 459 463.2	459 463.2 463.8	110587 110588 110589	<0.002 <0.002 0.008
		447.5 - Degree of brecciation increases. Stronger foliation at 57 deg.	463.8 464.4	464.4 467	110590 110591	<0.002 0.011
		463.5; 464.5-467 As at 447.5 but with 10-20% stringer pyrite also chloritic.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
467	521	Basalt. Magnetic. Non-calcareous. Dark grey. Mafic minerals are slightly chloritic. Uniform. Foliated at 60 deg. Trace of disseminated pyrite.	467	471	110592	<0.002
		490-505 Fine pyritic fractures. Total pyrite 3%.	488.6	493.6	110593	<0.002
		513 Becomes non-magnetic.	514.4	516	110594	<0.002
521.5	564	Grey quartz-feldspar-porphyry. Uniform, pale with 1/4" subhedral feldspar phenocrysts. Only slightly foliated at 34 or 50 deg. Trace of fine disseminated pyrite up to 1%. Stronger foliation at 550	559.5	561.5	110595	0.004
		561-564 Contact zone. Contorted basalt and quartz-feldspar-porphyry with silica flooding and carbonate veining.	561.5	564	110596	<0.002
564	596	Feldspar Porphyry. "Leopard Rock" 30-40% orthoclase phenocrysts up to 1" long in a medium-grained basaltic matrix. No obvious sulphides.	564	566	110597	<0.002
		570-572 Grey fine-grained silica vein, no sulphides.	570	572	110598	<0.002
596		End of Hole				

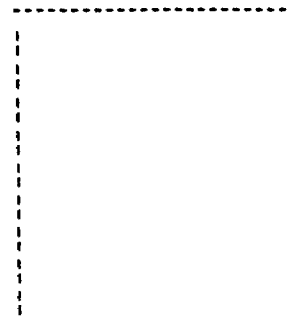
DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 885-10

Page : 1

Property Owner: Twin Gold Mines Ltd. _____
 Grid location: 12200.1W/ 11812.0N _____
 Length: 646 ft. _____
 Core Size: BQ _____
 Claim No: _____
 Township: _____
 Started: June 29, 1988 _____
 Logged by: R. Anderson _____

Azimuth: 360 degrees _____
 Dip: -55 degrees @ 0', 50 @ 300', 46 @ 646 _____
 Elevation: Surface, 9991.5 _____
 Drill Company: Morrisette _____
 Completed: July 1, 1988 _____
 Date Logged: July 3, 1988 _____



Hole location in claim

Other Tests: _____

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	10	Casing				
10	110	Grey quartz-feldspar-porphyry. Strongly foliated at 40 degrees. Virtually a mylonite at 10-12, 20.5-26.5, 37-47. These zones are sericitic and fine-grained and have blue, 1/4", quartz augen. Feldspar phenocrysts do not survive the shearing. Fairly uniform grey with zones of varying amounts of shearing generally only a trace of fine disseminated pyrite	36	40	110652	0.035
			40	43	110653	0.078
			37	47	110654	0.030
			47	51	110655	0.024
			51	55	110656	<0.02
			106	110	110657	<0.02
		40-47 Trace of disseminated arsenopyrite				
		49-51 Mylonite.				
		Lower contact has 1' of orange-pink potassium alteration, is calcareous and has a 3/8" gouge zone.				
110	184	Chloritized basalt. Dark green, fine to medium-grained. 10-15% irregular white carbonate veinlets. Foliated at 50 deg.	110	112	110658	<0.002
			112	114	110659	<0.002
			114	118.2	110660	<0.002
			118.2	121.2	110661	<0.002
		110-112 Essentially a mylonite. Very brecciated. Just chlorite and carbonate including calcite.	121.2	125	110662	0.008
			136	139	110664	<0.002
		119-120 Carbonate filled fractures are approximately 2% of the core. Also chlorite and a 1" potassium altered quartz-feldspar-porphyry vein. Pyrite as stringers and fine disseminations, 2%.	139	141.7	110665	0.025
			141.7	142.2	110666	<0.002
			142.2	146	110667	0.0042
			163	165	110668	<0.002
		139-141.7 Irregular white calcite fractures roughly parallel to the core axis. With 5% masses of pyrite pyrrhotite and a trace of chalcopyrite.	165	167	110669	<0.002
			167	170	110670	<0.002
			170	174	110671	<0.002
		141.7-142.2 Shearing, very chloritic with stringers of pyrite and arsenopyrite, 2-3%	182	184	110672	<0.002
		165-167 Carbonate veins, 10% with stringers of pyrite, less than 5%.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		169 6" Quartz flooded quartz-feldspar-porphyry.				
		172.5 Chlorite-carbonate shear, buff green with blebs and disseminations of pyrite 4-5%. Foliated at 30 deg.				
		Lower contact very sheared but competent with white carbonate veins. Contact appears to be at 184.				
184	207	Quartz-feldspar Porphyry as at 10'. Very well foliate with grey feldspar and bluish quartz phenocrysts up to 1/2". First 2' are virtually a mylonite. Trace of disseminated pyrite.				
		195.5 Becomes sericitized , yellow with blue quartz eyes.	184	186	110673	0.013
		200.3-202 pyrite up to 5% . Fracture related.	196	200.3	110674	0.045
		Shearing at 38 deg.	200.3	202	110675	0.028
		202-207 Blue-grey quartz, 80-95% of the rock.	202	205	110676	0.124
		Mylonitic. Fine needles of arsenopyrite 3%. Pyrite 2%. Fine disseminations.	205	207	110677	0.101
207	216	Chloritized andesite. Fine-grained, green, uniform and well-foliated at 42 deg. First foot of the unit is chloritic with stringers of pyrrhotite, 3%.	207	211	110678	<0.002
216	232.3	Quartz-feldspar-porphyry. Grey, medium-grained, silicified Feldspars are white with 20% amphibole. Zones of shearing with sericite. Only rounded quartz augen survive the shearing.	220	223.6	110679	<0.002
			223.6	225.5	110680	0.013
			225.5	228	110681	<0.002
			228	229.7	110682	<0.002
			229.7	232.3	110683	<0.002
		216-216.5 Sheared contact				
		223.6-225.5 Shearing with sericite and quartz augen. Plus 2-3%, fine, disseminated and stringer pyrite.				
		231-232.3 As at 223.6, but with some brecciation by quartz veins.				
232.3	254	Chloritic Basalt as at 110. First 2 ft, 20% carbonate and quartz veining with brecciation. Calcareous.	232.3	233	110684	<0.002
			233	236	110685	<0.002
			236	238	110686	<0.002
		232.3-233; 238-239; 244.7-246.5 Quartz - possible sheared quartz-feldspar-porphyry vein. Fine-grained with chlorite, carbonate and stringer pyrite, 5%, trace arsenopyrite. Oriented at 45 deg. Non-calcareous, non-magnetic.	238	239	110687	0.246
			239	244.7	110688	<0.002
			244.7	246.5	110689	0.088
			246.5	250	110690	<0.002
			250	253	110691	<0.002
		253-254 Very chloritic with euhedral arsenopyrite up to 1/8", 1%, near the lower contact.	253	254	110692	0.016

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
254	275.7	Sheared quartz-feldspar-porphyry. Mylonitic in places eg. at 265 feet- rotated quartz porphyroblast. Disseminated pyrite, 3-5% along foliation fractures.	254 258 262 266 266	258 262 266 268	110693 110694 110695 110696	<0.002 0.029 0.020 <0.002
		272-275.7 Greyer with blue quartz veins to 1" May be in-folded with silicified basalt. Disseminated pyrite up to 5%.	268 272 275.7	272 275.7 278	110697 110698 110699	<0.002 0.129 0.059
275.7	411.5	Altered basalt. Foliated, green, fine-grained. Zones of medium-grained, dark grey green basalt with irregular white carbonate veinlets (5-10%)	278 286 290.4 292	282 290.4 292 296	110700 110801 110802 110803	<0.002 0.027 0.022 0.021
		290.4-292 Internal unit. essentially the same rock but brownish with 5-10% pyrrhotite. The green basalt is brecciated with carbonate including calcite above and below this zone. Foliated at 33 deg. Trace of fine disseminated pyrite. 320.3-323.7; 328.4-332 - Strongly foliated. Silicified zones or strongly sheared quartz-feldspar- porphyry. 333 Becomes more massive, less strain showing. Quartz-feldspar-porphyry zones, 1/2" to 8", approximately every 3'. Slight foliation at 48 deg.				
		372.5-375 Another zone of shearing with silicification quartz flooding. Seams of pyrite, 2%.	368.6 371.6	371.6 373.6	110804 110805	<0.002 0.018
		394-397 Zone of quartz-feldspar-porphyry. Quartz flooded, barely can see feldspar phenocrysts. Breccia with chlorite and potassic alteration at upper and lower contact	373.8 393.4 397.4	377 397.4 400.3	110806 110807 110808	<0.002 <0.002 0.047
		397-400.3 Silicification, strong shearing, carbonate breccia. Calcite, chlorite. Bands of disseminated pyrite and stringer pyrite, 3-4% total.				
		Basalt is coarser grained downhole. The last 3' are biotitic and chloritic.				
411.5	422	Altered quartz-feldspar-porphyry. Silicified, fractured, potassic alteration. Altered basalt zone at 420'				
422	431.3	Altered Basalt. As at 275.7. Well foliated at 42 deg.	423 426 429	426 429 431.3	110809 110810 110811	<0.002 <0.002 <0.002
		426-433 Contorted and brecciated with 30% carbonate. 5% blue quartz veins., up to 1/2". Up to 5% stringers of pyrite.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
431.3	435	Quartz-feldspar-porphyry as at 411.	431.3	434	110812	<0.002
435	458.8	Altered basalt. Similar to previous basalts but not very sheared, relatively massive. Still have occasional quartz-feldspar-porphyry zone up to 8" thick, approximately every 5'.	446 448.5 452 456	448.5 452 456 458.8	110813 110814 110815 110816	<0.002 <0.002 0.006 <0.002
		440 Disseminated and stringer pyrite, 2% starts at this point. 447.4-448.5; 453; 455 - Shearing at 52 degrees. Cubes of disseminated pyrite, 5%, in calcareous fractures or in chloritic fractures against quartz-feldspar-porphyry.				
458.8	472	Pink quartz-feldspar-porphyry. Potassium altered and silicified. Fractures with chlorite. Broken up. Disseminated pyrite 1-2% on both sides of lower contact.	468	472	110817	<0.002
472	477	Altered basalt as at 275.7. Good foliation at 42 deg.	472 476	476 477	110818 110819	0.090 <0.002
		476.8 - 1" quartz vein with 15% pyrite and pyrrhotite.				
477	483	Pink quartz-feldspar-porphyry as at 458.8				
483	489.5	Altered Basalt. Similar to previous. Medium-grained, chloritized with pyrite associated with shearing at 50 deg Also quartz-carbonate-filled fractures. Stringer pyrite, 3%.	483 486	486 489.5	110820 110821	<0.002 <0.002
489.5	501.5	Quartz-feldspar-porphyry. Upper contact is fractured and chloritic.	489.5	493	110822	<0.002
501.5	509	Altered Basalt. As at 483. Last 1-2' has stretched pyrite, 2%. Associated with carbonate veining and thin quartz-feldspar-porphyry vein.	506	509	110823	<0.002
509	518.3	Fractured quartz-feldspar-porphyry. Darker not as pink. Can see the phenocrysts better than in previous units. Less than 1% fine disseminated pyrite.	509 513.5 516	513.5 516 518.3	110824 110825 110826	<0.002 <0.002 <0.002
		509-513.5 20% chloritic basalt in very fractured quartz-feldspar-porphyry with 5% euhedral disseminated pyrite, 1/8" dia.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
518.3	533.2	Calcareous Basalt. Calcite veining 20-30% Pyrite as irregular masses or 1/2" euhedral grains in calcite. Also 5-10% quartz veining.	518.3	522.3	110827	0.024
			522.3	526	110828	<0.002
			526	530	110829	0.028
			530	533.2	110830	0.102
533.2	566	Grey Altered Basalt. Appears to be carbonatized but too hard to be carbonate. With 5% disseminated pyrite. Foliated at 60 deg. Non-calcareous, non-magnetic. 552 More contorted, broken-up, talcose. Gougey. Only a trace of pyrite below this point.	533.2	537	110831	0.022
			537	541	110832	0.018
			541	545	110833	0.010
			545	548	110834	0.030
			548	552	110835	0.025
			552	556	110836	0.021
556	560	110837	<0.002			
566	639	Basalt. Magnetic near upper contact. Dark green-grey. Mafic minerals are slightly chloritic. Uniform. Foliated at 62 deg. Trace of disseminated pyrite. Minor epidotization and chloritization associated with small shears.				
639	646	Feldspar Porphyry. "Leopard Rock" 30% orthoclase phenocrysts, up to 1" long in a medium-grained basaltic matrix. Matrix is similar to the previous unit. No obvious sulphides.				
646		End of hole. Casing left in hole.				

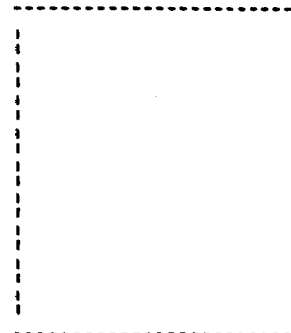
DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-11

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 12398.8E/ 11843.2N _____
 Length: 366 ft. _____
 Core Size: BQ _____
 Claim No: _____
 Township: _____
 Started: July 1, 1988 _____
 Logged by: R. Anderson _____

Azimuth: 360 degrees _____
 Dip: -55 degrees @ 0', 39 @ 300' _____
 Elevation: Surface, 9991.4 _____
 Drill Company: Morrisette _____
 Completed: July, 2, 1988 _____
 Date Logged: July 3, 1988 _____



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	4	Casing				
4	80	Basalt. Dark green, fine-grained, non-calcareous, non-magnetic. Relatively uniform with 2-3% irregular and conformable carbonate veins up to 1/4". Also paler green zones of carbonate - slightly calcareous - may be flow salvage zones. Foliated at 47 deg.	11	14.8	110838	<0.002
			14.8	17.5	110839	<0.002
			17.5	18.6	110840	0.017
			18.6	22	110841	<0.002
			49	51.5	110842	<0.002
			51.5	52.5	110843	<0.002
		13.5-14.8, 17.5-18.6, 60.6-61.2 Shearing, silicification with thin bands of chlorite and carbonate. Also 3% stringers and stretched grains of pyrite.	52.5	56	110844	<0.002
			56	80	110845	<0.002
		51.5-52.5 Salvage zone with chlorite and carbonate bands. Pyrrhotite, 1%				
		63-65.9 Zone of grey silicification. Essentially grey, massive quartz with sugary zones of very altered basalt. 1 or 2 K-spar phenocrysts, may be a small silicified quartz-feldspar-porphyry vein.				
		66.5 Gouge, with talc, chlorite and calcite. Oriented at 45 deg. Below this gouge, irregular carbonate veins make up 5% of the rock and in some zones brecciate it. Last 6" of this unit is 5% stretched pyrite grains.				
80	185.7	Quartz-feldspar-porphyry. Grey with phenocrysts up to 1/2". Quartz phenocrysts tend to be blue and rounded. Non-calcareous. slightly sericitized. Chloritic fractures are common.				
		80-84 Can't see phenocrysts due to quartz flooding. Grey-brown with 3-4" bands of chloritized basalt. Basalt has 3-4% stretched grains of pyrite and the quartz-feldspar-porphyry has 2% pyrite in fractures.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		90-92 Fault zone with talc, carbonate and sericite.	80	84	110846	<0.002
		No calcite. Slight hematization Fault oriented at 66 deg.	84	88	110847	<0.002
			88	90	110848	0.231
		98.5 Mylonitic with 1% disseminated pyrite.	90	92	110849	0.020
		102-103 Sheared, very similar to 90-92, but fault is oriented at 52 deg.	92	96	110850	0.004
			96	98	110851	0.030
		123-125.2 Thin zone of altered basalt with 10-15% white carbonate and 3% pyrite as disseminations and stringers. One foot above and below this unit the quartz-feldspar-porphry is virtually a mylonite with heavier sericite and very sheared.	98	99	110852	<0.002
			99	102	110853	<0.002
			102	103	110854	<0.002
			103	106	110855	<0.002
			119	123	110856	0.019
		132.5 "Clean" unaltered quartz-feldspar-porphry with 2% euhedral, disseminated pyrite up to 1/4" in diameter.	123	125.2	110857	0.024
			125.2	129	110858	<0.002
			129	131	110859	<0.002
		164-185.7 Strong foliation. Feldspars are broken up - saussuritized. Quartz is seen as blue porphyroblasts. A mylonite.	131	134	110860	<0.002
			174	178	110861	0.036
			178	182	110862	<0.002
		178 Pyrite content increases to 2%. Disseminated in everything including quartz porphyroblasts.	182	185.7	110863	0.007
185.7	277.4	Chloritized basalt as at the top of the hole. Dark green, fine-grained, non-calcareous, non-magnetic with clear, 1/4" vein wandering with stringers of pyrite at the vein margins. Veins approximately every 6-7'	185.7	187.5	110864	<0.002
			187.5	189	110865	0.020
			189	193	110866	<0.002
			213	217.3	110867	<0.002
			217.3	218.2	110868	0.066
			218.2	219.7	110869	0.041
		187.5-189 Sheared quartz-feldspar-porphry zone with chloritized basalt, similar to 178. Stringer pyrite, 2%. Foliated at 45 deg.	219.7	223	110870	<0.002
			230	233.4	110871	<0.002
			233.4	234.5	110872	0.019
		Zones of quartz-feldspar-porphry occur as follows. About half show varying degrees of quartz flooding.	234.5	238	110873	<0.002
		213 217.3-218.2 221-222 223.3-225.5				
		230 231-239.6 242.7-243.6				
		253.8 259				
		Sulphides are usually associated with margins of the quartz-feldspar-porphry zones. And tend to be more common on the downhole sides. Strong shearing at 65 degrees is typical along with chlorite, carbonate and quartz alteration. Also get up to 15% stringers of pyrite and pyrrhotite. Sulphide zones are at:				
		218.2-220.7 233.4-234.5 241-242.6				
		253-253.7 259.2-259.8				
		Bottom 4-5' appear to be interlayered with chloritized basalt and very sheared quartz-feldspar-porphry				

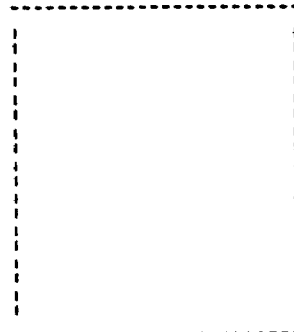
From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		Stringer pyrrhotite and pyrite up to 3% associated with calcite veining	238 241 242.6 253 253.7 256 259.2 268 271.4	241 242.6 246 253.7 256 259.2 259.8 271.4 275	110874 110875 110876 110877 110878 110879 110880 110881 110882	0.007 <0.002 <0.002 0.020 <0.002 <0.002 <0.002 <0.002 <0.002
277.4	310.8	Grey quartz-feldspar-porphry. Uniform, similar to unit at the top of the hole but with a trace of disseminated pyrite.				
310.8	316	Carbonate biotite schist. Altered basalt. Medium-grained. Black with white carbonate nodes. Slightly calcareous with 5-10% angular carbonate-filled fractures. Euhedral disseminated pyrite, 2%.	308 310.8	310.8 316	110883 110884	<0.002 <0.002
316	319.5	Quartz-feldspar-porphry. Similar to unit at 277.4	316	319.5	110885	<0.002
319.5	328.3	Chloritized basalt. With two 2" quartz-feldspar-porphry. Disseminated euhedral pyrite, 1-2%. First 6 inches is biotite-carbonate schist.	319.5 324	324 328.3	110886 110887	<0.002 <0.002
328.3	366	Quartz-feldspar-porphry. With medium-grained amphibole up to 25% of core. Chloritic fractures are common oriented at 36 deg. Quartz flooding. Pyrite as medium disseminations, interstitial, <5%.	328.3 346 350 354 358 362	332 350 354 358 362 366	110888 110889 110890 110891 110892 110893	<0.002 0.004 <0.002 0.635 <0.002 0.004
366		End of Hole. Casing left in hole.				

DIAMOND DRILL LOG - LINGHAM LAKE PROPERTY

Hole No: 88S-12
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 12300.6E/ 11705.5N
 Length: 784 ft.
 Core Size: BQ
 Claim No:
 Township:
 Started: July 3, 1988
 Logged by: R. Anderson

Amplitude: 360 degrees
 Dip: -55 degrees @ 0', 47 @ 300';
 42 @ 600'; 43 @ 784'
 Elevation: Surface, 9988.6
 Drill Company: Morrisette
 Completed: July 6, 1988
 Date Logged: July 7, 1988



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	18	Casing				
18	111.9	Basalt. Massive, fine to medium-grained, uniform with minor irregular carbonate fractures. Non-magnetic, non-calcareous. Trace of disseminated pyrite.	25 51 71.6 75.7	29 52 75.7 80	110894 110895 110896 110897	Trace Trace Trace 0.04
		24 becomes finer grained	88	92	110898	Trace
		25 Develops strong foliation at 45 to 50 deg. 0.5% pyrite associated with shears parallel to foliation and 0.5% with carbonate-filled fractures.	92 96 100	96 100 104	110899 110900 110901	0.06 0.08 0.24
		52 One foot of greenish carbonate. Looks sheared with silicification and stringers of pyrite.	104 108	108 111.9	110902 110903	0.01 Trace
		71.6-75.7 Silicification with stringers and dissemination of pyrite and pyrrhotite, 3-4%.				
		92 Start of intermittent zones of shearing, every 2-3'. With stringers of pyrite in 2" thick zones, 25% also minor chalcopyrite and pyrrhotite. With silicification, epidote fractures and chlorite. White quartz veining is also present. All conformable to the foliation at 38 deg. The basalt is generally dark and chloritic. Bottom foot of the unit is chloritic, biotitic and 20% white carbonate. Also a 2" white quartz vein.				
111.9	124.9	Grey quartz-feldspar-porphyry. Medium-grained subhedral feldspar phenocryst in a grey fine-grained matrix. Non-calcareous. Non-magnetic. Foliated at 38 deg. Uniform, no apparent pyrite.	111.9 114.6	114.6 116.8	110904 110905	Trace Trace
		114 5% disseminated medium-grained arsenopyrite.				
		114.6-116.8 Chloritized basalt.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
124.9	280.8	Foliated Basalt. Not unlike the basalt at the top the hole but foliated at 44 deg.	144	148	110906	Trace
			148	152.1	110907	0.01
		152.1-154.4, 156.7-157.6 Arsenopyrite, 2%, as lathes in silicified shears.	152.1	154.4	110908	0.01
			154.4	156.7	110909	Trace
		164 Basalt is uniform, dark green, less than 5% irregular white carbonate veinlets.	156.7	157.6	110910	0.08
			157.6	161	110911	0.01
		195 White bands of carbonate parallel to the foliation, 50%.	161	163.4	110912	0.12
			163.4	167	110913	Trace
		199-202.3 Greying, silicification centred about a 4" zone of pale green carbonate that looks like a flow salvage. Stringers of pyrite and pyrrhotite, up to 20%; plus minor disseminated arsenopyrite.	195	199	110914	Trace
			199	202.3	110915	0.12
			202.3	206	110916	Trace
			226	230.4	110917	0.01
		228 Foliated at 34°, 5-10% angular fractures filled with carbonate	230.4	235	110918	0.01
			235	238.6	110919	0.01
		232 8" grey, 100% fine quartz bounded by silicification and 2% disseminated arsenopyrite and pyrite; then bounded by zones of chlorite, carbonate, shearing and 5-10% stringer pyrite-pyrrhotite.	238.6	241	110920	0.08
			241	245	110921	0.02
			263	267.4	110922	Trace
			267.4	268.1	110923	Trace
		238-240 Shearing at 36 deg. with silicification, chloritization, carbonatization and 15-20% stringers of pyrite.	268.1	273	110924	Trace
			273	274	110925	Trace
			274	275.2	110926	Trace
		241 Zone of chlorite shearing with 2-3% disseminated pyrite-pyrrhotite.	275.2	277	110927	0.01
			277	280.8	110928	Trace

Sheared zones with silicification, 20% white
carbonate, 5-10% stringer of fine disseminated pyrite
and minor disseminated arsenopyrite as follows:

267.4-268.1 273-274 275.2-277

274-275.2 Zone of quartz-feldspar-porphyry

280.8	393.8	Variably tectonized quartz-feldspar-porphyry. A grey rock display the following four deformation- alteration facies	280.8	284	110929	Trace
			345	349	110930	0.02
			349	352.5	110931	Trace
		1) Strongly foliated quartz-feldspar-porphyry.	352.5	356	110932	Trace
		2) Pale grey feldspar phenocrysts are sausseritized and loose crystal boundaries.	390	393.8	110933	0.06
		3) Sericitization				
		4) Yellow-grey cryptocrystalline matrix with 50% blue oval quartz porphyroblasts. A mylonite. Trace of disseminated pyrite. Also get pink angular dolomite-filled fractures. Brecciating at 287 310 Shearing is parallel to core axis.				

The rock is massive and one can see feldspar crystal
boundaries at the following locations:

321-327 332-335 353-355

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		348-352.5 Sheared chloritic basalt zone with 10' of mylonitized quartz-feldspar-porphyry above the zone and 6' below the zone (Quartz porphyroblasts are barely recognizable). Quartz veining, 15-20%, 5-10% stringers of pyrite.				
393.8	405.8	Altered Basalt. Mostly chloritized. Green with epidote. Quartz-feldspar-porphyry veining up to 3" thick. Well-foliated at 46 deg.	393.8 396.1 400 403.2	396.1 400 403.2 405.8	110934 110935 110936 110937	0.10 0.02 Trace 0.06
		393.8-396.7 Contact zone. strong shearing with quartz veins making up 40% of the core. The rest is slightly silicified. 20% pyrite as stringers and sugary masses.				
		403.2-405.8 Sheared with 20% carbonate. Contorted. 1- 2 disseminated pyrite and arsenopyrite.				
405.8	413.4	Sheared quartz-feldspar-porphyry. As previous. Upper part not as mylonitic. More chloritic fractures.	405.8	410	110938	Trace
3.4	483.6	Altered basalt. As at the top of the hole. with 1/4"- 6" veins of grey silica - likely silicified quartz- feldspar-porphyry. About 5% irreg. carb. veins. 425.5 Carbonate-chlorite shear with 3% pyrite. 433-438.4; 441.6-444.3 Silica flooding, some shearing at 62 degrees. Textures obscure. 438.4-439.3 60% carbonate, 5% stringers of pyrite. Trace of fine disseminated arsenopyrite. 446-447 shear with chlorite, carbonate and 5% stringer pyrite. 451.4-454.4 Fracturing with carbonate filling. Stringers and disseminations of pyrite, 5%. Silicification, chloritization and foliated at 50° 454.4-456 Zone of quartz-feldspar-porphyry with 15- 20% potassium altered fractures.	421 425 426 430 435 438.4 439.3 443 446 447 451.2 454.5	425 426 430 435 438.4 439.3 443 446 447 451.2 458	110939 110940 110941 110942 110943 110944 110945 110946 110947 110948 110949 110950	Trace Trace Trace Trace Trace Trace Trace Trace Trace Trace 0.04 0.01
		Basalt is medium to coarse-grained at this point. Possibly a metamorphic texture related to carbonatization.				
		471.5-483.6 Silicified quartz-feldspar-porphyry massive.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
483.6	545.8	Melange. Altered Basalt interlayered with grey silica-flooded quartz-feldspar-porphyry. The altered basalt is a medium-grained calcite-biotite schist foliated at 53 deg. Altered basalt can also be a chlorite-biotite-carbonate schist. The porphyry layers can be from 1/4" to 4' thick.				
545.8	590.6	Sheared quartz-feldspar-porphyry with zones of mylonite eg at 554.1-555.7 The quartz-feldspar-porphyry is grey to pink white. The mylonitic zones have blue quartz oval porphyroblasts. Pale green matrix with black stretched clasts of chloritized mafic minerals. Shearing at 52 deg.	554.1 555.7 559.5 564 568.5 587	555.7 559.5 564 568.5 572 590.6	110951 110952 110953 110954 110955 110956	Trace Trace Trace Trace Trace Trace
		559.5-568.5 50% chloritized basalt. Almost black. Ultramafic with 5% angular carbonate fractures. Also 1/8" euhedral pyrite, disseminated, 2%				
590.6	597	Chloritized Basalt. Typical. Strong foliation at 44 deg. 590.6-591.7 10% pyrite as 1/4" euhedral grains or fine stringers around shattered fragments of quartz-feldspar-porphyry	590.6 591.7	591.7 596	110957 110958	Trace Trace
597	612.4	Fractured quartz-feldspar-porphyry Variable texture: from clean unaltered rock to very silicified to brecciated by 20% chloritic fractures.	606	612.4	110959	Trace
612.4	642	Breccia. First five feet appear to be brecciated chloritized basalt then brecciated silicified basalt then brecciated quartz-feldspar-porphyry starting at about 618.	612.4 614.8 618.2 619.7 624 624	614.8 618.2 619.7 624 628	110960 110961 110962 110963 110964	0.02 0.01 0.01 Trace Trace
		612.4-614.8 Disseminated pyrite, 10% to 1/4" dia.	628	632	110965	0.08
		614.8-618.2 Disseminated pyrite, 2%	632	636	110966	0.01
		618.2-619.7 Disseminated and stringer pyrite, 10%, 1/4" grains.	636 640	640 642	110967 110968	Trace 0.10
		619.7-641.7 Pyrite as fine stringers and disseminations 2-5%. No arsenopyrite. Bottom 3 feet of this unit are calcareous.				
		641.7 Talc-chlorite-calcite gouge.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
642	750	Basalt. Magnetic near upper contact Dark green-grey. Mafic minerals are slightly chloritic. Uniform. Foliated at 52 degrees. Trace of disseminated pyrite. Minor epidotization and chloritization associated with small shears. Becomes non-magnetic and massive at 670.	642	646	110969	0.04
			666	668.3	110970	Trace
		668.3 Disseminated pyrite, 1-2%				
		700 2%, 1/4" orthoclase phenocrysts				
		746-750 grades into a Feldspar Porphyry.				
750	784	Feldspar Porphyry. "Leopard Rock" 30% orthoclase phenocrysts, up to 1" long in a medium-grained basaltic matrix. Matrix is similar to the previous unit. No obvious sulphides.				
784		End of Hole. Casing left in hole.				

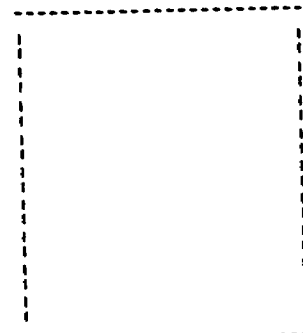
DIAMOND DRILL LOG - LINGHAM LAKE PROPERTY

Hole No: 885-13

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 12501.3E/ 11853.8N
 Length: 501 ft.
 Core Size: BQ
 Claim No:
 Township:
 Started: July 6, 1988
 Logged by: R. Anderson

Azimuth: 360 degrees
 Dip: -45 degrees @ 0', 39 @ 500'
 Elevation: Surface, 9990.6
 Drill Company: Morrisette
 Completed: July 8, 1988
 Date Logged: July 9, 1988



Hole location in claim

Other Tests:

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	10	Casing				
10	116	Altered Basalt. Dark green-grey. Chloritized. Fine to medium-grained. Well-foliated at 56°. Fine irregular and angular carbonate-filled fractures, 5%. Rock is generally non-calcareous, non-magnetic. Trace of fine disseminated pyrite.	13.2	16.2	110971	Trace
			13.2	20	110972	0.20
			16.2	20	110973	Trace
			16.2	42.2	110974	Trace
			38	43.7	110975	Trace
			42.2	47	110976	Trace
			43.7	47	110977	Trace
		13.2-16.2 Biotite-carbonate alteration, 20-30%. Sheared at 56°. Mineralized with disseminated arsenopyrite to 1/8" in the carbonate, 1-2%. Biotite is rusty, slightly weathered.	47	49.5	110978	Trace
			49.5	52	110979	Trace
			52	56	110980	Trace
			56	86	110981	Trace
			86	90	110982	0.28
			90	91.1	110983	Trace
		42.2-43.7 Sugary, pale carbonate with 2% disseminated arsenopyrite in the fine-grained, chloritic basalt margins.	91.1	95		
			113	116		
		43.7-47 Minor disseminated arsenopyrite.				
		47-49.5 Fine-grained silic veining, 70%. Arsenopyrite grains and needles, up to 5%, in the silica and chlorite. Pyrite, 2% as stringers. Sheared at 39 deg.				
		51.5 Quartz vein with 3% pyrite in fracture-fillings.				
		85 Start to get 1/4" veinlets of what appears to be quartz-flooded quartz-feldspar-porphyry. Towards the lower contact the veins are thicker (up to 1') and are clearly quartz-feldspar-porphyry.				
116	121	Contact Zone. Brecciated silicified basalt and quartz-feldspar-porphyry. Chloritic fractures. Slightly calcareous. Up to 5% pyrite in chlorite-calcite fractures.	116	119	110984	Trace
			119	121	110985	Trace
		118.9 Gauge oriented at 47°.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
121	434	Quartz-feldspar-porphyry. Grey, with pale medium-grained orthoclase and blue quartz phenocrysts. Also sericitic in or near zones of shearing. Intensity of shearing is variable. In places the rock appears mylonitic. Shearing is typically at 54° in the upper part of the unit.	121	125	110986	Trace
			150	152	110987	Trace
			158.5	161.5	110988	Trace
			241	244	110989	Trace
			244	245.8	110990	Trace
			245.8	250	110991	Trace
			278	282	110992	Trace
			282	286	110993	Trace
			312	316	110994	0.01
			316	320	110995	Trace
			371	373	110996	Trace
			382	386	110997	Trace
			386	390	110998	Trace
			390	394	110999	Trace
			394	398	111000	Trace
			398	402	109001	0.01
			408	409.5	109002	Trace
			423	427	109003	Trace
			427	431	109004	Trace
			431	434	109005	Trace
434	437	109006	Trace			
434	445.3	Mylonite. Tan grey. Very disrupted, sugary texture. Foliated at 64°. Also Zones where it is still possible to see surviving shattered quartz porphyroblasts. Disseminated pyrite, 1%	437	441	109007	Trace
			441	445.3	109008	Trace
445.3	468.5	Altered Basalt. As at the top of the hole. Carbonate veining, 10-15%. Foliated at 53 deg.	445.3	447	109009	Trace
			447	450	109010	0.10
			450	452.7	109011	0.14
			452.7	456	109012	Trace
			456	460	109013	0.01
			460	464	109014	Trace
			464	468.5	109015	Trace
			468.5	468.5		
		452.4 Back to the altered basalt, but still broken-up by carbonate veining and has 2% disseminated pyrite.				

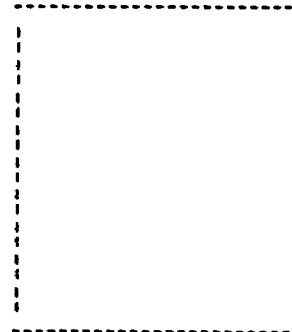
To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
468.5	501				
	Basalt. Cleaner looking than the previous rock.	468.5	471.5	109016	Trace
	Carbonate veining stops, rock becomes magnetic. Up to	471.5	476	109017	Trace
	5% disseminated pyrite, decreasing slowly downhole.	476	478.3	109018	Trace
		478.3	479.8	109019	Trace
	478.3-479.8 Carbonate shear, 2% carbonate with	479.8	484	109020	Trace
	chlorite, biotite and 5% pyrite. Below the shear the				
	rock becomes uniformly dark green with zones of				
	potassium alteration and then epidote-chlorite				
	alteration associated with minor shears.				
	Stringer pyrite-pyrrhotite up to 2%.				
501	End of Hole. Casing left in hole.				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-14
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 12600.7N/ 12111.6W
 Length: 276 ft.
 Core Size: BQ
 Claim No:
 Township:
 Started: July 9, 1988
 Logged by: R. Anderson

Azimuth: 360 degrees
 Dip: -45 degrees @ 0', 42 @ 275'
 Elevation: Surface, 9992.3
 Drill Company: Morrisette
 Completed: July 10, 1988
 Date Logged: July 11, 1988



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	32	Casing, boulders of quartz-feldspar-porphyry.				
32	149.7	Sheared quartz-feldspar-porphyry. Variable tectonic texture with zones of quartz flooding where little of the original porphyritic texture can be seen. Also zones of foliated quartz-feldspar-porphyry with subhedral feldspar phenocrysts and oval blue quartz eyes. The quartz-feldspar-porphyry can also be strongly sheared to the point of a mylonite with a cryptocrystalline yellow sericitic matrix and minor surviving blue quartz porphyroblasts. Pyrite is generally disseminated, 1%. Some zones have a slightly higher content.	32	35	109021	0.01
			35	38.5	109022	0.08
			38.5	41	109023	0.10
			50	52	109024	0.01
			62	64	109025	Trace
			111.7	113.2	109026	Trace
			129.5	134	109027	Trace
			134	138	109028	Trace
			138	142	109029	Trace
			142	144	109030	Trace
			144	147	109031	Trace
			147	149.7	109032	Trace
		35-38.5 Mylonite				
		50-52, 62-64 1-2% disseminated pyrite				
		73-75.5 Sericitic, carbonatized, blocky - Mylonitic fault. No sulphides. Oriented at 40°.				
		79-80 Pink quartz flooding at mylonitic zone.				
		112-113 Mylonitic.				
		113-129.5 Quartz flocking with seams of biotization.				
		129.5-149.7 Mylonitic with minor quartz augen and zones of alteration as follows:				
		129.5-134 Sericitization				
		134-144 Biotization				
		144-147 Sericitization				
		147-149.7 Carbonate and chloritization.				

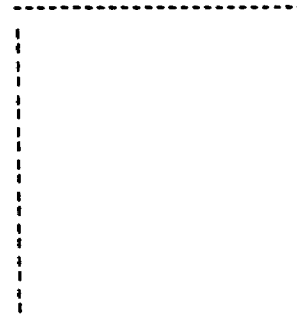
From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
149.7	163	Altered Basalt. Chloritized and carbonatized. Often brecciated. Differentiated on the basis of dark green colour. Fine-grained. 5-10% white carbonate veins. Non-calcareous, non-magnetic.	149.7	152	109033	Trace
			152	155.5	109034	0.01
			155.5	159	109035	0.08
			159	161	109036	0.16
			161	163	109037	Trace
		155.5-163 Mineralized zone. Non-calcareous, non-magnetic. Slightly paler possibly due to silicification. Pyrite is substituting for carbonate veining- Fracture replacement?. 5-10% pyrite. Foliated at 62°				
		161.2 Chloritic gouge at 48 deg.				
163	276	Basalt. Chloritic. Magnetic. Fine-grained at upper contact becomes medium-grained by 170 with 1% pyrite in general. Also epidotization and carbonatization associated with minor shearing.	163	167	109038	Trace
			167	171	109039	Trace
			178.5	180.5	109040	Trace
			256	259	109041	Trace
			259	260.5	109042	Trace
		164-165 Chloritization with carbonate and pyrite, 3%. 260.5 Becomes non-magnetic.				
		178.5-180; 259-260.5 Carbonate and epidote shears with 5-10% stringers and disseminations of pyrite				
		223 6" zone of orange potassic alteration.				
276		End of Hole. Casing left in hole				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-15
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 12800.7N/ 12099.2W
 Length: 276 ft.
 Core Size: BQ
 Claim No:
 Township:
 Started: July 10, 1988
 Logged by: B. Anderson

Asimuth: 360 degrees
 Dip: -45 degrees @ 0', 44 @ 275'
 Elevation: Surface, 9992.5
 Drill Company: Morrisette
 Completed: July 11, 1988
 Date Logged: July 12, 1988



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	43.4	Casing. Bottom 6 feet is strongly sheared quartz-feldspar-porphyry.				
43.4	182.4	Sheared quartz-feldspar-porphyry. Various phases of shearing. Ranges from a foliated quartz-feldspar-porphyry oriented at 38° with subhedral feldspars, oval blue quartz and up to 20% hornblende to a mylonite with a yellow sericitic matrix and crushed blue quartz (sugary texture) Quartz flooding is also common and can render the core 100% silica with no texture visible. Flooding appears to be more common in the unshered zones. Pyrite content is variable-disseminations ranging from trace amounts to 2% of the core.	54	57	109044	Trace
			70.5	72	109045	Trace
			72	75	109046	Trace
			75	79	109047	Trace
			79	82.5	109048	Trace
			82.5	86	109049	Trace
			86	88.5	109050	Trace
			88.5	89.3	109051	0.01
			89.3	92	109052	Trace
			140.5	144	109053	Trace
			144	148	109054	Trace
			148	151	109055	Trace
		37-41; 61-65 mylonite	151	154.5	109056	Trace
		54-57; 71-72 2% pyrite.	154.5	157	109057	Trace
		70.5-82.5 2% pyrite with zones of quartz flooding and mylonite.	157	161	109058	0.10
			161	165	109059	0.06
		80-82.5 2% pyrite.	165	169	109060	0.01
		88.5-89.5 Broken-up with 2" irregular dolomite-filled shear, 1% stringer pyrite.	169	173	109061	Trace
			176	180	109062	0.08
		89.5-92 pyrite, 2%	180	182.4	109063	0.06
		95-113 Zones of foliated quartz-feldspar-porphyry, quartz flooding and mylonite. None is more than 1 foot thick.				
		113 90% foliated quartz-feldspar-porphyry below this point.				
		117-118 mylonitic				
		129 Potassium altered.				
		141.5 Up to 3% interstitial pyrite associated with the chloritisation of the hornblende.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		153 Progressively more sericitized and mylonitic with 1% pyrite. Eventually even the quartz augen are ground.				
		169 Not as sheared over a 2' width. With 2% pyrite.				
		173-176 Core lost.				
182.4	200.7	Altered Basalt. Green, chloritic. Fine-grained. 5-10% disrupted conformable quartz veining. First 3' appears brecciated and sheared at 40-18 deg. Pyrite 5-10%.	182.4	186	109064	0.08
			186	190	109065	0.02
			190	191.9	109066	0.06
			191.9	195	109067	0.34
		186 - Not as disrupted Stringer pyrite-pyrrhotite 5-10%. Biotized, chloritized. Slightly magnetic.	195	196.7	109068	0.44
			196.7	200.7	109069	0.16
			200.7	205	109070	Trace
		191.9-200.7 Mineralized zone. Oriented at 63°. Grey, fine-grained, silicified with 10% pyrite as dissemination and stringers.	236	239	109071	Trace
			239	241.5	109072	Trace
			241.5	244	109073	Trace
		195-196.7 3% disseminated pyrite, 1/4" stinger sphalerite band with a trace of galena.	247	250	109074	Trace
			250	252	109075	0.14
		200.7 6" of silica and chloritized basalt.	252	255	109076	Trace
200.7	276	Basalt. Chloritic and medium-grained. Foliated at 60°. Magnetic, non-calcareous. Pyrite as stretched disseminations, 1%. Some epidote and carbonate associated with minor shears.				
		239-241.5; 250-252 Euhedral pyrite up to 20%. Averages 5-10%. In siliceous shears				
276		End of Hole. Casing left in hole.				

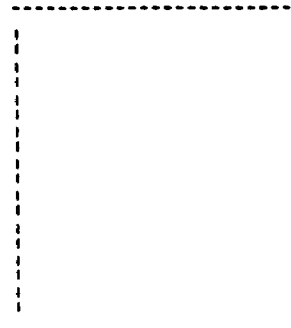
DIAMOND DRILL LOG - LINGHAM LAKE PROPERTY

Hole No: 88S-16

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 12899.0E/ 12898.7N
 Length: 294 ft.
 Core Size: BQ
 Claim No:
 Township:
 Started: July 12, 1988
 Logged by: R. Anderson

Asimuth: 360 degrees
 Dip: -45 degrees @ 0', 42 @ 294'
 Elevation: Surface, 9992.5
 Drill Company: Morrisette
 Completed: July 13, 1988
 Date Logged: July 14, 1988



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	71	Casing. Last 4 feet is through a rusty, potassium-altered quartz-feldspar-porphyry.				
71	165	Sheared quartz-feldspar-porphyry. Variable texture due to differing amounts of shearing. Shearing at 46 deg. The rock texture is variable: grey with pale subhedral phenocrysts, 60%, and blue quartz phenocrysts and 10-20% hornblende; another texture where the feldspars breakdown so that only blue quartz porphyroblasts remain and then eventually the quartz is ground-up and we get an orangey, sugary, very fine-grained rock. Up to 2% pyrite as interstitial masses. Also get some quartz flooding but not as much as in other holes.	78	80	109077	tr
			83.5	87.5	109078	tr
			90	94	109079	tr
			98	102	109080	tr
			102	104	109081	tr
			104	106	109082	tr
			106	108	109083	tr
			108	112	109084	tr
			123	126	109085	tr
			126	130	109086	tr
			130	134	109087	tr
			134	136	109088	0.01
		179, 83.5-87.5, 90-93 2% pyrite	136	140	109089	tr
		103 Chloritic carbonate gouge in a mylonitic zone. Oriented at 40°	140	144.5	109090	tr
		107 One grained, 1/8" euhedral arsenopyrite	151	156	109091	tr
		113 Sugary mylonite	156	159	109092	0.01
			159	163	109093	0.04
			163	167	109094	tr
		122-123 White quartz-feldspar vein that serves as a marker. Below this vein the pyrite content is medium-grained, disseminated, interstitial and with up to 5%. Usually in non-quartz flooded and non-mylonitic zones.	167	171	109095	tr
			181	185	109096	0.02
		133-135 Potassium altered mylonitic.				
		140-140.5 Grey quartz vein				
		140.5-142 Mylonitic with pink carbonate vein and hematization.				
		144.5-151 Quartz flooding no textures are visible, trace of pyrite.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		154.5 Start of mylonitic zones. Distorted with intense shearing but still have 3% pyrite.				
		169 Shearing at 23°-45°. Gougey.				
		161-163 Mylonitic, Potassium altered.				
		163 Grey, I-spars appear altered to clay-carbonate. Gougey to lower contact. Drillers nightmare.				
185	186	Altered Basalt with Mineralization. Silicified. Dark grey with sericite-yellow bands containing up to 5% stringers of pyrite. Generally 2-3%. Minor pyrrhotite. With chloritic banding. Foliated at 53°.	185 190 193 196 199	190 193 196 199	109097 109098 109099 109100	tr tr 0.01 tr
196	294	Basalt. Chloritic. Magnetic. Foliated at 52 deg. Fine-grained at upper contact becoming coarser lower down. With minor disseminated pyrite and minor chlorite-carbonate-epidote alteration associated with minor amounts of shearing.	208 211 212.8 225 238 241	211 212.8 216 227 241 242.5	109101 109102 109103 109104 109105 109106	tr 0.06 tr 0.04 tr tr
		211-212.8 3" grey quartz vein with 5-10% stretched pyrite above and below the vein.	242	245.5	109107	tr
		225-227 Disseminated cubes of medium-grained pyrite 3%.				
		241-242.5 Grey quartz veining with cubes of pyrite to 1/8". Disseminated, 5-10%.				
294		End of Hole. Casing left in hole.				

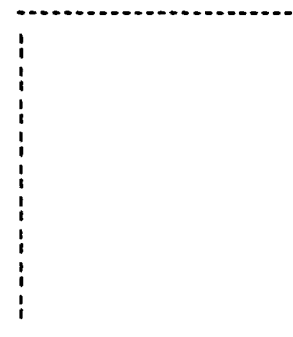
DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 885-17

Page : 1

Property Owner: Twin Gold Mines Ltd. _____
 Grid location: 130+00 R/ 120+51.3B _____
 Length: 344 ft. _____
 Core Size: BQ _____
 Claim No: _____
 Township: _____
 Started: July 26, 1988 _____
 Logged by: B. Anderson, B. Rowell _____

Azimuth: 360 degrees _____
 Dip: -48 degrees @ 0', 43 @ 266' _____
 Elevation: 9991.6 _____
 Drill Company: Morrisette _____
 Completed: August 1, 1988 _____
 Date Logged: August 1, 1988 _____



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	57.7	Casing				
57.7	61.5	Quartz Diorite. Greenish grey. Medium-grained, 30% interstitial quartz, 50% anhedral feldspar and 10% chloritized mafics. Feldspar slightly sericitized, Mafics are slightly foliated. 5% pyrite				
61.5	73.9	Quartz sericite schist. Greenish brown, fine to medium grained with 5% sericite, 30% white feldspar and 45% quartz. Quartz is very foliated and up to 1.5 cm in length and 3 mm wide. Foliated at 55°.				
73.9	83.7	Quartz Diorite as at 57.7 to 61.8 but 15% quartz flooded.				
83.7	138	Quartz sericite schist. As at 61.5	106	109	109717	0.26
		128.5-127.5 Quartz flooding, potassium altered with minor pyrite in fracture filling.	109	112	109718	0.01
			112	113	109719	Trace
138	238.5	Foliated Quartz Diorite. Foliated at 45°	146	147	109375	Trace
		146.3 Gougey broken-up, carbonate fractures	160	162.8	109376	Trace
		149.5 Chlorite-filled fractures	162.8	165	109377	Trace
		146.3-150 Quartz flooding	165	167	109378	0.01
		158.6-175 Fine, random irregular white carbonate fractures. Non-calcareous	167	169	109379	Trace
		162.8-175 Carbonate is washed-out. Core looks rotted	169	171	109380	0.01
		167-169 2% fine pyrite with carbonate-nylonitic like shearing	176	178	109381	Trace
		176-178 Clean, unaltered. Disseminated pyrite, 2-3%				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		178-185.5 Quartz flooding	208	210	109382	Trace
		185.5-238.5 Variably tectonized with quartz flooding. Ranges from clean, white quartz diorite to cryptocrystalline mylonite with minor quartz augen (eg. 222). Also orangey potassium alteration and quartz flooding - independent of the degree of tectonization. Textures can change over a scale of inches.	219	223	109383	0.01
		221 Gougey zone oriented at 42°				
238.5	269	Mylonite. Orangey to grey with minor stretched quartz augen. Many fine irregular fractures breaking up the core. Minor disseminated pyrite	238.5	241	109384	0.01
			241	245	109385	Trace
			245	247	109386	Trace
			247	249	109387	Trace
		249.5-254 Irregular fractures are filled with white carbonate	249	253	109388	0.01
			253	255	109389	Trace
		253-254 Carbonate is washed out. Gouge and quartz augen. Gouge is oriented at 50°	255	257	109390	0.01
			259	262	109391	0.04
		259.5-264 Mineralized. Stringers of pyrite, 4% contorted, chloritic. Possibly a mylonitized basalt.	262	264	109392	Trace
		Specific gravity 3.1	264	266	109393	Trace
			266	269	109394	0.08
		264-269 Stringer pyrite-pyrrhotite, 2-3%.				
		266 Chloritic gouge oriented at 48°				
269	344	Basalt. Magnetic near upper contact due to pyrrhotite content. Stringers of pyrite-pyrrhotite, 1%. Dark green-grey. Strongly chloritized and sheared near upper contact. Uniform. Medium-grained. Foliated at 45 degrees. Trace of disseminated pyrite lower down. Minor epidotization and chloritization associated with small shears.	269	271	109395	Trace
			271	275	109396	0.01
			275	279	109397	Trace
344		End of Hole. Casing left in hole				

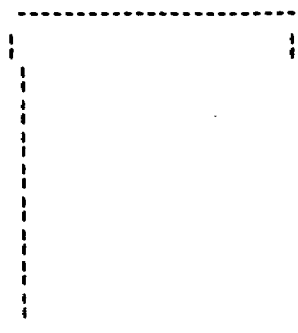
DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 885-18

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 131+00.2E/120+97.6N
 Length: 306 ft.
 Core Size: BQ
 Claim No:
 Township:
 Started: July 25, 1988
 Logged by: W. Rowell

Azimuth: 360 degrees
 Dip: -45 degrees @ 0', 45 @ 306'
 Elevation: Surface, 9991.2
 Drill Company: Morrisette
 Completed: July, 26, 1988
 Date Logged: July 26, 1988



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	57.1	Overburden				
57.1	107.5	Quartz Diorite - Grey; medium grained; 30% subrounded quartz, 45% anhedral to subhedral plagioclase, 20% chloritized mafics; quartz flooding over 20% of the unit, feldspars slightly sericitized particularly in quartz flooded areas; slight foliation, minor shearing at 38 deg; of mafics; trace sulfide	81.2	82.3	109676	Trace
		81.2 - 82.4 2% pyrite along foliation planes				
		82.4 - 89.3 more sericitized with 2 feet missing				
		89.3 - 91.2 2% fine grained disseminated pyrite				
		91.2 - 95.1 quartz flooded and sericitized				
107.5	115.6	Aplite Dike - White; fine grained; 95% feldspar + quartz, 5% biotite; slight pinkish potassic alteration; tr pyrite and molybdenite				
		2 feet lost				
115.6	181.1	Quartz Diorite - Black and white, mottled; medium grained; 40% anhedral to subhedral plagioclase, 30% interstitial quartz, 20% slightly chloritized hornblende; locally quartz flooded and sericitized; 1% pyrite and pyrrhotite	124.4	127.4	109678	Trace
			127.4	129.6	109679	Trace
			129.6	131.2	109680	Trace
			131.2	134.5	109681	Trace
		129.7 - 130.6 3% pyrite + pyrrhotite along fractures				
		163.5 - 166.0 core sericitized and very broken				

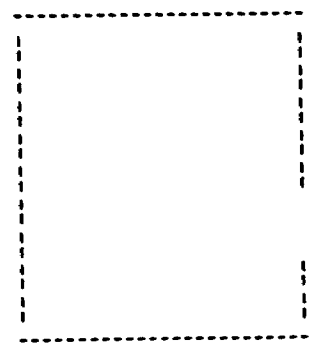
From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
181.1	193.6	Quartz-Sericite Schist - Greenish-grey; fine to medium grained, 50% sericite, 40% quartz; foliation 60 deg; <0.5% pyrite; very broken	189.7	193.6	109682	0.01
193.6	225.9	Porphyritic Andesite or Silicified Basalt - Dark grey; fine grained; 5% sporadically developed plagioclase up to 3 mm in length in dark matrix; 1% pyrite along foliation planes, <0.5% arsenopyrite - both sulfides concentrated in silicified sections	193.6	196.0	109683	0.10
			196.0	198.0	109684	Trace
			198.0	200.0	109685	Trace
			200.0	202.0	109686	0.22
			202.0	204.4	109687	0.54
			204.4	206.4	109688	0.10
			206.4	208.4	109689	0.08
			208.4	210.4	109690	Trace
			210.4	212.4	109691	0.06
			212.4	214.4	109692	0.01
			214.4	216.0	109693	0.06
			216.0	218.0	109694	0.04
			218.0	220.1	109695	0.18
			220.1	222.1	109696	0.02
222.1	224.1	109697	0.12			
224.1	225.8	109698	0.14			
225.8	227.5	109699	0.01			
225.9	306.0	Greyish-green; fine to medium grained; in medium grained sections 55% greenish amphibole and 40% saussuritized plagioclase, 2% quartz-carbonate concentrated along fractures and foliation planes; <1% pyrrhotite + pyrite; slightly magnetic due to pyrite	263.5	265.0	109700	Trace
		263.7 - 264.8 silicified with 1% pyrite				
		306.0 End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-19
Page : 1

Property Owner: Twin Gold Mines Ltd. _____
 Grid location: 132+00.1E/ 120+75.1N _____
 Length: 306 ft. _____
 Core Size: BQ _____
 Claim No: _____
 Township: _____
 Started: July 23, 1988 _____
 Logged by: W. Rowell _____

Asimuth: 360 degrees _____
 Dip: -50 degrees @ 0', 42 @ 306' _____
 Elevation: Surface, 989.8 _____
 Drill Company: Morrisette _____
 Completed: July, 25, 1988 _____
 Date Logged: July 25, 1988 _____



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	62.6	Overburden				
62.6	116.7	Quartz Diorite - Grey; medium grained; 25% quartz, 45% feldspar, 20% chloritized mafics; localized quartz flooding, 1% potassic alteration; locally slight foliation of mafics at 62 deg; <1% pyrite, <1% pyrrhotite				
		107.6 - 114.8 quartz flooded and feldspars totally sericitized				
116.7	142.2	Intermediate Tuff? - Dark grey; fine grained - size slightly larger toward the bottom; massive; slightly foliated near upper contact at 44 deg; 2% carbonate concentrated in fractured area between 163.0 and 167.8; lower contact 36 deg				
142.2	165.9	Quartz Diorite - Mottled black and white; medium grained; 40% subhedral to anhedral plagioclase, 40% subrounded quartz, 15% chloritized mafics; <1% fine to medium grained disseminated pyrite	162.7	164.2	109594	Trace
		142.2 - 144.4 fine grained				
		144.4 - 147.3 plagioclase sericitized, no mafics, core broken				
165.9	175.2	Intermediate Tuff - Same as 116.7 - 142.2				
175.2	178.5	Quartz Diorite - Same as 142.2 - 165.9; quartz flooded in last foot	176.1	178.1	109595	Trace
			178.3	180.8	109596	Trace

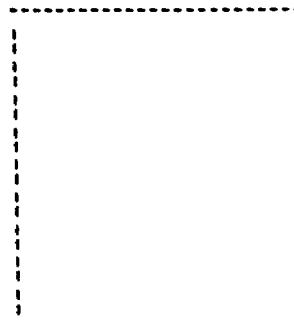
From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)	
178.5	189.4	Quartz-Sericite Schist - Greenish-grey; fine to medium grained; 45% subrounded quartz, 40% sericite; foliation 58 deg; 2% pyrite (up to 5% in concentrated areas) along foliation planes, <1% fine grained arsenopyrite	180.8	182.5	109597	Trace	
			182.5	186.0	109598	Trace	
			187.5	189.4	109599	0.24	
			186.4 fault gouge				
		183.1 - 187.6 core broken					
		187.5 - 188.7 blackish chert? <0.5% aspy, 0.5%py, 5% locally concentrated sericite					
189.4	191.7	Feldspar Porphyry - 15% white, medium grained, subhedral plagioclase in a dark matrix; <0.5% sulfide; lower contact 68 deg					
		190.5 - 190.6 quartz-sericite schist					
191.7	215.9	Silicified Basalt Intercalated with Quartz-Sericite Schist - fine grained;; pervasively silicified, 5% sericite; foliation at 60 deg; 5% pyrite, <0.5% arsenopyrite	191.4	193.4	109600	0.06	
			193.4	195.4	109601	0.20	
			195.4	197.4	109602	0.22	
			197.4	199.4	109603	0.46	
			199.4	201.4	109604	0.22	
			191.7 - 205.3 highly silicified with 7 - 10% pyrite and <1% arsenopyrite; strong foliation at 60 deg	201.4	203.5	109605	0.34
				203.5	205.5	109606	0.26
				205.5	207.6	109607	0.14
			205.8 - 206.6 30% biotite	207.6	209.6	109608	0.08
				209.6	211.7	109609	0.01
			211.7	212.9	109610	Trace	
215.9	223.3	Quartz Diorite - Greenish-grey; medium grained; 50% subhedral to anhedral feldspar, 30% quartz, 10% chloritized mafics; feldspars green from pervasive sericitization, 3% quartz along random fractures, slight potassic alteration of feldspars near end of unit; lower contact 65 deg					
223.3	235.5	Basalt Flow - Greenish-grey; very fine grained; 1% pyrite along fractures; pervasively chloritized	223.4	226.0	109611	Trace	
			226.0	229.0	109612	Trace	
			229.0	232.1	109613	Trace	
			234.4	236.0	109614	0.06	

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)	
235.3	260.2	Andesite or Silicified Basalt - Grey; fine to medium grained; locally porphyritic with up to 30% anhedral to subhedral medium grained feldspar in dark matrix; 2% quartz concentrated in quartz flooded area near upper contact 248.4 - 255.9 highly fractured with quartz flooding and up to 7% pyrite along fractures 257.3 - 259.5 5% pyrite along fractures	249.6	251.6	109615	0.01	
			251.6	253.7	109616	0.00	
				253.7	255.7	109617	0.24
				255.7	257.0	109618	0.00
				257.0	259.0	109619	0.04
			259.0	260.5	109620	0.06	
260.2	306.0	Basalt Flow - Same as 223.3 - 235.5; previous appears to grade into the basalt 268.0 - 268.5 brecciated with a quartz matrix 277.0 - 306.0 50% medium grained amphibole with 45% saussuritized plagioclase 286.2 - 286.6 60% quartz in fracture with 2% pyrite	286.2	287.3	109621	Trace	
		306.0 End Of Hole (Casing Left In)					

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 885-20
Page : 1

Property Owner: Twin Gold Mines Ltd. _____
 Grid location: 13+299.4E, 12+000.8N
 Length: 366 ft. _____ Dip: -45 degrees @ 0', 39 @ 300' _____
 Core Size: BQ _____
 Claim No: _____ Elevation: Surface, 9988.2 _____
 Township: _____ Drill Company: Morrisette _____
 Started: July 20, 1988 _____ Completed: July 23, 1988 _____
 Logged by: W. Rowell _____ Date Logged: July 23, 1988 _____



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	43.6	Overburden				
43.6	66.3	Basalt Flow - Dark greenish-grey; fine to medium grained; pervasively chloritized, 3 -5% biotite (locally concentrated), 2% quartz in thin fractures parallel to foliation planes; foliation 62 deg; trace sulfides; nonmagnetic	52.0	53.5	109564	Trace
66.3	68.2	Quartz-Feldspar Porphyry - Mottled dark greenish-grey and light grey; medium grained; 40% subhedral to euhedral orthoclase up to 6 mm in length, 30% subrounded quartz, 25% interstitial chlorite; slight pink potassic alteration of orthoclase, minor quartz flooding; 0.5% pyrite, trace arsenopyrite	66.3	68.2	109565	Trace
68.2	70.8	Basalt Flow - same as 43.6 - 66.3 lower contact 44 deg				
70.8	73.2	Quartz-Feldspar Porphyry - Same as 66.3 - 68.2 but with 1% pyrite lower contact 44 deg 72.8 - 73.2 quartz flooded	70.8	73.4	109566	Trace
73.2	74.7	Basalt Flow - same as 43.6 - 66.3				
74.7	75.2	Quartz-Feldspar Porphyry - Same as 66.3 - 68.2 quartz flooding in last inch with pyrite grain 5 mm in diameter				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
75.2	75.9	Basalt Flow - Same as 43.6 - 66.3 near lower contact mineral foliation 42 deg				
75.9	82.3	Quartz Diorite - Light grey; medium grained; 30% subrounded quartz, 35% feldspar, 30% chloritized slightly foliated mafics; 1% fine to medium grained pyrite	75.5	76.5	109567	Trace
		75.9 - 76.6 quartz-sericite schist	77.2	80.2	109568	Trace
82.3	92.6	Quartz-Sericite Schist - Greenish-grey; fine to medium grained; 45% sericite, 45% quartz; hematite staining over 10%, localized quartz flooding; 1% pyrite	80.2 88.7	83.2 91.7	109569 109570	Trace 0.01
92.6	97.5	Quartz Flooded Zone - 90% quartz, 5-10% sericite along fractures; <1% pyrite; lower contact 50 deg 95.9 - 96.3 hematite stained Q.F.P.	92.8	95.9	109571	Trace
97.5	162.9	Quartz Flooded Quartz-Feldspar Porphyry Intercalated with Quartz-Sericite Schist - Unit grades repeatedly from quartz-feldspar porphyry to quartz-sericite schist; heavily quartz flooded throughout; < 1% sulfide in both rock types	109.2 112.9 116.0	112.9 116.0 119.0	109572 109573 109574	Trace Trace 0.02
		128.9 - 145.1 over 50% of core is hematite stained	158.3	159.8	109575	Trace
		141.1 - 143.2 fine grained quartz-sericite very broken				
		158.7 - 159.2 black glassy quartz vein, unmineralized				
162.9	180.4	Quartz-Feldspar Porphyry - Grey; medium grained; 20% anhedral to subhedral orthoclase, 50% rounded to slightly flattened quartz; 20% interstitial mafics; orthoclase not developed throughout; 5% sericite concentrated locally, 5% quartz flooded; <0.5% sulfide 170.6 - 170.7 10% pyrite along a fracture				

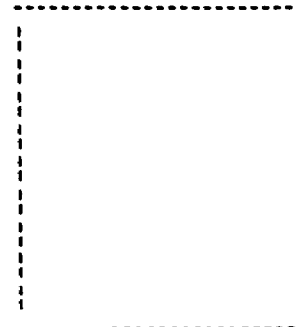
From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
180.4	201.7	Quartz-Sericite Schist - Greenish-brown; fine to medium grained; 50% sericite, 40% quartz, quartz ranges from fine grained to 7 mm in length; foliation 49 deg; trace sulfide				
201.7	215.4	Quartz Diorite - Same as 75.9 - 82.3, trace sulfide				
215.4	257.0	Quartz-Sericite Schist - Greenish-grey; fine to medium grained; 60% sericite, 35% fine grained quartz; localized hematite staining; foliation 59 deg; pyrite up to 1%; core very broken and some missing	236.0	241.0	109576	Trace
			241.0	246.0	109577	0.02
			246.0	251.0	109578	0.02
			251.0	255.4	109579	0.02
		255.4 - 257.0 brecciated and quartz flooded with 3% chlorite along fracture planes				
257.0	366.0	Basalt Flow - Dark greenish-grey; fine to medium grained; 5% quartz along fractures and in silicified zones, 5% biotite (locally concentrated), <1% epidote, pervasively chloritized in zones without biotite; moderately fractured, foliation 57 deg; <1% po, <1% pyrite - both primarily along fractures	266.0	269.0	109580	0.02
			269.0	272.0	109581	Trace
			272.0	275.0	109582	Trace
			286.0	287.5	109583	0.01
			296.0	299.0	109584	0.04
			299.0	302.0	109585	Trace
		257.0 - 261.6 core very broken				
		263.9 - 267.7 20% schistose biotite	302.0	305.0	109586	Trace
		286.0 - 296.0 only 7.5 feet of core				
		296.0 - 298.7 slightly silicified with 15% biotite and 1% pyrrhotite + pyrite	305.0	306.9	109587	Trace
		304.8 - 306.9 7% pyrite	306.9	308.7	109588	Trace
		306.0 - 306.9 cherty section				
		309.5 - 309.8 2% medium grained arsenopyrite	308.7	310.2	109589	Trace
		314.7 - 315.2 2% pyrite along fractures	313.0	316.0	109590	Trace
		321.3 - 366.0 medium grained green amphibole predominates	338.0	339.5	109591	0.16
			344.6	346.2	109592	Trace
		349.6 - 340.7 silicified with 10% biotite and 2% pyrite + pyrrhotite	346.2	350.0	109593	Trace
		344.8 - 345.1 50% quartz, 10% pyrite along fractures				
		366 - End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGHAM LAKE PROPERTY

Hole No: 88S-21
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 13400.1E/ 12029.9N
 Length: 336 ft.
 Core Size: BQ
 Claim No:
 Township:
 Started: July 17, 1988
 Logged by: W. Rowell

Azimuth: 360 degrees
 Dip: -45 degrees @ 0', 39 @ 336'
 Elevation: Surface, 9986.7
 Drill Company: Morrisette
 Completed: July 20, 1988
 Date Logged: July 22, 1988



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	77.8	Overburden				
77.8	78.7	Quartz-Feldspar Porphyry - Greyish-green; fine to medium grained; 35% subhedral orthoclase, 55% quartz, orthoclase sericitized; foliation 46 deg; < 1% pyrite				
77.8	83.0	Sericite Schist - Brownish-green; 30% sericite, 50% fine grained mafics; schistosity 40 deg and slightly kinked; non-mineralized, core broken and some missing				
83.0	86.1	Porphyritic Intermediate to Felsic Hypabyssal Dike - Dark grey; 15% fine to medium grained subhedral to euhedral plagioclase in plagioclase and mafic matrix, 2% biotite; < 1% pyrite; core broken and recovery poor; lower contact 41 deg				
86.1	88.1	Quartz Flooded Feldspar Porphyry - Greyish-green; feldspars only rarely developed, quartz flooded over 60% of unit; 1% coarse grained pyrite in masses	86.1	88.1	109522	Trace
88.1	102.9	Porphyritic Intermediate to Felsic Hypabyssal Dike - Same as 83.0 - 86.1 but more broken and sericitized				
		94.5 - 95.0 Quartz-Feldspar Porphyry				
		97.1 - 97.4 Quartz-Feldspar Porphyry				
		102.0 - 102.5 Quartz-Feldspar Porphyry				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
102.9	134.9	Quartz-Sericite Schist - Greenish-grey; localized quartz flooding; locally intense hematite staining; schistosity 48 deg; <1% pyrite; core very broken and recovery poor				
		102.9 - 107.2 quartz flooded with 1% medium grained pyrite	103 106.0	106 109.0	109523 109524	Trace Trace
		116.7 - 119.8 pervasive hematite staining				
134.9	140.8	Intermediate Volcanic? - Greenish-grey; fine grained; massive; no carbonate or quartz; slight foliation at 58 deg; no sulfide; lower contact 53 deg				
140.8	149.3	Quartz-Sericite Schist - Brownish-green; 30% sericite, 60% rounded to slightly flattened quartz; schistosity 61 deg; <1% pyrite; 10% quartz flooded; 1% carbonate in quartz flooded areas	140.9 143.9 146.9	143.9 146.9 149.5	109525 109526 109527	Trace 0.01 0.04
149.3	215.8	Quartz Diorite Intercalated with Quartz-Sericite Schist - 60% quartz-sericite schist, 40% quartz diorite, units grade into each other; schistosity 66 deg, localized quartz flooding and hematite staining, 1% epidote; 1% pyrite	149.5 162.9 166.0 169.0 172.7	152.5 166.0 169.0 172.7 175.7	109528 109529 109530 109531 109563	Trace 0.08 0.14 Trace 0.01
		182.9 - 191.3 pervasive hematite staining, sericite schist degenerated to fine grained quartz in a clay matrix;				
		196.0 - 206.0 broken core and 5 feet missing				
		203.5 - 204.0 60% brecciated quartz in finer grained quartz-sericite matrix	204.0	205.3	109532	0.16
		203.5 - 214.3 5 - 7% pyrite and 1% arsenopyrite in siliceous quartz-sericite schist, medium to fine grained pyrite and fine grained arsenopyrite occur along cleavage planes	205.3 208.0 210.0 212.0 214.0	208.0 210.0 212.0 214.0 216.0	109533 109534 109535 109536 109537	0.24 0.22 0.30 0.24 0.10
		211.0 - 214.3 core very broken and recovery poor, 1 foot missing	216.0	218.0	109538	0.02
215.8	220.2	Feldspar Porphyry - Dark grey; fine to medium grained; 20 % subhedral plagioclase in dark matrix; quartz flooding over 20% of the core; the last 1.5 feet is sericitized, 2% chlorite in more mafic areas; 1% pyrite; lower contact 69 deg	219.8	222.8	109539	0.06

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
220.2	336	Basalt Flow - Dark greenish-grey, fine to medium grained; locally silicified with up to 10% biotite in silicified areas; 2% quartz along thin fractures; <1% pyrite, <1% pyrrhotite; slightly magnetic due to pyrrhotite				
		223.2 - 223.7 silicified with 3% pyrite	222.8	223.8	109540	0.02
			223.8	225.8	109541	0.04
		230.0 - 232.3 slightly silicified with 15% biotite; 1% pyrrhotite + pyrite	226.7	229.7	109542	0.10
			229.7	232.7	109543	0.06
			232.7	235.7	109544	0.04
		236.1 - 238.6 3% quartz along kinked foliation, silicified throughout and 1% pyrrhotite, <1% pyrite	235.7	238.7	109545	0.04
			251.3	253.3	109546	0.04
		251.3 - 254.9 slightly silicified with 2% pyrrhotite + pyrite primarily associated with quartz veins <1 cm wide along fractures	253.3	255.1	109547	0.06
			255.1	258.0	109548	0.08
		254.9 - 260.7 pervasively silicified with 3 - 5% pyrite + pyrrhotite and trace arsenopyrite				
			258.0	259.5	109549	0.86
		258.3 - 259.4 quartz flooded with chlorite and 2% pyrrhotite + pyrite along fractures	259.5	260.7	109550	0.14
			260.7	262.2	109551	0.08
		259.4 - 260.7 quartz flooded along foliation planes at 42 deg, 7% fine grained pyrrhotite + pyrite	262.2	265.2	109552	0.02
		262.2 fault gouge	265.2	268.0	109553	0.06
			268.0	271.1	109554	0.02
		266.4 - 266.6 15% pyrite along fracture plane				
		266 - 366 unit becomes predominantly medium grained greenish amphibole with fine to medium grained saussuritized plagioclase	279.0	280.2	109555	0.04
		279.4 - 279.9 quartz flooded with 3% pyrite				
			296.3	299.5	109556	Trace
		299.6 - 300.6 10% quartz along 1 cm vein almost parallel to core axis	299.5	301.0	109557	Trace
			301.0	303.0	109558	Trace
			317.7	319.7	109559	Trace
		319.8 - 322.0 40 % quartz clasts up to 2 cm in diameter from 319.8 to 321.4, from 321.4 to 322.0 quartz vein, 1% pyrite, <1% pyrrhotite	319.7	322.0	109560	0.02
			322.0	325.0	109561	0.01
			328.9	330.9	109562	0.02
		336.0 End Of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGHAM LAKE PROPERTY

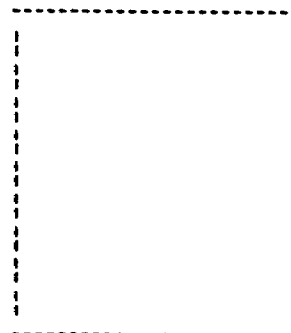
Hole No: 88S-22

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 13498.9E/ 12977.1N _____
 Length: 326 ft. _____
 Core Size: BQ _____
 Claim No: _____
 Township: _____
 Started: July 15, 1988 _____
 Logged by: W. Rowell _____

 Azimuth: 360 degrees _____
 Dip: -45 degrees @ 0', 39 @ 300' _____

 Elevation: Surface, 9984.9 _____
 Drill Company: Morrisette _____
 Completed: July 17, 1988 _____
 Date Logged: July 17, 1988 _____



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	79.2	Overburden				
79.2	103.9	Quartz-Feldspar-Porphyry - Grey, medium to fine grained, 40% plagioclase, 30% quartz, 15% mafics, quartz flooding throughout. Locally intense shearing at 45 deg, sericite developed in sheared areas, 2% pyrite and 1% arsenopyrite (locally up to 5% of each)	79.2	82.8	110743	tr
			82.8	86.6	110744	tr
			86.6	89.3	110745	tr
		At 80.9 schistosity increases	89.3	92.3	110746	tr
		85.0 - 85.8 hematite staining	92.3	95.3	110747	tr
		91.0 - 98.6 decreasing grain size and sericitization of feldspars	95.3	96.6	110748	0.10
			96.6	99.6	110749	tr
		95.5 - 96.7 5% medium grained granular arsenopyrite and 5% pyrite in quartz flooded zone	99.6	102.9	110750	tr
		96.7 - 98.0 quartz-sericite schist				
		101.6 - 102.0 quartz flooded area with 2% pyrite				
103.9	116.9	Basalt Flow - greyish-green, fine grained, locally sheared at 60 deg, 2% chlorite in patches, trace pyrite				
		111.3 - 111.8 sericite schist				
116.9	123.0	Quartz-Sericite Schist - Greenish-grey, 45% slightly flattened quartz, 45% sericite, schistosity 53 deg, 1% pyrite, trace arsenopyrite	117.4	120.4	110751	0.12
			120.4	123.0	110752	tr
126.0	126.1	Basalt Flow - Same as 103.9 - 116.9				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
126.1	148.5	Quartz-Sericite Schist - Same as 116.9 - 123.0	126.0	129.0	110753	tr
			129.0	132.0	110754	tr
		2 feet of core missing between 126 and 136	132.0	135.0	110755	0.10
			135.0	138.0	110756	tr
			138.0	141.0	110757	tr
			141.0	144.0	110758	0.64
			144.0	148.0	110759	0.12
148.5	202.8	Silicified Basalt - Dark greyish-green, aphanitic, strongly foliated near upper contact at 46 deg, silicified throughout and highly silicified locally, <1% carbonate, 2% pyrite along fractures, <1% arsenopyrite, <1% pyrrhotite, slightly magnetic due to pyrrhotite	148.0	150.0	110760	0.22
			150.0	152.0	110761	0.34
			152.0	154.0	110762	0.24
			154.0	156.0	110763	0.28
			156.0	158.8	110764	0.30
			158.8	161.0	110765	tr
			161.0	163.5	110766	0.18
		148.4 - 159.1 highly silicified with 3% pyrite and 0.5% arsenopyrite	163.5	166.0	110767	0.14
			166.0	168.5	110768	0.10
			168.5	171.0	110769	0.10
		192.0 - 193.2 highly silicified with 3% pyrite	171.0	173.5	110770	tr
			173.5	176.0	110771	tr
			176.0	179.0	110772	0.16
			179.0	182.0	110773	0.01
			182.0	185.0	110774	tr
			185.0	188.0	110775	tr
			188.0	191.0	110776	tr
			191.0	193.0	110777	0.26
			193.0	196.0	110778	0.16
			196.0	199.0	110779	0.10
			199.0	202.0	110780	tr
202.8	276.9	Basalt Flow - Greenish-grey, fine to medium grained, 50% medium grained greenish amphibole, 45% saussuritized plagioclase, <1% carbonate, <1% epidote, 1% quartz veins at 80 deg, <1% pyrite (locally concentrated)	202.0	205.0	110781	tr
			213.4	215.4	110782	tr
			245.8	247.2	110783	0.14
		214.3 - 214.5 20% pyrite along fractures	249.9	251.4	110784	0.16
		245.8 - 247.2 2% pyrite				
		250.3 - 251.0 2% pyrite				
276.9	283.2	Porphyritic Andesite - Grey, aphanitic with 15% medium grained feldspars, minor shearing at 30 deg, trace sulfides				
283.2	294.5	Basalt Volcanic - Same as 202.8 - 276.9				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
294.5	310.2	Porphyritic Andesite - Same as 276.9 - 283.2, slight epidotization of feldspars				
310.2	326.0	Mafic Volcanic - Same as 202.8 - 276.9	311.3	313.3	110785	tr
		313.7 - 314.2 1% medium grained pyrite				
		326.0 End Of Hole				

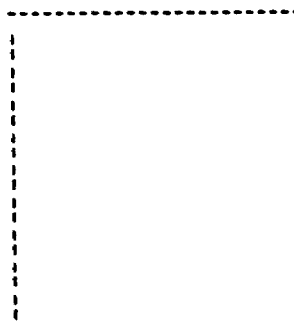
DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-23
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 13599.5E/ 12077.9N
 Length: 350 ft.
 Core Size: BQ
 Claim No:
 Township:
 Started: July 17, 1988
 Logged by: W. Rowell

_____ Azimuth: 360 degrees
 _____ Dip: -50 degrees @ 0', 45 @ 350'

_____ Elevation: Surface, 9981.5
 _____ Drill Company: Morrisette
 _____ Completed: July, 18, 1988
 _____ Date Logged: July 19, 1988



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	65.8	Overburden				
65.8	72.1	Sericite Schist - Greyish-green, fine to medium grained, 40% sericite and 50 % quartz, schistosity 38 deg, 1% pyrite along shear planes, <1% carbonate	65.8	68.8	110786	tr
			68.8	72.3	110787	tr
72.1	74.0	Basalt Flow - Dark greyish green, fine grained, slightly foliated at 45 deg, 1% quartz in tension gashes, 1% fine grained pyrite, lower contact at 51 deg.	72.3	74.2	110788	tr
74.0	77.2	Sericite Schist - Greyish-green, fine to medium grained, 35% sericite and 55% mafics, schistosity 55 deg, 1% pyrite				
77.2	78.6	Quartz-Feldspar Porphyry - Light greyish-green, medium grained, 50% feldspar, 30% slightly flattened quartz, 10% mafics, slight sericitization of feldspars, slight schistosity at 48 deg, <1% sulfide				
78.6	100.6	Basaltic Flow - Dark green, fine grained, slight foliation at 60 deg, 1% pyrite along foliation planes, 1% quartz in thin veins along foliation planes, upper contact 45 deg	78.6	81.6	110789	tr
			81.6	84.6	110790	0.14
			84.6	87.7	110791	0.02
			87.7	90.7	110792	tr
		82.1 - 83.1 quartz-sericite schist and feldspar porphyry				
		96.0 - 106.0 core broken and 2 feet missing				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
100.6	106.0	Feldspar Porphyry - 20% white, medium grained, feldspar in a dark, fine grained, matrix; <1% sulfide core is broken and recovery poor				
		102.2 fault gouge				
106.7	164.2	Quartz-Sericite Schist - Greenish-grey to pinkish-grey, fine to medium grained, 35% sericite, 45% quartz, locally quartz flooded, locally intense hematite staining, <1% pyrite, schistosity 42 deg, core broken up	106.0	107.0	110793	tr
			126.0	129.0	110794	tr
			129.0	132.0	110795	0.01
		115.5 - 115.6 granite dike	132.0	135.0	110796	0.02
		136.0 - 166.0 core very broken up				
164.2	218.3	Basalt Flow - Greyish-green, fine to medium grained, locally chloritized and silicified, 1% carbonate, slightly foliated at 39 deg, 1% pyrite along fracture and foliation planes	164.2	167.2	110797	0.10
			167.2	170.2	110798	tr
			170.2	173.2	110799	0.01
			173.2	176.2	110800	tr
			176.2	179.2	109501	tr
		182.6 - 183.1 highly silicified (or more felsic rock?) with 5% fine grained arsenopyrite and 3% pyrite	179.2	182.6	109502	0.01
			182.6	183.6	109503	0.08
			183.6	186.6	109504	0.04
			188.4	191.4	109505	0.16
		205.3 - 208.5 10% quartz flooding with 5% pyrite along fractures	191.4	194.4	109506	tr
			194.4	197.4	109507	tr
			203.3	205.3	109508	tr
		207.2 - 218.3 more silicified with 2% pyrite and <1% fine grained arsenopyrite (in cubes and needles)	205.3	208.5	109509	tr
			208.5	210.5	109510	0.08
			210.5	212.5	109511	0.12
			212.5	214.5	109512	0.16
			214.5	216.5	109513	0.22
			216.5	218.5	109514	0.12
218.3	329.0	Medium Grained Basalt - 60% medium grained green amphibole and 35% fine to medium grained, greyish, saussuritized, amphibole; 2% quartz in veins up to 0.4 ft wide, <1% carbonate, <1% epidote, 1% biotite, <1% pyrite, trace galena and pyrrhotite	218.5	221.5	109515	tr
			221.5	224.5	109516	tr
			232.6	234.1	109517	0.02
			238.1	240.1	109518	tr
			277.6	279.6	109519	tr
			281.4	282.4	109520	tr
		232.9 - 233.5 quartz vein with 3% pyrite				
		239.3 galena associated with quartz				
		278.4 - 279.2 3% pyrite				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
329.0	350.0	Porphyritic Andesite - Hot leopard rock, 15% medium grained feldspars in dark, fine grained, matrix; massive, <0.5% sulfide	336.8	339.1	109521	tr
		336.6 - 337.8 basalt similar to 218.3 to 329.0				
		338.4 - 339.1 5% medium grained pyrite				
		350.0 End Of Hole				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-24

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 12300.9R/ 11616.9N
 Length: 994 ft.
 Core Size: BQ
 Acid Tests: 0' - 68.5 @ 360,
 300-60°; 600-52°; 900-47°
 Started: July 14, 1988
 Logged by: R. Anderson

Tropari Tests: 0' : 67.5 @ 002°
 394' : 60 @ 006° 694' : 51 @ 002°
 994' : 47 @ 032 (magnetic rock)
 Elevation: Surface, 9983.8
 Drill Company: Morrisette
 Completed: July 18, 1988
 Date Logged: July 18, 1988

Other Tests: 59 @ 003 - 400; 49 @ 001 - 700; 44 @ 006 - 990

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	10	Casing. Boulders of chloritized basalt.				
10	22.3	Chloritized Basalt. Dark green. Medium-grained with chloritized actinolite?. Trace of disseminated pyrite. Well foliated at 31°.	18	22.3	109129	tr
22.3	54.5	Chloritized Basalt with Mineralization. Averages 2-3% pyrite, 1% arsenopyrite.	22.3	25	109130	tr
			25	28	109131	tr
			28	31	109132	0.01
		28-31 Arsenopyrite to 1/4", euhedral grains, 2%.	31	35	109133	tr
		Basalt becomes magnetic.	35	36	109134	0.06
		31-33 Stretched pyrite, 3%, well foliated at 34°.	36	38.8	109135	0.18
		33-35 Basalt is carbonatized, stringer pyrite, 1%.	38.8	40.1	109136	0.01
		Disseminated arsenopyrite 1%.	40.1	44.5	109137	0.32
		35-36 2% arsenopyrite	44.5	47.4	109138	0.06
		36-38.8 Stringer pyrite, pyrrhotite 5-10%.	47.4	50.8	109139	tr
		Arsenopyrite, euhedral, in bands, 4% . Grains are rotated and show pressure shadows.	50.8	54.5	109140	0.02
		38.8-40.1 Pale green quartz-carbonate zone. Salvage material?				
		40.1-44.5 50% bands of quartz-carbonate, 3% stringer pyrrhotite, 3% stringer pyrite, 2% disseminated euhedral pyrite.				
		44.5-47.4 As at 40.1 but with no quartz-carbonate.				
		47.4-50.8 Arsenopyrite to 3%, pyrite is 3-5%.				
		50.8 Fine disseminated pyrite, arsenopyrite, 1% maximum.				
54.5	59	Grey Quartz.. Fine-grained, massive.	54.5	56	109141	tr
		55.2-55.7 Irregular masses of pyrite with chlorite, 10-25%.	56	59	109142	0.01

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
59	355.4	Chloritized Basalt. As at the top of the hole but fine-grained. Well foliated at 26°.	59	61.2	109143	tr
			61.4	63.4	109144	tr
		59-61.2 Chloritic with minor irregular masses of pyrite-pyrrhotite.	63.4	66.6	109145	tr
		61.2-63.4 Up to 5% disseminated arsenopyrite.	65.6	66.5	109146	tr
		Biotization bands oriented at 45°.	66.5	71	109147	tr
		65.6-66.5 Shear. Chloritic with stretched pyrite 25%.	71	75	109148	tr
			75	80	109149	0.01
			91	93	109150	tr
			93	96	109151	tr
		Stretched pyrite-pyrrhotite approximately 1-2% to 93	96	98	109152	tr
		93-96 Stretched pyrite, 3%.	98	101	109153	0.02
		96-101 Increasing silicification to 101. Grey sharp lower contact. 96-98 pyrite, 2-3%.	101	104	109154	tr
		98-101 2% Arsenopyrite, disseminated pyrite	124.5	127	109155	tr
			127	129.5	109156	0.12
			196.5	201.5	109157	tr
		Below 101 The rock is uniform, dark green, with 5-10% quartz, quartz-carbonate veins - some veins conformable. Trace of pyrite, non-magnetic	201.5	204	109158	tr
			204	207	109159	tr
			207	209	109160	tr
		196.5-201.5 Chloritic shears, 2-3% pyrite. Oriented at 27 deg.	209	212	109161	tr
			212	216	109162	tr
		207-212 Chloritic shear with disseminated arsenopyrite, 2%.	304	307.5	109163	tr
			307.5	309.1	109164	0.02
		213 Silicified. The rock is remarkably uniform.	309.1	313	109165	tr
		285-293 Light and dark green bands. (chlorite-carbonate) Subtle and fine-grained.	313	314.3	109166	tr
			314.3	317	109167	tr
		293-301 Porphyritic flow or tuff unit. Almost 30% paler green, medium grained shard-like carbonate-altered masses. Foliated at 37 deg. Otherwise like the foliated flow material above it.	317	321	109168	tr
			321	325	109169	tr
			325	326	109170	0.12
			326	327.3	109171	0.18
		307-309.1; 313.1-314.3 Sheared chloritic, brecciated carbonate veins with 10-15% stringer pyrite.	327.3	330.7	109172	0.10
			330.7	333.5	109173	tr
			333.5	337	109174	tr
		323 2% stringer pyrite with 1/2" quartz veining.	337	338.7	109175	tr
		325-327.3 70% grey, fine-grained quartz with chlorite.	338.7	342	109176	0.50
			342	344.6	109177	0.10
		326-327.3 5-10% pyrite, pyrrhotite.	344.6	346.4	109178	0.14
		327.3-330.7 Distorted chlorite and pyrite pyrrhotite stringers 10-20%	346.4	351	109179	tr
			351	355.4	109180	tr
		330.7-333.5 60% white-grey fine-grained quartz with less than 5% stringer pyrite, pyrrhotite.				
		338.7-342; 344.7-357.4 60% silica with chlorite and stringers of pyrite-pyrrhotite, 10%. Minor amounts of sulphides in between these zones.				
355.4	370.4	Sheared quartz-feldspar-porphyry. Starts out with quartz flooded quartz-feldspar-porphyry eventually loose the porphyritic texture after the first foot and				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		then eventually becomes very fine-grained and uniform. Shearing is at roughly 30° No apparent sulphides.				
370.4	474.3	Chloritized Basalt as previous. Non-calcareous, non-magnetic. Chloritized with up to 10% irregular and conformable carbonate veins up to 1/2" thick. Very uniform.	401	402	109181	tr
			402	404	109182	0.01
			414	417	109183	tr
			417	418.7	109184	0.10
			418.7	421	109185	tr
		401-402 Sheared carbonate and chlorite with 2% stringer pyrrhotite	455	458	109186	tr
			458	459.3	109187	0.10
		417-418.7 As at 401 but with 1% chalcopyrite.	459.3	462.8	109188	0.20
		458-459.3 Silicified, fine-grained, foliated at 27°. 2% arsenopyrite in bands.	462.8	466.4	109189	0.12
			466.4	468	109190	0.10
		459.2-463.8 6" salvage-like material the rest is grey fine-grained quartz with 1% pyrite.	468	471.4	109191	tr
			471.4	474.3	109192	0.10
		462.8-466.4 Chlorite, silicified. Up to 10% arsenopyrite in bands. 2-3% Stringers of pyrite				
		466-471.2 Chloritized basalt. Trace of disseminated pyrite and arsenopyrite				
		471.2-474.3 Identical to 462.8				
474.3	595	Silicified basalt. Greyer, hard, fine-grained, with quartz-feldspar-porphry veins up to 2" thick. No carbonate veining. Non-calcareous, non-magnetic. Foliated at 30°.	474.3	477	109193	tr
			477	479	109194	tr
			531	533	109195	tr
			533	535	109196	tr
			535	538	109197	tr
		533-535 Very siliceous with 2% pyrite as masses and stringers. Minor fine disseminated arsenopyrite.	541	543.4	109198	tr
			543.4	545.4	109199	0.10
		543.6-545.4 Shear with silicification and a cherty quartz vein.	545.4	549	109200	tr
			566	568.4	109201	0.01
		568.4-569 Shear with disseminated pyrite, 2% and a trace of fine disseminated arsenopyrite.	568.4	569	109202	tr
			569	571	109203	tr
		579.6-580.5 Shear with 2' quartz-feldspar-porphry vein	576	579.6	109204	tr
			579.6	580.5	109205	tr
		593.6-595 Chloritic gouge with 5% pyrite and pyrrhotite. Oriented at 42°.	591	595	109206	0.01
595	662	Silicified quartz-feldspar-porphry. Relatively uniform, pale, quartz flooded with 3/8" quartz and feldspar phenocrysts. Also 2% angular fractures containing sericite and some cataclasts. Fractures are roughly parallel to the core axis making for difficult drill. The first 3' of this unit appears to have infolded silicified basalt zones.	595	599	109207	tr
			606	610	109208	0.01
			610	614	109209	tr
			614	618	109210	tr
			618	622	109211	tr
			644	647	109212	tr
			647	649	109213	0.01
			649	652	109214	tr
			652	656	109215	tr

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		606-649 Fine disseminated pyrite and arsenopyrite up to 1%.	656 660	660 662	109216 109217	tr tr
		647-649 Breccia related to the chloritic gouge at 348. Gouge oriented at 42°.				
		660-662 Nylonite. Cryptocrystalline matrix with randomly oriented angular quartz fragments to 1" long.				
662	708	Silicified Basalt as previous. Veins up to 8" thick of quartz-feldspar-porphyry. Foliated at 50°. First 4 feet are very sheared with chlorite, silicification bands and stringers and masses of pyrite, 2%	662 666 699 701.6 704.4	666 669 701.6 704.4 707	109218 109219 109220 109221 109222	0.02 tr tr tr tr
		684-686 Zone of quartz-feldspar-porphyry. 701.6-704.9 Chloritized with silicification zones and carbonate alteration. 2% stringers and disseminations of pyrite. Foliated at 44°				
708	715.7	Fractured quartz-feldspar-porphyry. With quartz flooding. Strongly foliated at 35 or 48°.				
715.7	718	Silicified Basalt				
718	728	Quartz-feldspar-porphyry. "Cleaner" than previous units of the same rock type. No quartz flooding. Foliated slightly at 42°. Pale, almost white. Subhedral orthoclase.				
728	845	Silicified Basalt, as previous. With zones of quartz-feldspar-porphyry from 1/4" to 3" thick making up 15% of the core. 747-749.7 3% pyrite in seams and stringers. 752 Minor disseminated pyrite, arsenopyrite. Very uniform below 850 with chloritized basalt. Fine to medium-grained with intermittent zones of quartz-feldspar-porphyry and silicified quartz-feldspar-porphyry. Almost no sulphides. 784- 784.6 Sheared with carbonate and 2% masses of pyrite. Shearing at 46°. 792 Massive, medium-grained. 794.7-801.5 Silicified quartz-feldspar-porphyry with sericite and 2-3' of biotite-calcite alteration and 1% disseminated pyrite above and below the porphyry. 817-821.5 Biotite-calcite alteration between two quartz-feldspar-porphyry zones. no apparent sulphides.	744 747 749.7 782 784 784.6 784.6 799 801.5 817	747 749.7 753 784 784.6 787 801.5 804.5 821.5	109223 109224 109225 109226 109227 109228 109229 109230 109231	tr tr tr tr tr tr 0.01 0.01 tr

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)	
845	868.3	Fractured quartz-feldspar-porphyry. Some quartz flooding with potassium alteration. Up to 40% chloritic fractures. In the bottom 10 ft of the unit there is up to 2% pyrite in fractures.	856	858.9	109232	tr	
			858.9	860.5	109233	tr	
			860.5	865	109234	tr	
			865	868.3	109235	tr	
		858.9-860.5 Small zone of chloritized basalt. foliated at 45°					
868.3	889.5	Altered Basalt with mineralization. Starts as chloritized basalt. Similar to basalt at 370.4	868.3	872	109236	tr	
			872	874	109237	tr	
			874	875.5	109238	tr	
		872-874 Zone of very fractured chloritized quartz-feldspar-porphyry. Disseminated stretched pyrite 1%.	875.5	878	109239	0.14	
		878	880	109240	0.24		
		875.5-880 Zone of mineralization with intense silicification. Cherty with foliation at 60°. Grey with stringers of pyrite, pyrrhotite up to 5%. Trace of chalcopyrite.	880	883.5	109241	0.04	
			883.5	886	109242	tr	
			886	888.5	109243	tr	
			888.5	889.5	109244	0.01	
		880-883.5 Chloritized basalt with stringers of pyrite and pyrrhotite up to 5%. Trace of chalcopyrite.					
		883.5-888.5 Silicified basalt. With chloritic banding on the scale of 1/8" or less. Oriented at 60°. With disseminated pyrite up to 5%. Fine to medium-grained pyrite. Trace of sphalerite.					
		880.5-889.5 Gougey, broken basalt, with chlorite and carbonate					
889.5	932	Basalt. Magnetic zones near upper contact Dark green-grey. Mafic minerals are slightly chloritic. Uniform. Slightly foliated at 42 degrees. Trace of disseminated pyrite. Minor epidotization and chloritization associated with small shears	889.5	893	109245	tr	
932	994	Feldspar Porphyry. "Leopard Rock" 30% orthoclase phenocrysts, up to 1" long in a medium-grained basaltic matrix. Matrix is similar to the previous unit. Non-magnetic No obvious sulphides except for a pyrrhotitic fracture-fill at 944.3.	941	944	109246	tr	
			944	944.5	109247	0.02	
			944.5	946	109248	tr	
			991	992	109249	tr	
994		End of Hole. Casing left in hole.					

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-25

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 12200.8E/ 11611.1N Azimuth: 360 degrees
 Length: 1174 ft. Tropari Tests: 700359 - 270; 660020 - 870
 Core Size: BQ 580024 - 1170'
 Acid Tests: 75° - 0'; 71° - 300' Elevation: Surface, 9983.9
 67° - 600'; 65 - 900' Drill Company: Morrisette
 Started: July 18, 1988 Completed: July 24, 1988
 Logged by: R. Anderson Date Logged: July 31, 1988

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	6	Casing with silicified basalt.				
6	104.6	Silicified Basalt. Dark bluish green, fine-grained, medium- grained at the top of the unit. Very uniform. With minor carbonate and/or quartz-carbonate veining. Relatively massive	21	22.8	109250	0.01
			22.8	24	109251	0.01
			24	26	109252	tr
			43	46	109253	tr
			46	47	109254	tr
		22.8-24; 46-47 Minor chloritic shear with 2% stretched pyrite grains. Stretched at 30°	47	50	109255	0.01
			75.5	79.8	109256	0.01
		62-67.5 Biotization with good strong foliation	79.8	83.2	109257	0.10
		75.5 Internal contact. Well foliated for the next 30 feet with thin banded chlorite, biotite and minor carbonate. Oriented at 30°. With stretched pyrite-pyrrhotite and trace of sphalerite in seams, 2-3%.	83.2	86	109258	tr
			86	89	109259	tr
			96	98	109260	tr
		79.8-83.2 Very silicified with stringers and blebs of pyrite. Bands of calcite up to 1" parallel to the foliation at 30 to 40°.	98	99	109261	tr
			101	104.6	109262	tr
		86-89 60% white calcite with chloritized basalt. Possible salvage zone.				
		95-96 Biotized, crenulated, distorted parallel to core axis.				
		98-101 Shearing with 30% white calcite				
		98-104 Biotite, 20% and pyrite, pyrrhotite, 3-5% associated with calcite veining.				
104.6	129.5	Chloritized basalt grading in to what appears to be an intermediate porphyritic flow. White dispersed medium-grained plagioclase 5-10%. Very hard and massive. Sharp lower contact. Contains masses of chloritized medium-grained basalt which could be xenoliths.	104.6	107.6	109263	tr
			107.6	112.1	109264	0.01
			126	128.7	109265	0.01
			128.7	129.7	109266	tr

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		120.5 Epidote-filled fracture.				
		128.7-129.7 1-2% fine disseminated pyrite.				
128.5	154	Chloritized Basalt. Dark green. Fine-grained. Massive or well-foliated at 30°. Non-calcareous. Non-magnetic. No obvious sulphides.	129.7 131 146 148	131 134 148 149.5	109267 109268 109269 109270	tr tr tr 0.01
		129.7-131 Distorted, calcareous, chlorite with stringers of pyrite. 5%.	149.5 152.5	152.5 153.8	109271 109272	tr tr
		148-149.5 1/2" Fracture-filled with calcite and pyrrhotite.				
		151 6" white quartz vein and chalcopryite with 10% massive pyrrhotite and 1% chalcopryite.				
		152 2 veins of 50% quartz, 45% pyrrhotite and 5% chalcopryite oriented at 24° and each about 1 1/2" thick.				
154	262.1	Silicified basalt as at the top of the hole. Dark bluish green, hard and uniform. non-calcareous and non-magnetic.	153.8 197 213 216	156 200 216 217.2	109273 109274 109275 109276	tr tr tr tr
		164 Minor shear with chlorite biotite and calcite.	217.2	220	109277	tr
		197-200 Dark, chloritic with stringers of disseminated pyrite, 1%.	234 236.5	236.5 237.2	109278 109279	tr tr
		216-217.2 Chlorite, biotite and calcite, Stringers of pyrite and pyrrhotite, 5%. Foliated at 20-40°. Crenulated and distorted.	237.2	240	109280	tr
		238.5-237.2 Shear with chlorite, biotite and calcite. 5% stringers of pyrite.				
262.1	265.7	Sub-volcanic porphyritic intrusion. Intermediate and identical to the flow material at 120 feet. Dispersed medium-grained plagioclase 15%.				
265.7	425.1	Chloritized Basalt. As previous. Foliated at 30°.	286	288.6	109281	tr
		286-297 Zone of carbonate veining with associated pyrite, pyrrhotite and minor chalcopryite totalling 2-3%.	288.6 292.6 344 346	292.6 296 346 347	109282 109283 109284 109285	tr tr tr tr
		This unit is very uniform and boring.	347	350	109286	tr
		346-347 Calcite-filled fractures, 10-15% with 10% pyrite, minor pyrrhotite.				
		354 Becomes magnetic. Likely due to minor dispersed pyrrhotite.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		397.5-400 Chloritized basalt. Sheared with stringers	395	397.5	109301	Trace
		of pyrite, 3%. Up to 2% fine disseminated	397.5	400	109302	0.28
		arsenopyrite	400	404	109303	0.06
		400 8" grey, fine-grained quartz vein	404	406	109304	0.02
		404-406 Shearing with 2% pyrite-pyrrhotite and a	406	406.6	109305	0.12
		trace of arsenopyrite.	406.6	410.5	109306	0.04
		406-406.6 Shearing with 40% silica and 5% pyrite-	410.5	412.5	109307	0.26
		pyrrhotite, 2% fine arsenopyrite.	412.5	414.5	109308	0.20
		406.6-410 Distorted. Some brecciation. pyrite,	414.5	416.5	109309	0.10
		pyrrhotite and arsenopyrite, 2%.	416.5	418.5	109310	0.12
		410.5-420.5 Silicification, quartz-60%, Biotized,	418.5	420.5	109287	0.12
		chloritized. Stringers of pyrite and pyrrhotite up to	420.5	422.5	109311	0.08
		2%. Arsenopyrite, 2-3% as fine needles or as fine	422.5	425.1	109312	Trace
		disseminated grains. Foliation is distorted at 10-20°				
		420.5-425.1 As at 410.5 but with white calcite				
		brecciation, 10%.				
425.1	436	Grey silicified feldspar porphyry. Sheared. Some	425.1	427	109313	Trace
		biotite. Foliated at 40°. Schistose. Trace of fine	427	430	109314	0.06
		pyrite, arsenopyrite near lower contact. Also epidote	430	433	109315	Trace
		fractures.	433	436	109316	Trace
436	703	Dark green chloritized basalt. Fine to medium-	436	440	109317	Trace
		grained. Uniform. 2-3% irregular white carbonate-	446	448.9	109318	Trace
		filled fractures. Slight foliation at 28°. Trace of	448.9	449.6	109319	Trace
		pyrite. Non-magnetic. Non-calcareous.	449.6	453	109320	Trace
			490	495	109321	Trace
		448.7-449.6 Slight shearing at 36° with stringers	493	495	109322	0.01
		of pyrite and pyrrhotite, 5%	495	498	109323	Trace
		460-470 Get 5%, 1/2" conformable quartz-feldspar-	503	506.5	109324	Trace
		porphyry veins with minor associated stringers of	506.5	507.4	109325	0.06
		pyrite-pyrrhotite.	507.4	509.5	109326	Trace
		495-495 Grey silicification with 1/4" mylonitic	509.5	511.6	109327	Trace
		fractures parallel to core axis. Also pyrite-	511.6	512	109328	Trace
		pyrrhotite, 2% and trace of fine disseminated	512	514	109329	Trace
		arsenopyrite.	538	541	109330	Trace
		506.5-507.4 Silicified shear with pyrite-	541	543	109331	0.14
		pyrrhotite-arsenopyrite, 5%.	543	546	109332	0.06
		511.6-512 As at 506.5 but with no arsenopyrite	546	549.4	109333	Trace
		519 Silicification, minor pyrrhotite	549.4	552	109334	0.10
		541-543 Shear at 32° with white quartz-carbonate				
		veining-50%. Pyrite and pyrrhotite as stringers, 3%.				
		Minor fine disseminated arsenopyrite.				
		549.4-552 Silicified shear with green quartz-				
		carbonate, 10-20%. Stringers of pyrite-pyrrhotite,				
		5%, arsenopyrite, 1-2%. Shearing extends down to 554				
		but not as strong.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		Below 556 - The rock is greyer and foliated at 30°.	552	554	109335	0.01
			554	556	109336	0.12
		612-614 Silicified shear at 37°. Grains of pyrite, 5%, in bands, minor pyrrhotite.	609	612	109337	Trace
			612	614	109338	0.01
		624-626.5 Appears to be silicified and mylonitic.	614	617	109339	Trace
		Sheared at 24°. Light and dark bands. 1% disseminated arsenopyrite and 2% pyrite. Possible sphalerite.	621	624	109340	Trace
			624	626.5	109341	Trace
		641.7-644.3, 646.8-648.3 Grey silicification with stringers of pyrrhotite up to 15%.	626.5	629.5	109342	Trace
			640	642.7	109343	Trace
		703 Carbonate rich shear with gouge oriented at 25°.	642.7	644.3	109344	Trace
			644.3	646.8	109345	Trace
			646.8	648.3	109346	0.22
			648.3	651	109347	Trace
			699	702.2	109348	Trace
			702.2	703.3	109349	0.01
703	713	Sheared quartz-feldspar-porphyry. Shearing at 28°. Grey stretched feldspar phenocrysts and grey interstitial quartz. Some quartz flooding. Virtually a mylonite.	703.3	706	109350	Trace
			711	713	109351	Trace
713	736	Chloritized Basalt. As previous.	713	716	109352	Trace
		719-722 Quartz vein. Grey massive, roughly parallel to the foliation at 36°.				
736	794.5	Sheared quartz-feldspar-porphyry. Essentially a mylonite. Can only see the feldspar phenocrysts at upper contact and at a few other places. Generally grey with fine-grained to 1/4" blue quartz augen. Some sericite but not pervasive. Shearing at 30°. Trace of disseminate pyrite.	765	767	109353	0.01
			767	791	109354	0.08
			791	794.5	109355	0.04
		749 Sugary, potassium altered at 749				
		766-776 Can see fsp phenocrysts.				
		765-794.5 Pyrite as fine disseminations, 2%.				
794.5	1109.3	Chloritized basalt. Foliated at 20-30°	794.5	797	109356	Trace
		811-820 50% orange, quartz flooded quartz-feldspar-porphyry zones with wandering irregular contacts.				
		822-828 Carbonatized, Brecciated. Irregular fractures.				
		823.5 1/2" gougey carbonate filled fractures oriented at 38°.				
		5% white-orange quartz veins sub-parallel to foliation at 32°				
		895-903 Zone of Grey quartz flooded massive quartz-feldspar-porphyry.				

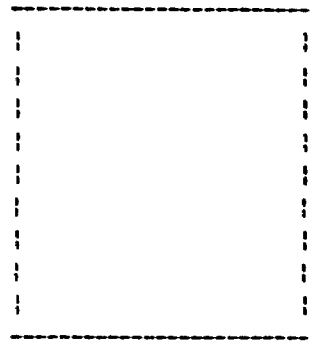
From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		931-942 Unsilicified quartz-feldspar-porphyry. 20% mafic minerals. Slightly foliated at 37°.	1085	1087	109357	Trace
			1087	1090	109358	Trace
			1090	1092	109359	Trace
		942 Basalt is more massive. Fine to medium-grained. Less altered.	1092	1094	109360	0.01
			1094	1096	109361	Trace
		950 Medium-grained with chloritic amphibole as rounded clots. Trace of pyrite. 5-10% white quartz veins sub-conformable to foliation at 46°. S.G.=3.1	1096	1098	109362	Trace
		Non-magnetic, non-calcareous.	1098	1100	109363	Trace
		1017.6-1018.5; 1031-1034; 1037-1041 - Grey, quartz flooded quartz-feldspar-porphyry	1100	1102.5	109364	Trace
		1090-1102.5 Silicified zone with some mylonitization. Grey with biotite, chlorite and pyrite-pyrrhotite, 5%. Foliated at 45°. Specific gravity 3.1				
		1102 S.G.= 2.6. Foliated at 50°.				
		1102.5-1109.3 Fractured carbonatized (fairly late looking. Still have some sulphides related to gougey zone at 1109.3 oriented at 42°				
		1103 S.G.= 2.8				
1109.3	1150	Basalt. Magnetic near upper contact Dark green-grey. Mafic minerals are slightly chloritic. Uniform. Foliated at 52 degrees. Trace of disseminated pyrite. Minor epidotization and chloritization associated with small shears.	1102.5	1106	109365	Trace
			1106	1108	109366	Trace
			1108	1109.3	109367	0.04
			1109.3	1111	109368	Trace
			1111	1113	109369	0.12
			1113	1115	109370	Trace
			1115	1118	109371	Trace
			1140	1142.8	109372	Trace
			1142.8	1146.7	109373	0.04
			1146.7	1151	109374	Trace
1150	1174	Feldspar Porphyry. "Leopard Rock" 30% orthoclase phenocrysts, up to 1" long in a medium-grained basaltic matrix. Matrix is similar to the previous unit. No obvious sulphides.				
1174		End of hole. Casing left in hole.				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: BBS-26

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 124+00 E/ 115+50 N Azimuth: 360 degrees
 Length: 1036 ft. Dip: 65° - 0'; 51° - 300'; 49° - 600'
 Core Size: BQ 46° - 900'
 Tropari: 250' -54° az002; 500' -49° az Elevation: Surface
 006; 750' -46° az011; 1000' -43° az072 Drill Company: Morrisette
 Started: July 25, 1988 Completed: July 29, 1988
 Logged by: W. Rowell Date Logged: August 5, 1988



Other Tests: 49 @ 002 - 400; 46 @ 006 - 700; 43 @ 007 - 1000

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	26.2	Overburden				
26.2	396.6	Basalt Flow - Dark greenish black; very fine to fine grained; localized fracturing; 1% quartz along fracture and shear planes, 3% biotite concentrated in foliated areas, <1% carbonate along fractures; 1% pyrite + pyrrhotite; trace arsenopyrite and chalcopyrite	61.0	63.0	109622	Trace
			63.0	64.8	109623	Trace
			64.8	65.8	109624	Trace
			65.8	68.8	109625	Trace
			89.9	91.4	109626	Trace
			91.4	92.7	109627	Trace
			92.7	94.2	109628	Trace
		26.3 - 48.4 foliated at 30 deg with 5% quartz and 5% biotite along shear planes	97.6	99.2	109629	0.06
			104.5	106.0	109630	Trace
			119.7	121.7	109631	Trace
		61.2 - 76.5 moderately silicified	121.7	123.7	109632	Trace
			123.7	125.7	109633	Trace
		61.2 - 66.0 3% quartz and 3% pyrite concentrated in fractures	125.7	127.7	109634	Trace
			127.7	130.0	109635	Trace
			130.0	132.0	109636	Trace
		64.9 - 65.7 10% pyrite in large fracture	132.0	133.8	109637	0.22
			133.8	135.4	109638	Trace
		91.3 - 92.3 7% quartz and 5% pyrite in fractures	135.4	136.4	109639	Trace
			139.6	140.9	109640	Trace
		98.4 - 99.2 30% quartz along fractures, 1% chalcopyrite, 2% pyrite	140.9	142.4	109641	Trace
			142.4	144.5	109642	Trace
			144.5	146.0	109643	0.01
		105.2 - 105.5 5% pyrrhotite and 5% calcite in tension gash	146.0	148.0	109644	0.01
			178.2	179.7	109645	Trace

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
			206	210.5	109646	tr
119.6 - 124.0		10% biotite and 1% pyrrhotite	221	222.6	109647	tr
			222.6	225	109648	tr
132.1 - 135.5		silicified with 3% pyrite and 0.5% ar- senopyrite along fractures, also 5% biotite and 3% chlorite	225	226.2	109649	tr
			226.2	228.2	109650	tr
			282.4	284.2	109651	0.10
			284.2	286	109652	0.12
141.5 - 142.0		1% disseminated medium grained ar- senopyrite primarily along fractures				
145.6 - 145.8		quartz-carbonate vein with 10% massive arsenopyrite and 7% pyrite				
205.9 - 211.7		quartz-carbonate and pyrrhotite(1%) filling thin fractures				
225.1 - 226.2		2% medium grained arsenopyrite dissemi- nated in section that is only chloritized				
242.9 - 396.6		more fractured , quartz-carbonate content up to 2%				
282.5 - 285.9		50% cherty quartz with 1% pyrite				
293.3 - 294.1		silicified with 3% pyrite				
297.1 - 297.5 and 298.1 - 299.7		quartz flooded with 3% pyrite and 0.5% pyrrhotite along fractures				
290.3 - 299.6		40% quartz-feldspar along fracture with 1% pyrrhotite	292.9	294.4	109653	Trace
			296.8	298.2	109654	Trace
			298.2	299.7	109655	Trace
344.5 - 345.7		95% quartz vein with trace pyrite	327.8	329.8	109656	Trace
			344.5	347.0	109657	Trace
346.0 - 346.9		80% quartz with 0.5% pyrite	347.0	348.5	109658	Trace
			348.5	350.0	109659	Trace
346.9 - 349.0		0.5% medium grained disseminated arsenopyrite	350.0	351.1	109660	Trace
			381.4	382.9	109661	0.04
			382.9	384.4	109662	0.28
382.9 - 387.1		highly silicified with 1% arsenopyrite locally concentrated up to 10%, 2% pyrite, 2% pyrrhotite	384.4	385.4	109663	0.20
			385.4	387.1	109664	0.08
			387.1	388.6	109665	Trace
385.5 - 386.9		7% arsenopyrite along shear planes at 42 deg.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
396.6	402.2	Feldspar Porphyry - Dark grey; 50% medium grained, subhedral to anhedral feldspar in a dark fine grained matrix, slightly fractured with sericitization along fractures; trace sulfides lower contact 58 deg				
402.2	452.8	Basalt Flow - Greenish-grey; fine grained, quite highly fractured; pervasively chloritized, quartz-carbonate along fractures, <0.5% pyrite	416.6	417.6	109666	Trace
		147.2 - 147.6 silicified with 5% medium grained disseminated pyrite	438.7	440.2	109667	0.01
		440.6 - 440.9 silicified with 2% pyrrhotite along fractures				
452.8	465.0	Andesite? - Grey; fine grained; massive, very uniform; quite hard; no fracturing; no mineralization; upper contact 38 deg				
465.0	606.8	Basalt - Same as 402.2 - 452.8	468.5	470.0	109668	Trace
			481.2	482.2	109669	Trace
		468.8 - 469.4 10% pyrite in tension gash	482.2	484.4	109670	Trace
			484.4	485.4	109671	Trace
		482.3 - 484.2 10% biotite, 3% fine grained arsenopyrite	488.6	490.1	109672	0.01
			490.1	492.1	109673	0.01
			492.1	494.2	109674	Trace
		490.1 - 492.2 5% disseminated pyrrhotite, trace arsenopyrite	494.2	495.8	109675	Trace
			551.5	553.0	109701	Trace
			566.0	568.0	109702	0.10
		492.2 - 494.1 quartz clasts up to 1 cm in diameter in matrix of cherty quartz	568.0	569.5	109703	Trace
			572.4	574.5	109704	Trace
			574.5	576.5	109705	0.08
		519.8 - 520.5 highly fractured	576.5	578.5	109706	0.16
			578.5	581.0	109707	Trace
		547.1 - 547.5 aplite dike with pink potassic staining, contacts 60 deg.	581.0	583.0	109708	Trace
			591.3	592.3	109709	Trace
			592.3	593.8	109710	0.08
		551.9 - 552.8 slightly silicified with 3% pyrite	593.8	595.8	109711	Trace
		556.9 - 558.0 silicified with 5% biotite and 2% pyrrhotite along fractures				
		574.5 - 580.9 silicified with 5% biotite, 5% pyrrhotite and 1% pyrite				
		583.9 - 598.1 slightly silicified				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		590.9 - 591.9 quartz diorite dike. unmineralized 592.4 - 594.9 silicified with 5% pyrite and 1% pyrrhotite				
606.8	632.5	Quartz Flooded Quartz-Feldspar Porphyry - Light grey; fine to medium grained; mineral percentages difficult to determine because 80% quartz flooded; 10% sericite, primarily in quartz flooded areas, pink potassic alteration over 5% of core; highly fractured with quartz sericite along fractures; quite blocky, trace sulfides 606.0 - 612.7 intercalated with basalt	595.8	597.3	109712	Trace
632.5	637.3	Basalt - Dark greenish-grey; fine to medium grained; quite fractured; quartz-feldspar porphyry and quartz along fractures; <1% sulfide				
637.3	689.2	Quartz Flooded Quartz-Feldspar Porphyry - Same as 606.8 - 632.5 except potassic alteration more pervasive, trace sulfide				
689.2	693.6	Quartz-Sericite Schist - Greenish-brown; fine to medium grained; 45% sericite, 40% quartz; fractured and quite blocky; foliation 58 deg; trace sulfide 693.3 - 693.6 quartz-feldspar porphyry	698.3 699.8	699.8 701.4	109713 109714	Trace 0.06
693.6	723.7	Basalt - Greenish-grey; fine grained; 1% carbonate (most in first 3 ft), locally silicified; 1% pyrite 693.6 - 697.8 5% quartz-carbonate in thin veins in highly fractured zone 699.6 - 702.9 silicified with 3% pyrrhotite and 1% pyrite 715.4 - 717.9 quartz flooded quartz-feldspar porphyry	701.4 702.0	702.0 704.5	109715 109716	Trace Trace

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
723.7	788.8	Quartz Flooded Quartz-Feldspar Porphyry Intercalated with Quartz-Sericite Schist - Greenish-grey; fine to medium grained, 60% quartz-feldspar porphyry with 45% subhedral to anhedral feldspar, 40% quartz, 10% chloritized mafics; <1% potassic alteration; <0.5% sulfides; 40% quartz-sericite schist with 55% sericite, 50% quartz, <0.5% pyrite; foliation 40 deg	746.0	749.0	108238	Trace
				752.0	108239	Trace
			752.0	755.0	108240	Trace
			755.0	758.0	108241	Trace
		749.0 - 756.3 1% fine to medium grained pyrite disseminated along foliation planes in quartz-sericite schist				
788.8	805.2	Basalt - Dark green; fine grained; massive; <0.5% pyrrhotite	794.0	796.0	108242	0.01
		795.0 - 795.2 1% pyrrhotite along fractures				
		802.3 - 802.9 quartz-feldspar porphyry				
		803.4 - 803.9 quartz-feldspar porphyry				
805.2	814.1	Quartz-Flooded Quartz-Feldspar Porphyry Intercalated with Quartz-Sericite Schist - Same as 723.7 - 788.8				
814.1	833.0	Basalt - Dark green; fine grained; 1% quartz-carbonate along thin fractures; <0.5% sulfide, a few quartz-feldspar porphyry veins up to 1.1 ft in width				
833.0	877.5	Quartz Flooded Quartz-Feldspar Porphyry Intercalated with Quartz-Sericite Schist - Same as 723.7 - 788.8	843.4	847.0	108243	Trace
			863.0	866.0	108244	Trace
		843.6 - 847.0 2% pyrrhotite + pyrite along thin fractures in quartz flooded quartz-feldspar porphyry	866.0	869.0	108245	Trace
			869.0	872.0	108246	Trace
			872.0	875.0	108247	Trace
		866.2 - 877.5 pervasive pink potassic alteration	875.0	877.5	108248	Trace
		lower contact 59 deg.				
877.5	887.5	Silicified Basalt - Greenish-grey; very fine grained; pervasively silicified; highly fractured; 1% thin quartz-carbonate veins along thin fractures, <1% pyrrhotite along fractures, 1% pyrite along fractures and in disseminated cubes, <0.5% arsenopyrite in medium grained blebs	877.5	880.0	108249	Trace
			880.0	882.0	108250	0.04
			882.0	884.0	108251	0.01
			884.0	886.0	108252	Trace
			886.0	887.5	108253	Trace

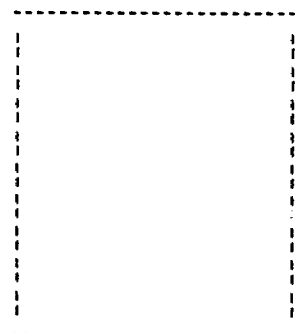
From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
887.5	983.7	Basalt - Greenish-grey; fine to medium grained; 60% medium grained green amphibole, 35% saussuritized plagioclase; <0.5% sulfide	887.5	890.4	108254	Trace
		887.5 - 893.5 1% disseminated pyrite	890.4	893.7	108255	Trace
		890.4 - 893.5 core broken and fault gouge	893.7	896.0	108256	Trace
983.7	1036.0	Porphyritic Basalt (Leopard Rock) - Mottled, green with white patches; fine to coarse grained; 20 - 30% anhedral to subhedral plagioclase up to 2 cm in length in a matrix of the previous basalt unit				
		1036.0 End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-27

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 124+01.4E / 116+94.9N
 Length: 686 ft.
 Core Size: BQ
 Acid Tests: 50° - 0'; 43° - 300';
 38° - 600'
 Started: July 1, 1988
 Logged by: R. Anderson
 Azimuth: 360 degrees
 Tropari Tests:
 Elevation: 9987.0
 Drill Company: Morrisette
 Completed: July, 2, 1988
 Date Logged: July 3, 1988



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	4	Casing				
4	74	Basalt. Chloritic. Foliated at 46°. Fine to medium-grained. Uniform. 5-10% white carbonate and quartz veins conformable to the foliation and wandering. Also zones of what appears to be carbonate filled flow breccia with minor pyrite, pyrrhotite with a trace of chalcopyrite.	71	74	109398	Trace
			74	79	109399	Trace
			79	82	109400	Trace
74	91	Chloritized Basalt Green, fine-grained. Foliated at 30°. With stringers of pyrite and pyrrhotite, 2%. Minor disseminated arsenopyrite.	82	85	109401	Trace
			85	89.1	109402	Trace
			89.1	91	109403	Trace
		67.4-89.1 Arsenopyrite as disseminated euhedral grains in bands, 3%.				
91	99.7	Basalt. As at 4'. Last 3' have shearing with chlorite and pyrite, 2-3% and 5-10% fine carbonate stringers.	91	95	109404	Trace
			95	98	109405	Trace
			98	99.7	109406	0.02
99.7	102.2	Silicification. Grey uniform. Pyrite and pyrrhotite as masses and stringers, 15%. Disseminated arsenopyrite 3%.	99.7	102.2	109407	0.34
102.2	127.8	Basalt as at the top of the hole.	102.2	104	109408	Trace
			104	106	109409	Trace
		113.4-113.9 As at 99.7 but without the pyrrhotite.	111	113.4	109410	Trace
		With 1-2' chlorite, carbonate shearing above and below the zone. Foliated at 51°. Specific gravity (S.G.)= 2.9.	113.4	113.9	109411	0.04
			113.9	116	109412	Trace

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
127.8	136.5	Felsic grey Feldspar Porphyry. Phenocrysts to 1/4" in the first 1'. Then becomes very sheared at 32° Minor quartz augen and still grey.				
136.5	154	Chloritic Basalt. As previous. Foliated at 32°				
154	187	Silicified Basalt. Grey, no banding. Unsheared and uniform.	180	182.5	109413	Trace
			182.5	183.8	109414	Trace
			183.8	186	109415	Trace
		167.5-172 Grey felsic intrusion. Aplitic.				
		182.5-183.8 Shear with epidote and pyrite, 3% as stringers. Shearing at 45°.				
187	314.2	Chloritized Basalt. Light and dark banding. Slightly biotitic	205	207.5	109416	Trace
			207.5	208.7	109417	0.14
			208.7	210.5	109418	Trace
		207.5-208.7 Shear with chlorite, biotite, minor carbonate and stringers of pyrite-pyrrhotite, 5%.	240	241.9	109419	Trace
		Minor arsenopyrite. At 50°.	241.9	243.3	109420	Trace
			243.3	246	109421	Trace
		241.9-243.3 Shear with chlorite, biotite and carbonate. 5% stringer pyrite.	246	248	109422	Trace
			248	251	109423	0.08
		251-251.4 As at 241.9 but with minor amounts of arsenopyrite.	251	251.4	109424	0.12
			251.4	255	109425	Trace
		272.6-273.8 Silicified with stringers of pyrite	270	272.6	109426	Trace
			272.6	273.8	109427	0.46
		Basalt is uniform with 5% white carbonate veinlets at the top of the hole.	273.8	276	109428	Trace
			311	314.2	109429	Trace
		306-308 Zone of quartz-feldspar-porphyry with 60% white subhedral orthoclase phenocrysts and nodes of quartz. Quartz is mostly interstitial. Slightly epidotic.				
		310-314.2 Carbonate veinlets to 25%. Last foot has chloritic gouge.				
314.2	398.6	Quartz-feldspar-porphyry as at 306. Generally more quartz flooding. Slightly foliated at 43°.	314.2	316	109430	Trace
			316	319.5	109431	Trace
		314.2-319.5 Quartz flooded				
		317-319.5 Brecciated zones 2" thick with pink silica infilling.				
		345 Becomes mylonitic and develops sericite and feldspars are ground. Quartz remains as blue augen Degree of shearing is variable but still have quartz-feldspar-porphyry zones up to 6" long. 10% quartz flooding and minor pyrite-pyrrhotite				
		356.5 Gougey at 38°. Eventually lose quartz augen.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
398.6	410.2	Sheared basalt with zones of quartz flooded quartz-feldspar-porphyry. Carbonate veinlets 10-15%.	398.6	401	109432	Trace
			401	405	109433	Trace
			405	407.2	109434	Trace
			407.2	410.2	109435	Trace
410.2	437.5	Sheared quartz-feldspar-porphyry. Mylonitic down to 418 and then 2' of quartz flooding and then foliated quartz-feldspar-porphyry as at 314.2. Foliated at 50°.				
		436-437.5 Grey quartz vein.				
437.5	450.6	Basalt. Medium to fine-grained. Fairly undisturbed. Slightly foliated at 48°				
450.6	459.4	Clean quartz-feldspar-porphyry. Minor 3" quartz flooded zones.				
459.4	485	Silicic Mylonite interlayered with biotitic basalt having 15% white calcite. Neither rock type occurs in zones more than 3' thick	483	485	109436	Trace
		459.4-461.1 5% stringer pyrite.				
485	493	Quartz flooded quartz-feldspar-porphyry.	485	487	109437	Trace
493	516.3	Altered Basalt. Chloritized and biotized with 10% fine carbonate veinlets. Last 6' is very contorted.	510	513	109438	Trace
			513	516.3	109439	Trace
516.3	600.5	Altered quartz-feldspar-porphyry. Zones of quartz flooding, mylonite, sericite and chlorite Uniform in its variability. Contorted but generally at 50°.	516.3	519	109440	Trace
			581.8	586	109441	Trace
			598	600.5	109442	Trace
		581.8-592.8 Sugary orange-brown mylonite. Trace of pyrite.				
600.5	605	Chloritized Basalt. Very chloritic with stringers and blebs of pyrite, 5% and 20% stringers of carbonate S.G.= 3.0. Foliated at 55°.	600.5	603	109443	Trace
			603	605	109444	0.01
605	635.5	Silicified Basalt. Greyer. S.G.= 2.75.. Pyrite, 5% euhedral grains and minor stringers. Numerous fine chloritic fractures. 5% carbonate veins .	605	607	109445	Trace
			607	609	109446	Trace
			609	612	109447	Trace
			612	616	109449	0.01
			616	620	109450	Trace
			620	624	109451	Trace
		635 Gouge oriented at 60°.	624	626	109452	Trace

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
635.5	686	Basalt. Slightly chloritic. Fine-grained and well-	626	629	109453	Trace
		foliated at 50° at the upper contact becoming medium-	629	632	109454	Trace
		grained and more massive lower down. Also carbonate	632	634	109455	0.01
		shears with associated fine disseminated pyrite.	634	636	109456	Trace
			636	638	109457	Trace
		645 Becomes magnetic.	638	640	109458	Trace
		665-666 2% disseminated pyrite and slightly	640	644	109459	Trace
		chloritized.	644	667	109460	Trace
686		End of Hole. Casing left in hole.				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-28

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 135+99.4E / 118+98.5N
 Length: 516 ft.
 Core Size: BQ
 Acid Tests: 50° - 0; 43° - 300';
 34° - 496'
 Started: August 1, 1988
 Logged by: R. Anderson

Azimuth: 360 degrees
 Tropari Tests:
 Elevation: 9978.5
 Drill Company: Morrisette
 Completed: August 3, 1988
 Date Logged: August 4, 1988

Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	42	Casing. Carbonate, calcite-rich sheared boulders.	41	42	109461	Trace
42	273	Chloritized Basalt. Sheared. Fine-grained. Well-foliated at 42°. Light and dark banding due to carbonate content. Non-calcareous and non-magnetic.	42	45.5	109462	0.08
			48	48	109463	Trace
			52	52	109464	Trace
			58	60.7	109465	Trace
		42-45.5 Grey silicified zone with chlorite and sulphides. Stringers of pyrite, 2-3%. Disseminated arsenopyrite in bands, 2%.	60.7	61.3	109466	Trace
			61.3	64	109467	Trace
			64	65.6	109468	Trace
		42-48 Distorted chlorite bands with stringers of pyrite, 2%.	65.6	66	109469	Trace
			66	69	109470	Trace
			86	89	109471	0.08
		141-141.7; 128-128.7; 60.7-61.3; 65.6-66; 89-90 : Shears with chlorite-carbonate banding and stringers of pyrite, 2-3%.	89	90	109472	Trace
			90	93	109473	Trace
			93	96	109474	Trace
		67-78.5 Well foliated felsic rock. Grey. Could be a felsic tuff or a very sheared intrusion. Brown, sugary, fine to medium-grained. Foliated at 48°.	125	128	109475	Trace
			128	128.7	109476	Trace
			128.7	131	109477	Trace
			133	136	109478	Trace
		92 Basalt is more massive, not a much chlorite, 5% irregular carbonate, quartz veining.	136	139	109753	Trace
			139	141	109754	Trace
		125.5 Basalt becomes blocky due to criss-crossing chloritic shears.	141	141.7	109479	Trace
			141.7	144	109480	Trace
		137 Chloritic gouge at 46°.	144	146.6	109481	Trace
		146-152.7 Silicified zone. Bands of silica interlayered with chlorite and biotite. Foliated at 44°. Stringers of pyrite, 20-3%.	146.6	148.2	109482	Trace
			148.2	150.8	109483	Trace
			150.8	152.7	109484	0.04
		146.6-148.2 2% disseminated arsenopyrite in bands.				
		150.8-152.7 1% disseminated arsenopyrite in bands.				
		147 S.G. = 2.75				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		159.9-161.4 As at 146 but no arsenopyrite	152.7	154	109485	Trace
		186.3-188 Stringers of pyrrhotite, 5% in grey silicification zones parallel at 54°.	154	158	109486	Trace
			158	159.9	109487	Trace
		233-234.2 Biotite, calcite alteration. Foliated at 57°.	159.9	161.4	109488	Trace
			161.4	163	109489	Trace
			184	186.3	109490	Trace
		181-182; 196.3-206.7; 234.2-237.4; 211; 213-221; 224-225; 254-256; 263-265 - Zones of grey quartz flooded, possible quartz-feldspar-porphry. Oriented at 44°	186.3	188	109491	Trace
			188	191	109492	Trace
			271	273.5	109493	Trace
273	288.1	Altered Basalt. Mostly silicification with bands of chlorite and grey quartz. Pyrite and pyrrhotite as stringers, 2%. Some crenulation and distortion but mostly foliated at 50°.	273.5	276.5	109494	Trace
			276.5	277.5	109495	Trace
			277.5	281	109496	Trace
			281	282	109497	0.16
			282	284	109498	Trace
			284	286	109499	0.01
			286	288.1	109500	0.01
			305	307.2	109720	Trace
			307.2	311	109721	Trace
			311	313	109722	Trace
			313	316	109723	Trace
			346	348.7	109724	0.01
			348.7	352	109725	Trace
			352	354	109726	0.01
288.1	307.2	Diorite or quartz-feldspar-porphry. Grey, medium- grained with euhedral feldspars, 40%, anhedral quartz, 40%, anhedral mafics, 20%, minor disseminated pyrite.				
		295-298.5 Aplitic, maybe a mylonite. Foliated at 64°				
307.2	361	Altered basalt. Identical to 273.5 down to 313 where it becomes a chloritized basalt. Grey then green. Stringers of pyrite-pyrrhotite, 2%. Trace of arsenopyrite? Foliated at 57°	354	356	109727	Trace
			356	358.5	109728	0.01
			358.5	361	109729	Trace
		348.7-352 70% grey-grown silica in stretched bands with stringers of pyrrhotite, 1%, and 1% fine disseminated arsenopyrite.				
		358.5-361 Silicified and sheared with stringers of pyrite, 3%.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
361	396	Tectonized quartz diorite - quartz-feldspar-porphyry. Foliated at 54° Sericitic.	361 363.5 366	363.5 366 371	109730 109731 109732	Trace 0.01 Trace
		369-371 Criss-crossed by irregular carbonate veinlets. 30--40% quartz-augen. Carbonatized and very broken-up.	382 385 388	385 388 391	109733 109734 109735	Trace Trace 0.04
		362 Gouge oriented at 19°.	391	393	109736	0.01
		385-391 2-3% disseminated pyrite, trace of arsenopyrite.	393	395	109737	0.06
		395-396 Arsenopyrite, 1%, fine to medium-grained, disseminated				
396	424	Altered and mineralized basalt. Dark grey-green. Medium grained. Well-foliated at 56°. With carbonate stringers. Stringers of pyrite, 3%. Arsenopyrite, 1%, disseminated	395 398 401 403 405	398 401 403 405 406.2	109738 109739 109740 109742 109743	0.10 Trace Trace Trace Trace
		401-46-5 Grey silicification	406.2	409.3	109744	0.02
		405-466.3 Unaltered.	409.3	411	109745	0.01
		406.2-409.2 As at 405 but with carbonate-filled breccia.	411 413	413 416	109746 109747	0.01 0.04
		415 Gouge at 68°	416	420	109748	0.01
		420 Gouge at 75°	420 422	422 424	109749 109750	Trace Trace
424	516	Basalt. Well-foliated and chloritic at the upper contact. Minor 1" masses of pyrrhotite.	424 426 429	426 429 431	109751 109752 109755	Trace Trace Trace
		431 Altered mineralized zone. Not sheared but with alternating bands of carbonate, chlorite and silicification on the scale of 1-2'. Bands of fine disseminated arsenopyrite associated with the silicification. Pyrite and pyrrhotite as stringers averaging 3% throughout.	431 433 435 437.2 438.9 441 443	433 435 437.2 438.9 441 443 445	109756 109757 109758 109759 109760 109761 109762	0.01 0.02 0.08 Trace Trace 0.01 0.10
		450 Start getting less silicification and more chlorite with white flecks of leucoxene.	445 446.8	446.8 448	109763 109764	Trace Trace
		457-459 Chlorite-carbonate shear with stringer pyrite, 5%. Oriented at 59°.	448 451	451 454	109765 109766	Trace Trace
		459 Basalt is medium-grained, slightly chloritic, relatively massive and magnetic.	454 457 459	457 459 461	109767 109768 109769	Trace 0.02 Trace
		473-476	471	473	109770	Trace
		479-481	473	476	109771	Trace
		483-486	476	479	109772	Trace
		512.3-574 Carbonate, silica, chlorite shears with 3% stringers pyrite oriented at 59°.	479 481	481 483	109773 109774	0.14 Trace

From (ft)	To (ft)	Description
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From (ft)	To (ft)	Tag Number	Gold (oz/t)
483	486	109775	Trace
511	513.3	109776	Trace
513.3	514	109777	0.20
514	516	109778	Trace

516		End of hole. Casing left in hole
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DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-29

Page : 1

Property Owner: Twin Gold Mines Ltd.

Grid location: 124+00.8E / 116+93.4N

Length: 756 ft.

Core Size: BQ

Acid Tests: 49° - 300'; 43° - 600'

Started: August 1, 1988

Logged by: R. Anderson

Azimuth: 360 degrees

Tropari Tests: 60 @ 360 - 0'; 51 @ 358 -

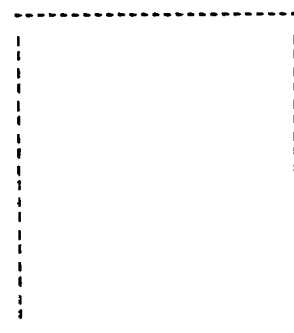
250'; 46 @ 007 - 500'; 42 @ 341? - 700'

Elevation: 9987.3

Drill Company: Morrisette

Completed: August 4, 1988

Date Logged: August 6, 1988



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	378.2	Chloritic Basalt. Relatively massive. Dark green, fine to medium-grained. Non-magnetic. Non-calcareous	22	24.6	109779	Trace
			49	52	109780	Trace
			89	91.8	109781	Trace
		22-24.6 Carbonate breccia zones may be	91.8	94	109782	Trace
		49-52 flow breccia with stringers of pyrite,	94	98	109783	Trace
		89-91.8 pyrrhotite, 5-10%	100	104	109784	Trace
		92.8-94	104	108	109785	Trace
		94-98	108	112	109786	Trace
		104-116 Stringers of chalcopyrite, pyrite and	112	116	109787	Trace
		pyrrhotite, 3%.	120	122	109788	Trace
			122	124	109789	0.12
		116-120 20% carbonate-quartz veins. Shearing,	124	127	109790	0.48
		veining at 32°.	127	129	109791	0.42
		124-129; 141.6-145.6 Silicification, mineralized	139	141.6	109792	0.12
		with pyrite, pyrrhotite as stringers, 5%. Magnetic,	141.6	145.6	109793	0.12
		1% disseminated arsenopyrite. Chloritic bands	145.6	149	109794	Trace
		oriented at 40°.	177	178.8	109795	0.01
		158.3-175.6 Felsic aplitic intrusion with 10% pale	178.8	181	109796	0.01
		feldspar phenocrysts. Uniform. Some quartz flooding.	181	185.3	109797	Trace
		Slightly foliated at 42°.	185.3	188	109798	Trace
		177; 181-185 Chloritic shearing with arsenopyrite,	188	189.8	109799	Trace
		0.5% and stringers of pyrite	210	212.4	109800	Trace
		188-190 Stringers of pyrite. Rock is slightly	212.4	213	108201	Trace
		magnetic.	213	214.7	108202	Trace
			214.7	215.3	108203	0.01
		212.4-213; 214.7-215.3; 220.4-221.5 Shearing with	215.3	218	108204	0.02
		chlorite and carbonate and 1-2% disseminated	218	220.4	108205	Trace
		arsenopyrite and 2% stringers of pyrite.				
		218-219 Silicification but no arsenopyrite. 3%				
		stringers of pyrite.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		Basalt is very uniform. Chloritic, green, medium-grained. Foliated at 48°	220.4	221.5	108206	0.01
			221.5	224	108207	Trace
			239	240.3	108208	0.18
		240.3-244 Stringers of pyrite, 3%. Carbonate, biotite and chlorite banding. Silicification with arsenopyrite, fine, 1%. S.G. = 2.75.	240.3	244	108209	0.26
			244	247	108210	Trace
		296.8-298.8 Silicification zone with 10% pyrite and minor arsenopyrite	294	296.8	108211	Trace
			298.8	303.3	108212	Trace
		303.3-305.5 5% stringer pyrite. Trace of arsenopyrite.	303.3	305.5	108299	Trace
			305.5	307.5	108213	0.01
			318	320.2	108214	0.01
		310-Start to get 5% quartz flooded quartz-feldspar-porphyrus veins with wandering boundaries.	320.2	321	108215	Trace
			321	324	108216	Trace
		320.2-321 Silicification with 5% stringer pyrite, minor arsenopyrite.	331	333	108217	Trace
			333	334.3	108300	Trace
		333-334.3 Chlorite, carbonate shear with stringers of pyrite.	334.3	337	108218	Trace
			356	359	108219	Trace
		359-360.6 Silicification with stringers of pyrite-pyrrotite as at 320.2. Trace of arsenopyrite.	359	360.6	108220	0.16
			360.6	363	108221	Trace
			366	368	108222	Trace
		Basalt is oriented at 44°. Becomes more silicified and pyritic towards the lower contact.	368	370	108223	Trace
			370	372.5	108224	Trace
		376-378.2 Chloritic, carbonatized and gouge at 40°.	372.5	374.6	108225	Trace
			374.6	376	108226	Trace
			376	378.2	108227	Trace
378.2	452.2	Quartz diorite, quartz-feldspar-porphyrus. White euhedral feldspars. 40% nodes of quartz and 10% chloritic mafic minerals. Minor pyrite.	378.2	381	108228	Trace
			445	447.5	108229	Trace
			447.5	450	108230	Trace
			450	452.2	108231	0.12
		378.2-395 Orange potassic alteration. Sharp lower contact. Also with numerous random carbonate-chlorite fractures. Foliated at 42°.				
		396-427.5 Sericite schist due to slight shearing and alteration. Foliated at 42°. Also with blue quartz augen. Flooding around 408-412.				
		431-433 Grey quartz vein.				
		448 Starts to become very sheared. Pyrite up to 2%, disseminated.				
452.2	558.5	Chloritic basalt as previous. Non-calcareous. Non-magnetic. 5% irregular carbonate veinlets. Foliation at 42°. Fine disseminated pyrite, 2% down to 456	452.2	456	108232	Trace
			460	461.8	108233	Trace
			461.8	465.2	108234	0.06
			465.2	467	108235	Trace
		478-481 Mylonitized silica rich rock. Potassium altered.	467	472	108236	Trace
			472	476.5	108237	0.04
		489-491 Zone of sheared quartz-feldspar-porphyrus.				
		514.5-518; 526.6-532 Clean quartz-feldspar-porphyrus.				

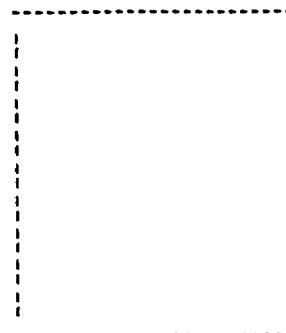
From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
	192-194.3	Chloritized amphibole and minor pyrite.	220	222.5	108364	tr
	197.5-199.5	Very-fine-grained chlorite and 1% dispersed medium-grained arsenopyrite.	222.5	226	108365	0.01
			226	229.5	108366	tr
	199.5-201.5	Slightly brecciated with chlorite-pyrrhotite in-filling. Pyrrhotite, 3% as stringers.	229.5	232	108367	tr
			310	312.5	108368	tr
	201.5-203	Stringers of pyrite, pyrrhotite, 5-10%.	312.5	316.5	108369	tr
	2225-229.5	Dispersed disseminated arsenopyrite, 1-2%	316.5	319	108370	tr
			354	356	108371	tr
			356	361	108372	tr
		Basalt at this point is generally chloritic, non-magnetic with up to 30% conformable, white carbonate veins. eg. 246-253. Generally 5-10% veining. Uniform	380	383.2	108373	tr
			383.2	384	108374	tr
			394	396	108375	tr
			396	398.7	108376	0.18
	290	Basalt develops light and dark banding oriented at 47°.	398.7	402	108677	0.20
	305-313	Brecciating white calcite veins, 10-15%.				
	312.3-316.5	Slight silicification. Shearing at 46°. Stringer pyrite, 2-3%.				
	356-361	Stringer pyrite, pyrrhotite, 2-3%. Slightly chloritization, carbonatization.				
	383.2-364	Silicified. Minor pyrite-pyrrhotite.				
	394-402	Increase in silicification and brecciation with white carbonate in-filling and 3% pyrite as disseminations and sugary masses.				
402	415.7	Intermediate to felsic Porphyry. Poorly developed feldspar phenocrysts, pal in a grey aphanitic matrix. Well-foliated at upper contact at 46°.	402	405	108378	tr
415.7	620.6	Chloritized Basalt as previous. Variably magnetic depending on minor pyrrhotite content.	418	421.3	108379	0.01
			421.3	424.2	108380	tr
			424.2	426	108381	tr
	421.5-424.2; 430.6-433	Shearing with white carbonate stringers and 2-5% stringers of pyrite-pyrrhotite. Also minor disseminated arsenopyrite in bands oriented at 48°.	428	430.6	108382	tr
			430.6	433	108383	tr
			446	448.6	108384	tr
			446.6	449.8	108385	0.01
	448.6-449.8	Shear with carbonate, silica and calcite. Minor medium-grained arsenopyrite. Stringer pyrite, pyrrhotite, 1-2%.	449.8	452	108386	tr
			466	469.5	108387	tr
			469.5	471.5	108388	0.04
	469.5-471.5	Increasing shearing with silicification. Shearing at 30°.				
	471	White calcite shear with 1/3" mass of pyrite and 3-5% arsenopyrite.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
558.5	658.5	Quartz-feldspar-porphyry. With 30% mafic minerals	651	653	109801	Trace
		514-582 Quartz flooding	653	656	109802	Trace
		586 Foliated at 46°.	656	658.5	109803	Trace
		561-562 Biotite-calcite alteration. Possible altered basalt.				
		598 Becomes interlayered with sericite schist and quartz flooded zones.				
		596 Virtually a mylonite.				
		632 Gouge oriented at 61°.				
		653 8' of Potassium alteration.				
658.5	690.5	Chloritic Basalt similar to previous. Dark green.	658.5	661	109804	Trace
		Fine-grained, well-foliated at 63°. Fairly competent.	661	662.9	109805	Trace
		Trace of pyrite.	662.9	668.6	109806	0.30
			668.6	671	109807	Trace
		662.9-668.6 Sheared and silicified. Dark grey.	671	674	109808	Trace
		Banding on the scale of 2-5 mm. Stringers of	681	684	109809	Trace
		pyrrhotite, trace of arsenopyrite. S.G. = 2.7.	684	687	109810	0.08
			687	690.5	109811	0.06
		668.6 Grey, paler than at 667.9. With fine chloritic bands and carbonate-filled fractures. Foliated at 52°.				
		682 Starts to become brecciated with chlorite or carbonate filling.				
		689.5 Becomes very chloritic and broken-up. at 61°. Stringers of pyrite, 3%.				
690.5	756	Basalt. Slightly chloritic. Dark grey. Relatively massive. With minor epidotic zones associated with minor shearing. also zones of white plagioclase. May be a re-crystallised unit. Trace of pyrite.	690.5	693	109812	Trace
			693	696	109813	Trace
756		End of Hole. Casing left in Hole.				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-30
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 135+99.7E; 117+48.3N_ Azimuth: 355 degrees
 Length: 656 ft. Tropari Tests: 250 ft-dip 44 az 343; 500
 Core Size: BQ ft-dip 33 az 353; 650 ft dip 33 az 016_
 Acid Tests: 50.5 @ 0.0 ft, 44 @ 296 ft Elevation: Surface, 9974.8
 31 @ 656 ft Drill Company: Morrisette
 Started: August 4, 1988 Completed: August 7, 1988
 Logged by: W. Rowell Date Logged: August 7, 1988



Other Tests: _____

From (ft)	To (ft)	Description	Hole location in claim			
			From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	72.0	Casing				
72.0	287.5	Basalt - Greenish-grey; fine to medium grained; where medium grained predominantly fibrous amphibole; slightly fractured; localized shearing at 40 deg.; <1% quartz-carbonate along fine fractures; 1% biotite concentrated in sheared areas; <1% py primarily along fractures	82.9	84.5	108257	Trace
			113.5	115.0	108258	Trace
			130.2	132.4	108259	Trace
						Trace
		72.0 - 92.8 core blocky	138.1	139.8	108260	
		83.0 - 84.5 1% pyrite along fractures	183.5	186.3	108261	Trace
		92.8 missing 2.0 feet of grind				
		115.0 - 116.6 blocky core	203.2	206.6	108262	0.01
		112.9 - 130.9 quite sheared and highly chloritized	282.3	283.8	108263	0.01
		130.5 - 131.0 2% py along fractures and disseminated				
		138.7 - 139.0 fractured and silicified with 1% pyrite				
		183.7 - 186.2 10% quartz-carbonate along fractures and filling tension gashes				
		203.2 - 206.5 1% pyrite in fracture filling blebs				
		283.1 - 283.6 5% pyrite + pyrrhotite along fractures				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
287.5	294.1	Quartz-Sericite Schist Intercalated with Porphyritic Andesite - Light grey; fine to medium grained; 25% porphyritic andesite with 20% fine to medium grained, subhedral to anhedral porphyritic plagioclase in dark matrix; 75% quartz-sericite schist with 60% sericite and 30% quartz; both units have <0.5% sulfides, lower contact 58 deg				
294.1	390.8	Basalt - Same as 72.0 - 287.5 but with <1% garnet + epidote (locally concentrated)	296.4	298.8	108264	Trace
			314.5	317.5	108265	Trace
		297.1 - 297.9 slightly sheared and silicified with 0.5% fine grained arsenopyrite and 0.5% pyrite, highly chloritized	317.5	320.0	108266	Trace
		314.6 - 319.6 1% pyrrhotite associated with thin quartz veins along fractures	340.9	343.2	108267	Trace
		353.5 - 354.4 porphyritic andesite similar to unit in 287.5 - 294.1	365.0	368.0	108268	Trace
		364.1 - 367.7 5% garnet + epidote in randomly oriented bands up to 6 cm in width, slightly bleached around the bands				
		378.1 - 379.0 and 386.9 - 387.4 felsic veins				
390.8	392.3	Felsic Dike - White; fine to; 90% quartz + feldspar; 5% sericite; quite fractured with 2% chlorite concentrated along fractures; trace sulfide; 2% anhedral to subhedral porphyritic feldspar locally developed				
392.3	487.2	Basalt Intercalated with Thin Felsic Dikes - Dark green very fine grained basalt intercalated with felsic dikes similar to 390.8 - 392.3; basalt locally sheared at 42 deg; biotite and sericite concentrated in sheared areas; <1% pyrrhotite concentrated along fractures and in shears	417.5	419.8	108269	0.01
			422.0	424.6	108270	Trace
			451.7	453.9	108271	Trace
		417.7 - 419.7 sheared at 42 deg, slightly silicified, 30% sericite, 0.5% pyrrhotite				
		423.3 50% pyrrhotite + pyrite along fracture				
		424.2 - 424.4 20% biotite and 30% fine grained pyrite + pyrrhotite				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		437.0 - 443.8 a few subhedral porphyritic feldspars up to 5 mm in length similar to those in "Leopard Rock"				
		451.8 - 453.8 highly fractured felsic dike with glassy quartz in fractures up to 2 cm in width, 0.5% pyrite associated with the quartz				
487.2	504.9	Quartz Flooded Quartz Diorite Intercalated with Quartz-Sericite Schist - 50% quartz-sericite schist - grey; medium grained; 35% slightly foliated quartz, 45% sericite, <0.5% sulfide Quartz Diorite - grey; medium grained; 45% anhedral to subhedral, slightly sericitized feldspar, 35% quartz, 15% anhedral amphibole, 0.5% pyrite -contact between schist and quartz diorite is quite sharp -upper contact 45 deg				
		490.6 - 492.2 Arenite? - grey; fine grained; massive; slightly larger grain size toward bottom; trace sulfides				
		501.7 - 503.5 similar unit to 490.6 to 492.2				
504.9	551.3	Basalt - Greenish grey; fine grained; highly fractured; 3% quartz-carbonate in thin veins along randomly oriented fractures, 1% biotite associated with quartz-carbonate veins, locally silicified and slightly bleached as approach fault gouged area; 0.5% pyrrhotite + pyrite	512.5	515.5	108272	0.08
			515.5	519.3	108273	Trace
			541.9	543.6	108274	0.04
		507.3 - 508.9 quartz-sericite schist				
		509.2 - 509.4 quartz diorite				
		542.3 - 542.6 quartz vein with 0.5% fine grained disseminated pyrite				
		548.7 - 550.3 brecciated				
		550.3 - 550.8 brecciated and bleached				
		550.8 - 551.3 fault gouge with clasts up to 2 cm in length in clay matrix				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
551.3	577.8	Quartz-Sericite Schist - Greenish-brown; fine to medium grained; 35% sericite, 60% quartz; foliation 52 deg; 1% potassic alteration; <0.5% pyrite mostly concentrated along shear planes	556.0	557.8	108275	Trace
			557.8	562.3	108276	0.01
			562.3	566.0	108277	Trace
		557.6 - 562.3 very broken up and some missing	566.0	568.0	108278	Trace
			568.0	570.0	108279	Trace
		573.8 - 575.7 3% medium grained, yellowish-green pyrite disseminated along cleavage planes; 1% pyrrhotite also along cleavage planes, trace very fine grained arsenopyrite needles	570.0	572.0	108280	0.01
			572.0	573.8	108281	0.01
			573.8	575.7	108282	0.16
			575.7	577.8	108283	0.28
		575.7 - 577.8 - silicified with 1% pyrrhotite along fractures				
577.8	656.0	Basalt - Greenish grey; fine grained from 577.8 to 614.6, medium grained from 614.6 to end of hole; locally silicified, 5% biotite concentrated in silicified areas; <1% pyrite, <1% pyrrhotite, trace arsenopyrite	577.8	579.9	108284	Trace
			579.9	582.2	108285	Trace
			582.2	585.3	108286	Trace
		577.8 - 585.7 weakly silicified with <1% pyrrhotite + pyrite	594.2	596.2	108287	Trace
			596.2	597.6	108288	0.04
		596.2 - 599.2 silicified with 1% pyrrhotite, 1% pyrite and 0.5% fine grained disseminated arsenopyrite	597.6	599.4	108289	Trace
			599.4	601.5	108290	Trace
		604.9 fault gouge	601.5	603.5	108291	Trace
			610.8	614.7	108292	Trace
		610.8 - 625.9 slightly silicified with 5% biotite and 1% pyrite + pyrrhotite, <0.5% arsenopyrite	614.7	617.7	108293	Trace
			617.7	619.7	108294	0.04
			619.7	621.7	108295	0.04
		614.6 - 656.0 medium grained with 60% greenish amphibole and 35% saussuritized plagioclase, 0.5% pyrrhotite makes the unit slightly magnetic	621.7	623.3	108296	0.06
			623.3	626.0	108297	0.01
			626.0	628.0	108298	Trace
		656.0 End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGHAM LAKE PROPERTY

Hole No: 88S-31

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 125+02.0E / 113+99.9N Azimuth: 360 degrees
 Length: 998 ft. Tropari Tests: 47 @ 345 - 100; 42 @ 359 - 250
 Core Size: BQ 36 @ 333 - 550; 31 @ 340 - 750; 27 @ 008 - 1000
 Acid Tests: 50° - 0'; 42° - 300'; Elevation: 9981.5
 34° - 600'; 29° - 900' Drill Company: Morrisette
 Started: August 5, 1988 Completed: August 8, 1988
 Logged by: R. Anderson Date Logged: August 8, 1988

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	42	Casing				
42	65.6	Basalt. Dark green, uniform with less than 5% irregular carbonate veinlets. Fine to medium-grained. Mafic minerals are chloritized. Minor pyrite. Relatively massive.				
65.6	165.2	Talc-Carbonate Schist (Komatiite). Silvery grey. Very soft. Fine to medium-grained. Well-foliated at 55°. Non-calcareous. Minor quartz-feldspar boudinaged veins. 5-10% conformable carbonate veinlets.	92	137	109814	Trace
		85 Gougey.	137	139.9	109815	Trace
		92-94 Less than 1% 5mm. pyrite augen.	139.9	144	109816	Trace
		124 Gouge oriented at 52°.	144	148	109817	Trace
		137 4" of fine grained basalt as previous.	148	152	109818	Trace
		139.9-144 Fine-grained basalt as previous.				
		132-145 1% disseminated pyrite.				
		154 Gouge at 62°.				
165.2	511.6	Well-foliated basalt. Foliated at 60°. Otherwise similar to the basalt at the top of the hole including the carbonate veinlets. Trace of disseminated pyrite.	179.5	181.5	109819	Trace
		181.5-182; 183.7-186.2 Silicate shear with bands of white carbonate and chlorite. Stringers of pyrite, 5%.	181.5	182	109820	Trace
		208.7-210.2 Grey quartz with chloritic shearing above and below the quartz - 1% disseminated euhedral arsenopyrite. Minor stringer chalcopryite, pyrrhotite, pyrite.	182	183.7	109821	Trace
		214-218 Carbonate alteration with stringers of pyrrhotite, chalcopryite and pyrite, less than 1%. Trace of arsenopyrite. Light and dark banding.	183.7	186.2	109822	Trace
			206	208	109823	Trace
			208	210.2	109824	Trace
			210.2	213	109825	Trace
			213	216	109826	Trace
			216	218	109827	Trace
			218	221	109828	Trace
			236	239.5	109829	0.01
			239.5	243	109830	Trace
			243	246	109831	Trace
			246	247.5	109832	Trace

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		299.7-301 Breccia filled with carbonate - 30% Pyrrhotite, pyrite and a trace of chalcopyrite associated with carbonate filling which extends down to about 306.	268 270.5 273.5 284 286.5	270.5 273.5 276 286.5 288	109833 109834 109835 109836 109837	Trace 0.08 Trace Trace Trace
		Basalt is magnetic due to pyrrhotite content.	288 296	291 299.7	109838 109839	Trace Trace
		340 Start getting higher sulphide content. Generally 2-3%. With zones of disseminated euhedral arsenopyrite. 340-344.	299.7 303 306	303 306 308	109840 109841 109842	Trace Trace Trace
		348.9-349.8 Associated with chloritization and slight 359.7-367.8 silicification. Foliated at 51°	336 340	340 344	109843 109844	Trace Trace
		372.5-373.1	344	347	109845	Trace
		376.7-378.6	347	348.9	109846	Trace
		388.8-390.6	348.9 349.8	349.8 352	109847 109848	Trace 0.02
		397-400 Biotite-calcite alteration	357	359.7	109849	0.04
		407.3-412 Biotite-calcite-silicification with 2% stringers of pyrite. Sheared at 53°.	359.7 362.8 366	362.8 366 369	109850 109851 109852	Trace Trace Trace
		Basalt is fine-grained and uniform.	369	373.1	109853	Trace
		430 Basalt develops 2-3" zones of brecciation every 2-3". White carbonate in-filling with minor associated pyrrhotite.	372.5 373.1 376.7	373.1 376.7 378.6	109854 109855 109856	Trace Trace Trace
		469-473.2 Boudinaged and folded quartz-feldspar- porphyry vein. 3" thick. Slightly mylonitic with 2% pyrrhotite.	378.6 388.8 388.8	382 388.8 390.6	109857 109858 109859	Trace Trace Trace
		476.9-479 Disseminated pyrrhotite, 3-4%.	390.6	393	109860	Trace
		485-490.3 1% stringer pyrrhotite, 1% disseminated arsenopyrite. 3mm euhedral grains.	405 407.3	407.3 411.2	109861 109862	Trace Trace
		Basalt foliated at 48°.	411.2	415	109863	Trace
		498.3-505.6 Chloritized with stringers of pyrrhotite, 2%. Progressively more brecciation by irregular carbonate veins. Up to 40% carbonate veins at lower contact.	469 476.9 479 482	473.2 479 482 485	109864 109865 109866 109867	Trace Trace Trace Trace
		505.6-511.6 Silicification zone with pyrite as stringers and disseminations, 10%. Arsenopyrite as fine disseminations, 2%. Specific gravity = 2.85	485 487 490.3	487 490.3 493	109868 109869 109870	Trace Trace Trace
		510.2-511.6 Mostly chloritic. Still have arsenopyrite.	493 498.3 502.4 505.6	498.3 502.4 505.6 508	109871 109872 109873 109874	Trace Trace Trace 0.30
511.6	523	Intermediate to felsic Porphyry. Grey with pale medium-grained rounded avar feldspar phenocryst. Foliated slightly at 52°. First 3' looks quartz floodes - difficult to see phenocrysts. Slightly sericitic. Trace of fine disseminated pyrite.	508 510.2 511.6 513.6 521	510.2 511.6 513.6 516 523	109875 109876 109877 109878 109879	Trace Trace Trace Trace 0.01

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
523	711.5	Chloritic Basalt as previous. Well foliated at 50°.	523	525	109880	Trace
			525	525.5	109881	0.18
		525-525.5 Bands of biotite-carbonat shearing with	525.5	528	109882	Trace
		537-538.8 2% disseminated arsenopyrite.	535	537	109883	Trace
		550 2-551	537	538.8	109884	Trace
		554.7-555.2	538.8	541	109885	Trace
		576.2-577.4	548	550.2	109886	Trace
		579-580	550.2	551	109887	Trace
		581.2-582.8	551	554.7	109888	Trace
			554.7	557	109889	Trace
		585.2-586.8 No biotite-carbonate shearing but 3%	574	576.2	109890	Trace
		disseminated medium-grained arsenopyrite with 1%	576.2	577.4	109891	0.01
		stretched pyrite-pyrrhotite grains.	577.4	579	109892	Trace
			579	580	109893	0.12
		595 Start to get 10% flooded quartz-feldspar-	580	582.8	109894	Trace
		porphyry veins up to 5" thick and with wandering	582.8	585.2	109895	Trace
		contacts.	585.2	586.8	109896	Trace
			586.8	590	109897	Trace
		617.7-618.5 Zones of grey silicification with up	616	617.7	109898	Trace
		629.8-630.2 to 20% pyrrhotite and 2-3% fine	617.7	618.5	109899	Trace
		631.4-632.5 disseminated arsenopyrite. Also with	618.5	621	109900	Trace
		634.5-634.6 stringers of carbonate and car-	621	624	108301	Trace
		637-639.2 bonate banding.	624	626	108302	Trace
		677.6-679.3	626	628	108303	Trace
			628	629.8	108304	Trace
		626-628 Chlorite-carbonate alteration zone. Sheared	629.8	630.2	108305	0.42
		at 60°. Has 1% disseminated arsenopyrite and 1%	630.2	632.4	108306	Trace
		stringers pyrite.	632.4	633.5	108307	Trace
		641-643 Pinkish zone of solid silica maybe quartz	633.5	634.3	108308	Trace
		flooded quartz-feldspar-porphyry.	634.3	634.6	108309	Trace
		654-656 Mylonitized silica, 2% stringer pyrite.	634.6	637	108310	Trace
		675 quartz-feldspar-porphyry veins start getting up	637	639.2	108311	0.22
		to 1" thick.	639.2	641	108312	Trace
		687 Becomes medium-grained with 1/4" clots of what	652	654	108313	Trace
		appears to chloritized amphibole.	654	656	108314	0.10
		710-711.5 Cataclastic breccia. Cryptocrystalline	656	658	108315	Trace
		matriz with randomly oriented fragments of quartz-	676	677.6	108316	Trace
		feldspar-porphyry to 1" in dia. Some fragments are	677.6	679.3	108317	0.12
		calcareous.	679.3	682	108318	Trace
			706	710	108319	Trace
			710	711.5	108320	Trace
			711.5	714.5	108321	Trace

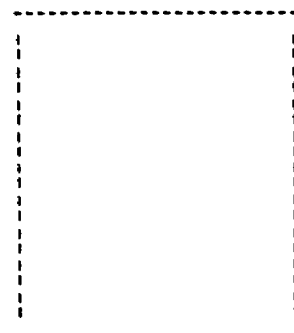
From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
711.5	772.7	Quartz-feldspar-porphyry. 50% pale feldspar and 30% bluish quartz phenocrysts and 10% chloritized mafic minerals. Minor disseminated pyrite. Foliated at 47°.				
	738-772.7	Variably tectonized quartz-feldspar-porphyry. Mostly sericitic schist with 30% blue quartz augen				
	746-749; 752-756	Mylonitized. Tan, sugary and well foliated at 48°.				
	757.5-758	Pink mylonite with 2% black-greenish medium-gained mafic minerals.				
	727.7	2" mylonite.				
772.7	781	Chloritized Basalt as previous. Foliated at 48°.				
781	937.5	Variably tectonized quartz-feldspar-porphyry as at 735.	926	928.5	108322	Trace
			928.5	932.4	108323	Trace
			932.4	935.4	108324	0.08
	803-804	Pink quartz vein	935.4	936.8	108325	Trace
	804.5-806; 809.5-810	Mylonite.	936.8	939	108326	0.01
	821.5-825.5	Grey quartz flooding				
	831-835.5	White mylonite zone with stringers and dissemination w/ 1-2% pyrite.				
	840-847	Mylonite.				
	857-859	Cryptocrystalline, tan mylonite.				
	859-861	Quartz flooded				
	865-873	Quartz flooded.				
	873-897	Not as tectonized. Minor shears and quartz flooding. Foliated at 50°.				
	904-906	Core broken-up				
	897	Start of quartz flooding shearing and orange potassium alteration.				
	928.5-932.4	Brecciated with pink carbonate infilling. Pale angular quartz-feldspar-porphyry fragments.				
	929.5	Core broken up. Numerous chloritic fractures. Minor pyrite.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
937.5	945.4	Altered Mineralized Basalt.	939	940	108327	Trace
		932.4-935.4 Grey silicification. Banded with stringers of 5% pyrite. No arsenopyrite?	940	944.4	108328	Trace
		935.4-936.8 Chloritized basalt. Stringers of pyrite, 5%.	944.4	945.4	108329	0.10
		936.8-939 Silicified, 5% stringers of pyrite. Trace of arsenopyrite.				
		939-940 Chloritized, minor pyrite.				
		940-944.4 Silicified. Stringers and disseminated pyrite, 5-10%.				
		944.4-945.4 Silicified with white carbonate fractures, 5% disseminated pyrite.				
945.4	998	Basalt. Dark green, well-foliated and magnetic down to 962. Medium-grained, slightly chloritic and non-calcareous.	945.4	948	108330	Trace
		953.4-954.2 Epidotic shear with 5-10% stringer pyrite.	953.4	954.2	108331	Trace
			956	960	108332	0.10
			960	961.5	108333	Trace
		960-961.5 5-10% disseminated pyrite with carbonate stringers. Fine-grained chloritic.	961.5	965	108334	Trace
998		End of hole. Casing left in hole.				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 885-32
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 136+01.2E;116+48.0N
 Length: 866 ft.
 Core Size: BQ
 Acid Tests: 50° @ 0; 48° @ 296'; 40° @ 606'; 37° @ 742'; 35° @ 856'
 Started: August 7, 1988
 Logged by: W. Rowell
 Azimuth: 360 degrees
 Tropic Tests: -49 az022 @100'; -49 az007 @350'; -38 az224 @600'; -40 az170 @856'
 Elevation: 9972.7
 Drill Company: Morrisette
 Completed: August 11, 1988
 Date Logged: August 12, 1988



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	72.0	Casing				
72.0	441.3	Basalt - Greyish-green; very fine to medium grained; localized silicification and chloritization; moderately fractured; localized shearing at 45 deg; 1% quartz-carbonate concentrated along thin fractures; 1% biotite and sericite concentrated in sheared areas; trace pyrite and pyrrhotite - more in sheared and silicified areas	122.1	123.5	108101	tr
			139.8	142.0	108102	tr
			151.5	154.5	108103	tr
			154.5	157.5	108104	0.04
		122.4 - 122.8 2% pyrite along quartz filled shear zone	166.0	169.2	108105	tr
		139.9 - 142.1 1% pyrite along fractures	210.3	213.0	108106	tr
		150.6 - 156.9 sheared at 48 deg with 3% quartz-carbonate and 1% pyrrhotite + pyrite	221.0	222.6	108107	tr
			222.6	224.6	108108	tr
		167.1 - 168.6 silicified with 3% pyrite along fractures				
		210.9 - 211.6 and 212.3 - 212.5 quartz-carbonate veins with 10% chlorite and 3% pyrite				
		221.2 - 222.4 80% quartz, 2% feldspar, 1% pyrrhotite, 1% pyrite				
		301.9 - 310.2 quite foliated with 15% biotite and 30% sericite schist, foliated at 32 deg, 0.5% pyrrhotite	301.9	304.9	108109	tr
			304.9	308.6	108110	tr
		336.0 - 336.9 50% quartz vein, 5% chlorite, 2% pyrite + pyrrhotite along fractures				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		412.1 - 412.2 60% brecciated basalt in bleached matrix	335.4	337.0	108111	tr
			337.0	338.8	108112	0.04
			379.1	381.1	108113	tr
		412.8 - 414.4 silicified with 4% pyrrhotite, 2% pyrite, 10% biotite	410.6	412.6	108114	tr
			412.6	414.4	108115	0.02
			414.4	417.0	108116	0.01
		414.4 - 426.1 silicified, 1% pyrrhotite + pyrite, 10% biotite, foliation at 43 deg	417.0	419.6	108117	tr
			419.6	422.1	108118	tr
			422.1	424.5	108119	0.08
		429.4 - 433.2 slightly silicified with 1% pyrite + pyrrhotite	424.5	425.8	108120	tr
			429.3	433.3	108121	tr
		438.6 - 440.1 2% pyrrhotite in slightly silicified and chloritized zone	438.4	440.0	108122	tr
441.3	445.4	Feldspar Porphyry - Gray; fine grained; medium grained anhedral to subhedral feldspars in fine grained matrix; moderately fractured; feldspars variably altered to sericite				
		442.0 - 443.2 medium grained anhedral feldspars in dark fine grained matrix				
		443.2 - 444.4 sericite schist with 60% sericite, no sulfide				
		444.4 - 445.5 5% anhedral feldspars 2 mm in length in dark matrix, no sulfide				
445.5	638.5	Basalt - Same as 72.0 - 441.3	446.0	447.9	108123	tr
			478.7	480.2	108124	tr
		445.4 - 447.4 quartz and 1% po along fractures	480.2	481.2	108125	0.06
			481.2	482.8	108126	tr
		469.3 - 486.3 <1% porphyritic feldspars up to 1 cm in length	497.7	499.0	108127	tr
			499.0	500.4	108128	0.12
		480.7 - 481.1 80% quartz, 10% carbonate, 5% biotite, 3 - 5% arsenopyrite in very fine needles and in blebs along fractures	500.4	501.7	108129	tr
			535.2	536.3	108130	tr
			536.3	537.6	108131	tr
		498.8 - 500.5 silicified along shears at 50 deg	537.6	538.3	108132	tr
			558.0	559.4	108133	tr
		499.9 - 500.4 80% quartz, 15% chlorite, 1% pyrrhotite	559.4	561.6	108134	tr
			561.6	564.4	108135	tr
		517.6 - 638.5 3% feldspar porphyry dikes up to 0.8 feet in width				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		536.5 - 537.1 silicified and chloritized with 5% pyrrhotite and 1% pyrite	564.4	566.0	108136	0.01
			566.0	568.4	108137	tr
			568.4	569.5	108138	tr
		558.7 - 561.1 slightly silicified with 5% biotite foliated at 41 deg, 2% pyrite	569.5	571.6	108139	tr
			571.6	574.1	108140	tr
			574.1	576.0	108141	0.02
		564.6 - 565.4 silicified with 1% pyrite and 1% pyrrhotite	589.4	590.5	108142	tr
		565.4 - 565.7 5% medium grained arsenopyrite along foliation planes and a few fine needles				
		568.8 - 569.2 quartz vein with 10% pyrrhotite				
		571.0 - 571.4 quartz flooded quartz diorite				
		573.8 - 574.0 silicified with 5% pyrrhotite				
		589.4 - 590.5 quartz flooded quartz-feldspar porphyry with trace pyrite				
		635.2 - 635.6 quartz flooded quartz-feldspar porphyry with 0.5% pyrite				
		640.3 - 641.3 quartz flooded with 2% pyrrhotite blebs				
638.5	654.4	Andesite (possibly called sediment in previous holes) - greenish grey; fine grained; massive; 20% slightly porphyritic feldspars up to 2 mm in length in the unit; pervasively chloritized, localized quartz flooding, 15% quartz-sericite schist; schistosity 51 deg; trace sulfides except in schist areas	638.7	640.1	108143	tr
			640.1	641.3	108144	0.06
			641.3	642.3	108145	tr
		640.3 - 641.3 quartz-sericite schist with 2% po along cleavage planes				
654.4	655.4	Quartz Diorite - Mottled grey and white; medium grained; 40% anhedral to subhedral feldspar, 45% quartz; 10% quartz flooded in fractured areas; 0.5% pyrite				
655.4	662.5	Andesite - Same as 638.5 - 654.4	660.5	662.4	108146	tr
			662.4	664.1	108147	tr
		656.8 - 662.6 sericitized zone, schistosity 46 degrees				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
662.5	698.9	Basalt - Greenish-grey; fine grained; quite fractured; 5% carbonate along fractures, localized silicification; <0.5% pyrite + pyrrhotite, trace arsenopyrite, sulfides locally concentrated	664.1	666.0	108148	tr
			666.0	668.5	108149	tr
			668.5	670.4	108150	tr
			670.4	673.0	108151	0.01
			673.0	675.5	108152	tr
		668.6 - 670.6 more silicified with 0.5% pyrrhotite + pyrite, trace arsenopyrite in fine needles	676.9	680.5	108153	0.01
		676.2 - 680.5 more fractured with 5% carbonate and 5% quartz along fractures				
698.9	701.1	Porphyritic Andesite - Dark grey; 15% anhedral to subhedral feldspar up to 4 mm in length in dark matrix; quite fractured; sheared at 48 deg; 1% pyrrhotite along shears	699.3	701.0	108154	tr
		701.1 - 701.9 finer grained and brecciated with 3% pyrite and 3% carbonate along margins of clasts				
701.1	703.1	Gouge - 30% rounded to subrounded clasts up to 2 cm in diameter in matrix of clay and carbonate; pyrite rims clasts and also occurs as clasts; original clasts with clay matrix have been rebrecciated and carbonate matrix introduced over 40% of the area	701.0	703.0	108155	tr
703.1	706.8	Silicified Basalt - Greenish grey; fine grained; highly fractured; bleached along fine fractures, 1% pink potassic alteration, 2% carbonate along fractures; <1% pyrite concentrated along fractures	703.0	706.0	108156	tr
706.8	710.4	Sericitized Quartz-Feldspar Porphyry - Greenish-brown; 50% sericitized feldspar, 40% elongated quartz; foliation 53 deg; <0.5% pyrite 709.6 - 710.4 quartz flooded				
710.4	866.0	Basalt - Greenish-grey; fine to medium grained; locally quite fractured; locally silicified; 1% carbonate primarily along fractures; 1% pyrrhotite + pyrite, trace chalcopryrite, trace arsenopyrite; locally magnetic due to pyrrhotite	710.4	712.1	108157	0.16
			712.1	714.1	108158	tr
			714.1	716.1	108159	tr
			716.1	718.8	108160	tr
			743.0	746.0	108161	0.02
			746.0	747.5	108162	0.01
		710.4 - 714.1 3% pyrrhotite, 1% pyrite, trace cpy.; sulfides along fractures and cleavage planes	747.5	749.8	108163	0.01
		730.8 - 732.6 silicified	749.8	751.5	108164	tr
		732.6 - 732.7 gouge	756.8	758.7	108165	tr
		735.7 - 736.3 feldspar porphyry similar to 698.9 - 701.1	758.7	761.1	108166	0.10
			761.1	762.2	108167	0.10
			762.2	764.0	108168	tr
		737.0 to end of hole primarily medium grained	770.4	772.0	108169	tr

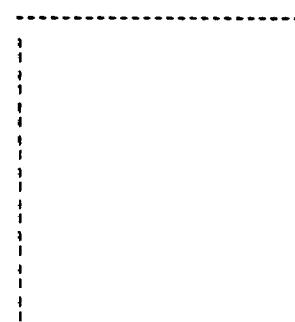
From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
	747.1 - 749.7	silicified and chloritized, 1% pyrrhotite	799.5	800.4	108170	tr
			800.4	801.5	108171	tr
			801.5	802.4	108172	tr
	758.7 - 762.4	silicified with 2% pyrrhotite + pyrite along fractures, trace arsenopyrite	813.7	816.8	108173	tr
			816.8	818.6	108174	0.01
	761.8 - 761.9	10% arsenopyrite in a band	818.6	820.1	108175	0.01
			820.1	821.6	108176	tr
	800.9 - 801.1	40% quartz vein with 5% pyrite	821.6	823.7	108177	tr
	816.8 - 822.0	Slightly silicified with 1% pyrrhotite, 2% pyrite, sulfides disseminated and along fractures, 3% biotite, 1% quartz	842.2	845.6	108178	tr
	866.0	End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-33

Page : 1

Property Owner: Twin Gold Mines Ltd.	_____
Grid location: 125+01.2E / 115+01.2N	Azimuth: 360 degrees _____
Length: 932 ft. _____	Tropari Tests: 39 @ 013 - 500; 40 @ 003 - 650
Core Size: BQ _____	36 @ 005 - 800 _____
Acid Tests: 45° - 300'; 38° - 600'	Elevation: 9983.7 _____
35° - 900'; 50° - 0' _____	Drill Company: Morrisette _____
Started: August 8, 1988 _____	Completed: August 11, 1988 _____
Logged by: R. Anderson _____	Date Logged: August 11, 1988 _____



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	52	Casing				
52	137.3	Basalt. Dark grey only slightly chloritic. Fine-grained. Magnetic. Minor pyrrhotite. 2-3% fine irregular carbonate veining. Also zones of fine banding chlorite-carbonate?	65	67.5	108335	tr
			67.5	69.1	108336	0.20
			69.1	71	108337	tr
			75.4	75.4	108338	tr
			77.9	78.7	108339	0.28
		72.9-78.7 Carbonate shear, 1% stringer pyrite.	78.7	81.5	108340	tr
		87.5-89.1 Silicified and sheared. 5% stringers of pyrite. Slightly chloritic. 1% disseminated	97.8	100.3	108341	tr
		arsenopyrite, Light and dark banding above and below.	100.3	101	108342	0.08
		100.3-101 Pyrite and pyrrhotite, 20%. Fine stringers.	101	103	108343	tr
		Slight amount of carbonate.	108	110.4	108345	0.01
			110.4	111.3	108346	tr
		110.4-111.3 1' white carbonate vein with 5-10% stringers of pyrrhotite above and below.	111.3	114	108347	tr
			134	136.3	108348	tr
		136.3-137.3 Chlorite-carbonate vein. 5% stringers of pyrite.	136.3	137.3	108349	tr
137.3	168	Chloritized basalt. Chloritic medium-grained amphiboles. Non-magnetic down to 168. Foliated at 50°.	137.3	140	108349	tr
			142	144.2	108350	tr
			144.2	146.6	108351	0.28
			146.6	149	108352	tr
		144.2-146.6 Silicification. Grey with carb-chlorite banding. Foliated at 50°.	149	151	108353	tr
			151	153.8	108354	tr
		150-155 Chlorite-carbonate-biotite alteration	153.8	155.8	108355	tr
		154.8 Medium-grained arsenopyrite, 1-2%.	155.8	158	108356	tr
168	402	Magnetic Basalt. Dark. Fine-grained. As at 52. Becoming more chloritic and non-magnetic	162	168	108357	tr
			168	170.5	108358	tr
		168-170.5 White quartz vein, 3% stringer pyrite, trace of chalcopyrite in chloritic margins.	170.5	175	108359	0.10
			195	197.5	108360	tr
		182-186 Biotite and 20% irregular angular calcite veinlets.	197.5	201.5	108361	tr
			201.5	203	108362	tr
			203	206	108363	tr

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
471.5-473.3	MINERALIZED ZONE. Arsenopyrite as fine disseminations, 15%. In fine-grained silica. Stringer	471.5	474.7	108389	0.34/0.40	
	pyrite-pyrrhotite, 5%. Foliated at 41°.	474.7	479	108390	tr	
473.3-474.7	Decreasing silicification. Pyrite, pyrrhotite, 3%. Minor arsenopyrite.	479	481	108391	tr	
		481	485	108392	tr	
479-481	Shearing at 46°. Silicified slightly with 1% fine disseminated arsenopyrite. Also stringer pyrite-pyrrhotite.	513	515.1	108393	tr	
		515.1	516.2	108394	0.04	
482-515	Fine silica fractures forming a grid. Fractures are parallel to and at right angles to foliation at 62°.	516.2	518.8	108395	tr	
		518.8	523.5	108396	tr	
515.1-516.2	Shearing with silicification and brecciating carbonate. Also stringers of pyrite-pyrrhotite, 5% and minor disseminated arsenopyrite.	523.5	525.4	108397	0.06	
		525.4	528	108398	tr	
516.7-518.8	Soft banded chlorite with dispersed arsenopyrite, 1%.	528	531	108399	tr	
		531	533	108400	0.06	
523-525.4	As at 515.1 Foliated at 42°.	541	542.6	2401	tr	
531-533	Similar to 515.1 but slightly greyer with 2-5% stringer pyrrhotite and minor pyrite. Also minor arsenopyrite.	542.6	543.1	2402	tr	
		543.1	545	2403	tr	
540	Develops 10-20% silicate veining. Appear to be silicified quartz-feldspar-porphry veins. Can only see phenocrysts in a few places. Up to 8" thick.	612.6	615.5	2404	tr	
542.6-543.1	Vein as described at 540. But with arsenopyrite in chloritic margins.	615.5	617.3	2405	tr	
570.5-574.5	Quartz flooded quartz-feldspar-porphry.	617.3	620.6	2406	0.02	
593-599.5	Recrystallized amphibole to 1/4". Chloritized.					
499.5-603	Quartz flooded quartz-feldspar-porphry.					
606-610	Calcite-biotite alteration. Foliated at 66°.					
612	Increase in brecciating carbonate veins down to lower contact.					
615.5-617.3	Pinkish orange silica vein. Slightly fractured.					
618.8	Gouge with silicification above and below. Still have brecciating carbonate veins down to contact at 620.6					

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)	
620.6	682.2	Quartz-feldspar-porphyry. Typical with 30% bluish quartz masses, 50% white feldspars and 20% chloritized mafic minerals. Minor interstitial pyrite. Slightly foliated at 37°. Very broken and brecciated down to 327. Dominant shear direction is 67°.	651	654	2407	tr	
			654	657	2408	tr	
			657	659	2409	tr	
			678	680	2410	tr	
			680	682	2411	tr	
		637-639.5 Quartz flooded.					
		647 Increasing shearing					
		651-661 Mylonite with sericite. Sheared at 42°. Trace of fine pyrite.					
		659 Below this point the textures are variable with quartz flooding and varying amounts of shearing. Textures can change over the course of 1'. Generally only minor pyrite.					
682.2	692.2	Chloritized Basalt. With 5% irregular carbonate veins. Dark green, medium-grained, well-foliated at 59°. Brecciated at the top and bottom contact. Top contact has 2" white calcite vein lined with pyrite.	682	684	2412	tr	
			684	686	2413	tr	
			686	689	2414	tr	
			689	692.2	2415	0.01	
			692.2	695	2416	tr	
692.2	853.8	Quartz-feldspar-porphyry similar to previous.	702.2	705	2417	tr	
			749.8	753.5	2418	tr	
			770	772	2419	0.02	
			775	777	2420	tr	
			743-747 Tan quartz flooding, minor pyrite.	836	838.5	2421	tr
			770-772; 775-777 Sericite schist - mylonite.	846	848.5	2422	tr
			767-793; 799-801 Quartz flooded, tan to grey.	846.5	851	2423	tr
			821-824; 827.5-830 Fine orange-pink fractures with potassium alteration and blue 1" quartz veins.	851	853.8	2424	0.01
			836-838.6 Feldspars and mafic minerals altering to grey clay. Appears to be mylonitized slightly as well.				
			838.6 Pink fractures with quartz flooding extending down to lower contact.				
			846 Start getting random carbonate fractures increasing downhole until the rock is completely brecciated.				
			851-853.8 Breccia.				
			852.8-853.8 Gouge oriented at 39°.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
853.8	867.3	Altered Basalt.	853.8	856	2425	0.01
			856	859.8	2426	0.04
		853.8-861.6 Black, fine-grained with chlorite and minor silicification zones. Broken by very fine carbonate fractures. S.G.= 2.8. With stringers of pyrite, 5% and trace of arsenopyrite.	859.8	861.6	2427	tr
			861.6	865	2428	0.01
			865	867.3	2429	0.01
		859.8-861.6 No apparent sulphides.				
		861.6-867.3 Mostly silicified . Again broken by carbonate fractures. 5% sugary pyrite. Minor arsenopyrite. No pyrrhotite? S.G.= 2.65				
867.3	932	Basalt. Appears recrystallized with black amphibole and white plagioclase. Minor amounts of chloritization. Minor epidote associated with small shears. Medium-grained Dark green to grey. Very well- foliated at 66° at the top and magnetic down to 920.	867.3	871	2430	tr
			876	879	2431	tr
			879	882	2432	tr
			882	885.2	2433	tr
			885.2	887	2434	tr
		879-885.2 Silicified with 6" bands of disseminated pyrite. Zone averages 5% pyrite.				
932		End of hole. Casing left in hole.				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-34

Page : 1

Property Owner: Twin Gold Mines Ltd.

Grid location: 13+500.1E; 11+788.3N

Length: 666.0 ft.

Core Size: BQ

Acid Tests: 52° @ 0'; 39° @ 306';

-35 @ 646

Started: August 11, 1988

Logged by: W. Rowell

Azimuth: 360 degrees

Tropari Tests: 200' az 001 -43; 400' az

001 -37; 496' az 000 -35; 696 az 000 -34

Elevation: 9979.5

Drill Company: Morrisette

Completed: August 14, 1988

Date Logged: August 15, 1988

Other Tests:

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag	Gold
0	34.0	Overburden				
34.0	229.3	Basalt - Greyish-green; fine to medium grained; moderately fractured; slightly sheared; 2% quartz-carbonate concentrated along randomly oriented shears and tension gashes, slightly chloritized locally silicified; 0.5% pyrite, 0.5% pyrrhotite trace arsenopyrite; nonmagnetic	39.2	41.7	108179	tr
		58.2 - 60.0 more fractured with 2% pyrrhotite + pyrite	58.0	60.3	108180	tr
		103.6 - 106.0 slightly silicified	114.0	116.0	108181	tr
		126.0 - 129.6 silicified	126.9	129.7	108182	tr
		183.4 - 183.6 quartz-feldspar vein	200.5	203.5	108183	tr
		200.6 - 207.2 1% pyrite + pyrrhotite along fractures, chloritized, slightly magnetic	203.5	205.3	108184	tr
		222.2 - 225.5 increasingly fractured with 1% pyrrhotite + pyrite, trace arsenopyrite	205.3	207.4	108185	0.10
		225.5 - 226.6 3% disseminated arsenopyrite, 1% pyrite	222.5	224.9	108186	0.01
		227.4 - 228.3 1% disseminated arsenopyrite, 1% pyrrhotite	224.9	226.0	108187	0.12
			226.0	227.4	108188	tr
			227.4	228.5	108189	0.32
229.3	231.9	Porphyritic Andesite - Grey; 15% poorly developed feldspars up to 2 mm in length in dark grey matrix; quite fractured at 51 deg; 3% quartz along fractures; upper contact 61 deg	228.5	229.5	108190	tr
231.9	369.4	Basalt - Greenish-grey; fine to medium grained; moderately fractured over first 60' then highly fractured; 2% quartz-carbonate along fractures, pervasive chloritization, localized silicification, <1% epidote, <1% garnet, 1% biotite, <0.5% pyrite + pyrrhotite	279.1	282.2	108191	tr
		279.0 - 282.4 quite fractured with 5% quartz-carbonate along fractures and 1% garnet-epidote				

From	To	Description	From	To	Number	
		293.4 - 293.5 quartz-feldspar vein, lower contact 45 deg				
		293.4 to end of unit felsic veins with poorly de- veloped feldspars become more frequent				
		333.8 - 335.8 10% schistose biotite at 43 deg, 5% quartz, 1% pyrrhotite	303.8	306.0	109192	tr
		337.6 - 339.2 60% quartz flooded quartz-feldspar porphyry, 1% pyrrhotite in large blebs	306.0	309.0	109193	0.02
		363.9 - 365.8 quartz flooded quartz-feldspar porphyry	309.0	312.0	109194	tr
			334.4	335.5	109195	tr
			342.1	344.1	109196	tr
369.4	372.8	Quartz Flooded Quartz-Feldspar Porphyry - Greyish- white; fine to medium grained; quartz flooded over 70% of unit, anhedral to euhedral feldspars up to 5 mm in length developed over 30% of unit; 5% chlorite trace sulfide; nonmagnetic				
372.8	420.3	Basalt Intercalated with Quartz-Feldspar Porphyry - 371.8 - 372.4 30% biotite	390.4	391.4	108197	0.01
		386.1 - 386.2 25% pyrrhotite along quartz-carbonate filled fracture	391.4	392.8	108198	tr
		391.4 - 392.8 2% pyrite along fractures, trace ar- senopyrite	392.8	393.6	108199	tr
		393.0 - 396.3 quartz flooded quartz-feldspar porphyry				
		408.0 - 408.7 5% anhedral to subhedral feldspars up to 2 mm in length in basalt				
		412.1 - 414.0 silicified with 2% pyrrhotite, 1% pyrite	411.3	412.4	108200	tr
		417.0 - 418.5 50% biotite, 5% carbonate along frac- tures at 46 deg, <0.5% arsenopyrite	412.4	414.9	2801	0.14
			414.9	416.0	2802	0.02
			416.0	416.9	2803	tr
		418.5 - 420.3 quartz flooded with 1% pyrite, 2% ep- idote	416.9	418.6	2804	tr
			418.6	419.8	2805	tr
			419.8	423.4	2806	tr
420.3	424.4	Quartz-Sericite Schist - Brownish-green; fine to med- ium grained; 40% sericite, 40% quartz, quartz flooded over 10%, <0.5% pyrite; schistosity 45 deg	423.4	426.4	2807	tr
			426.4	428.8	2808	tr
			428.8	431.6	2809	tr
424.4	426.4	Quartz Diorite - Mottled black and white; medium grained, 45% anhedral to subhedral feldspar, 30% quartz, 20% an- hedral amphibole, 1% epidote, quartz flooded over 5%, slight potassic alteration; <0.5% pyrite + pyrrhotite				
426.4	431.8	Quartz Flooded Quartz Diorite - Greyish-white; quartz flooded throughout with a few feldspars, 1% chlorite, <0.5 disseminated pyrrhotite				
431.8	436.4	Andesite? - Grey; fine grained; massive; possibly called sediment earlier; unmineralized				
		434.4 - 435.2 quartz diorite				
436.4	441.2	Fractured Basalt - Grey; fine grained; highly fractured				

From	To	Description	From	To	Number	Gold
		with 5% carbonate along fractures, pervasively chloritized; trace sulfide				
441.2	442.5	Quartz Diorite - Greenish-grey; medium grained; pervasively sericitized; minerals foliated at 56 deg; trace sulfides				
442.5	443.9	Andesite - Similar to 431.8 - 436.4				
443.9	453.4	Quartz-Sericite Schist - Greenish-brown; fine to medium grained; 40% sericite, 45% quartz; quartz flooded over 10%, 3% quartz-carbonate along fractures, <1% epidote; 1% pyrite + pyrrhotite along fractures	443.2 446.0 448.9 452.2	446.0 448.9 452.2 454.7	2810 2811 2812 2813	tr tr tr tr
453.4	485.9	Basalt - Greenish-grey; fine grained; pervasively chloritized, locally silicified; moderately fractured; 1% quartz-carbonate along fractures, <1% epidote; 1% pyrite + pyrrhotite along fractures 453.4 - 454.6 5% carbonate along fractures, 1% pyrite + pyrrhotite 476.6 - 485.9 very brecciated and broken up core 485.0 gouge	454.7 456.4 457.3 460.2	456.4 457.3 460.2 462.9	2814 2815 2816 2817	tr 0.01 tr tr
485.9	486.8	Quartz-Sericite Schist - Similar to 443.9 - 453.4	487.5	490.5	2818	tr
486.8	497.1	Quartz Diorite Intercalated with Quartz-Sericite Schist - 60% quartz diorite, 40% quartz-sericite schist; trace sulfide in quartz diorite, 0.5% in quartz-sericite schist	490.5 493.6 496.7	493.6 496.7 499.1	2819 2820 2821	0.01 tr tr
497.1	519.7	Quartz-Sericite Schist - Greenish-brown; fine to medium grained; 50% sericite, 40% elongated quartz; schistosity 60 deg 510.6 - 510.7 gouge	499.1 503.0 506.0 508.0 509.8	503.0 506.0 508.0 509.8 511.8	2822 2823 2824 2825 2826	tr tr tr tr tr
519.7	666.0	Basalt - Greenish-grey; fine grained; pervasively chloritized, locally silicified; moderately fractured with 1% quartz-carbonate concentrated along fractures 519.7 - 522.8 slightly silicified with 2% pyrrhotite, 1% pyrite 528.7 - 529.6 chert 541.4 - 546.9 silicified or cherty with 2% pyrrhotite, 2% pyrite in large blebs filling tension gashes, trace arsenopyrite 548.6 becomes medium grained recrystallized basalt, 50% amphibole, 45% saussuritized plagioclase, slightly magnetic throughout most of it 550.7 - 551.0 chert 559.9 - 571.2 slightly silicified 591.5 - 591.7 20% quartz vein, 5% pyrite filling fractures up to 1 cm wide 601.7 - 608.0 locally silicified with 1% pyrite +	511.8 514.0 516.0 518.0 519.7 521.8 522.8 526.0 528.6 529.8 532.6 536.0 537.8 540.7 542.7 544.5 546.4	514.0 516.0 518.0 519.7 521.8 522.8 526.0 528.6 529.8 532.6 536.0 537.8 540.7 542.7 544.5 546.4	2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843	0.01 0.12 0.12 0.08 0.01 tr 0.01 tr 0.12 0.04 0.01 0.12 0.01 tr 0.01 0.10 tr

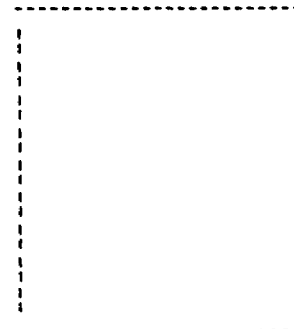
From	To	Description	From	To	Number	
			559.7	562.8	2844	0.06
		pyrrhotite	562.8	565.2	2845	0.01
		642.5 - 642.9 quartz vein	565.2	567.4	2846	0.01
		645.4 - 646.6 slightly silicified with 1% pyrrhotite + pyrite	567.4	570.4	2847	tr
			570.4	572.7	2848	0.08
			591.1	592.1	2849	tr
			592.1	593.6	2850	tr
			601.7	604.7	2851	tr
			604.7	608.0	2852	0.01
			608.0	610.1	2853	tr
			616.9	618.4	2854	tr
			642.6	643.6	2855	tr
666.0		End of Hole	645.4	646.7	2856	tr

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-35
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 126+00 E/ 115+75 N
 Length: 796 ft.
 Core Size: BQ
 Acid Tests: 45° - 0'; 41° - 300'
 33° - 600; 31° - 796'
 Started: August 12, 1988
 Logged by: R. Anderson

Azimuth: 360 degrees
 Tropic Tests: 43 @ 007 - 400; 35 @ 003 - 500'
 31 @ 005 - 600'
 Elevation: Surface, 9988'
 Drill Company: Morrisette
 Completed: August 15, 1988
 Date Logged: August 15, 1988



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	32	Casing				
32	58	Basalt. Fine to medium-grained. Variably magnetic. Top of the unit is not magnetic, becomes magnetic at 50' Dark green. Non-calcareous generally but with minor calcite-filled fractures.	50	52	2435	tr
				55	2436	tr
				58	2437	tr
		52-58 Stringers of pyrrhotite up to 5% diffused through the rock. Foliated at 45°				
58	63	Intermediate grey Feldspar Porphyry. Fine-grained with poorly developed white medium-grained feldspar grains.				
63	278.5	Basalt as at the top of the hole. Slightly more chloritic and well-foliated at 50°. Minor zones of the following:	66	70	2438	tr
			73	76	2439	tr
			76	79	2440	tr
			86.8	88.2	2441	tr
		68; 76-79 Chlorite-carbonate shear with 3% stringer pyrite.	88.2	90	2442	tr
			90	92.5	2443	tr
		86.8-88.2 Stretched pyrrhotite grained, 3%.	92.5	93	2444	0.10
		90-96 Very altered, paler, buff green.	93	93.9	2445	tr
		92.5-93 2" band of 2-3% stringer pyrite, 15% arsenopyrite (medium-grained).	93.9	96	2446	tr
			96	100	2447	tr
		93.8-96 Bands of stringer pyrite containing up to 20% pyrite.	100	103	2448	0.08
		100-103 Very chloritic, as at 90. Stringer pyrite, 5%.				
		115-118 Calcareous.				
		Below 103, 5-10% irregular white calcite veins.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		122-126 Dispersed disseminated medium-grained arsenopyrite, 1-2%. Zone is foliated at 36°. Pyrite, 2-3% down to 128.	120	122	2449	tr
		150-170 Carbonate-chlorite banding.	122	123.7	2450	0.01
		180-185 Medium-grained chlorite and actinolite. Foliated at 47°. Minor masses of pyrite.	123.7	126	2451	tr
		187.5-188.5 6" quartz vein, 5% pyrrhotite.	126	128	2452	tr
		187.7-199 Stringer pyrite, 10%	187.5	188.5	2453	tr
		210 2-3% pyrrhotite as fine stretched grains.	197.7	199	2454	tr
		244 Gouge oriented at 41°.	276	278.5	2455	0.10
278.5	284.5	Feldspar Porphyry. Silicified. Grey, poorly developed phenocrysts. Upper contact is brecciated.	278.5	281	2456	tr
284.5	441	Chloritic Basalt as previous.	294	297.6	2457	tr
		297.6-298.8 Stringers of calcite. Stringers of pyrrhotite, 3-5%.	297.6	298.8	2458	tr
		307.2 Gouge at 42°.	298.8	303	2459	tr
		330.6-331.4 Carbonate, silica, calcite shear. Minor arsenopyrite.	327	330.6	2460	tr
		335.4-336.2 Silicified. 1% fine arsenopyrite. 2% fine pyrite.	330.6	331.4	2461	tr
		337.5-339.1 Silicified with 5% stringer pyrite.	331.4	335.4	2462	tr
		339.1-341.2 Grey silicified-cherty. With 2% fine arsenopyrite.	335.4	336.2	2463	0.22
		341.2-342 Slightly biotized. Calcareous. 5% white calcite veins.	336.2	337.5	2464	tr
		325 Start to get random grey quartz-flooded quartz-feldspar-porphyry veins. Generally sub-conformable. Percentage of these veins and thicknesses increase downhole.	337.5	339.1	2465	tr
		366 Vein of potassium altered quartz-feldspar-porphyry.	339.1	341.2	2466	tr
		360-371.5 Criss-crossing fine carbonate veinlets forming a network down to what may be a flow breccia at 371.5-372.5.	339.1	341.2	2467	tr
		372-378 Wandering bands, 1-2" thick, of pale green carbonate-quartz. Basalt is generally slightly calcareous with fine white calcite veining.	389	392	2468	tr
		392-394.4 Silicified. Disseminated fine arsenopyrite in bands, 3%. Stringers of pyrite-pyrrhotite, 3-5% oriented at 22°. Banding at 40°.	392	394.4	2469	0.14
		394.4-395.5 Biotite-calcite alteration. With 10% wandering irregular calcite veins.	394.4	395.5	2470	tr

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		395.5-396.6 Silicified with stringers of pyrite- pyrrhotite, 15%.	395.5	396.6	2471	tr
		397-398.5 Quartz flooded quartz-feldspar-porphry.	396.6	399	2472	tr
		Basalt is non-calcareous at this point.	408	411.2	2473	tr
		399-400.5; 403-405.6 quartz-feldspar-porphry.	411.2	412.2	2474	0.18
		400.5 Basalt becomes non-magnetic.	412.2	414	2475	tr
		406.5-407.2 Silicified. Disseminated arsenopyrite, 1%	436	439.1	2476	tr
		435 Start to get calcite fractures again.	441	441	2478	0.10
		439.1-441 Grey, mylonitic. With 3% euhedral pyrite grains.				
441	462.6	Grey silica. Appears to be a flooded quartz- feldspar-porphry. Can see quartz and feldspar phenocrysts near the top next to the mylonite. Also 1 or 2, 8" basaltic zones near the top and bottom of the unit.				
462.6	509	Basalt. Similar to previous. Slightly chloritic. Massive, becoming foliated at 48° at the mineralized zone.	479	481.5	2478	tr
			481.5	482.5	2479	0.16
			482.5	485	2480	tr
		481.5-482.5 Silicified with stringers of pyrite and pyrrhotite. 1% fine arsenopyrite.				
		485-509.6 Quartz-feldspar-porphry veins. All silica flooded. 20-30% of the core.				
		496-509.6 Medium-grained clots of amphibole. Slightly chloritic. Broken-up by fine carbonate fractures related to the contact with the next unit.				
509	732.3	Quartz-feldspar-porphry. 50% subhedral orthoclase, 30% quartz masses, 20% altered mafic minerals. Variable texture due to quartz flooding and varying amounts of shearing.	561	564	2481	tr
			582	583	2482	tr
			587	588.6	2483	0.14
			588.6	589.4	2484	0.28
			589.4	592	2485	tr
		509.6-517 Quartz flooded. crypto-crystalline.				
		515-517 Orange, potassium alteration.				
		517 Sheared and foliated quartz-feldspar-porphry. Grey and well-foliated. Feldspars are ground and saussuritized. Some sericite. Mylonitic in places. Foliated at 42°.				
		514.8 Gouge at 42°.				
		561-564 Mylonite zones with sericite. Tan colour.				
		582-583				
		587-588.6				
		589.4-592				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		588.6-589.4 Greenish carbonate with 30-40% blue quartz fragments. Breccia.	604	607.9	2486	tr
		597-613 Sericite schist.	628.5	629.5	2487	tr
		604-607.9 Nylonite.	637.4	638.5	2488	tr
		660-662 Disseminated medium-grained pyrite, 5% in foliated quartz-feldspar-porphyry. Foliated at 46°.	660	662	2489	tr
		693.3-694.5 Clear quartz veins with sericitic nylonite above and below.	690	693.3	2490	0.01
		713-715 5% disseminated pyrite in foliated quartz-feldspar-porphyry. Foliated at 55°.	693.3	694.5	2491	tr
		726.5-729.5 Mylonitized.	694.5	697.5	2492	0.14
		728-729 Gouge oriented at 65°. Rock is rotten.	713	715	2493	0.01
		729.5-732.3 Brecciated by carbonate and chlorite veins. Core broken-up mostly at 58°.	724	726.5	2494	0.01
			726.5	729.5	2495	0.02
			729.5	732.3	2496	0.01
732.3	741.8	Mineralized Zone. Mostly silicified basalt. 5% stringer pyrite throughout.	732.3	734.7	2497	0.18
		732.3-734.7 Silicified with minor very fine arsenopyrite.	734.7	735.6	2498	tr
		734.7-735.7 Felsic. Grey feldspar porphyry. No sulphides.	735.6	738.3	2499	tr
		735.6-738.3 More chloritic. No arsenopyrite.	738.3	741.8	2500	0.12
		738.3-741.8 Fine to medium-grained arsenopyrite, 2-3%. Silicified.	779	782	2701	tr
741.8	796	Basalt. Magnetic near upper contact down to 790. Dark green-grey. Mafic minerals are slightly chloritic. Uniform. Foliated at 52 degrees. Trace of disseminated pyrite. Minor epidotization and chloritization associated with small shears.				
		779-782 Fine-grained, sheared at 50°. With stringers of pyrite.				
796		End of Hole. Casing left in hole.				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-36

Page : 1

Property Owner: Twin Gold Mines Ltd. _____
 Grid location: 133+99.7E; 116+82.9N _____
 Length: 693 ft. _____
 Core Size: BQ _____
 Acid Tests: -42 @ 300'; -33 @ 596'
 -31 @ 693'; -54 @ - 0' _____
 Started: August 14, 1988 _____
 Logged by: W. Rovell _____

Azimuth: 360 degrees _____
 Sperry Sun Tests _____
 Elevation: 9980.4 _____
 Drill Company: Morrisette _____
 Completed: August 18, 1988 _____
 Date Logged: August 19, 1988 _____



Other Tests: 40 @ 358 - 306; 34 @ 005 - 506' _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag #
0	34.0	Casing			
34.0	344.5	Basalt - Greenish-grey; fine to medium grained; moderately fractured; 1-2% quartz-carbonate concentrated along fractures up to 5 mm wide; 1% biotite in slightly sheared areas; 0.5% pyrite + pyrrhotite, trace arsenopyrite; sulfides locally concentrated			
	42.9 - 97.8	slightly silicified with 1% pyrite and 0.5% fine grained arsenopyrite	41.8	42.8	2857 tr
			42.8	44.4	2858 0.10
			44.4	46.0	2859 Trace
	92.3 - 97.8	highly fractured with 3% quartz-carbonate along fractures, 2% biotite	95.0	98.0	2860 tr
			116.6	119.0	2861 tr
			119.0	122.0	2862 0.01
	119.0 - 121.8	carbonitized and silicified with 1% pyrite			
	128.4 - 128.8	1% pyrrhotite, 1% chalcopyrite in quartz-carbonate filled fracture up to 1 cm wide	128.0	129.4	2863 tr
	159.6 - 162.3	highly fractured with 5% quartz-carbonate and 0.5% pyrite + pyrrhotite	159.6	162.3	2864 tr
	173.8	gouge			
	175.8 - 176.0	15% brecciated basalt clasts up to 1 cm in diameter with calcite matrix	194.9	196.9	2865 tr
			196.9	199.0	2866 0.12
			199.0	201.9	2867 tr
	196.3 - 196.6	gouge	201.9	203.7	2868 tr
			203.7	205.6	2869 tr
	196.8 - 204.3	slightly silicified with 0.5% arsenopyrite and 1% pyrite in concentrated areas	211.0	212.5	2870 tr
			212.5	213.5	2871 tr
	197.2 - 198.6	1% arsenopyrite, 2% pyrite	213.5	215.2	2872 tr

From	To	Description	From	To	Number
		202.2 - 203.8 0.5% arsenopyrite, 1% pyrite	215.2	217.1	2873 tr
		212.8 - 213.1 silicified with 1% pyrite + pyrrhotite	230.3	232.8	2874 tr
		213.9 - 214.8 silicified			
		216.5 - 217.1 silicified			
		255.2 probable gouge	282.7	285.8	2875 tr
		279.2 - 279.6 basalt breccia with clasts up to 1 cm in diameter within bleached matrix	311.9	313.4	2876 tr
			313.4	315.0	2877 0.08
			315.0	317.0	2878 0.01
		313.4 - 315.1 slightly silicified with 1% pyrite	317.0	319.1	2879 tr
			319.1	321.2	2880 0.08
		315.1 - 321.4 more silicified with 2% pyrite, 1% pyrrhotite and trace arsenopyrite, sulfides along fractures, quartz occasionally in slightly rounded clasts up to 1.5 cm in diameter	321.2	323.1	2881 tr
			323.1	325.6	2882 tr
			325.6	327.5	2883 0.10
			327.5	328.6	2884 0.08
			328.6	330.6	2885 tr
		321.4 - 325.5 primarily chlorite with 0.5% pyrite + pyrrhotite, trace arsenopyrite			
		325.5 - 328.7 chloritic with 3% pyrrhotite, 1% pyrite, trace arsenopyrite			
		lower contact 35 deg			
344.5	351.6	Feldspar Porphyry - Dark grey; medium to fine grained; 50% anhedral to subhedral feldspars 2 - 5 mm in length in matrix of feldspar and mafics; trace sulfide			
		350.6 - 351.2 70% quartz, 30% brecciated chloritized basalt			
351.6	353.1	Basalt - Greenish-grey; fine grained; massive; 10% slightly porphyritic anhedral feldspars; trace sulfide; lower contact 60 deg			
353.1	372.3	Feldspar Porphy Intercalated with Basalt - Units similar to 344.5 - 351.6 and 351.6 - 353.1			
		353.2 - 353.8 fine grained intermediate section similar to unit called andesite or possible sediment			
		357.3 - 359.6 basalt			
		364.6 - 365.8 basalt			

From	To	Description	From	To	Number	
		370.5 - 370.8 porphyritic feldspars decrease in number	369.1	370.4	2886	tr
			370.4	371.5	2887	tr
		370.8 - 371.5 feldspars gone, slightly silicified, trace pyrite + arsenopyrite	371.5	372.5	2888	0.14
			372.5	375.0	2889	tr
		371.5 - 372.3 1% fine grained arsenopyrite in blebs and needles, 0.5% pyrite				
372.3	451.8	Basalt - Greenish-grey; fine grained moderately fractured with 1% quartz-calcite along fractures, primarily slightly chloritized, locally silicified, 1% biotite 0.5% pyrite + pyrrhotite; locally magnetic	389.6	390.8	2890	tr
			390.8	391.8	2891	0.01
			391.8	393.3	2892	tr
		390.8 - 401.7 fine grained intermediate intrusive with 1% pyrrhotite, 0.5% pyrite, trace arsenopyrite, upper contact 29 deg				
		401.7 - 402.0 core very broken along chloritized fractures				
		410.2 unit becomes more chloritized	410.2	412.5	2893	tr
			412.5	414.6	2894	tr
		428.6 - 429.3 quartz flooded quartz-feldspar porphyry with slight potassic alteration				
		428.6 to end of unit frequent quartz-feldspar porphyry veins				
		438.2 - 438.6 5% pyrrhotite along fractures in highly chloritic zone	437.5	439.5	2895	tr
451.8	453.6	Fine Grained Intermediate Intrusive - Grey; fine grained; massive; <1% poorly formed feldspars up to 2 mm in diameter, slightly chloritized; trace sulfide				
453.6	492.0	Basalt - Same as 372.3 - 451.8				
		468.4 - 471.2 silicified with 1% pyrrhotite	468.9	471.2	2896	0.01
492.0	493.3	Quartz Flooded Quartz-Feldspar Porphyry - Greyish-white; fine to medium grained; 30% anhedral feldspars up to 3 mm in length; quartz flooded over 30% of unit; quite fractured with chlorite along fractures; trace sulfides				
493.3	497.8	Basalt - Greenish-grey; fine to medium grained; chloritized; <0.5% sulfide				
		495.0 - 496.4 quartz flooded quartz-feldspar porphyry lower contact 43 deg				

From	To	Description	From	To	Number
497.8	506.7	Quartz-Sericite Schist - Greenish-brown; primarily fine grained; 45% sericite, 50% quartz; schistosity 55 deg; trace sulfides			
		506.0 - 506.7 quartz flooded quartz-feldspar porphyry with very few feldspars			
506.7	513.3	Basalt - Greenish-grey; fine to medium grained; slightly fractured; slightly chloritic; <0.5% sulfide			
		506.7 - 509.1 10% anhedral feldspars up to 2 mm in diameter and 10% rounded greenish amphibole up to 3 mm in diameter			
513.3	514.7	Quartz-Sericite Schist - Same as 507.8 - 516.7			
514.7	516.8	Quartz Flooded Quartz-Feldspar Porphyry - Same as 492.0 - 493.3			
516.8	524.4	Fine Grained Intermediate Intrusive - Same as 451.8 - 453.6			
524.4	532.6	Quartz Diorite - mottled whitish-grey and black; medium grained; 30% anhedral to subhedral slightly sericitized feldspars, 40% quartz, 20% dark amphibole; quartz flooded over 25% of unit; <0.5% sulfide			
		526.4 - 527.4 quartz-sericite schist			
		531.0 - 531.7 fine grained intermediate intrusive			
532.6	533.0	Fine Grained Intermediate Intrusive - Same as 451.8 - 453.6			
533.0	548.8	Quartz-Sericite Schist Intercalated with Quartz Flooded Quartz Feldspar Porphyry - Similar to 513.5 - 514.7 and 514.7 - 516.8	534.7 536.9 539.4	536.9 539.4 542.5	2897 tr 2898 0.01 2899 tr
		536.8 - 539.2 1% pyrite in quartz flooded quartz-sericite schist			
548.8	574.8	Basalt - Greenish-grey; fine grained; quite fractured with 3% quartz-carbonate along fractures; primarily chloritized, locally silicified; 1% pyrrhotite + pyrite locally concentrated; slightly magnetic	548.9 552.0 555.0 558.1 560.6	552.0 555.0 558.1 560.6 563.6	2900 tr 2901 tr 2902 0.01 2903 tr 2904 0.06
		555.9 - 556.3 s-shaped drag fold	563.6 566.8	566.8 569.0	2905 tr 2906 0.02
		from 566.0 to end of unit becomes increasingly shattered	569.0	571.7	2907 tr

From	To	Description	From	To	Number	Gold
		569.8 - 570.3 quartz flooded quartz diorite with potassic alteration				
		574.0 - 574.8 with quartz diorite and basalt clasts				
574.8	578.0	Shattered Quartz Flooded Quartz Diorite - Pinkish-grey; brecciated and quartz flooded with pink potassic alteration; very broken up; trace sulfide				
578.0	603.6	Quartz-Sericite Schist - Greenish-brown; fine to medium grained; 65% sericite, 30% quartz; schistosity 58 deg; locally quartz flooded; trace pyrite; very broken up	578.0	582.0	2908	0.01
			582.0	586.0	2909	0.02
			586.0	590.6	2910	tr
			590.6	594.5	2911	tr
		586.0 - 590.6 more like quartz diorite than quartz-sericite schist	594.5	597.0	2912	tr
			597.0	600.1	2913	0.02
			600.1	603.6	2914	tr
		594.3 - 596.7 quartz flooded zone with 10% potassic alteration	603.6	606.0	2915	tr
			606.0	608.1	2916	tr
603.6	616.9	Silicified Basalt Intercalated with Quartz-Sericite Schist - Grey to brownish grey; predominantly fine grained; 80% silicified basalt, 30% quartz-sericite schist (most near top of unit); 1% pyrite, 0.5% pyrite, trace arsenopyrite, sulfides locally concentrated	608.1	609.7	2917	0.08
			609.7	611.0	2918	0.12
			611.0	612.2	2919	0.18
			612.2	614.3	2920	0.22
			614.3	616.9	2921	0.16
			616.9	619.2	2922	tr
616.9	666.8	Basalt - Greenish-grey; fine grey; moderately fractured with 1% quartz-calcite concentrated along fractures, primarily chloritized but locally silicified; 1% pyrrhotite, 0.5% pyrite, trace arsenopyrite	619.2	621.5	2923	0.01
			621.5	623.7	2924	tr
			623.7	626.0	2925	0.02
			626.0	628.2	2926	0.02
			628.2	629.4	2927	0.06
		629.6 - 630.5 highly silicified with 1% arsenopyrite in fine needles especially between 630.0 - 630.3, 1% pyrite + pyrrhotite	629.4	630.6	2928	0.08
			630.6	633.0	2929	0.02
			633.0	635.0	2930	tr
			635.0	636.7	2931	tr
		636.9 - 639.3 silicified with 2% pyrrhotite + pyrite	636.7	639.2	2932	tr
			639.2	642.0	2933	tr
		657.6 - 657.9 2% pyrite and 2% pyrrhotite in 1 cm wide fracture	642.0	645.0	2934	0.01
			654.7	657.2	2935	0.02
		659.5 - 660.0 silicified	657.2	659.4	2936	tr
			659.4	662.5	2937	0.18
		662.6 - 663.8 - silicified with 2 % medium grained arsenopyrite cubes and 1% pyrite	662.5	663.7	2938	0.08
			663.7	665.2	2939	0.02
			665.2	666.2	2940	0.04
		654.3 - 654.5 brecciated with bleached matrix	666.2	667.3	2941	tr
			667.3	668.4	2942	tr
666.8	693.0	Medium Grained Recrystallized Basalt - Greenish-grey, medium grained; 50% slightly foliated green amphibole, 45% saussuritized plagioclase; slightly fractured; <1% quartz-calcite along fractures; 0.5% sulfide; primarily				

From To

Description
nonmagnetic

From

To

Number

Gold

693.0

End of Hole (casing left in)

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-37

Page : 1

Property Owner: Twin Gold Mines Ltd.	Azimuth: 360 degrees
Grid location: 127+00.5E / 115+99.4N	Tropari Tests: 400001 - 400; 37 @ 351 - 500
Length: 826 ft.	35 @ 009 - 600
Core Size: BQ	Elevation: 9989.4
Acid Tests: 50° - 0'; 45° - 300'	Drill Company: Morrisette
39° - 600'; 34° - 826'	Completed: August 18, 1988
Started: August 15, 1988	Date Logged: August 26, 1988
Logged by: R. Anderson	



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	24	Casing				
24	83.7	Basalt. Dark green, medium-grained, massive with minor pyrite. Generally non-calcareous. Zones of magnetism. Minor carbonate veinlets with random orientations	51	55	2702	Trace
			81	83.2	2703	Trace
		42.5 Gouge. Chlorite, rusty. Core is paler to surface. Buff green due to oxidation?				
		42.5-46.5 Foliated with quartz and carbonate, 1/4' banding. Foliated at 45°.				
		51-55 5% stringer and stretched disseminated pyrrhotite. Centred around a silica band at 53'.				
		81-83.2 Biotized. Well-foliated at 42°. 5% stringer pyrite.				
83.7	465.2	Chloritic Basalt. Not as massive. Still fine to medium-grained and non-calcareous. Variably magnetic. Pyrite and pyrrhotite, 2%. Foliated at 40°.	97.2	98.5	2704	0.01
			110.3	111.8	2705	Trace
			120	122.5	2706	Trace
			122.5	125.1	2707	Trace
		97.2-98.2 Pyrite, chalcopyrite, 1-2%. As stringers.	186	187	2708	Trace
		110.3-111.8 Contorted silicification zone.				
		Biotite. Stringers of pyrite, 5%.				
		120-125.1 Medium-grained, minor arsenopyrite.				
		Actinolite. 4% stringers of pyrite-pyrrhotite.				
		153.2-164.3 Massive, fine-grained, green intermediate intrusion. Same texture and colour as the basalt.				
		164.5 Irregular carbonate veins.				
		186-187 White quartz vein with 5% masses of pyrite.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		Contorted, silicic with stringers of pyrite, pyrrhotite, 3-5%.	194.3	196	2709	Trace
			205.5	206.5	2710	Trace
		194.3-225 Relatively massive. Silicified? Pyrite, pyrrhotite, 2%, as stretched grains.	230	231.5	2711	Trace
			261	262.8	2712	Trace
		205-206.5 3" shears. Silica with stringers of pyrite- pyrrhotite, 5%.	262.8	263.2	2713	Trace
			263.2	265	2714	Trace
		215 Start to get irregular carbonate filled fractures mostly at right angles to core.	271.5	272.5	2715	0.02
			272.5	275.2	2716	0.01
		231 Flow breccia with quartz-carbonate filling. No sulphides.	275.2	278.2	2717	0.01
			278.2	281	2718	0.01
		235 Foliated at 50°. More chloritic.	281	284.3	2719	Trace
		262.8-263.2 Carbonate, chlorite shear with 20% masses of pyrite.	284.3	286	2720	Trace
			286	291	2721	0.12
		271.5-272.5 Chlorite-carbonate shear with 5-10% stringers of pyrite. Foliated at 45°.	291	293.7	2722	0.12
			293.7	296.2	2723	0.10
		275.2-278.2 Disrupted silica, chlorite, carbonate and biotite. Mostly at 45-60°. With 5% stringer pyrite.	296.2	299	2724	Trace
			305.8	308	2725	Trace
			331	334.4	2726	Trace
		278.2-281 As at 275.2 but also with 1-2% fine arsenopyrite.	334.4	335.4	2727	0.01
			335.4	336.9	2728	Trace
			336.9	340.3	2729	0.04
		281-284.3 Zone of intermediate porphyry with poorly developed feldspar phenocrysts in an aphanitic matrix. Trace of arsenopyrite.	340.3	341.6	2730	0.01
			341.6	342.2	2731	Trace
			342.2	346	2732	Trace
		284.3-291 Foliated basalt with chlorite, biotite and with 10% brecciated calcite veins.	356.3	357.6	2733	Trace
			357.6	360.5	2734	0.08
		291-293.7 Silicified, chlorite, sheared at 45°-60°. With 5-10% stringers of pyrite. Minor arsenopyrite.				
		293.7-296.2 Chloritized basalt with 1-2% medium- grained arsenopyrite associated with fine quartz veinlets.				
		296.2-305.8 Intermediate to felsic porphyry as at 281. Mylonitized at 55° and very fine grained from 300 to 303.				
		305.8 Chloritic Basalt. Non-magnetic. 5-10% irregular carbonate fractures.				
		306-308 Strongly foliated with biotite. No sulphides.				
		334.4-335.4 Shearing at 50° with bands of silica				
		336.9-340.3 biotite, chlorite and greenish				
		341.6-342.2 carbonate. Also stringers of pyrite and				
		380.3-381.1 pyrrhotite, 5%. 1-5% fine arsenopyrite in bands.				
		346 Silicified basalt. Green massive.				
		357.3-357.6 Grey zone of intense silicification. No sulphides.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		357.6 Buff green, chloritic alteration. 2% dispersed arsenopyrite. 2% cubes of pyrite.	360.5	363	2735	0.01
		377-379 Pink potassic altered quartz-feldspar-porphry vein.	378	380.3	2736	0.01
		385 Start to get 10% quartz flooded grey quartz-feldspar-porphry.	380.3	381.1	2737	Trace
		404-405.5 Silicified. Foliated at 55°. 10% masses of pyrite with calcite.	381.1	384	2738	0.01
			401.8	404	2739	Trace
			404	405.5	2740	0.01
			405.5	408	2741	Trace
			460	462.2	2742	Trace
			462.2	465.2	2743	0.06
		441- 452.5 Grey silicified intermediate to felsic intrusion with poorly developed feldspar phenocrysts.				
		462.2-465.2 Calcite-biotite alteration, 3-5% disseminated pyrite.				
465.2	474	Silicified quartz-feldspar-porphry.	465.2	468	2744	0.01
		465.5-467 Brecciated with calcite filling. Rotted.				
474	500	Basalt. Similar to previous but more silicified downhole towards lower contact.				
500	508	Quartz-feldspar-porphry. Sericitic zones.	500	504.5	2745	Trace
		504 Essentially a mylonite. Silicified margins.	504.5	508	2746	Trace
508	517.5	Clotted basalt. 1/4' clots of chloritized pyroxenes. The rock has been silicified fairly late as well. Still have 10% quartz-feldspar-porphry veining.				
517.5	741.5	Quartz-diorite - quartz-feldspar-porphry. With 10-20% chloritized mafic minerals. Mostly white subhedral white feldspars with blue interstitial masses of quartz. Minor aphanitic siliceous intervals, light grey with foliated sericite.	543	547	2747	Trace
			547	551	2748	Trace
			576	577.5	14001	Trace
			577.5	579	14002	Trace
			579	580.8	14003	Trace
			624	626	14004	Trace
		543-551 Sericite schist. Well-foliated at 40°. Rock is broken-up and mylonitic.	703.8	706	14005	0.01
			706	708.5	14006	0.14
		576-580 Aphanitic. 10-20% sericite. Minor grey quartz vein. Foliated at 30°.	708.5	711	14007	0.16
			711	713.4	14008	Trace
		559-664 Aphanitic, gradational boundaries.	713.4	715	14009	Trace
		701-718.5 Well foliated at 40-50°. 10-20% sericite. Trace of fine pyrite.	715	717.5	14010	Trace
			732	734.5	14011	Trace
		733.2 2cm quartz porphry at 30°.	734.5	736.8	14012	0.04
		734.5-735.5 Greater than 20% sericite. Well-foliated at 55°. Trace of pyrite, tourmaline	736.8	739	14013	0.1
			739	741	14014	0.06
		737-741.5 Unit becomes more sericitic, 20-40% at lower contact. brecciated lower contact. Trace of pyrite	741	744	14015	Trace

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
741.5	768.5	Basalt. Fine grained, foliated at 60°. Becomes brecciated and silicified. Dark green to light brown green.	744	746	14016	0.01
			746	748	14017	Trace
			748	750.8	14018	0.02
			750.8	752	14019	0.28
		747.2-748.8 Silicified, grey. Contacts at 50-60°.	752	754.5	14020	Trace
		749.7 Silicified grey banding with 1-2% pyrite parallel to bands.	754.5	756	14021	Trace
			756	757.5	14022	0.06
		754-770 Unit is silicified and brecciated. Random over interval. Fine stringers of pyrite, 2-10% Pyrrhotite, 1-2%. Trace of chalcopyrite in silicified	757.5	759	14023	Trace
		breccia intervals at: 754-755.8, 756.8-758.8, 762-	759	760.8	14024	Trace
		763, 765-767. Wall rock is weakly crenulated chlorite, carbonate and biotite.	760.8	762	14025	Trace
		768 Silicified zone. Weakly foliated at 60°. 5-10% pyrite	762	763.5	14026	Trace
			763.5	765	14027	0.02
			765	767.5	14028	Trace
			767.5	768.5	14029	Trace
		769 3cm quartz pyrite vein.	768.5	769.5	14030	0.01
768.5	826	Basalt. Medium-grained. Gradational upper contact.	769.5	771	14031	0.06
			771	773	14032	Trace
		770 1-2 cm. quartz vein at 75°. Biotite in wall-rock.	783	787	14033	Trace
			787	788.5	14034	Trace
		786-787 Irregular quartz-carbonate-pyrite vein. 5% pyrite cubes at 50-55°.	788.5	789.7	14035	Trace
			789.7	791	14036	Trace
		789-790 Narrow silicified zone, 5-10% pyrite stringers. 12cm quartz vein at 50°. Trace of pyrite.	800	802	14037	0.01
		800.5-802 Biotite foliated at 60°. 20% biotite. 3 cm quartz-pyrite vein at 60°.	807	808.4	14038	Trace
		807-808.2 Silicified zone 2-5% pyrite-pyrrhotite. Trace of chalcopyrite. At 70-80°.				
826		End of Hole. Casing left in hole.				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-38
Page : 1

Property Owner: Twin Gold Mines Ltd. _____
 Grid location: 128+00.7E / 116+03.1N _____ Azimuth: 360 degrees _____
 Length: 856 ft. _____ Topari Tests: 350' dip 39° az 002, 550' _____
 Core Size: BQ _____ dip 34° az 006, 856' dip 29° az 006 _____
 Acid Tests: 0' dip -45, 300' dip _____ Elevation: 9988.6 _____
 -41, 606' dip -34, 856' dip -29- _____ Drill Company: Morrisette _____
 Started: August 18, 1988 _____ Completed: August 21, 1988 _____
 Logged by: W. Rowell _____ Date Logged: August 21, 1988 _____

Other Tests: 38 @ 357 - 350; 34.5 @ 000 - 500 _____

Hole location in claim

From (ft)	To (ft)	Description	From	To	Tag	Gold
0	32.0	Overburden				
32.0	209.8	Basalt - Greenish-grey; predominantly fine grained, locally medium grained; moderately fractured; 2% quartz-calcite concentrated along fractures, primarily chloritized with local silicification, 1% biotite locally concentrated; 0.5% pyrrhotite + pyrite; weakly magnetic	32.7	35.2	2943	tr
		32.7 - 33.9 slightly silicified with 1% pyrite along fractures	35.2	37.8	2944	tr
		66.7 - 71.1 more fractured with 1% pyrrhotite + pyrite	44.6	47.5	2945	0.01
		93.0 - 96.1 highly fractured with 15% quartz-calcite and 1% pyrrhotite, 0.5% pyrite	66.6	71.0	2946	0.01
			93.0	96.2	2947	tr
			117.2	119.5	2948	tr
209.8	212.1	Intermediate Volcanic - Grey; fine grained; 2% poorly developed feldspars up to 2 mm in diameter; trace sulfide; nonmagnetic	226.7	227.7	2949	tr
			227.7	229.3	2950	tr
			229.3	231.0	2951	0.01
212.1	318.5	Basalt - Similar to 32.0 - 209.8;	264.1	266.0	2952	tr
		118.6 - 119.0 slightly silicified with 1% pyrite along cleavage planes	266.0	269.5	2953	0.02
		119.0 - 226.7 close to medium grained, slightly foliated at 61 deg, slightly lighter colour	269.5	271.5	2954	tr
		242.1 - 242.8 quartz-calcite vein	271.5	272.9	2955	tr
		266.8 - to end of unit increase in quartz-calcite to 3%				
		266.0 - 271.5 highly fractured with 5% quartz in fractures up to 1.5 cm wide				
		266.0 - 279.2 5% - 10% biotite				
		269.7 - 271.5 more chloritic with 1% pyrrhotite, 0.5% pyrite, trace chalcopyrite, 5% biotite				
		277.8 - 279.2 qtz-fsp vein with potassic alteration				
		290.0 - 293.0 highly fractured with thin randomly oriented hairline fractures	291.1	292.4	2956	tr
		291.5 - 292.1 50% quartz-calcite, slightly brecciated	316.0	318.4	2957	tr

From	To	Description	From	To	Number	Gold
318.5	330.7	Intermediate Volcanic or Silicified Basalt? - Contacts sharp and appears to be discrete unit; dark grey; fine grained; highly fractured with 10% quartz-carbonate along fractures and in veins up to 1.3 feet wide, 5% biotite; 1% pyrrhotite, 15% pyrite, trace arsenopyrite; lower contact 25 deg	318.4	321.5	2958	0.02
		319.1 - 321.6 4% pyrrhotite, 2% pyrite, 0.5% very fine grained arsenopyrite	321.5	323.4	2959	tr
		321.6 - 326.4 <1% sulfide	323.4	326.4	2960	tr
		326.4 - 327.8 quartz-calcite vein unmineralized	326.4	327.7	2961	tr
		327.8 - 329.5 highly fractured with 10% quartz-calcite and 3% pyrrhotite + pyrite	327.7	329.2	2962	0.02
		329.5 - 330.7 0.5% sulfide	329.2	330.5	2963	tr
			330.5	332.2	2964	tr
330.7	361.0	Basalt - Similar to 32.0 - 209.8 nonmagnetic	359.6	361.1	2965	tr
			361.1	363.0	2966	tr
361.0	365.8	Intermediate Volcanic or Silicified Basalt - Similar to 318.5 - 330.7; 5% quartz-calcite along fractures, 1% pyrite + pyrrhotite, no arsenopyrite	363.0	365.8	2967	tr
			365.8	367.1	2968	tr
365.8	478.8	Basalt - Similar to 32.0 - 209.8; fine grained; numerous thin silicified zones with 1% arsenopyrite; nonmagnetic	383.8	384.7	2969	0.01
		382.1 - 383.1 intermediate volcanic or silicified basalt with 1% fine grained arsenopyrite and 1% pyrite along fractures	384.7	385.6	2970	0.12
		403.3 - 403.5 intermediate volcanic or silicified basalt with 0.5% very fine grained arsenopyrite and 1% pyrite	385.6	387.0	2971	tr
		404.5 - 405.5 intermediate volcanic or silicified zone with 0.5% disseminated arsenopyrite	401.5	403.0	2972	tr
		408.1 - 409.1 intermediate volcanic or silicified zone with 0.5% very fine grained arsenopyrite needles and 1% pyrite	403.0	403.8	2973	0.04
		426.5 - 426.7 5% pyrite, 1% very fine grained arsenopyrite, 0.5% pyrrhotite in silicified zone	403.8	404.5	2974	tr
		433.4 - 433.8 quartz flooded quartz-feldspar porphyry, from here to end of unit quartz-feldspar porphyry veins more frequent	404.5	405.6	2975	tr
		439.3 - 440.0 quartz flooded quartz-feldspar porphyry with 0.5% fine to medium grained arsenopyrite from	405.6	407.0	2976	tr
		439.3 - 439.5	407.0	408.1	2977	tr
		450.2 - 450.4 silicified with 0.5% arsenopyrite	408.1	409.1	2978	0.14
		461.1 - 463.4 - silicified with 5% biotite, 0.5% pyrite, 0.5% arsenopyrite	409.1	410.1	2979	tr
		472.4 becomes medium grained with green recrystallized amphibole	413.4	414.6	2980	0.04
			425.1	426.0	2981	tr
			426.0	427.0	2982	0.01
			427.0	428.0	2983	tr
			438.2	439.1	2984	tr
			439.1	440.0	2985	0.02
			440.0	440.8	2986	tr
			449.1	449.9	2987	tr
			449.9	450.7	2988	tr
			450.7	451.6	2989	tr
			459.8	461.0	2990	tr
			461.0	463.4	2991	0.08
			463.4	464.6	2992	tr
478.8 - 480.0		Quartz-Flooded Quartz-Feldspar Porphyry - Greyish-white; fine grained; 5% chlorite; trace sulfide; lower contact 50 deg				

From	To	Description	From	To	Number	Gold
480.0	481.4	Sericite Schist - brownish-grey; fine grained; massive; 60% sericite, 30% quartz; trace sulfide 481.1 - 481.4 more biotite than sericite				
481.4	498.7	Recrystallized Medium Grained Basalt - Greenish-grey; 60% greenish amphibole, 35% saussuritized plagioclase; slight foliation of mafics at 53 deg ; 2% quartz veins along fractures; trace sulfide; nonmagnetic 494.9 to end of unit fine grained	497.7 498.8 500.3	498.8 500.3 501.1	2993 2994 2995	tr 0.06 tr
498.7	500.3	Quartz-Sericite Schist - Brownish-grey; fine to medium grained; 35% sericite, 50% flattened quartz, 5% quartz in veins; 2% pyrrhotite, 0.5% very fine grained arseno- pyrite				
500.3	507.7	Quartz Diorite - Mottled black and white; medium grained; massive; 35% anhedral to subhedral feldspars, 35% quartz, 20% amphibole; trace sulfide				
507.7	511.5	Basalt - Blackish-grey; fine grained; moderately frac- tured with 1% calcite along fine fractures, 1% quartz veins up to 0.5 cm wide, 7% biotite; trace sulfide				
511.5	519.6	Quartz Flooded Quartz Diorite - Grey; fine to medium grained; 90% of unit quartz flooded; 5% sericite; trace calcite; trace sulfide 517.6 - 516.7 10% pyrite, 10% calcite along fractures 518.1 - 518.3 mafic volcanic	517.2	518.0	2996	tr
519.6	530.8	Quartz Flooded Quartz-Sericite Schist - Greenish-brown; fine grained; quartz flooded throughout; 10% sericite, 1% quartz filling late fractures up to 1 cm wide; 0.5% sulfide concentrated near end of unit 530.3 - 530.9 1% very fine grained arsenopyrite, 1% pyrite	529.4	530.5	2997	tr
530.8	541.6	Basalt - Dark greenish-grey; fine to medium grained; highly fractured with 3% quartz carbonate concentrated along fractures; trace pyrite, trace arsenopyrite; 10% quartz-feldspar vein 541.5 - 541.6 silicified with 0.5% pyrite and 0.5% arsenopyrite	530.5 531.5	531.5 532.5	2998 2999	0.01 0.01
541.6	717.2	Quartz Flooded Quartz Diorite Intercalated with Quartz- Sericite Schist - Highly altered and fractured unit; trace sulfide 546.8 - 548.1 basalt 573.2 - 589.5 trace pyrite in quartz-sericite schist 589.5 - 604.0 unmineralized quartz diorite	573.1 576.2	576.2 579.2	3000 2601	tr tr

From	To	Description	From	To	Number	Gold
		604.0 - 607.2 quartz-sericite schist	579.2	582.1	2602	tr
		607.2 - 608.5 Feldspar porphyry with 70% medium grained subhedral feldspars in dark matrix	582.1	585.0	2603	0.06
		608.5 - 621.3 highly quartz flooded zone	585.0	587.0	2604	tr
		621.3 - 639.5 primarily quartz-sericite schist, schistosity 57 deg	587.0	590.0	2605	tr
		639.5 - 667.5 quartz diorite, locally flooded, slightly sericitized	621.2	624.5	2606	0.04
		667.5 - 680.7 quartz-sericite schist with 0.5% pyrite and trace arsenopyrite	624.5	628.1	2607	tr
		680.7 - 685.3 quartz flooded quartz diorite	628.1	631.2	2608	tr
		685.3 - 690.9 quartz flooded quartz-sericite schist	631.2	634.4	2609	tr
		690.9 - 705.5 primarily quartz diorite	634.4	638.2	2610	tr
		7017.2- 712.1 primarily quartz-sericite schist	638.2	641.1	2611	tr
		712.1 - 716.0 core very broken up and some gouge	663.3	667.7	2612	tr
			667.7	670.2	2613	0.01
			670.7	673.6	2614	0.06
			673.6	676.0	2615	tr
			676.0	678.0	2616	tr
			678.0	680.3	2617	0.01
717.2	738.4	Silicified Basalt - Light grey; fine grained; moderately fractured with <1% calcite concentrated along fractures, silicified with 3% quartz filling fractures and tension gashes, locally chloritized, 5% cherty looking sections 1% pyrite along fractures, 0.5% pyrrhotite, <0.5% arsenopyrite; upper contact 46 deg	680.3	683.3	2618	tr
		717.1 - 718.6 highly silicified with 2% pyrite	683.3	685.5	2619	tr
		718.6 - 726.0 less silicified with 1% pyrite	685.5	688.5	2620	0.02
		726.0 - 729.9 silicified with quartz along fractures and tension gashes, 2% pyrite, 1% pyrrhotite	688.5	690.8	2621	tr
		729.2 - 733.0 cherty looking with 0.5% fine to medium grained disseminated pyrite	690.8	694.0	2622	tr
		733.0 - 736.4 less silicified, sharp upper contact with cherty looking rock at 60 deg	694.0	696.8	2623	tr
		736.4 - 738.4 highly silicified with 5% pyrite, 1% pyrrhotite, trace arsenopyrite, slightly cherty looking	696.8	699.7	2624	0.01
			699.7	702.6	2625	tr
			702.6	704.5	2626	tr
			704.5	707.6	2627	tr
			707.6	711.8	2628	tr
			711.8	717.1	2629	0.08
			717.1	718.9	2630	tr
			718.9	720.3	2631	0.01
			720.3	723.1	2632	0.01
			723.1	726.0	2633	tr
			726.0	727.0	2634	tr
			727.9	729.9	2635	0.01
738.4	854.4	Medium Grained Recrystallized Basalt - Dark greenish-grey; medium grained; 55% amphibole, 40% saussuritized plagioclase; moderately fractured with <1% calcite along fractures, 1% quartz along fractures, slightly chloritized, locally silicified; 0.5% disseminated pyrite + pyrrhotite (more concentrated in silicified areas), slightly magnetic	729.9	733.1	2636	tr
		750.5 - 751.1 silicified with 1% pyrite	733.1	735.0	2637	tr
		765.8 - 766.3 1% fine grained disseminated pyrite associated with quartz vein	735.0	736.6	2638	tr
		794.0 - 794.5 slightly silicified with 5% pyrite along fracture	736.6	738.4	2639	0.14
		798.1 - 798.4 20% epidote, 10% quartz-calcite, 5% pyrite	738.5	740.2	2640	tr
		827.1 - 827.3 quartz vein and 20% massive pyrite	740.2	741.8	2641	tr
		827.3 - 828.9 finer grained with 5% pyrite + 2% pyrrhotite	750.0	751.1	2642	0.06
		833.7 - 834.3 silicified with 1% pyrite and 1% pyrrhotite	765.3	766.3	2643	tr
			794.0	795.2	2644	tr
			797.9	798.8	2645	tr
			827.1	828.9	2646	0.06
			833.6	834.6	2647	tr
			843.7	846.0	2648	0.10
			848.1	849.1	2649	tr

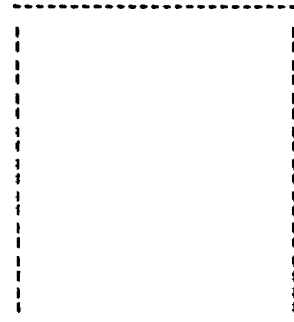
From	To	Description	From	To	Number	Gold
		834.8 - 835.1 cherty with 5% biotite				
		844.0 - 845.8 slightly silicified with 2% pyrite + pyrrhotite				
		848.1 - 849.1 cherty and chloritized with 1% pyrrhotite + pyrite				
854.4	856.0	Porphyritic Basalt (Leopard Rock) - 15% porphyritic feldspar masses up to 0.1 foot in diameter in matrix of medium grained basalt identical to previous unit, no sharp contact with previous unit just sudden appear- ance of porphyritic feldspars				
856.0		End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-39
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 132+97.5E / 117+49.6N
 Length: 646 ft.
 Core Size: BQ
 Acid Tests: 45° - 0; 43° - 296
 35° - 436
 Started: August 19, 1988
 Logged by: W. Rowell

Azimuth: 360 degrees
 Tropari Tests: 37 @ 003 - 300
 Elevation: 9984.6
 Drill Company: Morrisette
 Completed: August 22, 1988
 Date Logged: August 22, 1988



Other Tests: 47 @ 293? - 350; 37 @ 356 - 500; 34 @ 355 - 646

Hole location in claim

From (ft)	To (ft)	Description	From	To	Tag	Gold
0	32	Casing				
32	272.1	Basalt - Dark greenish-grey; predominantly fine grained, locally medium grained; minor shearing at 32 deg moderately fractured with 1% quartz-calcite concentrated along fractures, primarily slightly chloritized, local silicification, 2% biotite concentrated in sheared areas; 0.5% pyrite + pyrrhotite, trace arsenopyrite; slightly magnetic				
	65.1 - 66.6	quartz-calcite vein with 5% chlorite, no sulfide	65.1	66.6	2750	tr
	66.6		66.6	67.7	2751	tr
	123.7 - 124.3	5% pyrite along fracture in chloritic area	86.0	87.1	2752	tr
	159.1 - 159.3	slightly more chloritic with 10% biotite, 1% medium grained arsenopyrite, 1% pyrrhotite	122.1	123.5	2753	tr
	159.3 - 161.5	silicified and chloritized with 1% pyrite + pyrrhotite	123.5	124.3	2754	0.01
	161.5 - 163.1	10% fine to medium grained disseminated arsenopyrite, 3% pyrite, biotite rich zone with quartz vein 1 cm wide almost parallel to core axis	124.3	126.0	2755	tr
	163.1 - 163.6	5% pyrite along fractures	124.3	126.0	2755	tr
	165.7	gouge	147.0	150.5	2756	0.01
	165.9 - 166.2	60% brecciated quartz-calcite	156.0	158.7	2757	tr
	168.8	gouge	158.7	159.6	2758	tr
	225.6 - 229.7	0.5% disseminated medium grained arsenopyrite, slightly chloritized zone	159.6	161.6	2759	tr
	229.7 - 232.5	1% pyrrhotite + 1% pyrite along fractures	161.6	163.3	2760	0.24
	232.6 - 234.2	5% pyrrhotite, 1% very fine grained arsenopyrite, 5% quartz-calcite along fractures	163.3	164.4	2761	tr
	234.2 - 234.4	5% pyrrhotite, 1% very fine grained arsenopyrite, 5% quartz-calcite along fractures	224.6	225.4	2762	tr
	234.5 - 236.5	1% disseminated fine grained arsenopyrite in chloritized zone	225.4	229.7	2763	tr
	236.5 - 238.9	1% disseminated fine grained arsenopyrite in chloritized zone	229.7	232.6	2764	tr
	238.9 - 248.3	silicified and chloritized with 3% calcite along fractures, 10% biotite, 20% cherty quartz, 1% pyrite, 3% pyrrhotite	232.6	234.5	2765	0.01
			234.5	235.3	2766	tr
			235.3	239.0	2767	0.02
			239.0	241.0	2768	tr
			241.0	241.8	2769	0.02
			241.8	244.1	2770	0.01
			244.1	246.0	2771	0.01

From	To	Description	From	To	Tag	Gold
272.1	277.3	Porphyritic Andesite - Dark grey; fine to medium grained	246.0	248.1	2772	tr
		90% of core only fine grained, 10% with 30% anhedral to subhedral feldspars up to 5 mm in length, trace sulfide	248.1	250.0	2773	tr
277.3	280.3	Sericite Schist - Grey; fine grained; 70% sericite, 25% quartz, schistosity 49 deg; trace sulfide				
280.3	440.3	Basalt - Dark greenish-grey; primarily fine grained, locally medium; primarily chloritized, locally silicified, <1% epidote, 3% quartz-calcite concentrated along fractures; <0.5% pyrite + pyrrhotite, trace arsenopyrite, nonmagnetic	289.3	290.6	2774	tr
		282.9 - 284.8 porphyritic andesite	290.6	291.8	2775	0.04
		291.0 - 291.7 0.5% arsenopyrite, 1% pyrite, 5% quartz-calcite along fractures	291.8	292.7	2776	tr
		339.8 - 340.8 slightly silicified with 1% pyrrhotite + pyrite	333.1	334.7	2777	tr
		357.1 - 357.6 fine grained quartz-feldspar vein with potassic alteration, from here to end of unit increase in number of similar veins	339.8	340.8	2778	0.01
		366.9 - 367.8 silicified with 5% biotite, 0.5% arsenopyrite in fine needles and cubes, 0.5% pyrite along shear planes at 50 deg	365.5	366.9	2779	tr
		379.7 - 381.1 quartz flooded quartz-feldspar vein	366.9	367.9	2780	0.26
		389.9 - 393.5 5% slightly porphyritic feldspars	367.9	370.0	2781	tr
		392.0 - 392.3 silicified with 5% biotite, 3% pyrrhotite, 1% pyrite	390.5	391.6	2782	tr
		404.8 - 405.0 silicified with 10% biotite, 2% pyrite, 0.5% very fine grained arsenopyrite	391.6	392.7	2783	0.06
		416.9 - 417.9 quartz flooded quartz-feldspar porphyry	392.7	393.7	2784	tr
		436.1 - 436.6 slightly silicified with 0.5% arsenopyrite	403.4	404.3	2650	tr
			404.3	405.2	2651	tr
			405.2	406.0	2652	tr
440.3	459.2	Quartz Diorite - Mottled greyish-white and dark grey; 45% anhedral feldspars, 35% quartz, 15% amphibole; quartz flooded over 30% of unit, slightly sericitized; slight foliation at 39 deg; trace pyrite				
		440.3 - 441.1 quartz flooded				
		441.1 - 442.1 sericite schist intercalated with altered basalt				
		454.7 - 456.0 sericite schist				
459.2	480.6	Quartz-Sericite Schist - Greenish-brown; fine to medium grained; 50% sericite, 40% stretched quartz; locally quartz flooded; 0.5% pyrite, trace arsenopyrite	466.0	469.0	2786	tr
		466.7 to end of unit quartz flooded over 20% of unit	469.0	472.1	2787	tr
			472.1	475.0	2788	tr
			475.0	477.9	2789	tr
			477.9	480.8	2790	tr
480.6	498.3	Quartz Diorite - Similar to 440.3 - 459.2 totally quartz flooded with pervasive potassic alteration from 492.9 to end of unit				

From	To	Description	From	To	Tag	Gold
498.3	518.2	Mafic Volcanic Intercalated with Quartz Flooded Quartz-Feldspar Porphyry	506.0	508.9	2791	0.02
		498.3 - 503.4 very broken up	523.8	525.1	2792	0.02
		501.7 gouge				
		503.4 - 506.0 quartz flooded quartz diorite				
		506.0 - 513.8 highly fractured silicified basalt with 1% pyrite along fractures				
		508.3 micro fault 52 deg to core axis				
		513.8 - 518.2 primarily quartz flooded quartz-sericite schist				
518.2	523.6	Quartz Diorite - Similar to 440.3 - 459.2				
523.6	567.4	Sericite Schist - Brownish-grey; fine to medium grained;	525.1	526.7	2793	0.08
		55 sericite, 40% quartz, 0.5% pyrite, trace arsenopyrite, sulfides locally concentrated	526.7	527.6	2794	tr
		524.6 - 525.2 2% pyrite, 0.5% arsenopyrite, sulfides along cleavage planes	527.6	529.1	2795	0.08
		525.2 - 526.8 more quartz flooded with 1% pyrite, trace arsenopyrite	529.1	531.5	2796	tr
		526.8 - 527.6 silicified basalt with 1% pyrite, trace arsenopyrite	531.5	532.5	2797	tr
		534.6 - 536.0 feldspars sericitized but still present	532.5	536.0	2798	tr
		536.0 - 536.7 altered basalt with 2% disseminated medium grained pyrite	536.0	537.9	2799	tr
		540.5 - 542.1 very broken core	537.9	539.3	2800	0.04
		540.8 gouge	539.3	541.8	2653	0.08
		542.1 - 548.9 highly fractured, silicified, 3% pyrite, 0.5% very fine grained arsenopyrite	541.8	544.0	2654	0.38
		548.9 - 556.8 <1% pyrite except for 554.2 - 558.3 with 5% pyrite along cleavage planes and 0.5% very fine arsenopyrite	544.0	546.0	2655	0.24
		556.8 - 558.5 7% pyrite along cleavage planes, 0.5% very fine grained arsenopyrite	546.0	546.9	2656	0.30
		558.5 - 567.4 2% pyrite, trace arsenopyrite	546.9	548.9	2657	0.44
			548.9	553.8	2658	0.14
			553.8	555.3	2659	0.20
			555.3	556.8	2660	tr
			556.8	558.4	2661	0.14
			558.4	560.6	2662	0.08
			560.6	562.9	2663	0.10
			562.9	564.4	2664	0.10
			564.4	566.0	2665	0.10
			566.0	567.5	2666	0.08
			567.5	569.2	2667	0.14
567.4	571.7	Highly Silicified Zone - Light grey; 90% cherty quartz; 2% pyrite, 1% pyrrhotite, 0.5% arsenopyrite	569.2	571.7	2668	0.12
		567.5 - 569.2 5% sericite, 1% fine to medium grained arsenopyrite, 1% pyrite	571.7	574.5	2669	tr
			574.5	576.0	2670	tr
			576.0	579.3	2671	0.01
571.7	646.0	Basalt - Dark greenish-grey; fine to medium grained, predominantly chloritized, locally silicified over 20%; <1% pyrite + pyrrhotite, but concentrated in silicified areas; upper contract 54 deg	590.0	593.0	2672	0.02
		573.7 - 574.4 illicified with 2% pyrite + pyrrhotite	593.0	596.0	2673	tr
		578.8 - 579.1 silicified with 3% pyrrhotite + pyrite	596.0	598.8	2674	tr
		621.4 - 622.2 silicified with 1% pyrite + pyrrhotite	618.4	621.4	2675	0.04
		625.6 - 626.4 very broken chloritic section	621.4	622.5	2676	tr
		primarily medium grained from 612.0	622.5	625.3	2677	tr
			625.3	627.6	2678	tr
			627.6	628.7	2679	0.01

Page 4
From To

Description

From

To

Tag

Gold

626.4 - 629.2 silicified with 1% pyrite and 0.5% arseno-
pyrite

628.7

630.0

2680

tr

646.0

End of Hole (Casing Left In)

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-40

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 128+99.3E / 116+01.5N
 Length: 827 ft.
 Core Size: BQ
 Acid Tests: 0' -45; 436' -35; _____
 600' -33; 827' -27
 Started: August 22, 1988
 Logged by: W. Howell

Azimuth: 360 degrees
 Topari Tests: 300' -39 deg 352; 600' -30
 007; 827' -26 359
 Elevation: 9987.8
 Drill Company: Morrisette
 Completed: August 24, 1988
 Date Logged: August 24, 1988



Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From	To	Tag	Gold
0	42.0	Overburden				
42.0	295.8	Basalt - Dark greenish-grey; 60% fine grained, 40% medium grained, shearing often associated with grain size changes; moderately fractured with 3% quartz-carbonate concentrated along fractures and tension gashes; predominantly chloritized, locally silicified, 3% biotite locally concentrated; 0.5% pyrrhotite + pyrite; nonmagnetic	65.0	67.8	2681	tr
		65.0 - 67.8 5% biotite, 1% pyrite + pyrrhotite				
		66.6 - 82.9 medium grained				
		107.2 - 110.2 chloritic shears at 42 deg				
		159.7 - 171.6 medium grained	171.8	172.9	2682	tr
		172.0 - 172.9 slightly sheared with 15% quartz-calcite 3% pyrrhotite, 3% biotite				
		187.2 - 194.7 medium grained, sharp contact with fine unit at 23 degrees				
		194.7 - 195.3 slightly sheared with 60% quartz-calcite				
		224.0 - 226.4 medium grained				
		243.0 gouge				
		243.1 - 243.3 quartz-calcite vein				
		237.4 - 246.3 medium grained				
295.8	299.8	Intermediate Volcanic - Dark greenish-grey; fine grained; massive; unfractured; chloritized; no sulfide; upper contact 45 deg				
299.8	323.6	Basalt - Similar to 42.0 - 295.8; more highly fractured with 5% quartz-calcite along fractures				
		304.1 - 304.8 2% pyrite + pyrrhotite along fractures	304.1	306.0	2683	tr
		305.3 - 306.0 1% fine grained disseminated arsenopyrite + pyrite	306.0	308.6	2684	tr
		308.9 - 309.3 2% disseminated medium grained arsenopyrite	308.6	311.9	2685	tr
		309.6 - 311.9 2% pyrite along fractures, 0.5% pyrrhotite	311.9	314.9	2686	tr

From	To	Description	From	To	Tag	Gold
		320.6 - 320.9 trace arsenopyrite	320.1	321.8	2687	tr
		320.9 - 321.9 possible porphyritic intermediate volcanic slight indication of poorly formed feldspars; contact	321.8	323.3	2688	tr
		33 deg	323.3	324.2	2689	0.10
		323.0 - 323.3 30% subrounded basalt breccia clasts up 1.5 cm in diameter in quartz-calcite matrix	324.2	325.4	2690	0.04
			325.4	327.4	2691	0.02
			327.4	329.7	2692	tr
			329.7	331.3	2693	0.06
323.6	331.2	Highly Silicified Basalt - Purplish-grey; fine grained; highly sheared and fractured with quartz-carbonate veins up to 2.4 feet wide, 10% biotite, 1% pyrrhotite, 3% pyrite, trace arsenopyrite, sulfides primarily along fractures	331.3	333.7	2694	tr
		323.7 - 323.8 5% medium grained arsenopyrite	333.7	336.0	2695	tr
		331.2 - 333.6 quartz-calcite vein				
331.2	473.3	Basalt - Dark greenish-grey; primarily fine grained; quite fractured with 3% quartz-carbonate along fractures, primarily chloritized, locally silicified; nonmagnetic				
		360.8 - 361.1 quartz flooded quartz-feldspar porphyry				
		369.1 - 370.4 silicified with trace arsenopyrite, con- tact 46 deg	369.1	370.5	2696	tr
		375.4 - 376.7 silicified with 0.5% fine grained arseno- pyrite, 1% pyrite	373.6	375.4	2697	0.02
		413.7 - 414.4 silicified with 10% biotite, 2% pyrite, 1% pyrrhotite, 1% very fine grained arsenopyrite	375.4	376.7	2698	tr
		434.7 - 435.2 1% arsenopyrite along fractures	376.7	377.8	2699	tr
			412.1	413.6	2700	tr
			413.6	414.5	2501	tr
			414.5	415.5	2502	tr
473.3	475.3	Quartz Flooded Quartz-Feldspar Porphyry - Greyish-white; fine to medium grained; quartz flooded over 90%; 30% subhedral feldspar crystals formed in 10% of unit; pink potassic alteration over 10%; upper contact 56 deg	433.7	435.3	2503	tr
475.3	520.8	Basalt Intercalated with Thin Quartz-Feldspar Dikes - basalt similar to 231.2 - 473.3; 2% quartz-feldspar veins up to 1.5 feet	492.8	493.9	2504	tr
		493.2 - 493.8 silicified with 0.5% arsenopyrite, 0.5% pyrite	495.8	496.6	2505	0.10
		495.9 - 496.5 slightly silicified with 2% pyrrhotite				
520.8	525.5	Biotite-Sericite Schist - Greyish-white; 50% sericite, 20% biotite, 25% quartz, schistosity 50%; trace sulfide	524.9	526.0	2506	tr
		522.5 - 523.6 fine grained sericite schist	526.0	527.2	2507	tr
			527.2	528.4	2508	0.04
525.5	548.7	Medium Grained Basalt Intercalated With Quartz-Feldspar Porphyry - Similar to 475.3 - 520.8				
		526.0 - 526.3 silicified with 2% medium grained arseno- pyrite				
		528.0 - 530.4 silicified with 1% pyrrhotite, 1% pyrite				
548.7	555.3	Quartz Flooded Quartz-Feldspar Porphyry - Mottled white				

From	To	Description	From	To	Tag	Gold
		and grey; fine to medium grained; quartz flooded over 30% of unit; in porphyritic areas 50% subhedral feldspar; 40% quartz; 5% chlorite along fine fractures 551.2 - 551.8 basalt, contacts 59 deg 553.1 - 554.6 basalt				
555.3	569.0	Quartz Flooded Sericite Schist - 90% quartz-flooded quartz-sericite schist intercalated with 10% quartz diorite; schistosity 63 deg; trace sulfide				
569.0	583.2	Basalt - Greenish-grey; fine grained; highly fractured with 5% calcite along fractures and tension gashes; 3% quartz-feldspar porphyry along veins and fractures; trace sulfide				
583.2	723.3	Quartz Flooded Quartz-Sericite Schist Intercalated with Quartz Flooded Quartz Diorite - Primarily brownish grey quartz sericite schist with 60% sericite, 35% quartz and trace sulfide, schistosity 55 deg 586.0 - 590.0 quartz flooded 601.5 - 609.6 quartz flooded 609.6 - 611.7 quartz diorite, lower contact 52 deg 611.7 - 618.6 quartz flooded sericite schist, 0.5% pyrite 618.6 - 625.4 primarily quartz diorite with trace pyrite 625.4 - 635.7 primarily quartz sericite schist 635.7 - 639.8 primarily quartz diorite 639.8 - 662.9 quartz flooded quartz sericite schist with trace pyrite 662.9 - 682.8 slightly foliated quartz diorite 682.8 - 687.2 quartz-sericite schist, lower contact 59 687.2 - 704.9 quartz diorite 704.9 - 723.1 quartz-sericite schist 721.0 - 723.3 quartz flooded	612.2 615.4 618.5 621.5 624.0 626.9 626.9 639.6 643.0 646.0 646.0 649.1 652.2 652.2	615.4 618.5 621.5 624.0 626.9 629.8 643.0 646.0 649.1 652.2 656.0	2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519	tr tr tr tr tr tr 0.04 tr tr tr tr
723.3	742.2	Feldspar Porphyry - Dark grey; fine grained, locally porphyritic; porphyritic areas 20% poorly developed feldspars up to 5 mm in diameter; silicified and locally quartz flooded; 5% pyrite primarily along fractures (locally more, 0.5% pyrrhotite 723.3 - 726.5 silicified, 3% pyrrhotite, 1% pyrite, and trace chalcopyrite 733.0 - 737.8 10% pyrite along fractures, silicified, no feldspars	704.9 708.0 711.0 714.4 717.3 720.4 723.3 726.5 729.9 733.0 737.8 741.9 744.2 746.0 748.0 749.8	708.0 711.0 714.4 717.3 720.4 723.3 726.5 729.9 733.0 737.8 741.9 744.2 746.0 749.8 753.8	2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535	tr tr tr tr tr 0.22 0.14 tr tr 0.14 tr tr 0.26 tr 0.04 tr
742.2	753.1	Silicified and Chloritized Basalt - Dark greenish-grey; primarily fine grained; size increases toward bottom; 40% silicified, 60% chloritized; 1% pyrrhotite, 0.5% pyrite, upper contact 59 deg	737.8 741.9 744.2 746.0 748.0 749.8	741.9 744.2 746.0 748.0 749.8	2530 2531 2532 2533 2534 2535	tr tr 0.26 tr 0.04 tr

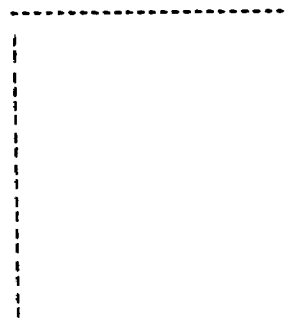
From	To	Description	From	To	Tag	Gold
753.1	827.0	Medium Grained Basalt - Greenish-grey; medium grained; 60% amphibole; 40% saussuritized plagioclase; slight foliation at 45 deg; 0.5% pyrrhotite + pyrite; slightly magnetic	753.8	756.0	2536	tr
		762.4 - 763.8 silicified with 2% pyrite + pyrrhotite, contact 42 deg	760.7	762.4	2537	tr
			762.4	763.8	2538	0.14
			763.8	767.3	2539	tr
			767.3	768.2	2540	0.02
827.0		End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-41

Page : 1

Property Owner: Twin Gold Mines Ltd. _____
 Grid location: 132+01.5 / 117+01.6N _____ Azimuth: 360 degrees _____
 Length: 686 ft. _____ Tropari Tests: _____
 Core Size: BQ _____
 Acid Tests: 0' - 45': 306' - 41' _____ Elevation: 9985.6 _____
 606' - 35: 686' - 31' _____ Drill Company: Morrisette _____
 Started: August 22, 1988 _____ Completed: August 24, 1988 _____
 Logged by: H. Matthews _____ Date Logged: August 24, 1988 _____
 Other Tests: _____



Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	35.9	Overburden				
35.9	76.5	Basalt. Fine to medium-grained. Minor foliated interval 50°. Dark green, sharp contact with fine and medium-grained zones oriented at 35°.	51	52	108043	Trace
				59	108044	Trace
			61	62.5	108045	Trace
			62.5	63.8	108046	Trace
		51-52 10-20% biotite, foliated, diffuse quartz. Trace of pyrrhotite. Crenulated at 50°.	63.8	66	108047	Trace
		59-60 Well foliated at 50°. Biotitic banding containing pinch and swell quartz-pyrrhotite veining (<40%). Parallel to foliation. Vein less than 1 cm thick.				
		69.5-76.5 Medium grained. Sharp lower contact at 56°.				
76.5	86.9	Andesite. Fine-grained, weakly foliated. Increasing biotite to lower contact (10%). Foliated at 50°. Medium grey-green. Remnant feldspar phenocrysts. Sharp lower contact at 68°				
86.9	103.5	Basalt. Foliated at 60°. Dark green. Trace of irregular quartz veins parallel to foliation. less than 1 cm. thick. Sharp lower contact at 40°.				
103.5	127	Mafic Basalt. Medium-grained, massive, dark green, <2%, < 1cm, irregular quartz-carbonate veins. Random orientations. Trace of pyrrhotite, pyrite. Weakly magnetic. Gradational lower contact.				
127	155	Mafic Basalt. Intercalated fine to medium grained. Dark, grey, massive. Possible remnant anygdules at 134, foliated at 50°. Gradational into the massive units.	145	146	2600	Trace

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		145-146 Silicified interval Irregular contacts. 2-5% chalcopryrite, pyrrhotite in (1cm random stringers within silicified zone. Wall rock is medium-grained, massive. Sharp lower contact at 43°.				
155	171	Mafic Basalt. Foliated at 50°. Fine grained. Minor biotite banding parallel to foliation, 2-5%, fine quartz-carbonate veins parallel to foliation. Trace of pyrite-pyrrhotite. Sharp lower contact at 45°.				
171	174	Mafic Basalt. Medium-grained, massive, sharp upper and lower contacts at 55-60°.				
174	267.5	Mafic Basalt. Weakly to well-foliated intervals at 43-60°. Dark green to increasing dark green-brown (biotite) to lower contact.	196	197	108048	Trace
			197	198	108049	Trace
			198	200	108050	Trace
			215	216.5	108051	0.01
		187-188 Broken core. Fault breccia with a carbonate matrix.	222	224	108052	Trace
			224	225	108053	Trace
		197.5-199 10% biotite foliated, Quartz-carbonate. Trace of pyrite-pyrrhotite parallel to foliation.	225	226	108054	0.01
			226	227.6	108055	Trace
		216 4 cm. irregular quartz-pyrite-chalcopryrite vein with 2-5% chalcopryrite, 2-3% pyrrhotite.	237	238.5	108056	Trace
			238.5	240	108057	Trace
		224.5-226 Narrow, less than 10 cm, silicified zones at 60°. Biotitic wallrock (less than 20%).	240	242.3	108058	Trace
			242.3	244	108059	Trace
		Arsenopyrite, 2%, pyrite.	244	245.5	108060	Trace
		238.5-240 Well-foliated with 10-20% biotite at 45°. Up to 2% arsenopyrite, pyrite.	245.5	246.8	108061	Trace
			246.8	248	108062	Trace
		244-246 Well-foliated with more than 20% biotite. Foliated at 43°. Quartz-pyrite-pyrrhotite veins, 2%, <6 cm. Trace of arsenopyrite parallel to foliation.	248	250.5	108063	0.01
			264	266	108064	Trace
			266	268	108065	Trace
		250 Disseminated pyrite and irregular quartz-carbonate veins. Wall rock has less than 5% biotite. Sharp lower contact at 5°.				
267.5	297.5	Feldspar Porphyry. Dark grey. Massive, medium-grained. Minor breccia interval at 288-290 with chlorite-quartz stringer. Brecciated lower contact.	296	297.5	108066	Trace
			297.5	299.4	108067	Trace
297.5	358	Mafic Basalt. Foliated to massive, medium to fine-grained. Foliated at 35-60°. 33° at upper contact, biotite.	299.5	300.5	108068	Trace
			300.5	302	108069	Trace
			302	303.5	108070	Trace
			303.5	305	108071	Trace
		297.5-302 Greater than 20% biotite, Foliated at 33°. Quartz-carbonate-arsenopyrite-pyrrhotite veins, 5-10%, <1 cm. Parallel to foliation. Weakly brecciated at 301.8	305	306	108072	Trace
			310	312	108073	Trace
			312	313.2	108074	0.34
			313.2	314.5	108075	0.02

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		313 10 cm silicification zone (porphyry zone)	314.5	316	108076	Trace
		biotitic wall rock. Trace of arsenopyrite.	316	317.9	108077	Trace
		303.5-305 Foliated with less than 10% biotite.	321	322.5	108078	Trace
		Irregular stringers of pyrite.	322.5	323.5	108079	Trace
		314.5-316 Less than 10% biotite foliated at 60°. Up to 2% arsenopyrite.	328	330	108080	Trace
		322-323.5 Felsic dike, aphanitic, dark to medium grey. Massive. Oriented at 25-40°.				
		326-333.5 Crenulated with chloritized and biotized mafics, 20-50%. Foliated at 10-20°. Up to 2% pyrite, pyrrhotite. Sharp lower contact at 75 to 80°.				
		340-351 Weakly foliated "andesite". Medium grey-green, foliated at 60°. Biotite clusters elongated parallel to foliation.				
		Gradational lower contact.				
358	433.6	Feldspar Porphyry - Basalt. Intercalated sequence of felsic intrusion with massive to foliated mafics. Biotite altered. Contact at 50-55°	360.5	362	108081	Trace
			362	364	108082	Trace
			364	365.3	108083	Trace
			388.7	390	108084	0.01
		362-364 More than 20% biotite altered mafics	424.5	426	108085	0.02
		387-390 Narrow porphyry/mafic banding at 53°. More than 20% biotite altered. Up to 2% pyrrhotite-pyrite.	430.3	432	108086	Trace
			432	434.5	108087	Trace
		397-404 Less than 2 mm white remnant feldspar phenocrysts (carbonate altered).	434.5	436	108088	Trace
		425 3 cm irregular quartz-pyrite vein at 30°.				
		431 Minor silicified banding with arsenopyrite and pyrrhotite at 50°. 10-20% biotite.				
		Sharp irregular lower contact (apprx. 45-50°).				
433.6	591.5	Feldspar Porphyry - Quartz Diorite. Light grey to medium, medium to aphanitic. Foliated sericite to massive. Upper contact aphanitic.	472	474	108089	Trace
			474	476	108090	Trace
			476	478.5	108091	Trace
			478.5	481	108092	Trace
		472-479 Foliated at 50-55°. 10-30% sericite. Trace of fine pyrite and 10% blue-white, <1 cm quartz wisps parallel to foliation.	481	483.4	108093	Trace
			483.4	484.5	108094	Trace
			484.5	486	108095	Trace
		481-484.5 Aphanitic. Less than 10% sericite parallel to wall rock foliation at 55°. Trace of pyrrhotite.	486	487.6	108096	Trace
			507	508.5	108097	Trace
		498.5-505 brecciated, broken core. Carbonate stringers in-filled fractures, 10-30% carbonate.	508.5	510	108098	Trace
			523	525.5	108099	Trace
		508.5-510 10-20% sericite foliated at 45°. Trace of fine pyrite.	546	547.5	108100	Trace
			547.5	548.5	2541	Trace
		522-525.5 10% sericite foliated. Barren.	548.5	550	2542	Trace
		545.5-549.8 Sericite foliated at 50°. 20% sericite. Trace of fine pyrite.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		564-580 Broken core. Sericite. Barren to trace of pyrite. Foliated at 55°. 10-30% sericite.	579	581	2543	0.01
		585-591.5 10-30% sericite. Foliated at 50-60°. Becomes more massive to lower contact. 2-5% pyrrhotite. Trace of chalcopyrite. Foliated at 60° lower contact.	581 583.5 585.5 587.5 590 590	583.5 585.5 587.5 590 591.5	2544 2545 2546 2547 2548	Trace Trace Trace Trace 0.24
591.5	602	Altered Mafic Volcanics. Brecciate, foliated, dark grey-green, crenulated. Containing 5-20% sericite, biotite, trace to 10% pyrrhotite, Up to 2% chalcopyrite and up to 1% sphalerite. Trace to 1% arsenopyrite. Trace to 5% pyrite. Foliated at 70 to 85°. Breccia fractures filled with chalcopyrite-pyrrhotite with subordinate sphalerite, arsenopyrite as needles. Unit becomes less mineralized down interval but foliated at 65 to 70°. Minor, <1cm, random quartz-pyrrhotite-chalcopyrite stringer and vuggy carbonate. Well mineralized upper part of interval is network of fine sulphide stringers	591.5 592.8 594 596 596 597.5 598.6 598.6 600	592.8 594 596 597.5 598.6 600 603.4	2549 2550 2551 2552 2553 2554 2555	0.08 Trace Trace 0.01 Trace Trace Trace
		Gradational lower contact.				
602	644	Mafic Basalt. Fine-grained, dark green to brown green. Foliated at 65° with minor biotite bands. Greater than 20% biotite in some bands. Trace of random quartz-chalcopyrite-pyrrhotite stringers, less than 2 cm.	603.4 606 608.4 627 628.5 630 632	606 608.4 610.5 628.5 630 632 634	2556 2557 2558 2559 2560 2561 2562	Trace 0.04 Trace Trace 0.01 Trace
		606-607 2 randomly oriented quartz-carbonate-chalcopyrite-pyrrhotite veins. Foliated wallrock at 65-70°. Minor chalcopyrite-pyrrhotite parallel to foliation to 610.5	632 634 636 639	634 636 639 641.4	2563 2564 2565	0.01 Trace Trace
		609-610.5 10-20% biotite, diffuse quartz-carbonate-chalcopyrite-pyrrhotite parallel to foliation.	641.4	644	2566	0.06
		627-644 Biotite banding over interval.				
		631.5-634 More than 20% biotite, 2% pyrite-pyrrhotite. At 80°.				
644	686	Mafic Basalt. Medium grained. Massive. Weakly foliated at 65°. Minor fine-grained intervals foliated at 60-55°.				
686		End of Hole. Casing left in hole.				

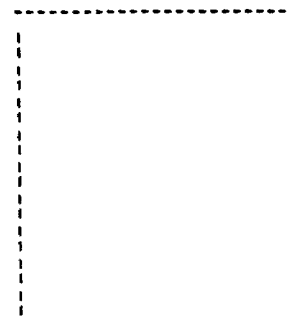
DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 885-42

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 130+00.5E + 116+78.3N
 Length: 838 ft.
 Core Size: BQ
 Acid Tests: 45° - 0'; 41° - 266';
 34° - 536'; 30° - 686'; 27° - 826'
 Started: August 24, 1988
 Logged by: H. Matthews

Azimuth: 360 degrees
 Tropic Tests: 29 @ 012 - 800'
 Elevation: 9987.7
 Drill Company: Morrisette
 Completed: August 28, 1988
 Date Logged: August 29, 1988



Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	22	Overburden				
22	440.3	Mafic Basalt. Massive to foliated, dark green, fine to medium-grained. Medium to fine contacts gradational to sharp at 40-45°	131	132.5	2567	Trace
			132.5	134	2568	0.01
			141	142.1	2569	Trace
			142.1	143.5	2570	Trace
		51 Remnant amygdule.	166.3	168	2571	Trace
		27-53 Fine, weakly foliated at 45°.	192	193.5	2572	Trace
		53-71 Medium-grained, massive.	200	202	2573	Trace
		71-105 Fine-grained, weakly foliated at 60°.	202	203.5	2574	0.01
		Gradational upper contact.	203.5	204.9	2575	Trace
		105.6-141.8 Medium-grained, massive, homogeneous with minor random quartz-chalcopyrite stringers.	204.9	208	2576	Trace
			208	209.7	2577	Trace
		132-133.5 Less than 1 cm massive chalcopyrite, stringers sub-parallel to core axis. Quartz veining at lower contact at 40-45°.	209.7	212	2578	Trace
			212	214.5	2579	Trace
		141.5-142.6 Trace of chalcopyrite.	214.5	216.5	2580	Trace
		141.5-223 Weakly foliated at 40-50°.	216.5	219	2581	Trace
			219	220.5	2582	Trace
		Minor medium carbonate veins parallel to foliation and random. (Trace to 10% of interval.)				
		167 13 cm quartz vein. Trace of pyrite and pyrrhotite. Oriented at 25-30°.				
		192-193.5 Foliated at 50°. Less than 10% biotite. Trace to 5% pyrrhotite-pyrite. Gradational contact.				
		202-203.5 Foliated at 60°. Abundant carbonate veins parallel to foliation, 10-20% biotite, 2-5% pyrite.				
		Unit becomes more foliated, chloritic, crenulated to lower contact.				
		211-220.5 crenulated, 10-30% chlorite, minor brecciation, Trace of arsenopyrite, 1-2% chalcopyrite, 1-2% pyrrhotite-filled fractures.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		Foliated commonly at 30°.	220.5	222	2583	0.01
		220.5-235.7 Silicified, irregular boudins.	222	224	2584	Trace
		Fracture quartz. Unit becomes more biotitic, 5-30%.	224	225.5	2585	0.1
		Mineralized with fine needles of arsenopyrite,	225.5	227	2586	0.22
		Pyrite-pyrrhotite. Crenulated. Alternating breccia	227	228.4	2587	0.14
		and well-foliated intervals less than 15 cm.	228.4	230	2588	0.18
		227-231 Intercalated brecciation and foliation	230	231.5	2589	0.16
		intervals at 30°. Brecciation silicification and	231.5	233.3	2590	Trace
		minor sphalerite. Trace of arsenopyrite, 2-10%	233.4	235	14039	0.01
		pyrite. Lower contact is foliated at 40-45°.	234	236	14040	Trace
		235.7 Mineralized with sphalerite, pyrite and	236	237.8	14041	Trace
		pyrrhotite. Silicic banding at 45-50°.	290.4	292	14042	Trace
		235.6-238.3 Medium to fine dacite. - felsic	292	293	14043	Trace
		intrusion.	293	295.3	14044	0.01
		240 White-grey quartz-carbonate and pyrite - broken	320.5	322	14045	0.06
		core.	358.8	360	14046	0.1
		257.5-261.5 Feldspar porphyry. Sharp contacts at	364	366.2	14047	Trace
		45-50°. Remnant of interval is medium to fine-	380.3	382	14048	Trace
		grained.	382	383	14049	Trace
		290.4-294 Black to dark green weakly foliated at 55-	383	384	14050	0.74
		60°. Minor arsenopyrite, pyrite-pyrrhotite. Biotite	384	385	14051	0.16
		altered.	385	387.5	14052	0.10
		321 1 cm arsenopyrite band at 60°. 5-10% carbonate	398	399.4	14053	Trace
		in bards. Wall rock is medium-grained.	423.5	424.5	14054	0.01
		359-366 Silica banding at 55-60°. Mineralized with	424.5	426	14055	Trace
		chalcopyrite, pyrite and pyrrhotite.				
		364-365 silica bands at 55°. Wall rock is foliated				
		parallel. Minor biotite, less than 10%.				
		381.5-384 More than 20% biotite, foliated at 55°.				
		Trace of arsenopyrite, 2% pyrite-pyrrhotite.				
		Irregular 3 cm. quartz-pyrite veins at 383.5				
		386.5-387 Silica (Grey aphanitic bands, intercalated)				
		Biotite, trace of chalcopyrite. Pyrrhotite in wall				
		rock.				
		390-394.5 Feldspar Porphyry. Sharp biotite altered				
		contact at 75°.				
		398-399.4 Quartz-pyrite vein in porphyry with				
		biotite, more than 20%. Altered wall rock.				
		410.5-411.8 Feldspar Porphyry. Sharp biotite				
		altered contact at 85°.				
		Medium-grained mafics for the remnant of interval.				
		Intercalated with feldspar porphyry, biotite altered				
		proximal to porphyry.				
		424-424.5 Feldspar porphyry. More than 20% biotite,				
		2% pyrrhotite in wallrock.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
440.3	613.5	Intruded quartz-feldspar-porphry. Sharp upper contact at 60°. Light grey to yellow white, massive. Minor foliated intervals containing more than 20% sericite.	452	454.5	14056	Trace
		450-455 Foliated with 20% sericite. Foliated at 40°.	454.5	456.5	14057	Trace
		483-488 Mafic xenoliths with carbonate altered. Weakly foliated at 50°.	506	507.5	14058	Trace
		506-512 Foliated at 40°. Trace of quartz-chalcopyrite veining parallel to foliation.	507.5	508.5	14059	Trace
		317 Broken core.	508.5	509.5	14060	Trace
			509.5	512	14061	Trace
			566.3	568.5	14062	Trace
			568.5	570	14063	Trace
			570	571.3	14064	Trace
		566-571.3 Foliated at 50°. Grey to white quartz veins at random angles to the core axis. Trace of pyrite.				
		Quartz diorite is weakly foliated to lower contact. Sharp lower contact at 80°.				
613.5	656.5	Mafic Basalt. Foliated at 65-70°. Biotite-chlorite. Foliated. Fine grained. Gradational to medium-grained at lower contact.	613.5	616	14065	0.18
		613.5-617 Broken core, sericite-carbonate. Foliated at 70-80°. Trace to 1%, medium grained at lower contact. Carbonate-chalcopyrite-pyrite random stringers to 622.2	616	617	14066	0.12
		622-637.3 Silica and biotite foliated bands at 65°. Silica bands, less than 15%, brecciated. Containing stringers of pyrrhotite, pyrite and chalcopyrite with a trace of arsenopyrite (2-5% sulphides) Wall rock is biotitic. 10-20% biotite.	617	618	14067	Trace
		628-630 Dark grey porphyry - remnant feldspar phenocryst.	618	620	14068	Trace
		Silica banding at 622.2, 623.5, 630-631.5, 635.5, 636.5-637.3.	620	623	14069	Trace
		637.5-650.8 Foliated chlorite, fine-grained, foliated at 55°.	623	626	14070	Trace
		650.8-656.5 Biotite-silica banding at 60°. Trace to 1% arsenopyrite. 1-2% pyrrhotite, 1-2% pyrite. Fine-grained. Gradational lower contact.	626	627.8	14071	trace
			627.8	630	14072	trace
			630	631.5	14073	0.22/.24
			631.5	632.7	14074	0.14
			632.7	635	14075	0.08
			635	637.3	14076	0.32/.66
			637.3	639.5	14077	trace
			650	652	14078	trace
			652	653.5	14079	0.08
			653.5	655.2	14080	0.10
			655.2	656.6	14081	0.46/.34
656.3	838	Mafic Basalt. Medium-grained, massive, minor well-foliated intervals - biotite.	686	687.5	14082	trace
		686.5-687.2 Quartz-carbonate-chalcopyrite. Trace pyrite, breccia-stringer zone.	692	693.5	14083	trace
		692-693.5 Foliated, 15 cm interval. AT 40°. Quartz-pyrite-chlorite vein, parallel to foliation. Trace 2% of pyrite.	696	697	14084	trace
			706	707.5	14085	trace
			729	730	14086	trace
			730	731	14087	trace
			731	732.5	14088	trace

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
696.5		6 cm silicification with 1% pyrrhotite.-	757	758.5	14089	trace
		Foliated at 55°	779	780.5	14090	trace
706-707.5		Irregular quartz-pyrite vein with 2-5%	780.5	782	14091	0.30
		pyrite. Lower contact is 55°.	782	784	14092	trace
729-732.5		Several 1" quartz-pyrrhotite-chalcopryrite	794.5	796	14093	0.30/.28
		veins oriented at 55-55°. Trace of epidote. Weakly	799	800.5	14094	trace
		foliated wallrock.	825	826	14095	trace
752-758.5		Foliated at 80°. Silicified. Medium to				
		light green, 1-2% pyrite, pyrrhotite. Fine-grained.				
780.5-782		Silicified with biotite foliated at 35-40°.				
		2-5% pyrite with a trace of pyrrhotite and 10%				
		biotite. Minor arsenopyrite as fine needles.				
794.5-796		Silicified zone oriented at 40°. 10%				
		biotite in the wallrock. Trace to 2% pyrite.				
799.3-800.5		Biotite foliated at 75°. 10-20%				
		biotite. Broken lower contact. 2-5% pyrite.				
825-825.5		Silicified bands oriented at 50°, 2-5%				
		pyrite-pyrrhotite. Unit becomes more feldspar-				
		phyric.				
833-838		Leopard Rock				

838

End of Hole.

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-43

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 131+00 E/ 116+70.6 N
 Length: 812 ft.
 Core Size: BQ
 Acid Tests: 41° - 186; 39° - 396;
 35° - 486; 33° - 582
 Started: August 24, 1988
 Logged by: R. Anderson, H. Matthews

Azimuth: 360 degrees
 Tropari Tests: 45° - 0.
 Elevation: 9986.0
 Drill Company: Morrisette
 Completed: August 28, 1988
 Date Logged: August 28, 1988



Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	42	Overburden				
42	107.2	Mafic Basalt/ Andesite. Intercalated sequence of light medium grey-green, biotite-chlorite phyruc unit and fine-medium grained mafic with a greasy feel to biotite-phyric unit (altered ultramafic?). Sharp contact 40-45°				
107.2	471.6	Mafic Basalt. Fine to medium grained, dark green, minor foliated intervals.	167	168	14180	trace
			241.5	243	14181	trace
		162.5-167.5 Andesitic, pyrrhotite-pyrite banding at lower contact at 55° to 168. Increase in abundance of fine carbonate stringers lower in interval and foliated at 40°.	249.4	251	14182	trace
			251	253	14183	trace
			253	256	14184	trace
			256	258.5	14185	0.02
		176 Crenulated foliation at 40-45°.	258.5	260.5	14186	trace
		217-219 Broken core - Fault breccia. Carbonate in-filling.	260.5	263.3	14187	0.01
			263.3	264.5	14188	trace
		242-242.5 Biotite banding foliated at 55°. 1-2% pyrite.	264.5	266	14189	trace
			266	268	14190	0.08
		249.4-268 Well-foliated at 35-40°. Biotite banding mineralized with pyrrhotite and less than 2 cm pinch and swell grey quartz veins. (1-2% pyrrhotite-pyrite). 5-10% fine carbonate stringers parallel and random to foliation	327.5	328.5	14191	trace
			328.8	330.5	14192	trace
			341	342	14193	0.02
		287.5-291 Silicification zone, medium grey. Gradational contact, barren.				
		299-325.5 Medium mafic, minor fine banding at 45°.				
		328-329.5 Silicified breccia. Mineralized with pyrrhotite, chalcopyrite, 1-2%.				
		342 2 cm quartz-pyrite vein at 40°				
		345 Well-foliated at 50°.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		347.4-357 Minor biotite banding at 60°. Less than 15 cm, trace of arsenopyrite at 348. Biotite, pyrrhotite, pyrite at 352, 354.5 and 356.2.	347	349	14194	0.08
		368-378 similar to 347.4-357. biotite banding with silica bands parallel to foliation at 55°. More than 20% biotite in bands, 1-2% pyrite, pyrrhotite. The rest of the zone is massive fine grained basalt.	349	351	14195	trace
		400.7-401.6 Chlorite biotite shear with 30% biotite. 3-5% stringers pyrrhotite. Still have banding and altered below but no sulphides. Foliated at 60°.	351	352.4	14196	trace
		408-415.5 60% Grey quartz-feldspar-porphry veins.	352.4	354	14197	trace
		418.5-421, 428.3-429.5 As at 400.7 but with zones grey silicification.	354	356	14198	0.01
		432.8-434.8 Biotite, 30% with sheared grey quartz-feldspar-porphry and pyrite-pyrrhotite, 5%. Roughly 10-20% quartz-feldspar-porphry zones.	356	357	14199	0.01
		439 Brecciated Feldspar masses.	368	369.5	14200	trace
		448-450 Mylonitic quartz-feldspar-porphry at 40° with 2-3% pyrite with biotization above and below.	369.5	371	14201	0.01
		450-451.2 Silicification, 5-10%	371	372.5	14202	trace
		453.5 1/4" fracture with tourmaline? filling.	372.5	375	14203	trace
		458.2-464.3 Epidote-biotite-silica vein. Bands of pyrite-pyrrhotite up to 5%.	375	376	14204	0.08
		2-3% pyrite down to 471.6	376	378	14205	trace
		470.4-471.6 Stringer pyrite at contact and minor diffuse medium-grained arsenopyrite.	378	399	14101	trace
			400.7	401.6	14102	trace
			401.6	406	14103	trace
			406	418.5	14104	trace
			418.5	421.9	14105	trace
			421.9	424	14106	0.01
			424	426	14107	trace
			426	428.3	14108	trace
			428.3	429.5	14109	0.10
			429.5	432.8	14110	trace
			432.8	434.8	14111	0.02
			434.8	438	14112	trace
			442	444.8	14113	trace
			444.8	448	14114	trace
			448	450	14115	trace
471.6	510.5	Sericite schist. Only minor zones of foliated quartz-feldspar-porphry. Minor amounts of fine disseminated arsenopyrite throughout. Foliated at 60°.	450	451.2	14116	0.18
		497-501.6 Mylonitic sugary.	451.2	454	14117	trace
		501.6-504.5 Zone of silicified basalt. Greenish and well foliated.	462.8	464.3	14118	trace
		504.5-510 Silicified. Gougey at 508-509	464.3	468	14119	trace
		509-510.5 Cataclastic breccia with random silicified fragments in a buff green cryptocrystalline matrix.	468	470.4	14120	0.01
			470.4	471.6	14121	trace
			471.6	474	14122	trace
			474	476	14123	trace
			476	479.6	14124	trace
510.5	577.4	Variably tectonized quartz-feldspar-porphry. Ranges from a quartz diorite with chloritized mafic mineralized to a sugary, tan mylonite with sericite. Also varying amounts of quartz flooding. No arsenopyrite.	479.6	482	14125	trace
			482	485.5	14126	trace
			485.5	490	14127	0.08
			490	492.6	14128	trace
			492.6	497	14129	0.01
			497	499	14130	trace
			499	501.6	14131	trace
			501.6	504.5	14132	trace
			504.5	507.7	14133	trace
			507.7	510.5	14134	trace

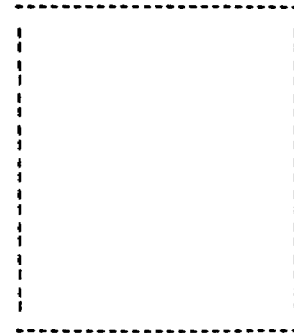
From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		549-552 Fine-grained, felsic, aphanitic, intrusion.	510.5	514	14135	0.10
		Sharp contacts, wandering. Darker grey in colour.	531	534.9	14136	trace
		562.7-571 Sheared quartz-feldspar-porphyr. Mixed	560	562.7	14137	0.01
		with biotite-calcite altered basalt.	562.7	566.4	14138	0.01
		562.7-566.4 Mostly altered basalt with 2%	566.4	569	14139	0.02
		disseminated arsenopyrite.	569	571	14140	0.01
		566.4-569 2-3% disseminated pyrite.	571	574	14141	trace
		569-571 Chlorite, biotite-altered basalt. with	574	577.4	14142	trace
		carbonate-filled fractures.				
		573.5 Quartz-pyrite vein.				
577.4	608.3	Mylonite. Felsic with varying amounts of sericite and	577.4	578.1	14143	trace
		quartz flooding. Foliated at 61°. Generally 2% fine	578.1	579.7	14144	trace
		pyrite. Trace of arsenopyrite.	579.7	584	14145	trace
			584	586	14146	trace
		577.4-578.1 Chlorite-biotite schist with calcite-	588	591.6	14147	trace
		filled fractures. Also at 579.2-579.7.	591.6	595	14148	trace
			595	599	14149	trace
		Appear to get fewer sulphides downhole.	605	608.3	14150	0.04
		594.5 Sericite vein? 2 inches of 40% sericite.				
608.3	611	Felsic to intermediate feldspar porphyry. Poorly	608.3	610	14151	trace
		developed 1/4" feldspar phenocrysts.. Slightly	610	611	14152	0.16
		foliated at 64°.				
		608.3-608.8 Clayey gouge oriented at 55-60°.				
		610-611 Shearing at 60° with 5% fine				
		pyrite, disseminated.				
611	618	Mineralized. Mostly sheared silica, cryptocrystalline	611	614	14153	0.34/0.38
		in light and dark bands. Random carbonate fractures	614	616.7	14154	0.22/0.26
		related to late gouge at 616.7. Silica also occurs as	616.7	618	14155	0.06
		black porphyroblasts. Arsenopyrite, 5% and pyrite as	618	621.3	14156	trace
		disseminations, 5%.	621.3	624	14157	trace
		616-616.7 Chloritized with stringer pyrite, 5%.				
		616.7-618 Stringer pyrite, 10%.				
618	680	Basalt. Fine-grained, magnetic. Competent and	624	624.5	14158	trace
		relatively massive with minor irregular fine	624.5	627.3	14159	0.01
		fractures, some with pyrite.	627.3	629.7	14160	trace
			629.7	632.6	14161	trace
		621.3-624 Silicified with 10-15% stringer pyrite-	632.6	635.7	14162	trace
		pyrrhotite, minor arsenopyrite. Foliated at 70°.	635.7	637.8	14163	trace
		624-624.5 Quartz-diorite vein.	637.8	638.6	14164	0.16
		624.5-627.3 Quartz-chlorite banding. Stringer pyrite,	638.6	641.3	14165	0.01
		3%.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		629.7-632.8 Silicification in grey bands with 5% pyrite in fractures.	641.3	646	14166	trace
		635.7-637.8 Shear with chlorite, biotite, and silicification. Stringer pyrrhotite, 3%. Foliated at 56°.	660	664	14167	trace
		638.6-641.3 As at 635.7 but pyrite, 10%, chalcopyrite, 1-2% and minor arsenopyrite as fracture-filling masses with calcite.	660	664	14168	trace
		648-649.3 Chlorite-biotite shear. Minor pyrite.	664	667.6	14169	0.01
		656-682.5 Zones of grey silicification, not much shearing. With pyrite as fine grains and stringers up to 10%.	667.6	669.8	14170	0.16
		669.8-674.4 Fine disseminated arsenopyrite in bands, up to 15%.	669.8	674.4	14171	trace
			674.4	678	14172	0.08
			678	680	14173	0.01
					14174	trace
680	812	Basalt. Medium-grained. Magnetic near upper contact down to 695. Dark green-grey. Mafic minerals are slightly chloritic. Uniform. Foliated at 68 degrees. Trace of disseminated pyrite. Minor epidotization and chloritization associated with small shears	680	682.5	14175	0.04
			766.5	770.5	14176	trace
			794	796.4	14177	trace
			796.4	797.8	14178	0.14
			797.8	800	14179	trace
		766.5-776.5 Trace of disseminated arsenopyrite.				
		796.4-797.8 Chlorite-biotite-silica shear at 60°. 5% stringer pyrite.				
812		End of Hole. Casing left in hole.				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-44
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 130+99.1E / 117+95.5N
 Length: 700 ft.
 Core Size: BQ
 Azimuth: 360 degrees
 Tropical Tests: 39 @ 42? -300'; 34 @ 032? - 400'
 29 @ 060 - 500
 Acid Tests: 45° - 0'; 35° - 266'
 30° - 436'; 28° - 576'; 22° - 700'
 Elevation: 9988.0
 Started: August 25, 1988
 Drill Company: Morrisette
 Completed: August 29, 1988
 Logged by: R. Anderson
 Date Logged: August 30, 1988



Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	32	Casing. Boulders of Chloritic Basalt.				
32	46.2	Basalt. Slightly chloritic. Relatively massive with a slight amount of banding at 45°. Dark green with white calcite filled fractures, 5-10%. Minor disseminated pyrite.				
46.2	69	Vesicular Basalt. Similar to previous unit but with 20% stretched pale, 5% vesicles oriented at 56°. Upper contact is sharp at 18°.				
69	91	Chloritic Basalt. Upper gradational contact. Very chloritic. Fine grained. Black to green. Contorted and twisted foliation but mostly at 40°. Stringers of pyrrhotite, 2%, associated with boudinaged quartz. and 2% pyrite with zones of silicification.	68.7	72	14206	0.01
			72	76	14207	trace
			76	80	14208	0.01
			80	83	14209	trace
			83	86.5	14210	0.02
			86.5	91	14211	0.01
		84.6-86.5 2% medium-grained arsenopyrite., 10% quartz boudins.	91	92	14212	trace
			92	94	14213	0.10
91	106	Sheared Silica. Some brecciation and quartz flooding. Grey-green. Very fine-grained. 5% pyrite as stringers.	94	96	14214	0.10
			96	98	14215	0.10
			98	100	14217	trace
			100	102	14218	0.01
		91-98 10% disseminated arsenopyrite in bands.	102	104	14219	trace
		98-100 Similar to 69-91	104	106	14220	trace
		102 Minor chalcopryrite, sphalerite.				
		101-106 10% disseminated pyrite in thin seams with arsenopyrite.				
106	107.8	Flow breccia? Fragments of chloritic basalt in 20% grey-green calcite.	106	107.8	14221	trace
107.8	108.5	Silicified Zone. With 5% very fine arsenopyrite.	107.8	108.5	14222	trace

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
108.5	267.5	Basalt. As at the top of the hole. With minor vesicular zones, 1' to 1 1/2'. Foliated at 58°.	108.5	111	14223	trace
			122	124	14224	trace
			124	126.5	14225	trace
		124-126.5 shearing with stringers of pyrite, 2% and 3% disseminated arsenopyrite.	126.5	129	14226	trace
			129	131.8	14227	trace
		131.8-133.6 Silicified and chloritic breccia. Very fine-grained, 5% stringers of pyrite and 1% fine-grained arsenopyrite.	131.8	133.6	14228	trace
			133.6	136	14229	trace
			147	149.9	14230	trace
		149.1-153.3 Biotite, well-foliated at 43°.	149.9	153.3	14231	0.01
		190-191, 208.9-209.5, 210.5-211, 177.9-178.3 Shearing with silicification and stringers of pyrite, 5%.	153.3	156	14232	trace
		Generally at 65°.	176	177.9	14233	trace
			177.9	178.3	14234	trace
		220.8-221.5 Shearing with silicification as above but with 4% fine-grained disseminated arsenopyrite.	178.3	181	14235	trace
			188	190	14236	trace
		219-230 Criss-crossing network of very fine pale fractures.	190	191	14237	trace
			191	193	14238	0.01
		241.4-242, 244-247.5 Shearing with silicification with minor arsenopyrite and 3% stringer pyrite.	206.2	208.9	14239	trace
			208.9	209.5	14240	0.32
		251.8-252.9 Biotite-chlorite shear at 55°. Minor arsenopyrite, 3% stringer pyrite.	209.5	210.5	14241	trace
			210.5	211	14242	0.06
		203.5-265 Biotite-chlorite-silica shear. Minor stringers of pyrrhotite.	211	213	14243	trace
			218.8	220.8	14244	trace
267.5	278	Quartz-flooded feldspar porphyry. Can see the outline of poorly developed feldspars in a few places. Also about 10-20% sheared and biotite-chlorite altered masses of basalt.	220.8	221.5	14245	0.08
			221.5	223.5	14246	trace
			239	241.4	14247	trace
			241.4	242	14248	0.22/0.20
278	291	Chloritic basalt. with 1-3 quartz-feldspar-porphyry veins, usually silicified. Basalt is mylonitic and silicified at the lower margin	242	244	14249	trace
			244	247.5	14250	trace
			247.5	250	14251	trace
			250	251.8	14252	trace
		278 - 283 Intense, medium-grained calcite-biotite alteration. Foliated at 40°.	251.8	252.9	14253	trace
			252.9	256	14254	trace
291	306	Quartz-feldspar-porphyry. White to grey with 40% white feldspar phenocryst, 30% bluish masses of quartz and 20-30% interstitial, chloritic mafic minerals. Also minor zones of grey silicification approximately 1' thick.	263.5	265	14255	0.16
			278	283	14256	trace
306	373	Sericite schist - Mylonite. Tan and sugary to medium-grained with blue quartz porphyroblasts.				
		315-327 Very sericitic. Minor disseminated pyrite.				
		317-318 quartz-feldspar-porphyry.				
		324 Grey quartz veining.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		336-346 Core is broken-up, contorted foliation.	346	348	14257	trace
		346-354 Breccia, very altered. Healed with silica.	348	351	14258	trace
		Gougey and broken, mostly at 50° at 348-350.	351	354	14259	trace
			354	356	14260	0.01
373	392.8	Quartz flooding. Aphanite, Tan-grey. Pure silica, with minor sericite schist portions.				
392.9	404.4	Quartz-feldspar-porphry, as at 291.				
404.4	470	Variably tectonized quartz-feldspar-porphry. Rangers	413.5	415.2	14261	trace
		from clean altered rock to a sericite schist. Upper	456	458	14262	trace
		contact is randomly brecciated. General shearing	464	466	14263	trace
		direction is 62°. Trace of disseminated pyrite.	466	469	14264	trace
		456-458; 413.5-415.2 Strongly sheared and sericitic.				
		459-469 Quartz flooded.				
		469-470 Brecciated felsic feldspar porphry.				
470	481.2	Silicified shear zone. Banding at 70°.	469	470	14265	0.01
			470	471.9	14266	0.16
		470-471.9 Brecciation with carbonated filled fractures. Barren.	471.9	474	14267	0.16
			474	475	14268	0.24/0.34
		471.9-475 Disseminated pyrite, 10% Very fine-grained	475	477.1	14269	0.14
		disseminated arsenopyrite in bands, up to 50%.	477.1	481.2	14270	trace
		475-477 Stringers and disseminations of pyrite, 10%.				
		477-481.2 Trace of pyrite, arsenopyrite				
481.2	631	Chloritic foliated basalt. dark green, uniform.	481.2	484	14271	trace
		486-489 Silicified with pyrite-pyrrhotite, 3%.	484	486	14272	0.01
		Shearing and banding oriented at 65°.	486	489	14273	0.01
			497	498.6	14274	trace
		497-498.6 Zone of intermediate to felsic feldspar	498.6	501	14275	0.08
		porphry with poorly developed feldspar phenocrysts.	501	503	14276	0.10
		Silicified with stringers of pyrite at the lower	514.5	519	14277	0.01
		margin in the basalt.	519	522	14278	0.02
		508-514.5 Grey silicification, barren.	522	525	14279	trace
		519-525 Silicified and banded with stringers of	602	604.3	14280	trace
		pyrrhotite, 3%.	604.3	607.6	14281	0.01
		630-631 Brecciated.	607.6	610	14282	trace

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
631	700	Bottom Basalt. Medium grained. Magnetic down to 615. Recrystallized in places with black amphiboles. Minor amounts of epidote associated with some shearing.	642	644	14283	trace
			644	646	14284	trace
			646	648.3	14285	0.70/0.64
			648.3	650.3	14286	0.16
		604.3-607.6 Silicified with shearing. Minor masses of arsenopyrite.	650.3	652.3	14287	trace
		646-648.3 Silica vein with 5-10% stringers of pyrrhotite. Margins have chlorite, biotite and are well-foliated at 75°. Also 2% stringers of pyrite and pyrrhotite and a trace of chalcopyrite.				
700		End of Hole. Casing left in hole.				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-45

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 126+99.9E / 119+02.3N
 Length: 506 ft.
 Core Size: BQ
 Acid Tests: 50° - 0'; 46° - 66';
 44° - 236'
 Started: August 29, 1988
 Logged by: Anderson, Matthews and
 Rowell

Azimuth: 360 degrees
 Tropari Tests:
 Elevation: 9991.6
 Drill Company: Morrisette
 Completed: August 31, 1988
 Date Logged: September 1, 1988

Other Tests: _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	32	Casing				
32	115	Basalt. Foliated at 45 to 50°, dark green, fine-grained. Non-magnetic. Less than 5% conformable quartz-carbonate veins. Trace of fine pyrite. Relatively uniform.				
		54.5-60.5 Zone of quartz-feldspar-porphyry with sheared margins at 51°. The centre of the unit is slightly foliated at the same orientation. Top foot has 5% stringers of pyrite with very fine-grained arsenopyrite.	51.0	53.5	18536	trace
			53.5	54.5	18537	0.22/0.24
			54.5	56.0	18538	0.01
		60.5 - 61.8 Basalt as at the top of the hole but with 20% quartz-feldspar-porphyry veins with irregular boundaries.				
		60.5-64 Very chloritic and foliated at 41°.				
		61.8-84.2 Quartz flooded quartz-feldspar-porphyry zone.				
		64.2-115 Medium-grained basalt with irregular carbonate fractures.				
		99-115 Irregular quartz-feldspar-porphyry veins up to 40% of the rock. The basalt becomes fine-grained near the lower contact.				
		114-115 Chloritized-actinolite with gouge oriented at 46°.				
115	397.5	Sheared quartz-feldspar-porphyry. At 40-50°. Grey, well foliated with blue quartz porphyroblasts. Roughly 10-20% quartz flooding. Brecciated and very sheared down to 122.5.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		145.0 weak foliation at 40°	149.0	150.5	14801	trace
		149.0 - 150.5 foliation at 45 - 50°				
		156.0 aphanitic	158.0	159.0	14802	trace
		174.0 - 175.8 aphyric felsic, sharp contact at 40°				
		176.5 weakly foliated at 30°, siliceous, tourmaline pyrite at 30°	-175.5	177.0	14803	trace
		195.0 - 196.0 foliated at 45°, >20% sericite, trace pyrite and tourmaline	195.0	196.0	14804	trace
		211.5 aphanitic, minor hematite				
		223.0 - 224.0 broken core, foliation at 40°, quartz phenocrysts <1 cm	243.0	244.5	14805	0.88/0.90
		234.0 - 281.0 foliated at 50°, 10 - 30% lenticular quartz < 2 cm parallel to foliation; unit may be sheared and altered mafic xenoliths	244.5 278.0 287.5	246.0 279.5 289.0	14806 14807 14808	0.01 trace 0.01
		243.5 - 244.5 foliated at 45°, 10% pyrite, trace to 1% arsenopyrite	321.1 323.3	323.3 324.5	18539 18540	trace 0.01
		266.0 - 268.0 broken core	355.5	359.9	18541	trace
		321.1 - 324.5 quartz-sericite schist, 1% pyrite, foliation 62°				
		355.5 - 359.8 quartz-sericite schist with 1% pyrite				
397.5	408.7	Quartz-Sericite Schist - Brownish grey; fine to medium grained; 50% quartz; 45% sericite; foliated at 52°; 0.5% pyrite along cleavage planes	392.6 396.0 399.7	396.0 399.7 401.6	18542 18543 18544	0.01 trace trace
		403.4 - 406.4 1% pyrite	401.6 403.4	403.4 406.0	18545 18546	trace trace
		406.4 - 408.7 broken up, sericite deteriorated to clay	406.0 408.7	408.7 409.9	18547 18548	0.06 0.18
408.7	422.7	Silicified Basalt - Greenish-grey; fine grained; 60% silicified, 40% chloritized; quite highly fractured with <1% quartz-calcite along fractures; 2% pyrite along fractures; nonmagnetic	409.9 412.0 414.7 416.0 417.2	412.0 414.7 416.0 417.2 419.4	18549 18550 18551 18552 18553	trace 0.01 trace trace 0.01
		408.7 - 410.0 silicified	419.4	420.8	18554	0.02
		410.0 - 414.8 chloritized	420.8	422.2	18555	0.04
		414.8 - 416.0 intermediate volcanic with 10% poorly developed feldspars up to 0.5 cm in length	422.2 425.2	425.2 428.1	18556 18557	0.01 trace
		416.0 - 420.6 silicified with 3% pyrite	428.1	429.3	18558	trace
		420.6 - 422.1 pervasively chloritized with 2% pyrite	429.3	431.5	18559	trace
		422.1 - 422.7 silicified				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
422.7	506.0	Medium Grained Basalt - Dark greenish-grey; medium grained; 55% amphibole, 40% saussuritized	431.5	433.3	18560	trace
		plagioclase; moderately fractured; slight pervasive chloritization, locally silicified; 0.5% pyrite + pyrrhotite primarily concentrated in silicified zones	433.3	436.0	18561	trace
			436.0	437.0	18562	trace
			437.0	439.5	18563	trace
			444.6	446.0	18564	trace
		426.8 - 431.7 silicified with 1% pyrite	446.0	447.7	18565	trace
		436.2 - 436.5 slightly silicified with 5% pyrite	447.7	449.3	18566	trace
		485.2 - 485.6 5% fine to medium grained pyrite	483.3	485.0	18567	trace
506.0		End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 885-46
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 128+00.3E / 118+46.9N
 Length: 606 ft.
 Core Size: BQ
 Acid Tests: 50° @ 0'; 44° @ 106';
 41° @ 270'; 37° @ 600'
 Started: September 1, 1988
 Logged by: W. Rowell

Azimuth: 360 degrees _____

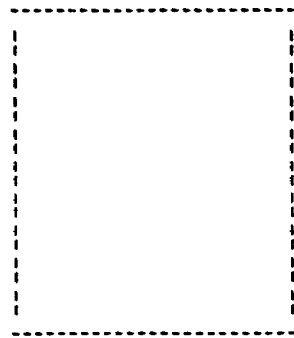
Tropari Tests: _____

Elevation: 9992.0 _____

Drill Company: Morrisette _____

Completed: September 3, 1988 _____

Date Logged: September 3, 1988 _____



Hole location in claim

From (ft)	To (ft)	Description	From	To	Tag	Gold
0	27.2	Overburden				
27.2	180.5	Basalt - Dark greenish-grey; fine grained; moderately fractured with 1% quartz-carbonate along fractures, pervasively chloritized, locally silicified, 1% biotite, <0.5% garnet-epidote; 0.5% pyrite, <0.5% pyrrhotite, trace arsenopyrite, trace chalcopyrite; nonmagnetic	41.9 43.6 44.5	43.6 44.5 45.7	18568 18569 18570	0.01 trace trace
		44.0 - 44.4 silicified with 5% pyrite, 1% very fine arsenopyrite	85.0 99.2 100.8 102.0	86.1 100.8 102.0 103.4	18571 18572 18573 18574	trace trace trace trace
		83.2 - 84.8 quartz-feldspar porphyry vein	106.0	107.4	18575	trace
		84.8 to end of unit quartz-feldspar porphyry veins more frequent	107.4 109.3	109.3 111.0	18576 18577	trace trace
		84.8 - 86.2 silicified	131.7 133.0	133.0 134.7	18578 18579	trace 0.01
		88.0 - 89.2 25% garnet-epidote	134.7	136.0	18580	trace
		101.2 - 101.6 5% pyrrhotite, 1% arsenopyrite concentrated in 1 cm band	147.5 149.3 152.7	149.3 152.7 154.2	18581 18582 18583	trace 0.08 trace
		107.4 - 109.1 silicified	154.2 157.8	157.8 159.0	18584 18585	trace trace
		116.0 becomes more foliated at 51 deg	159.0	160.6	18586	trace
		132.7 - 134.2 silicified with 1% pyrite and 0.5% arsenopyrite concentrated in 1 cm wide band				
		149.3 - 150.4 silicified with 1% pyrite, 0.5% arsenopyrite locally concentrated, 5% biotite				
		151.8 - 152.3 silicified with 10% biotite, 3% pyrite, 2% arsenopyrite in fine needle				

From	To	Description	From	To	Tag	Gold
		158.0 - 158.3 silicified with 5% pyrite, trace arsenopyrite				
		160 becomes more medium grained				
		176.8 - 180.5 10% chlorite spots up to 0.5 cm in diameter				
		lower contact 42 deg				
180.5	217.0	Quartz-Feldspar Porphyry Intercalated with Quartz-Sericite Schist - Brownish Grey; fine to medium grained; 70% quartz-sericite schist, 20% quartz-feldspar porphyry, 10% quartz flooded; moderately fractured with <1% quartz-calcite, 10% pink potassic alteration, <1% chlorite along fractures; <1% garnet-epidote, cleavage 59 deg; <0.5% sulfide				
217.0	251.2	Mafic Volcanic Intercalated with Quartz Flooded Quartz-Feldspar Porphyry	233.8	235.7	18587	trace
		217.0 - 217.1 gouge				
		217.1 - 222.2 core broken up				
		234.0 - 234.8 20% quartz-calcite, 2% pyrite				
		lower contact 52 deg				
251.2	470.2	Quartz-Sericite Schist Intercalated with Quartz-Feldspar Porphyry - Brownish-green, fine to medium grained; 70% quartz-sericite schist, 20% quartz-feldspar porphyry, 10% quartz flooded; foliation 55 deg; <1% pink potassic alteration, 1% quartz veining parallel to foliation; <0.5% sulfide	290.3	292.7	18588	0.08
			292.7	294.7	18589	0.01
			294.7	297.1	18590	0.08
			297.1	299.1	18591	0.12
			299.1	301.2	18592	trace
			308.9	312.0	18593	trace
		292.8 - 299.2 2% pyrite, trace arsenopyrite along foliation planes	312.0	314.9	18594	trace
			364.9	369.1	18595	trace
		310.0 - 320.4 quartz flooded with 0.5% pyrite	369.1	372.8	18596	trace
			372.8	376.0	18597	trace
		364.8 - 405.0 0.5% pyrite primarily in quartz-sericite schist	376.0	379.4	18598	0.01
			379.4	381.9	18599	trace
			381.9	384.6	18600	trace
		442.6 - 447.1 1% pyrite in quartz-sericite schist	384.6	388.3	18601	trace
			388.3	392.2	18602	trace
		454.6 to end of unit 1 - 2% pyrite in quartz-sericite schist	392.2	396.0	18603	trace
			396.0	399.5	18604	0.01
			399.5	403.0	18605	0.06
		462.3 - 464.0 very broken up with hematitic staining, sericite is kaolinized and quartz finer grained	403.0	406.5	18606	trace
			439.4	442.6	18607	trace

From	To	Description	From	To	Tag	Gold
		464.0 - 466.5 shattered and quartz flooded	442.6	445.2	18608	trace
			445.2	447.1	18609	0.04
		466.5 - 466.8 very broken up with gouge	447.1	449.4	18610	trace
			454.7	457.5	18611	0.10
470.2	489.1	Silicified Basalt - Greenish-grey; fine grained;	457.5	459.6	18612	0.04
		primarily silicified, locally chloritized; 1% boudinaged	459.6	462.1	18613	trace
		quartz veins up to 1 cm in diameter, <1% calcite along	462.1	466.0	18614	trace
		fractures; 1% pyrrhotite + pyrite, trace arsenopyrite	466.0	467.9	18615	trace
			467.9	470.1	18616	0.08
		477.7 - 480.6 cherty with 1 % pyrite + pyrrhotite	470.1	472.4	18617	trace
			472.4	474.2	18618	trace
		484.0 - 486.5 silicified with 3% pyrite, slightly vuggy	474.2	476.0	18619	trace
		where pyrite weathered out	476.0	477.7	18620	trace
			477.7	480.7	18621	trace
		487.6 - 490.2 silicified with 3% pyrite	480.7	482.7	18622	trace
			482.7	484.0	18623	trace
489.1	606.0	Medium Grained Basalt - Dark greenish-grey; medium	484.0	486.6	18624	0.06
		grained; 50% greenish amphibole, 45% saussuritized plag-	486.6	487.6	18625	trace
		icoclase; slightly fractured; 0.5% pyrite + pyrrhotite;	487.6	488.9	18626	trace
		weakly magnetic	488.9	490.3	18627	trace
			490.3	491.6	18628	trace
		491.6 - 492.6 cherty with 2% pyrite + pyrrhotite	491.6	492.6	18629	trace
			492.6	494.9	18630	trace
		510.2 - 510.7 silicified with 2% pyrite + pyrrhotite	508.6	509.8	18631	trace
			509.8	510.8	18632	trace
		528.8 - 529.4 50% quartz vein, elsewhere silicified with	510.8	511.8	18633	trace
		5% pyrite	527.9	529.7	18634	trace
			529.7	530.7	18635	0.14
		556.0 - 556.7 3% pyrite	530.7	531.9	18636	trace
			555.8	556.7	18637	trace
606.0		End of Hole (Casing Left In)				

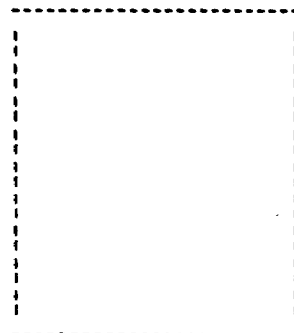
DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-47

Page : 1

Property Owner: Twin Gold Mines Ltd. _____
 Grid location: 128+00 E/ 120+00 N _____
 Length: 426 ft. _____
 Core Size: BQ _____
 Acid Tests: 50° @ 0'; 45° @ 300'; _____
 45° @ 426' _____
 Started: September 2, 1988 _____
 Logged by: W. Rowell _____

Azimuth: 360 degrees _____
 Tropari Tests: _____
 Elevation: Surface _____
 Drill Company: Morrisette _____
 Completed: September 4, 1988 _____
 Date Logged: September 5 1988 _____



Hole location in claim

From (ft)	To (ft)	Description	From	To	Tag	Gold
0	41.1	Overburden				
41.1	322.7	Quartz Diorite Intercalated with Quartz-Sericite Schist -	135.4	139.1	18638	trace
		Quartz Diorite - Mottled greyish white and dark grey;	139.1	143.2	18639	trace
		medium grained; 40% feldspar, 30% quartz, 15% mafics	143.2	146.0	18640	trace
		Quartz-Sericite Schist - Brownish-grey; medium to fine	146.0	149.8	18641	trace
		grained; 40% sericite, 55% quartz, cleavage planes 28°	149.8	153.1	18642	trace
		- both units quartz flooded over 5%, 5% hematitic				
		staining, 1% potassic alteration, trace sulfides	176.0	177.4	18643	0.02
			177.4	179.0	18644	trace
		59.2 - 60.4 very broken up	179.0	181.9	18645	trace
		67.5 - 68.1 highly fractured with hematite staining				
		95.6 - 96.7 broken up with hematite staining	216.0	218.0	18646	trace
		122.5 shear at 28°	218.0	221.0	18647	trace
		127.9 - 167.6 increase in hematitic staining	221.0	223.6	18648	trace
		177.5 - 181.6 trace pyrite + arsenopyrite	223.6	226.0	18649	trace
		196.0 - 312.6 primarily quartz diorite	226.0	228.6	18650	0.04
		216.0 - 226.0 0.5% pyrite	260.3	261.3	18651	trace
		235.5 - 238.0 very broken up	302.8	306.0	18652	trace
		240.1 - 240.4 gouge	306.0	308.4	18653	trace
		260.6 - 261.2 1% pyrite disseminated in quartz diorite	308.4	310.2	18654	trace
		310.2 - 312.6 core very rubbly	310.2	316.0	18655	trace
		312.6 - 322.6 0.5% pyrite along cleavage planes	316.0	319.5	18656	0.14
		317.0 foliation 33°	319.5	322.6	18657	trace
322.7	339.5	Silicified Basalt - Grey; fine grained; moderately fractured with <1% quartz-calcite along fractures; primarily	322.6	325.1	18658	trace
		silicified, locally chloritized, 5% biotite, 5% sericite;	325.1	327.1	18659	trace
		foliation at 49°; 3% pyrite, 1% pyrrhotite	327.1	329.1	18660	0.01
			329.6	332.6	18661	trace
			332.6	335.0	18662	0.01
		322.7 - 326.1 silicified with 3% pyrrhotite + pyrite	335.0	337.1	18663	trace
		along fractures	337.1	339.5	18664	trace
		326.1 - 332.6 silicified and chloritized with 1% pyrite	339.5	342.3	18665	trace
		+ pyrrhotite				

From	To	Description	From	To	Tag	Gold
		332.6 - 339.5 silicified with 3% pyrite and 1% pyrrhotite - lower contact gradational				
339.5	426.0	Medium Grained Basalt - Dark greenish grey; medium grained; 50% amphibole, 45% saussuritized plagioclase; (1% pyrite + pyrrhotite; weakly magnetic	400.0	401.0	18666	trace
		400.0 - 401.0 slightly silicified with 1% pyrrhotite + pyrite				
426.0		End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-48

Page : 1

Property Owner: Twin Gold Mines Ltd.

Grid location: 126+00.5E / 120+00.7N

Length: 400.0 ft.

Core Size: BQ

Acid Tests: 0' 45°, 306.0' 40°

400.0' 38°

Started: September 3, 1988

Logged by: H. Matthews

Azimuth: 360 degrees

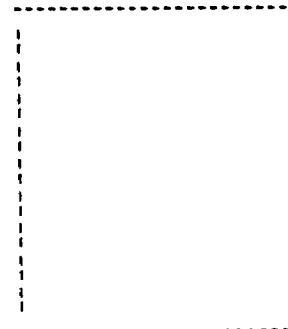
Tropari Tests:

Elevation: 9992.4

Drill Company: Morrisette

Completed: September 5, 1988

Date Logged: September 5, 1988



Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0.0	28.0	Overburden				
28.0	275.5	Quartz-Feldspar Porphyry	118.5	120.0	18694	trace
		massive, medium grained, minor foliated intervals.	185.0	187.0	18695	trace
		29.5-45.5 foliated at 40-45°, 10 to 20 %	266.0	268.5	18696	trace
		sericite, 38.0-39.0 broken core, trace pyrite	268.5	271.0	18697	trace
		45.5-80.5 massive, medium to coarse grained, less than 1 cm hornblende glomerocrysts				
		80.5-84.2 foliated at 45° with less than 10% sericite				
		118.5-120.0 fine grained with irregular 2-3 cm quartz-pyrite veins (less than 2% pyrite)				
		144.0-153.0 well foliated at 45-50°, 10 to 30 % sericite, increasing sericite to lower contact				
		153.0-187.0 weakly to well foliated at 45° with greater than 20% sericite				
		213.0 minor hematite alteration				
		220.0-231.0 broken core, foliated at 35°, 10% sericite				
		248.0-249.5 broken core, foliated at 50°				
		257.5-259.0 quartz-pyrite vein (trace to 1% pyrite), greater than 20 % sericite in wallrock, vein at 40°				
		260.0-271.0 foliated at 50°, greater than 20 % sericite, trace to 1% pyrite				
		273.0-275.5 broken core				
		unit becomes more foliated to lower contact, sharp broken lower contact at 50°				
275.5	277.0	Fault breccia				
		less than 3 cm angular clasts in clayey, carbonate matrix, weakly foliated at 65°				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
277.0	290.8	Basalt	279.5	282.5	18698	0.20
		fine grained, dark green grey to black, containing	282.5	284.5	18699	trace
		abundant carbonate stringers (10%), less than 1 cm,	284.5	287.5	18700	trace
		trace to 2% chalcopryrite, trace to 2 % pyrite and	287.5	289.0	18701	0.01
		pyrrhotite	289.0	291.0	18702	trace
		277.0-279.5 broken core, 10 to 30% random fine carbonate stringers, minor fractured quartz-pyrite veins parallel to foliation at approximately 60°				
		279.5-290.8 biotite-carbonate altered to 287.3, 10 to 20% biotite-chlorite foliated at 60° cut by random less than 1 cm carbonate, trace to 2% chalcopryrite, trace to 2% pyrite, trace to 2% pyrrhotite, increasing pyrrhotite lower in interval, silicified at 285.0-285.5				
		287.3-290.8 biotite-silicified banding, foliated at 50-55°, 10 to 20% biotite, 20 to 40% silicified with 2 to 10 % pyrite, 5 to 10% sericite, 10 to 20 % pyrite at lower contact				
		diffuse lower contact at 50 to 55°				
290.8	400.0	Basalt	322.0	324.0	18703	trace
		medium grained, dark green, minor foliated intervals,	360.0	362.6	18704	trace
		trace to 2% fine random carbonate stringers	362.6	366.0	18705	trace
		322.0-324.0 foliated at 30 to 40°, 2 to 5% pyrite, 2 to 10% biotite				
		351.0-369.0 broken core				
		360.0-362.6 irregular less than 1 cm carbonate stringers, trace to 2% coarse pyrite (less than 1 cm)				
		365.0-366.0 2% coarse pyrite, 2 to 5% carbonate				
400.0		End of Hole (casing left in)				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-49

Page : 1

Property Owner: Twin Gold Mines Ltd. _____
 Grid location: 127+01.2E / 120+23.3N Azimuth: 360 degrees _____
 Length: 322 ft. _____ Tropari Tests: _____
 Core Size: BQ _____
 Acid Tests: 45° @ 0'; 41° @ 322' Elevation: 9992.2 _____
 _____ Drill Company: Morrisette _____
 Started: September 5, 1988 Completed: September 6, 1988 _____
 Logged by: W. Rowell Date Logged: September 8, 1988 _____

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	34.0	Overburden				
34.0	252.5	Quartz Diorite Intercalated with Quartz-Sericite Schist - 50% brownish-grey quartz-sericite schist; medium grained; 50% quartz, 50% sericite; foliation 65°; trace pyrite 50% quartz flooded quartz diorite; mottled greyish white and dark grey; medium grained; 35% quartz, 40% plagioclase, 15% mafics; 50% quartz flooded, localized hematite staining, chloritized along fine fractures; trace pyrite 36.4 - 39.6 5% pyrite along fractures in quartz flooded zone	36.4	39.6	18706	trace
		136.1 - 139.1 kaolinized sericite with 0.5% medium grained pyrite, trace arsenopyrite?	136.0	139.1	18707	trace
		149.8 - 175.9 trace to 0.5% arsenopyrite primarily in quartz-sericite schist	149.3	150.6	18708	0.01
			150.6	154.9	18709	0.01
		149.8 - 151.3 quartz-sericite schist with 0.5% arsenopyrite and 0.5% pyrite	154.9	157.0	18710	0.04
			157.0	160.4	18711	0.04
			160.4	161.5	18712	0.44
		151.3 - 154.9 trace arsenopyrite and 0.5% pyrite in quartz diorite	161.5	164.0	18713	0.01
			164.0	166.0	18714	trace
			166.0	169.0	18715	trace
		154.9 - 156.1 10% calcite, slightly brecciated, 0.5% arsenopyrite	169.0	171.5	18716	trace
			171.5	174.0	18717	trace
			174.0	175.6	18718	0.01
		196.3 - 197.5 hematite staining				
		215.6 - 218.0 trace arsenopyrite, 0.5% pyrite				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		239.8 - 246.3 core broken up	215.6	217.5	18719	trace
		251.7 gouge	249.3	250.1	18720	trace
			250.1	252.3	18721	trace
		252.4 gouge				
252.5	276.1	Silicified Basalt - Greenish-grey; fine grained; 60% silicified, 40% chloritized; quite fractured with quartz-calcite along fractures; 1% biotite 1% pyrite, 1% pyrrhotite both primarily along fractures; trace arsenopyrite primarily in narrow bands	252.3	254.2	18722	0.12
			254.2	255.5	18723	0.16
			255.5	257.1	18724	0.01
			257.1	259.3	18725	trace
			259.3	261.5	18726	0.22
			261.5	264.7	18727	0.01
			264.7	267.3	18728	trace
			267.3	268.6	18729	0.02
			268.6	271.1	18730	0.10
			271.1	273.2	18731	0.36/0.38
276.1	322.0	Medium Grained Basalt - Dark greenish-grey; medium grained; 60% amphibole; 35% plagioclase; < 1% pyrite + pyrrhotite; slightly magnetic	273.2	276.0	18732	0.01
			276.0	278.0	18733	trace

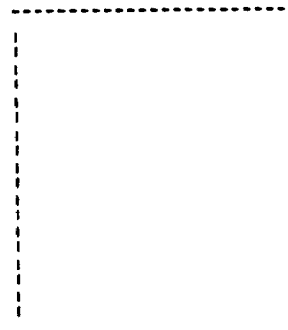
DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-50
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 137+01 E/ 120+50.4 N
 Length: 406 ft.
 Core Size: BQ
 Acid Tests: 45° - 0'; 38° - 396'

Azimuth: 360 degrees
 Tropical Tests:
 Elevation: 9976.2
 Drill Company: Morrisette
 Completed: August 30, 1988
 Date Logged: August 31, 1988

Started: August 28, 1988
 Logged by: R. Anderson



Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	62	Overburden with boulders of chloritic basalt with biotite				
62	66.5	Clear quartz-feldspar-porphyry. With chlorite alteration and brecciation at the margins. Black amphiboles make up about 25%, 30-40% blue quartz masses and 40% white feldspar phenocrysts.				
66.5	75.5	Basalt with chlorite. Mylonitized. Shearing at 46°. With 10% silica banding.				
75.5	93.5	Mylonitized quartz-feldspar-porphyry. Tan grey, well-foliated at 45°. Saccharoidal texture. No sulphides?				
93.5	106.3	Alternating bands of biotized, chloritic basalt and mylonitized quartz-feldspar-porphyry. Sheared at 45°. Neither unit occurs in zones more than 1' thick	104	106.3	14288	trace
		94-95 Broken-up. Gouge at 47°.				
106.3	109.2	Mineralized. Stringers of pyrite, 5-10%. Very altered, sheared. Silicified and pale green.	106.3	109.2	14289	0.02
109.2	136.2	Chloritized basalt. Fine-grained, dark green. Foliated at 47°. 5-10% irregular calcite-filled fractures. Some banding. The first 4' is up to 30% calcite-filled fractures.	109.2	111.5	14290	trace
136.2	150	Feldspar Porphyry. Intermediate to felsic with poorly developed, pale, feldspar phenocrysts. Grey.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
150	183.4	Brecciated quartz-feldspar-porphyry. Broken, gouged, quartz flooded. With chloritic gouges and fractures and or haematite. Barren of sulphides.	179	183.4	14291	trace
		160-165; 171-172.5 Hematitic fractures.				
		Bottom sheared at 46°.				
183.4	236.8	Altered Basalt with mineralization as follows:	183.4	186.7	14292	0.44/0.44
		183.4-186.7 Silicified, sheared, grey with stringers of pyrite up to 10%.	186.7	188	14293	0.76/0.58
		186.6-188 Biotite and sheared blue quartz (50/50) 5% stringers of pyrite.	188	190.5	14294	trace
		186.6-188 Biotite and sheared blue quartz (50/50) 5% stringers of pyrite.	190.5	194	14295	0.01
		186-190.5 5-10% stringers of pyrite with biotite and chlorite alteration.	194	196.3	14296	0.01
		190.5-194 Chloritic basalt with less than 5% stringers of pyrite.	196.3	198	14297	0.10
		194-196.3 Chlorite and silicification with 5% stringers of pyrite.	198	199.3	14298	0.01
		196.3-198 Silicification and chlorite-biotite shears.	199.3	202.8	14299	trace
		Arsenopyrite as fine disseminations, 5%. 2% masses of pyrite.	202.8	206	14300	0.10
		198-199.3 Fractured Intermediate feldspar porphyry.	206	209.2	14334	trace
		199.3-202.8 Silicification grading into distorted chlorite shearing. Bottom 6" has brecciation and gouge oriented at 48°	209.2	210	14335	0.10
		202.8-206 Silicification, sheared with stringers of pyrite-pyrrhotite, 5%. Trace of very fine grained arsenopyrite.	210	212.7	14336	trace
		206-209.2 Biotite-chlorite altered basalt with minor pyrite and pyrrhotite.	212.7	220.5	14337	0.08
		209.2-210 As at 202.8	220.5	223.8	14338	0.01
		Below 210 Alternating bands of silica and chloritic, magnetic basalt. Grey silica zones tend to have sulphides as at 202.8.	223.8	225.2	14339	0.12
		226.3-227.2; 228.8-231.4 5% very fine-grained arsenopyrite in silica.	225.2	226.3	14340	trace
			226.3	227.3	14341	trace
			227.3	228.8	14342	trace
			228.8	231.4	14343	0.18
			231.4	235.4	14344	trace
			235.4	236.8	14345	trace
			236.8	239	14346	0.01
236.8	292.2	Basalt. Typical bottom basalt. Dark green, medium-grained. Magnetic down to 245 Slightly chloritic with minor disseminated sulphides. Also minor epidote associated with shears.	263	265.3	14347	trace
			265.3	267.4	14348	trace
			267.4	271.4	14349	0.01
			271.4	273.5	14350	trace

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		265.3-267.4; 271.4-273.5; 276.5-277.3 Silicified shears with chlorite and stringers of pyrite. Generally sheared at 48°.	273.5 276.3 277.3	276.3 277.3 280	14351 14352 14353	0.02 trace trace
292.2	319.2	Intermediate to felsic feldspar porphyry. As previous and foliated at 42°.				
319.2	342.7	Basalt as at 236.8.	331 336	336 340	14354 14355	trace trace
		329.5-330.5 Thin band of felsic feldspar porphyry. 331-340 Chloritic. Medium-grained, disseminated pyrite up to 5%.				
342.7	351	Feldspar porphyry as at 292.2. Foliated at 52°.				
351	357.5	Basalt. Fine-grained, relatively massive. Similar to the upper basalts but not as chloritic. 356.5-357.5 Quartz-chlorite-biotite vein.				
357.5	366	Feldspar Porphyry. "Leopard Rock" 30% orthoclase phenocrysts, up to 1" long in a medium-grained basaltic matrix. Matrix is medium-grained basalt. No obvious sulphides. Non-magnetic				
366	376	Basalt as 351. Bottom 4' has 40% white quartz veining.				
376	402	Leopard rock as at 357.5				
402	406	Basalt as at 351				
406		End of hole. Casing left in hole.				

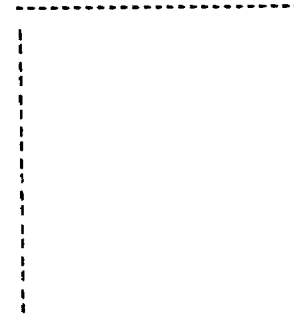
DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 885-51

Page : 1

Property Owner: Twin Gold Mines Ltd. _____
 Grid location: 137+99.6E / 120+49.5N _____
 Length: 350 ft. _____
 Core Size: BQ _____
 Acid Tests: 45° - 0'; 42° - 132'; _____
 36° - 350' _____
 Started: August 30, 1988 _____
 Logged by: H. Matthews _____

Azimuth: 360 degrees _____
 Tropari Tests: _____
 Elevation: 9971.7 _____
 Drill Company: Morrisette _____
 Completed: August 31, 1988 _____
 Date Logged: September 1, 1988 _____



Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	82	Overburden				
82	138.5	Quartz Diorite-quartz-feldspar-porphyr. Medium. Massive to foliated, minor aphanitic intervals, overall foliation at 40-45°. Containing up to 30% sericite.	83	84.5	13501	tr
			105	107	18502	tr
			107	108.5	18503	0.06
		83-84.5 4cm quartz vein at 65°. well foliated near contact.				
		84-88.3 Foliated with 10-20% sericite, foliated at 40°, broken core at lower contact.				
		93 Foliated over 2' with lenticular quartz phenocryst and 5-10% sericite.				
		105-108.5 Foliated at 40°. Minor hematitic alteration to lower contact. Lower contact is broken, unit barren to trace of pyrite.				
		109-116 Broken core.				
		116-120.5 aphanitic becoming hematitic lower in interval. Foliated at 45°.				
		131-139 Foliated at 35-40°. Foliated mafic xenoliths, trace of pyrite. Broken core, fissile.				
138.5	203.8	Basalt. Foliated at 50°. Chlorite and biotite altered. Dark green to dark brownish green.	135	136.5	18504	tr
			138.7	140.5	18505	tr
			140.5	141.5	18506	0.01
		140-145 Silica biotite banding with less than 3 cm quartz vein parallel to foliation. Trace to 2% pyrite, 2-5% carbonate stringers.	141.5	143.6	18507	0.16
			143.6	146	18508	tr
			146	148.3	18509	tr
		155-156 Silicified with 2% pyrite and foliated at 50%	148.3	151	18510	tr
			151	153.5	18511	tr
			153.5	155	18512	tr
			155	156	18513	tr
			156	157.8	18514	tr

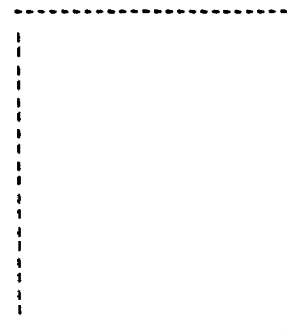
From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		169-174 Foliated with less than 5% biotite-silica banding. 2% pyrite	166	169.5	18515	tr
			169.5	171.8	18516	0.01
		176-181 Hornblende-phyric, medium to coarse-grained mafics	171.8	174	18517	tr
			174	175.2	18518	tr
		181 Fault breccia with carbonate stringers. Fault is oriented at 55°.	175.5	182	18519	0.24/0.20
			182	184	18520	0.26/0.32
		182-184 Silicified with 2-5% pyrite and 5-10% fine carbonate stringers to 193.	184	186	18521	0.06
			186	187	18522	tr
		186.5-187 Broken core with 10% carbonate stringers.	187.6	190	18523	tr
		190-190.5 Silica banding at 60° and 25-5% pyrite.	190	192.4	18524	0.01
		194.50-203.8 Silicified, well foliated at 50°. Minor sericite, less than 10%. Chlorite-pyrite(2-5%)	192.4	194.5	18525	tr
		Broken lower contact. Less than 5% biotite.	194.5	196.7	18526	0.01
			196.7	199	18527	tr
			199	201.6	18528	0.08
			201.6	204	18529	0.06
203.8	232	Feldspar Porphyry. Andesitic, massive. Medium-grained, medium to dark grey, sharp lower contact at 45°. Wallrock is biotitic at the lower contact.				
232	319.2	Basalt. Medium -grained, massive to foliated at 45°	244	248.5	18530	tr
			263	266	18531	tr
		244-248.5 1' of barren quartz vein parallel to foliated wallrock. Wall rock has 10-20% biotite with less than 2 cm barren quartz veins parallel to the foliation. Lower contact has chlorite-quartz veining in biotite glomerophyric unit	283.6	286	18532	tr
			286	288.4	18533	tr
			288.4	290	18534	0.01
			322	324.5	18535	tr
		263-265 Silicified with 2-5% pyrite. Oriented at 40°.				
		268-275.5 Feldspar phyric andesite. Massive, similar to 203.8 to 232				
		283-285.5 Biotite, 10-20% foliated with 4 cm quartz veins parallel to foliation. Trace of pyrite.				
		288.5-290 Crenulated with 2-5% pyrite.				
		Sharp lower contact at 65°				
319.2	350	Feldspar-phyric Basalt. Leopard Rock. Medium grained, massive, minor foliated intervals. Glomerophyric feldspars - pink to light pink green, less than 3 cm.				
		322-323 Less than 10% biotite. Foliated at 60°. Quartz-epidote-carbonate vein parallel to foliation. Barren.				
		333-338 Medium basalt. Massive.				
350		End of Hole				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-52
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 138+96.9E / 119+98.9N
 Length: 401.0ft.
 Core Size: BQ
 Acid Tests: 0' -45°; 306' -40°; 401.0
 -38°
 Started: September 1, 1988
 Logged by: H. Matthews

Azimuth: 360 degrees
 Tropari Tests:
 Elevation: 9966.6
 Drill Company: Morrisette
 Completed: September 3, 1988
 Date Logged: September 4, 1988



Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	72.0	Overburden				
72.0	166.6	Basalt - Massive; fine grained; minor foliated intervals, silicified with < 10% biotite	73.0	75.0	18667	tr
		73.0 - 74.0 silicified 10 cm band at 45°, trace pyrite	82.0	84.0	18668	tr
		84.0 - 86.0 silicified 10 cm band at 45°, trace pyrite	84.0	86.0	18669	tr
		86.0 - 88.5 minor <3 cm biotite banding, trace to 2% pyrite	86.0	88.5	18670	tr
		88.5 - 91.0 biotite, silicified banding at 50°, trace to 1% pyrite	88.5	91.0	18671	tr
		91.0 - 92.5 biotite, silicified banding at 50°, trace to 1% pyrite	91.0	92.5	18672	0.10
		92.5 - 94.0 minor <3 cm biotite banding, trace to 2% pyrite	92.5	94.0	18673	tr
		94.0 - 95.5 minor <3 cm biotite banding, trace to 2% pyrite	94.0	95.5	18674	tr
		95.5 - 111.3 biotite silicified intervals, 111.3 - 113.5 biotite, carbonate silicified at 60°, 2-5% pyrite	95.5	111.3	18675	tr
		111.3 - 140.0 biotite silicified intervals, 111.3 - 113.5 biotite, carbonate silicified at 60°, 2-5% pyrite	111.3	113.5	18676	tr
		113.5 - 116.0 biotite, carbonate silicified at 60°, 2-5% pyrite	113.5	116.0	18677	0.01
		116.0 - 120.0 sericitic (10-20%) with fine pyrite 2-10%, trace arsenopyrite (coarse euhedral), unit fine grained, white, foliated at 50°	116.0	120.0	18678	tr
		120.0 - 121.0 trace to 2% pyrrhotite fine stringers, trace garnet	120.0	121.0		
		121.0 - 123.0 trace to 2% pyrrhotite fine stringers, trace garnet	121.0	123.0		
		123.0 - 129.5 mottled biotite, silicified, barren of pyrite, unit becomes medium to fine grained to lower contact	123.0	129.5		
166.6	223.0	Quartz-Feldspar Porphyry - Medium grained, minor sericitic foliated intervals, sharp upper contact at 50°	205.0	208.0	18679	tr
		185.0 - 192.8 foliated at 55°, 10-20% sericite, minor broken core to 192.8				
		196.5 - 200.0 sericitic, trace pyrrhotite, foliated at 50°				
		205.0 - 208.0 10-30% sericite, foliated at 40°, minor quartz veining (<3 cm) trace to 2% pyrite				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		213.5 - 220.0 foliated at 45°	222.0	224.5	18680	tr
		222.0 - 223.0 foliated, lower contact at 35 - 40°	224.5	226.3	18681	tr
223.0	277.0	Basalt - fine grained with 2-20% carbonate stringers, <1 cm and foliated at 45°	226.3	228.5	18682	tr
		223.0 - 231.0 sericite foliated, carbonate altered, 20% sericite, 10 - 20% carbonate stringers, crenulated, trace pyrite, broken core	228.5	230.8	18683	0.01
			230.8	233.0	18684	tr
			233.0	235.5	18685	tr
			240.0	242.5	18686	tr
		240.0 - 246.2 foliated at 45°, minor quartz-pyrite veins (<2 cm) parallel to foliation	242.5	244.8	18687	tr
		246.2 - 266.0 medium grained basalt unit becomes weakly foliated to lower contact at 45° with increase in fine carbonate stringers (<1 cm), core becomes more broken	244.8	246.2	18688	tr
			270.0	273.0	14652	trace
277.0	280.0	Fault Breccia - Less than 3 cm clasts in clayey-carbonate matrix, silicified microbreccia at lower contact, trace pyrite	273.0	276.0	14653	trace
			276.0	279.0	14654	trace
			279.0	281.0	14655	0.18
280.0	384.8	Basalt - medium grained, massive, minor foliated intervals, minor andesite-feldspar porphyry intercalated	302.0	303.0	18689	tr
			309.0	310.8	18690	tr
			356.3	358.5	18691	tr
		287.8 - 291.0 andesite feldspar porphyry, contact sharp 40 - 45°	358.5	361.0	18692	tr
			361.0	364.5	18693	0.02
		302.0 - 303.0 carbonate, biotite foliated at 40°, 1-2% pyrite				
		306.6 - 310.8 foliated at 40°, 1-2% pyrite				
		316.4 - 321.3 andesite feldspar porphyry, lower contact sharp at 40°				
		329.0 - 331.0 andesite feldspar porphyry, 35 - 40°				
		350.0 - 364.5 foliated 0 - 30°, carbonate altered (5-40% carbonate)				
		356.3 - 364.5 5-10% <1 cm pyrite, biotite (10%), foliated 0-30°, 20 cm quartz vein, barren at lower contact, foliation 35-40° at lower contact sharp lower contact at 65°				
384.8	391.0	Feldspar Phyric Basalt (Leopard Rock) lower contact 50°				
391.0	401.0	Basalt - Fine grained, biotite-hornblende glomerophytic (<0.5 cm) weakly foliated at 60°				
401.0		End of Hole (Casing Left In)				

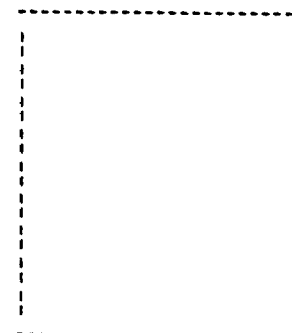
DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-53

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 125+00.5E / 121+25.2N
 Length: 206 ft.
 Core Size: BQ
 Acid Tests: 45° @ 0; 40° @ 206'
 Started: September 6, 1988
 Logged by: W. Rowell

Azimuth: 360 degrees
 Tropari Tests:
 Elevation: 9991.9
 Drill Company: Morrisette
 Completed: September 7, 1988
 Date Logged: September 8, 1988



Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	22.0	Overburden				
22.0	108.6	Quartz Diorite Intercalated with Quartz-Sericite Schist - 50% Quartz Diorite - Mottled dark grey and greyish-white; medium grained; highly fractured with chlorite along fine fractures; quartz flooded over 10%; trace pyrite 50% Quartz-Sericite Schist - Brownish-grey; medium grained; 40% sericite, 50% quartz; cleavage 60%; 0.5% pyrite locally concentrated				
		28.6 - 28.9 barren quartz vein at about 20°	28.4	29.6	18734	trace
			65.0	66.0	18735	trace
		65.5 - 66.0 0.5% pyrite in quartz-sericite schist	80.8	82.6	18736	trace
			82.6	83.8	18737	trace
		81.7 - 82.8 1% pyrite in quartz-sericite schist	83.8	85.2	18738	trace
108.6	115.3	Carbonitized Basalt? - Highly altered with pervasive calcite, 20% biotite, 10% chlorite, locally brecciated, <0.5% pyrite	108.6	111.6	18739	trace
			111.6	114.0	18740	trace
			114.0	115.8	18741	trace
115.3	117.9	Quartz Diorite- Same as in 22.0 - 108.6				
117.9	119.7	Lamprophyre Dike - Black, 70% biotite, 5% calcite, upper contact 51°, trace sulfides	119.9	121.8	18742	trace
			121.8	125.6	18743	trace
119.7	130.4	Quartz Sericite Schist - Same as in 22.0 - 108.6 with 0.5% pyrite; cleavage 41°	125.6	127.7	18744	0.01
			127.7	130.2	18745	trace

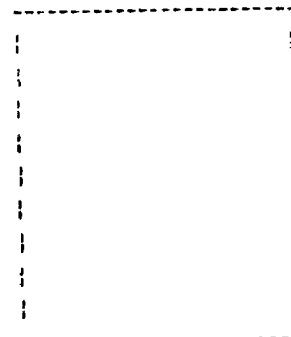
From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
130.4	206.0	Medium Grained Basalt - Dark greenish-grey; medium grained; 40% amphibole, 50% saussuritized plagioclase; slightly fractured with <1% quartz-calcite concentrated along fractures; slightly magnetic; 0.5% pyrrhotite + pyrite	130.2	132.6	18746	0.14
		149.5 - 149.9 broken up and gouge	132.6	135.9	14667	tr
206.0		End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: BBS-54
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid Location: 126+00 E; 122+00 N
 Length: 76.0 ft. (aborted)
 Core Size: 80
 Acid tests: 0' 45"
 Started: September 8, 1988
 Logged by: H.L. Matthews

Azimuth: 360 degrees
 Tropical tests:
 Elevation: Surface
 Drill Company: Morrisette
 Completed: September 9, 1988
 Date Logged: September 9, 1988



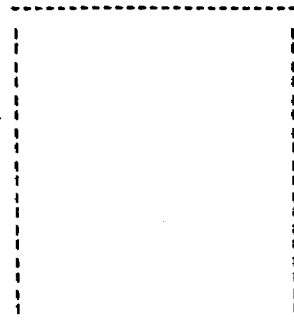
Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0	66.0	casing				
	76.0	Basalt medium grained, massive, weakly foliated at 45°				
76.0		End of Hole (hole over shot zone, hole aborted and casing withdrawn)				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 885-55
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 129+00.6E / 118+43.3N
 Length: 576 ft.
 Core Size: BQ
 Acid Tests: 50 deg at 0'; 48 deg at 300'; 42 deg at 576'
 Started: September 8, 1988
 Logged by: W. Rowell
 Azimuth: 360 degrees
 Tropari Tests:
 Elevation: 9990.8
 Drill Company: Morrisette
 Completed: September 10, 1988
 Date Logged: September 11, 1988



Hole location in claim

From (ft)	To (ft)	Description	From	To	Tag	Gold
0	19.8	Overburden				
19.8	56.0	Basalt - Dark greenish-grey; fine to medium grained; moderately fractured with 2% quartz-calcite along random oriented fractures; primarily slightly chloritized, locally silicified, up to 10% biotite in silicified areas; 1% pyrite (locally concentrated); a few shears at 43°; <1% pyrrhotite, trace arsenopyrite 23.1 - 23.8 5% pyrite in chloritized zone 25.0 - 26.2 2% pyrrhotite, 2% pyrite, 0.5% arsenopyrite in chloritized zone 36.9 - 53.3 medium grained	22.7 23.7 25.0 26.2	23.7 25.0 26.2 29.3	18747 18748 18749 18750	trace trace 0.01 trace
56.0	58.6	Fine Grained Siliceous Dike - Dark grey, fine grained, massive, slightly foliated at 39°, could be unit which sometimes has porphyritic feldspars; upper contact 50°	57.5 58.4 61.7	58.4 61.7 63.0	18751 18752 18753	trace 0.01 trace
58.6	254.1	Basalt - Similar to 19.8 - 56.0 58.6 - 61.5 silicified basalt with 2% pyrite, trace chalcopyrite 61.3 - 61.5 brecciated with calcite 80.1 - 106.0 becomes more fractured 95.5 - 96.2 chloritic, 20% quartz, 7% massive pyrite 98.0 - 100.2 biotite schist with 25% biotite oriented at 38°; 1% pyrite, 1% pyrrhotite 106.0 probably different basalt unit with contact at 30° 123.0 - 123.3 silicified with 15% biotite, 2% pyrite + pyrrhotite 126.7 - 127.9 silicified sheared areas with 1% biotite 1% pyrite, 1% arsenopyrite 146.0 - 147.7 silicified with <1% pyrite, trace arsenopyrite 167.2 - 170.2 silicified with 5% biotite, <1% pyrite 181.1 - 182.6 quartz flooded quartz-feldspar porphyry 181.1 to end of unit quartz-feldspar porphyry more common	95.3 96.6 98.6 123.0 126.4 128.0 128.0 143.9 146.0 147.9	96.6 98.6 101.4 126.4 128.0 130.9 169.2	18754 18755 18756 18757 18758 18759 18760 18761 18762	trace trace trace trace 0.36 trace trace trace 0.01 trace

From	To	Description	From	To	Tag	Gold
		184.8 - 184.9 silicified with 5% pyrite + pyrrhotite	184.3	185.2	18764	trace
		202.8 - 205.0 silicified with 2% pyrite, 0.5% arsenopyrite, 5% biotite, foliation 40°	200.3	202.6	18765	0.01
		215.0 - 216.3 quartz flooded and potassic altered quartz-feldspar porphyry dike	202.6	205.1	18766	0.02
		218.1 - 235.0 medium grained with frequent quartz flooded zones	205.1	207.5	18767	trace
		235.0 - 241.3 possible vesicular basalt	207.5	209.4	18768	trace
254.1	268.5	Hypabyssal Intrusion? - Greenish-grey; fine almost medium grained; massive; few fractures; chilled upper contact; trace sulfide				
		268.3 - 268.5 broken up with gouge				
268.5	283.1	Altered Quartz-Feldspar Porphyry - Pinkish-grey; pervasive quartz flooding and pink potassic alteration				
		268.5 - 269.0 brecciated with pink potassic alteration and 5% chloritic matrix				
		269.0 - 269.3 gouge				
283.1	296.0	Basalt Intercalated with Quartz Flooded Quartz-Feldspar Porphyry - Dark greenish-black; highly fractured with 3% quartz-calcite along fractures and tension gashes; 10% pinkish quartz flooded quartz-feldspar porphyry veins up to 0.2 feet wide; trace sulfide				
296.0	498.9	Quartz Flooded Quartz-Feldspar Porphyry Intercalated with Quartz-Sericite Schist - Mottled greyish-white and dark grey quartz-feldspar porphyry intercalated with greenish-brown quartz-sericite schist; foliation 62 deg	389.4	390.9	18769	trace
		389.4 - 390.9 quartz flooded with 5% pyrite, some in coarse grained cubes	416.8	418.3	18770	0.01
		407.0 foliation 53 deg	424.3	426.7	18771	trace
		416.8 - 418.3 0.5% pyrite in quartz-sericite schist	488.6	496.0	18772	0.01
		426.7 - 429.0 1% pyrite in quartz-sericite schist	496.0	499.4	18773	0.08
		488.0 - 495.1 broken up with some gouge between 494.6 - 495.1	499.4	503.4	18774	trace
		496.9 - 498.9 quartz-sericite schist with 1% pyrite, trace arsenopyrite	503.4	506.5	18775	trace
			506.5	510.6	18776	0.12
			510.6	513.4	18777	trace
498.9	518.3	Silicified Basalt - Greyish-green; fine grained, 80% silicified, 20% chloritized, 10% biotite, 2% pyrrhotite	513.4	516.0	18778	0.32
		1% pyrite, trace arsenopyrite	516.0	519.4	18779	0.16
		498.9 - 502.6 5% pyrrhotite, 1% pyrite, trace arsenopyrite	519.4	521.6	18780	trace
		502.6 - 502.8 gouge				
		502.8 - 506.6 primarily chloritic, 2% pyrrhotite, 1% pyrite				
		506.6 - 510.6 silicified with 3% pyrite + pyrrhotite				

From	To	Description	From	To	Tag	Gold
518.3	576.0	Medium Grained Basalt - Dark Greenish Grey; medium grained; 50% amphibole; 45% saussuritized plagioclase 0.5% pyrite + pyrrhotite; slightly magnetic				
576.0		End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 885-56

Page : 1

Property Owner: Twin Gold Mines Ltd.

Grid location: 129+99.9E/117+98.2N

Length: 666 ft.

Core Size: BQ

Acid Tests: 45° @ 0'; 36° @ 300';

31° @ 300'

Started: September 10, 1988

Logged by: H. L. Matthews

Azimuth: 360 degrees

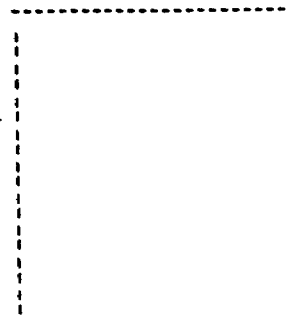
Tropari Tests:

Elevation: 9986.3

Drill Company: Morrisette

Completed: September 12, 1988

Date Logged: September 12, 1988



Hole location in claim

From (ft)	To (ft)	Description	From	To	Tag #	Gold
0	8.5	Overburden				
8.5	261.4	Basalt - Dark green, massive to foliated at 40 - 50°, minor variolitic interval at 75.0 - 81.0 8.5 - 58.0 fine grained containing 2 - 10% < 1 cm random quartz-carbonate stringers barren of sulfides in chloritic zone foliated at 50°, gradational to medium grained to 34.0				
		37.0 - 44.0 biotite altered, quartz-carbonate veining, foliated at 35 - 40°, 2 - 5% pyrite on foliation planes, trace to 2% < 1 cm quartz-pyrrhotite-pyrite veins at 30°	37.0	38.5	18781	trace
		38.0 - 39.5 broken core	38.5	40.5	18782	trace
		42.0 - 58.0 2 - 5% < 0.5 cm random fine carbonate stringers, becomes foliated at 40 - 50° at lower contact	40.5	41.8	18783	trace
		58.0 - 73.0 foliated, biotite altered, silicified with intervals of > 30% biotite, 3 - 5% pyrite, 2 - 10% arsenopyrite, trace to 1% chalcopyrite, 1 - 2% pyrrhotite	41.8	44.0	18784	trace
		59.0 random < 0.5 cm carbonate stringers, trace to 1% chalcopyrite	56.4	58.0	18785	trace
		60.0 - 61.5 crenulated, 2 - 5% coarse arsenopyrite parallel to foliation at 40°, 1 - 3% pyrrhotite-pyrite silicified at lower margin	58.0	59.5	18786	trace
		64.0 - 64.5 silicified, foliated at 50°, 1 - 3% pyrite-pyrrhotite	59.5	61.0	18787	0.06
		65.0 - 67.0 10 - 30% biotite, silicified, foliated at 50°, trace chalcopyrite, 1 - 2% arsenopyrite (fine needles), silicified-biotite banding in wallrock	61.0	62.5	18788	trace
		69.5 - 72.0 > 10% biotite, silicified contacts at 25 - 30°, 5 - 10% arsenopyrite, 1 - 10% pyrrhotite - pyrite, trace galena at lower margin, sharp lower contact at 40°	62.5	64.0	18789	trace
			64.0	65.0	18790	0.06
			65.0	66.0	18791	0.12
			66.0	68.5	18792	0.06
			68.5	70.0	18793	0.01
			70.0	72.0	18794	0.06
			72.0	74.0	18795	trace

From	To	Description	From	To	Tag #	Gold
		93.0 - 95.0 silicified, aphanitic, barren, foliated at 55°	115.5	117.0	18796	trace
			121.5	123.5	18797	trace
		96.0 - 106.4 fine grained, well foliated at 20 - 25°, > 30% chlorite, sharp lower contact at 50°	123.5	126.0	18798	trace
			126.0	128.3	18799	trace
		106.4 - 264.4 medium grained with minor fine grained intervals, massive, minor silicified banding at 40°	128.3	131.5	18800	trace
			131.5	135.0	18801	trace
		115.5 - 117.0 silicified - biotite banding at 40°, trace pyrrhotite - pyrite at 50 - 55°	135.0	138.0	18802	trace
			138.0	141.0	18803	trace
		123.5 - 125.0 10 - 20% biotite - silicified, 1 - 2% arsenopyrite, foliated 50°, 20 cm silicified at upper margin	171.6	174.0	18804	trace
			174.0	176.4	18805	trace
		127.0 10% biotite, barren to trace pyrrhotite - pyrite at 25°	176.4	178.4	18806	0.01
			178.4	179.5	18807	trace
		132.0 10% biotite	179.5	181.3	18808	0.04
		134.0 - 137.5 silicified - biotite banding at 40°, 2 - 5% pyrrhotite - pyrite, 1 cm bands of chlorite - biotite, remainder of interval mottled silicified zones	197.0	198.0	18809	0.02
			198.0	199.0	18810	trace
		172.5 - 173.0 chlorite - silicified banding, 1 - 5% pyrite - pyrrhotite at 45°	199.0	200.0	18811	trace
		178.5 - 179.5 10% biotite - silicified banding at 60°, 2 - 5% pyrrhotite - pyrite, trace arsenopyrite	218.5	220.0	18812	trace
		198.0 - 199.0 biotite - silicified banding at 55°, 1 - 3% pyrrhotite - pyrite stringers < 0.5 cm	236.0	238.0	18813	trace
		202.0 - 220.0 foliated, fine to medium grained, foliation 40°, chloritic, trace pyrrhotite - pyrite in random < 0.5 cm carbonate stringers	254.5	256.5	18814	trace
			272.0	273.5	?	trace
		218.5 - 220.0 10 - 20% biotite foliated at 20 - 25°, trace to 2% pyrrhotite - pyrite				
		255.5 - 256.0 silicified banding at 50°, 2 - 5% pyrite, trace to 1% pyrrhotite				
		unit has more silicified banding and biotite toward bottom				
		lower contact sharp at 75 - 80°				
261.4	315.0	Quartz-Feldspar Porphyry - weakly foliated intervals at 75 - 80°, minor aphanitic intervals gradational				
		266.5 - 268.0 mafic xenolith weakly foliated at 80°, minor carbonate veining, barren				
		272.0 - 273.5 mafic interval, 1 - 5% disseminated pyrite chloritic alteration, quartz-feldspar porphyry becomes aphanitic				
		305.0 - 306.5 foliated at 40°				
315.0	341.0	Basalt/Quartz-Feldspar Porphyry - intercalated silicified zones and quartz-feldspar porphyry with fine basalt, 10% < 1 cm carbonate stringers in basalt, contacts 40 - 50°				
		322.0 - 324.5 broken core, fault zone, clayey - carbonate matrix, angular mafic clasts				
		sharp irregular lower contact at 60 - 70°				

From	To	Description	From	To	Tag #	Gold
341.0	496.0	Quartz-Feldspar Porphyry - massive, medium grained, minor aphanitic intervals, trace to barren of sulfides	487.4	490.0	18115	trace
		357.0 - 358.0 > 20% sericite, foliated at 45 - 50°	490.0	492.2	18116	0.02
		399.0 - 401.0 foliated at 40°, 10 - 20% sericite	492.2	494.5	18117	0.10
		410.0 - 412.0 < 10% sericite, weakly foliated at 60°	494.5	495.5	18118	trace
		484.0 - 496.0 well foliated, > 20% sericite, < 1 cm lenticular quartz eyes parallel to foliation to lower contact, foliated at 60 - 65°, silicified sharp lower contact, barren of sulfides	495.5	497.5	18119	0.08
			497.5	499.0	18120	0.18
			499.0	500.2	18121	trace
			500.2	502.0	18122	0.78
		485.5 - 490.0 broken core (fissile)	502.0	503.5	18123	0.58
			503.5	505.0	18124	0.20
496.0	525.5	Basalt - fine grained, biotite/silicified banded at upper contact, 10 - 20% biotite, foliated at 54 - 70°, minor crenulation at 500.0 - 502.0	505.0	506.0	18125	trace
			506.0	508.0	18126	trace
			508.0	509.5	18127	trace
		497.0 - 500.0 biotite altered, foliation at 65 - 70°, silicified, 2 - 5% pyrrhotite - pyrite fine stringers, minor < 1 cm coarse pyrite, becomes chloritic at lower margin	509.5	511.5	18128	trace
			511.5	514.1	18129	trace
			514.1	516.0	18130	0.20
			516.0	518.8	18131	0.16
		500.5 - 502.0 crenulated, chloritic, < 2 cm pyrite quartz-carbonate veins at 80°, 10 - 20% pyrite	518.8	520.0	18132	0.22
			520.0	522.0	18133	trace
		502.0 - 510.0 silicified, light to dark grey, aphanitic, brecciated, 5 - 20% fine pyrrhotite - pyrite stringers random to CAI, 503.5 - 504.0 sericitic (10%), chlorite in fine stringers	522.0	523.7	18834	trace
			523.7	526.0	18835	0.01
		505.5 - 506.2 quartz-pyrite-carbonate, brecciated margins at 30 - 35°, decreasing sulfides to 510.0, becoming foliated at 65 - 70°	526.0	528.4	18836	0.02
		508.5 - 509.5 broken core				
		510.0 - 518.0 biotitic chlorite, foliated at 65 - 70°, dark green, fine grained, silicified banding < 5 cm, 10% biotite				
		518.0 - 522.0 silicified at 45 - 50°, brecciated with pyrrhotite stringers filling fractures				
		523.7 - 525.5 chlorite-silicified banding, 5% garnet, trace to 1% pyrrhotite				
525.5	666.0	Basalt - medium grained, minor foliated intervals at 60°, increasing fine carbonate stringers down interval	542.4	544.0	?	
			544.0	545.0	18837	trace
		543.0 - 544.0 silicified, contacts 65°, 2 - 5% fine random pyrite stringers, silicified, brecciated, minor epidote in fractures	588.0	589.5	18838	trace
		588.0 - 589.5 irregular quartz-chalcopyrite veins, crenulated at 40 - 60°	595.6	596.6	18839	trace
			596.6	598.5	18840	0.16
		596.5 - 597.5 silicified zone, 15 cm contacts 40°, 2 - 3% chalcopyrite, 2 - 5% pyrrhotite parallel to contact, margins crenulated	608.0	610.4	18841	trace
			610.4	612.0	18842	trace
		609.0 - 611.0 10% biotite, foliated at 45°, < 0.5 cm carbonate stringers parallel to foliation, 1 - 2% pyrite-pyrrhotite	616.0	618.0	18843	trace
			618.0	620.1	18844	trace

From	To	Description	From	To	Tag #	Gold
615.0	625.5	irregular biotite alteration < 10%, medium grained	620.1	623.0	18845	trace
			623.0	625.0	18846	trace
624.5	625.0	silicified bands at 55°, 2 - 5% pyrrhotite- pyrite	625.0	627.0	18847	trace
			639.1	641.0	18848	trace
641.0	642.0	silicified zone at 40°, trace to 2% pyrite	641.0	642.0	18849	0.06
			642.0	644.0	18850	trace
666.0		End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 885-57

Page : 1

Property Owner: Twin Gold Mines Ltd.

Grid location: 130+99.4E / 119+03.1N

Length: 606 ft.

Core Size: BQ

Acid Tests: 0' 45° 300' 40°
600' 34°

Started: September 11, 1988

Logged by: B.L. Matthews

Azimuth: 360 degrees

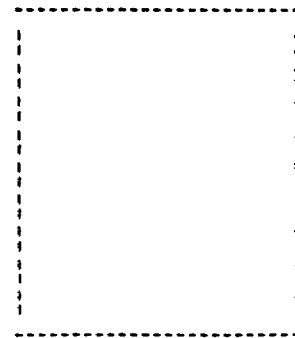
Tropari Tests:

Elevation: 9988.9

Drill Company: Morrisette

Completed: September 14, 1988

Date Logged: September 15, 1988



Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0.0	36.2	Overburden				
36.2	130.2	Basalt	84.0	86.0	18851	trace
		fine grained, dark green, massive, trace fine carbonate stringers, minor "andesitic" interbeds	107.6	110.0	18852	0.26/0.22
		44.0-49.7 light green grey, massive, sharp contacts at 35-40°	110.0	112.5	18853	trace
			112.5	115.0	18854	trace
			115.0	117.4	18855	trace
		63.1-65.0 same as 44.0-49.7	117.4	120.0	18856	0.08
		70.5-72.0 same as 44.0-49.7, contact sharp at 70°	120.0	122.3	18857	trace
		84.0-86.0 garnet-epidote-carbonate veining at 40-45°	122.3	124.0	18858	trace
		unit becomes foliated to lower contact, foliated at 40-45°, minor chloritic-carbonate-quartz veins parallel to foliation, increasing biotite alteration lower in interval	124.0	126.8	18859	trace
		107.0-108.5 silicified banding at 35-40°, epidote-biotite altered, 2-5% pyrite-pyrrhotite	126.8	129.0	18860	trace
		114.0-120.5 10-30% biotite-silicified banding(10-20%) at 40°, quartz-carbonate bands less than 2 cm parallel to foliation, 2-5% pyrite-pyrrhotite, fine stringers network in silicified sections	129.0	131.7	18861	trace
		intercalated biotite alteration to lower contact				
		129.5 3 cm quartz veining irregular, approx. 50° sharp lower contact at 50°				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
418.5	606.0	Basalt	447.5	449.4	18886	0.02
		medium, massive, dark green, minor weakly foliated	449.4	451.5	18887	trace
		intervals	463.6	466.0	18888	trace
		420.0-423.5 foliated at 65°, 5 to 10% biotite, 10%	502.0	504.0	18889	trace
		silicified bands, 2-5% pyrrhotite-pyrite	504.0	506.8	18890	trace
		441.4-448.5 biotite-silicified banding at 60°, 1-5%	506.8	509.0	18891	trace
		pyrite-pyrrhotite, trace to 1% chalcopyrite, trace	509.0	510.5	18892	0.14
		garnet, silicified bands less than 8 cm	510.5	511.7	18893	0.22/0.26
		450.8 10 cm quartz-epidote carbonate-pyrrhotite vein	511.7	514.0	18894	trace
		subparallel to CAX, less than 3 cm	552.0	553.0	18895	trace
		505.0- 511.7 silicified banding at 65-70°, fine	553.0	554.0	18896	0.14
		grained upper part of interval	554.0	555.0	18897	trace
		509.0-511.7 mottled to regular banding silicified	557.5	559.0	18898	trace
		(70% silicified), trace-5% pyrrhotite-pyrite-	579.2	581.5	18899	trace
		chalcopyrite, 5% biotite	581.5	582.5	18900	0.12
		553.0-554.0 silicified-biotitic banded at 60-65°, 1-	582.5	584.1	18901	trace
		2% pyrrhotite, pyrite	584.1	586.0	18902	0.01
		558.0 silicified band less than 10 cm, trace to 1%				
		pyrrhotite-pyrite at 75-80°				
		581.5-582.5 biotitic 10-20% biotite, silicified at				
		70-75°, 2-5% pyrite, 1-2% pyrrhotite				
		606.0 End of Hole (casing left in)				

(ft)

DIAMOND DRILL LOG - LINGHAM LAKE PROPERTY

Hole No: 88S-58

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 132+00.7E/119+01.9N
 Length: 546 ft.
 Core Size: BQ
 Acid Tests: 45° @ 0'; 42° @ 300';
 38° @ 546'
 Started: September 14, 1988
 Logged by: H.L. Matthews

Azimuth: 360 degrees
 Tropical Tests:
 Elevation: 9987.8
 Drill Company: Morrisette
 Completed: September 16, 1988
 Date Logged: September 16, 1988

Hole location in claim

From (ft)	To (ft)	Description	From	To	Tag #	Gold
0	41.0	Overburden				
41.0	184.7	Basalt - fine to medium grained, massive, minor weakly foliated intervals				
		56.0 - 57.0 broken core				
		57.0 - 60.0 foliated at 50°, 10% biotite, 2 - 5% pyrite parallel to foliation	57.0	60.0	18903	trace
		66.0 - 95.0 medium grained, biotite glomerophytic, increasing biotite 5 - 10%, minor silicification, trace	86.0	88.0	18904	trace
		pyrrhotite-pyrite-chalcopyrite at 89.0 - 90.0	88.0	89.0	18905	trace
		92.0 - 93.0 irregular quartz-carbonate veins at 50°, crenulated wallrock, trace pyrite	89.0	90.5	18906	trace
			90.5	92.0	18907	trace
			92.0	93.9	18908	trace
		104.0 - 105.0 biotite-chlorite foliated at 40°, silicified banding, 1 - 2% pyrrhotite-pyrite	103.5	106.0	18909	trace
		107.0 12 cm quartz-carbonate vein with irregular margins, 10% biotite in wallrock	106.0	108.2	18910	trace
		110.5 - 114.0 light green basalt, contacts at 45 - 50°	108.2	111.5	18911	trace
		113.5 - 114.5 > 20% biotite foliated at 40 - 45°, < 1 cm quartz vein parallel to foliation, trace to 1% pyrite	111.5	113.0	18912	trace
			113.0	114.5	18913	trace
			114.5	116.0	18914	trace
		115.0 1 cm quartz-pyrrhotite-pyrite vein at 45°				
		117.5 - 131.5 light green, aphyric basalt, unit becomes feldspar phytic near lower contact, quartz vein irregular at lower contact, barren	137.0	139.0	18915	trace
			139.0	141.9	18916	trace
			141.9	145.0	18917	trace
		137.0 - 149.5 foliated at 50°, medium grained, minor silicified banding at 138.0 (trace to 2% < 1 cm quartz-pyrrhotite-pyrite random stringers)	145.0	146.6	18918	0.02
			146.6	148.0	18919	0.06
			148.0	149.5	18920	trace
		139.4 - 141.9 aphanitic felsic, similar to silicified bands				
		144.5 - 148.0 crenulated biotitic (10 - 20%) with 2 - 10% < 1 cm quartz-carbonate-pyrrhotite-pyrite veins parallel to foliation				

From	To	Description	From	To	Tag #	Gold
		392.0 - 395.0 silicified banding, weakly brecciated, sheared at 65 - 70°, 2 - 5% pyrite	409.3	411.0	18938	trace
		411.0 - 412.0 weakly foliated at 75 - 80°, trace chalcopyrite, 1 - 2% pyrrhotite-pyrite, quartz-carbonate parallel to foliation	411.0	412.5	18939	trace
		sharp lower contact at 75 - 80°	412.5	414.1	18940	trace
			414.1	416.5	18941	trace
			416.5	418.8	18942	trace
			418.8	420.5	18943	trace
			420.5	422.0	18944	trace
413.0	546.0	Basalt - medium grained, massive, minor foliated intervals	422.0	423.7	18945	trace
		416.0 - 417.0 foliated, silicified, 10 - 20% biotite, silicified band < 10 cm, 2 - 5% pyrrhotite-pyrite, minor sericite (<10%)	423.7	426.0	18946	0.01
		420.5 - 422.0 brecciated silicified zone, margins biotitic, foliated at 75 - 80°, 5% fine pyrrhotite-pyrite stringers < 2 mm in width	426.0	432.0	18947	0.46
		423.6 - 426.0 mottled, lenticular, silicified, quartz veining, 10 - 20% biotite in wall rock	432.0	433.5	18948	trace
		426.0 - 433.0 broken core, brecciated silicified zone trace to 1% disseminated pyrrhotite-pyrite, > 20% sericite, biotite - chlorite foliated at 70° at lower contact	433.5	435.0	18949	0.01
		433.4 - 437.0 brecciated zone, 10% random quartz stringers, sericite - biotite altered, < 0.5 cm pyrrhotite-pyrite stringers random over interval, foliated lower contact at 70°, minor < 1 cm bands to 441.5	435.0	436.0	18950	0.12
		453.0 - 463.0 broken core	436.0	437.0	18951	trace
		456.0 feldspar phytic mafic (leopard rock)	437.0	438.0	18952	trace
		469.5 - 471.5 2 cm quartz-magnetite-pyrite-pyrrhotite-galena vein subparallel to CAX	438.0	439.6	18953	0.08
		521.5 10 cm quartz-pyrite silicified bands, less than 5% biotite oriented at 65°, veins < 1 cm in diameter	439.6	441.5	18954	trace
		534.5 - 537.0 minor < 15 cm biotite-silicified bands, > 20% biotite, 2 - 5% pyrrhotite-pyrite, foliated at 70°	468.0	469.5	18955	trace
			469.5	471.5	18956	trace
			471.5	473.0	18957	
			521.0	522.8	18958	trace
			532.4	534.5	18959	trace
			534.5	536.0	18960	trace
			536.0	537.0	18961	trace
			537.0	539.0	18962	trace
546.0		End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-58

Page : 1

Property Owner: Twin Gold Mines Ltd. _____
 Grid location: 132+00.7E/119+01.9N _____
 Length: 546 ft. _____
 Core Size: BQ _____
 Acid Tests: 45° @ 0'; 42° @ 300';
 38° @ 546' _____
 Started: September 14, 1988 _____
 Logged by: H.L. Matthews _____

Azimuth: 360 degrees _____
 Tropari Tests: _____
 Elevation: 9987.8 _____
 Drill Company: Morrisette _____
 Completed: September 16, 1988 _____
 Date Logged: September 16, 1988 _____



Hole location in claim

From (ft)	To (ft)	Description	From	To	Tag #	Gold
0	41.0	Overburden				
41.0	184.7	Basalt - fine to medium grained, massive, minor weakly foliated intervals				
		56.0 - 57.0 broken core				
		57.0 - 60.0 foliated at 50°, 10% biotite, 2 - 5% pyrite parallel to foliation	57.0	60.0	18903	trace
		66.0 - 95.0 medium grained, biotite glomerophytic, increasing biotite 5 - 10%, minor silicification, trace pyrrhotite-pyrite- chalcopyrite at 89.0 - 90.0	86.0	88.0	18904	trace
			88.0	89.0	18905	trace
			89.0	90.5	18906	trace
		92.0 - 93.0 irregular quartz-carbonate veins at 50°, crenulated wallrock, trace pyrite	90.5	92.0	18907	trace
			92.0	93.9	18908	trace
		104.0 - 105.0 biotite-chlorite foliated at 40°, silicified banding, 1 - 2% pyrrhotite-pyrite	103.5	106.0	18909	trace
		107.0 12 cm quartz-carbonate vein with irregular margins, 10% biotite in wallrock	106.0	108.2	18910	trace
			108.2	111.5	18911	trace
		110.5 - 114.0 light green basalt, contacts at 45 - 50°	111.5	113.0	18912	trace
		113.5 - 114.5 > 20% biotite foliated at 40 - 45°, < 1 cm quartz vein parallel to foliation, trace to 1% pyrite	113.0	114.5	18913	trace
			114.5	116.0	18914	trace
		115.0 1 cm quartz-pyrrhotite-pyrite vein at 45°				
		117.5 - 131.5 light green, aphyric basalt, unit becomes feldspar phytic near lower contact, quartz vein irregular at lower contact, barren	137.0	139.0	18915	trace
			139.0	141.9	18916	trace
			141.9	145.0	18917	trace
		137.0 - 149.5 foliated at 50°, medium grained, minor silicified banding at 138.0 (trace to 2% < 1 cm quartz-pyrrhotite-pyrite random stringers)	145.0	146.6	18918	0.02
			146.6	148.0	18919	0.06
			148.0	149.5	18920	trace
		139.4 - 141.9 aphanitic felsic, similar to silicified bands				
		144.5 - 148.0 crenulated biotitic (10 - 20%) with 2 - 10% < 1 cm quartz-carbonate-pyrrhotite-pyrite veins parallel to foliation				

From	To	Description	From	To	Tag #	Gold
		147.5 biotite silicified at 60°, 2 - 5% pyrrhotite-pyrite				
		152.0 quartz-diorite dyke, < 10 cm at 55 - 60°				
		155.0 - 157.0 andesitic feldspar porphyry, anhedral phenocrysts, sharp contacts 45 - 55°				
		159.0 - 184.7 intercalated medium basalt and diorite (< 30 cm) and foliated medium biotite glomerophytic mafic at 20 - 50° becoming broken core to lower contact, epidote phenocrysts altered at lower contact broken lower contact				
184.7	367.3	Quartz-Feldspar Porphyry - anhedral quartz phenocrysts, minor foliated and aphanitic intervals				
		184.7 - 189.0 broken core				
		209.5 - 212.0 mafic xenolith, contacts 40 - 60°				
		219.0 - 242.0 broken core, hematite altered, foliated at 45°				
		249.0 - 250.0 broken core, hematitic				
		260.3 - 262.3 mafic xenolith, 10% random carbonate stringers, contacts 40°				
		266.5 - 272.5 aphanitic, sericitic, < 10% sericite				
		267.0 - 268.0 broken core				
		307.0 - 311.0 10 - 20% sericite foliated at 50°, trace to 1% tourmaline parallel to foliation				
		340.0 - 344.0 10% sericite foliated at 45°				
		352.5 - 367.3 > 20% sericite, broken core, 20% lenticular quartz eyes parallel to foliation at 65 - 70°	366.0	367.3	18921	trace
		sharp lower contact at 55°	367.3	369.3	18922	trace
			369.3	372.0	18923	trace
			372.0	374.0	18924	0.10
			374.0	376.4	18925	0.16
			376.4	378.0	18926	trace
			378.0	379.5	18927	trace
			379.5	381.2	18928	trace
			381.2	383.0	18929	trace
			383.0	384.5	18930	trace
			384.5	388.0	18931	trace
			388.0	392.0	18932	trace
			392.0	393.5	18933	trace
			393.5	396.0	18934	trace
			396.0	398.5	18935	trace
			398.5	400.0	18936	0.02
			400.0	403.5	18937	trace
367.3	413.0	Basalt - fine grained, biotite altered intervals, foliated to massive				
		367.3 - 371.0 10 - 20% biotite, foliated at 40 - 65° lower in interval, minor silicification in < 3 cm wide bands, 10% < 1 cm carbonate stringers at upper contact				
		trace - 2% pyrite - pyrrhotite parallel to foliation, interval becomes crenulated, 2 - 10% sericite, trace to 1% arsenopyrite at 370.5				
		371.0 - 376.0 10 - 20% crenulated sericite with trace to 2% arsenopyrite, 2 - 5% pyrrhotite-pyrite and trace chalcopyrite, foliated at 65°, less biotitic than previous interval (367.3 - 371.0)				
		378.0 - 380.0 brecciated, silicified zone with 5 - 10% biotite, 5 - 10% sericite, 20% fine sulfide in random stringer network, 5 - 10% pyrrhotite, 2 - 5% pyrite				
		380.0 - 384.2 foliated at 65 - 70°, biotitic (10 - 20%) minor lenticular silicified bands < 1 cm parallel to foliation				
		384.2 - 392.0 barren, dark green, fine grained, pervasive chloritization				

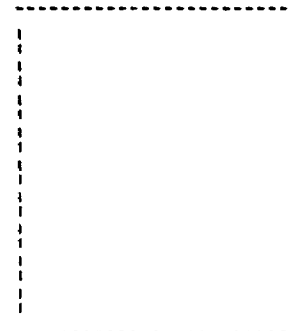
From	To	Description	From	To	Tag #	Gold
		392.0 - 395.0 silicified banding, weakly brecciated, sheared at 65 - 70°, 2 - 5% pyrite	409.3	411.0	18938	trace
			411.0	412.5	18939	trace
		411.0 - 412.0 weakly foliated at 75 - 80°, trace chalcopryrite, 1 - 2% pyrrhotite-pyrite, quartz-carbonate parallel to foliation	412.5	414.1	18940	trace
			414.1	416.5	18941	trace
			416.5	418.8	18942	trace
		sharp lower contact at 75 - 80°	418.8	420.5	18943	trace
			420.5	422.0	18944	trace
413.0	546.0	Basalt - medium grained, massive, minor foliated intervals	422.0	423.7	18945	trace
			423.7	426.0	18946	0.01
		416.0 - 417.0 foliated, silicified, 10 - 20% biotite, silicified band < 10 cm, 2 - 5% pyrrhotite-pyrite, minor sericite (<10%)	426.0	432.0	18947	0.46
			432.0	433.5	18948	trace
			433.5	435.0	18949	0.01
		420.5 - 422.0 brecciated silicified zone, margins biotitic, foliated at 75 - 80°, 5% fine pyrrhotite-pyrite stringers < 2 mm in width	435.0	436.0	18950	0.12
			436.0	437.0	18951	trace
			437.0	438.0	18952	trace
		423.6 - 426.0 mottled, lenticular, silicified, quartz veining, 10 - 20% biotite in wall rock	438.0	439.6	18953	0.08
			439.6	441.5	18954	trace
		426.0 - 433.0 broken core, brecciated silicified zone trace to 1% disseminated pyrrhotite-pyrite, > 20% sericite, biotite - chlorite foliated at 70° at lower contact				
		433.4 - 437.0 brecciated zone, 10% random quartz stringers, sericite - biotite altered, < 0.5 cm pyrrhotite-pyrite stringers random over interval, foliated lower contact at 70°, minor < 1 cm bands to 441.5	468.0	469.5	18955	trace
			469.5	471.5	18956	trace
			471.5	473.0	18957	
		453.0 - 463.0 broken core	521.0	522.8	18958	trace
		456.0 feldspar phytic mafic (leopard rock)				
		469.5 - 471.5 2 cm quartz-magnetite-pyrite-pyrrhotite-galena vein subparallel to CAX	532.4	534.5	18959	trace
			534.5	536.0	18960	trace
		521.5 10 cm quartz-pyrite silicified bands, less than 5% biotite oriented at 65°, veins < 1 cm in diameter	536.0	537.0	18961	trace
			537.0	539.0	18962	trace
		534.5 - 537.0 minor < 15 cm biotite-silicified bands, > 20% biotite, 2 - 5% pyrrhotite-pyrite, foliated at 70°				
546.0		End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-59
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 132+00 E/ 117+00 N
 Length: 856 ft.
 Core Size: BQ
 Acid Tests: 0' 60° 300' 49°
 600' 42° 856' 32°
 Started: September 17, 1988
 Logged by: H.L. Matthews

Azimuth: 360 degrees
 Tropari Tests:
 Elevation: Surface
 Drill Company: Morrisette
 Completed: September 20, 1988
 Date Logged: September 20, 1988



Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0.0	28.5	overburden				
28.5	200.5	Basalt medium grained, dark green, massive to minor narrow foliated intervals, minor fine grained variolitic intervals, overall trace -3% random less than 1 cm quartz-carbonate stringers 28.5-34.0 fine grained 34.0-77.0 medium grained non foliated 67.5-69.0 minor quartz-carbonate veins, trace to 1% pyrite at 40° 66.0-69.6 quartz-carbonate veins at 45-50°, 5-10% biotite alteration, lower part of interval becomes variolitic, weak foliation at 45° 107.2-115.5 "andesitic" medium to light grey green, weak foliation, sharp upper contact at 45-50°, broken lower contact 115.5-200.5 medium grained, massive, blocky core 163.5-186.0 dark grey green to black mafic, medium grained, 2-5% diss. pyrite-pyrrhotite, trace chalcopyrite, massive, upper contact at 90° gradational to foliated lower contact at approx. 40-45°	67.5 88.0 183.3	69.0 89.6 186.0	19001 19002 19003	trace trace trace
200.5	320.4	Basalt fine grained, foliated to massive, minor variolitic foliated intervals, trace to 2% less than 1 cm carbonate stringers parallel to foliation at 40° 200.5-206.0 variolitic 212.0-215.0 medium grained massive 217.2-227.0 foliated at 40°, minor biotite alteration, 2-5% biotite, quartz-carbonate veins less than 1 cm parallel to foliation.	217.2 218.5 220.5 236.3 238.0 246.0 248.0 250.8 252.0	218.5 220.5 222.0 238.0 240.0 248.0 250.8 252.0 254.0	19004 19005 19006 19007 19008 19009 19010 19011 19012	trace trace trace trace 0.01 trace trace trace trace

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		238.0-240.0 silicified banding-biotitic at 40°,	276.0	277.5	19013	trace
		silicified at 248.0 decreasing alteration lower in	277.5	279.5	19014	trace
		interval, trace to 1% pyrite-arsenopyrite (stubby)	279.5	281.0	19015	trace
		246.0-248.0 5-20% biotite, 5-30% quartz-carbonate	281.0	282.5	19016	trace
		veins at 40-45°	282.5	284.5	19017	trace
		250.8-254.0 5-20% biotite, quartz-carbonate veins,	308.5	311.0	19018	trace
		less than 1 cm at 40°	311.0	313.4	19019	trace
		276.0-283.5 foliated at 40-50°, 2-10% quartz-	313.4	315.0	19020	trace
		carbonate veins parallel to foliation	315.0	316.5	19021	trace
		281.0-282.0 7 cm quartz-pyrrhotite-pyrite vein	316.5	318.2	19022	trace
		irregular to CAX				
		311.0-316.5 weakly foliated, minor brecciated,				
		chloritic-biotitic, 2-10% random less than 3 mm				
		pyrrhotite-pyrite stringers, foliation at 50°				
320.4	353.7	Feldspar porphyry				
		dacite-andesite, medium grey to dark, less than 3 mm				
		white feldspar phenocrysts				
		sharp lower contact at 50° and weakly foliated				
353.7	523.0	Basalt	371.0	373.0	19023	trace
		fine grained, dark green, massive to weakly foliated,	373.0	374.5	19024	trace
		aphyric	374.5	376.0	19025	trace
		373.0-374.5 random quartz-carbonate stringers, trace	376.0	378.0	19026	trace
		to 2% pyrrhotite-pyrite stringers, overall unit	378.0	379.0	19027	trace
		uniform fine grained and trace to 1% random less than	379.0	380.1	19028	trace
		1 cm quartz-carbonate stringers	438.3	440.0	19029	trace
		440.5-442.0 biotite-silicified banding at 40-50°,	440.0	442.0	19030	0.01
		trace to 3% pyrrhotite-pyrite	442.0	443.1	19031	0.01
		488.0-487.0 intercalated quartz-feldspar porphyry at	488.8	488.0	19032	trace
		50°, uniform grain size, no chill margin within QFP,	488.0	489.0	19033	trace
		weak biotitic alteration in mafic wallrock	489.0	490.0	19034	trace
		488.0-491.0 foliated at 50°, intercalated quartz-	490.0	491.8	19035	trace
		feldspar porphyry parallel to foliation, biotite	510.6	511.5	19036	trace
		altered basalt, 10-20% biotite, trace to 2% pyrite-	511.5	514.0	19037	trace
		pyrrhotite 488.0-490.0	514.0	515.6	19038	trace
		511.0-523.0 foliated, silicified-carbonate-biotite at	515.6	518.0	19039	trace
		50-60°, 511.0-514.0 5-10% biotite-sericite, trace to	518.0	520.3	19040	trace
		5% carbonate veins parallel to foliation, trace to 2%	520.3	523.0	19041	trace
		pyrite-pyrrhotite, 2-5% pyrrhotite to lower contact	523.0	525.0	19042	trace

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
523.0	654.0	Quartz-feldspar porphyry	549.0	551.5	19043	trace
		medium grained, massive, minor aphanitic and foliated	551.5	554.0	19044	trace
		intervals	577.8	580.0	19045	trace
		549.0-557.0 foliated at 50°, greater than 20%	634.0	636.5	19046	trace
		sericite, trace fine pyrite	636.5	640.3	19047	0.01
		577.8-580.0 green mica (chlorite?) altered medium	640.3	643.0	19048	trace
		grained massive with irregular dark grey quartz-	643.0	645.5	19049	trace
		pyrite vein, less than 10 cm, trace-2% pyrite	645.5	647.5	19050	0.01
		586.0-596.0 broken core, minor foliated intervals	647.5	650.2	19051	0.02
		containing 10-20% sericite	650.2	652.5	19052	0.01
		596.0-612.0 medium grained to coarse mafic, massive	652.5	655.1	19053	0.02
		612.0-631.0 weakly to non foliated				
		631.0-654.0 well foliated, increasing sericite lower				
		in interval to greater than 20%, foliated at 65-70°				
		635.0-639.0 broken core, sericitic greater than 20%				
		sericite, trace to 2% fine pyrite				
		sharp lower contact at 55°				
654.0	713.0	Basalt	655.1	657.0	19054	0.01
		fine grained, dark green, minor narrow biotite-	657.0	659.7	19055	trace
		sericite silicified zones in foliated intervals at	659.7	663.0	19056	trace
		60°, trace to 10 % pyrrhotite-pyrite in biotitic-	663.0	664.2	19057	trace
		silicified intervals	664.2	666.5	19058	trace
		655.0-656.0 silicified, 2-5% pyrrhotite-pyrite, fine	666.5	668.5	19059	trace
		less than 0.5 cm irregular quartz-carbonate	668.5	671.0	19060	trace
		stringers, chlorite alteration	671.0	673.6	19061	0.01
		659.4-663.0 increasing abundance of fine carbonate	673.6	676.0	19062	0.02
		stringers, less than 3 mm, irregular, massive fine	676.0	678.2	19063	0.02
		grained chloritic wallrock, non foliated	678.2	680.5	19064	trace
		664.0-665.5 silicified banding, less than 10 cm at	680.5	683.0	19065	trace
		60°, 2-5% pyrite, trace-1% pyrrhotite	683.0	687.6	19066	trace
		667.0-671.0 silicified-biotitic banding, foliated	687.6	690.0	19067	trace
		interval, crenulated and partly brecciated, 2-10%	690.0	692.5	19068	trace
		pyrrhotite, 2-5% pyrite	692.5	694.5	19069	trace
		671.0-676.5 massive, fine grained basalt, 2% less	694.5	696.7	19070	trace
		than 3 mm fine carbonate random stringers, interval	703.5	706.2	19071	0.24
		massive, non foliated	706.2	708.5	19072	trace
		676.5-684.0 abundant carbonate-quartz stringers,	708.5	711.0	19073	trace
		carbonate-chlorite altered wallrock, veins parallel	711.0	713.5	19074	trace
		to foliation at 60-65°, barren	713.5	715.9	19075	trace
		688.0-690.0 silicified band, approx. 20 cm at 65-70°,				
		trace pyrite				
		692.5-696.0 10-20% biotite banding, foliated at 50°,				
		2-5% sericite, trace-2% pyrite, trace arsenopyrite				
		698.0 approx. 20 cm silicified band, trace-3%				
		pyrrhotite-pyrite as fine irregular stringers.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		704.5-712.0 biotite-silicified banding at 60°, 20% biotite silicified bands generally less than 20 cm, 2-5% pyrrhotite-pyrite, trace chalcopyrite				
713.0	830.0	Basalt	720.8	722.2	19076	trace
		medium grained, massive, minor weakly foliated	740.3	741.5	19077	trace
		intervals, gradational upper and lower contacts	741.5	743.0	19078	0.20
		720.8-722.2 less than 1 cm irregular quartz-	743.0	745.3	19079	trace
		pyrrhotite-pyrite chalcopyrite veins(50% pyrrhotite)	812.7	816.0	19080	trace
		trace-2% chalcopyrite	834.0	836.8	19081	trace
		741.5-743.0 silicified-chlorite banding at 80°, 5-10	836.8	838.5	19082	trace
		% biotite, trace to 2% pyrite	838.5	841.7	19083	trace
		812.5-818.0 2-5% diss. pyrite parallel to foliation,	841.7	843.5	19084	trace
		chloritic, weak foliation at 75-85°	843.5	844.5	19085	0.50
		836.8-854.0 minor foliated intervals ,less than 20%	844.5	846.5	19086	
		biotite, silicified bands at 65-70° at 836.8-838.0,	846.7	849.0	19087	
		843.5-844.5, 851.4-853.0 , 2-5% pyrite	848.0	851.4	19088	
			851.4	854.0	19089	
			854.0	856.0	19090	
830.0	856.0	Basalt(Leopard rock) feldspar-phyric mafic, phenocrysts epidote altered, glomerophyric, less than 2 cm, massive				
856.0		End of Hole(casing left in)				

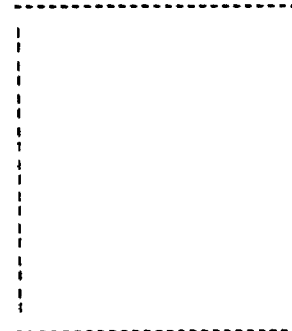
DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 885-60

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 133+00 E/ 116+00 N
 Length: 1066 ft.
 Core Size: BQ
 Acid Tests: 0' 65° 306' 62°
 596' 59° 900' 53° 1066 51°
 Started: September 20, 1988
 Logged by: H.L. Matthews

Azimuth: 360 degrees
 Tropari Tests:
 Elevation: Surface
 Drill Company: Morrisette
 Completed: September 23, 1988
 Date Logged: September 23, 1988



Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0.0	42.0	overburden				
42.0	147.0	Basalt fine grained, massive to weakly foliated at 25-30°, dark green intercalated with biotite glomerophyric, dark grey "andesitic" intrusives, biotitic alteration at intrusive contacts 42.0-46.0 foliated at 25°, biotite altered at 44.0- 46.0, 10-20% biotite, 1-2% pyrrhotite-pyrite 49.0-72.4 andesitic biotite glomerophyric, sharp contacts at 15-20° 96.0-97.5 aphyric, light green basalt minor foliated intervals intervals at 25-30°, aphyric, becoming medium grained sharp lower contact at 30°	42.0 44.0	44.0 46.0	19091 19092	tr tr
147.0	202.5	Basalt medium grained, minor fine grained foliated intervals, minor intercalated biotite glomerophyric andesitic intrusives 162.0-163.0 greater than 20% biotite, 1-2% pyrite- pyrrhotite, 2-5% chalcopyrite at intrusive contact, crenulated 163.0-178.2 medium grained, andesitic intrusive, biotite-chlorite glomerophyric (less than 3 mm), weak foliated at 30°, parallel to sharp lower contact, upper contact at 40° 184.0-184.5 5-10% biotite, 1 cm quartz veins at 35° parallel to weak foliation, trace pyrrhotite-pyrite 187.5-192.7 intermediate, massive andesite, lwer contact at 30° 199.0-202.5 medium grained, massive feldspar-phyric andesite, sharp contact at 30°	159.0 161.0 162.0 163.0 183.0	161.0 162.0 163.0 164.0 185.0	19093 19094 19095 19096 19097	tr tr tr tr tr

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
202.5	400.0	Basalt	210.5	212.3	19098	0.02
		fine grained	212.3	214.0	19099	0.04
		202.5-221.0 foliated, biotitic-chlorite foliated at	214.0	216.0	19100	tr
		45°, less than 1 cm carbonate-quartz veins parallel	223.5	226.5	19101	0.08
		to foliation, 1-2% diss. pyrrhotite-pyrite	226.5	228.0	19102	tr
		221.0-225.0 intermediate (andesite), medium grained,	228.0	229.5	19103	0.10
		massive, chlorite-biotite glomerophyric, silicified	229.5	231.2	19104	tr
		at lower contact	239.0	241.0	19105	tr
		225.0-230.0 foliated fine grained at 30-35°, 5-20%	296.0	298.6	19106	tr
		biotite over interval	298.6	300.5	19107	tr
		228.0-229.6 silicified-biotite foliated at 30°, 2-5%	300.5	302.0	19108	tr
		pyrrhotite-pyrite	302.0	303.6	19109	tr
		unit becomes intercalated fine to medium grained	316.0	317.0	19110	tr
		basalt with variolitic (pillowed intervals)	317.0	318.0	19111	tr
		239.0-241.0 less than 1 cm quartz-carbonate veins at	318.0	319.0	19112	tr
		40°, trace pyrrhotite, trace biotite	319.0	320.0	19113	tr
		263.0-337.5 variolitic, fine grained aphyric	381.0	382.5	19114	tr
		300.5-301.5 biotite, 20% with quartz-carbonate veins,	382.5	384.0	19115	tr
		irregular mottled veins, trace pyrrhotite	384.0	385.8	19116	tr
		317.0-318.5 grey glassy quartz vein at 35°, trace to	385.8	387.5	19117	tr
		1% pyrrhotite-pyrite, wallrock chloritic	387.5	390.3	19118	tr
		unit grades into massive nonfoliated, medium grained	390.3	393.0	19119	tr
		at 337.5, with minor weakly foliated fine grained	393.0	395.1	19120	tr
		intervals, trace to 2% less than 0.5 cm irregular	395.1	397.5	19121	tr
		carbonate stringers	397.5	400.1	19122	tr
		382.5-387.5 greater than 20% biotite, well foliated				
		at 25-30°, trace to 5% silicified bands, less than 2				
		cm, minor crenulated (kink banded) interval at 385.0-				
		386.0, 2-5% diss. pyrrhotite-pyrite parallel to				
		foliation				
		392.0-400.0 foliated at 40°, chlorite-silicified				
		banding less than 1 cm; trace to 5% biotite				
400.1	441.0	Basalt				
		massive, medium grained				

441.0 657.0

Basalt	441.0	444.0	19123	tr
medium to fine grained, massive, minor variolitic	536.0	538.5	19124	tr
intervals, overall trace to 2% less than 2 cm random	560.5	562.0	19125	tr
quartz-carbonate veins increasing in weakly foliated	593.0	594.5	19126	0.02
intervals	594.5	596.0	19127	tr
441.0-446.0 foliated fine grained at 25°, quartz-	596.0	597.6	19128	tr
carbonate, trace pyrrhotite-pyrite veins parallel to	597.6	599.0	19129	tr
foliation, 5-10% biotite, vein margins foliated, less	599.0	600.5	19130	tr
than 2 cm quartz-carbonate veins to 451.0, chloritic	600.5	602.4	19131	tr
wall rock, fine grained	602.4	604.0	19132	tr
unit becomes massive medium grained, gradational	604.0	606.0	19133	0.01
contacts from 494.5-517.8	606.0	607.3	19134	0.02
536.0-538.5 variolitic, fine grained, less than 2 cm	607.3	609.0	19135	0.02
quartz-carbonate-pyrrhotite-pyrite veins (1-2%) at	609.0	610.5	19136	0.01
40°	610.5	612.1	19137	tr
561.5 irregular less 3 cm quartz-carbonate-pyrrhotite	612.1	613.5	19138	tr
veins at 40°, sugary quartz	613.5	615.0	19139	tr
unit becomes more foliated at 584.0, fine grained	615.0	616.8	19140	tr
593.0-596.0 chlorite-quartz-less than 1 cm banding,	621.5	624.0	19141	tr
trace arsenopyrite, pyrrhotite-pyrite, increasing	624.0	625.0	19142	0.01
quartz veining lower part of interval	625.0	626.2	19143	tr
596.0-601.5 biotite altered interval, greater than	641.0	643.0	19144	tr
20% biotite, trace to 1% arsenopyrite-pyrrhotite-	648.5	650.8	19145	tr
pyrite in wallrock, 5 cm quartz vein at 598.7 at 40°	650.8	653.0	19146	tr
parallel to foliation, minor pinch and swell less	653.0	655.5	19147	tr
than 1 cm quartz veining parallel to foliation				
603.5-607.3 increasing carbonate fine stringers, less				
2mm random and parallel to foliation, 5% sericite, 1-				
2% pyrrhotite-pyrite				
605.5-606.6 greater than 20% biotite, crenulated, 2-				
5% pyrrhotite-pyrite				
606.0-607.3 20% fine carbonate stringers random to				
CAX, brecciated, tr-1% pyrrhotite				
613.2-620.6 dacite feldspar porphyry				
607.3-616.8 well foliated, chlorite-sericite-biotite				
foliated, sharp lower contact at 40°, 1-5%				
pyrrhotite-pyrite, fine parallel to foliation and				
fine random stringers, increasing sericite and				
pyrrhotite lower in interval, 10% sericite, 2-5%				
pyrrhotite, fissile				
623.0-624.0 silicified at 40°, biotitic lower margin				
624.0-625.0, 10-20% biotite, 2-5% pyrrhotite-pyrite				
625.5-626.0 10% fine carbonate stringers, less than 3				
mm				
642.0 10 cm silicified, pyrrhotite-chlorite banding at				
45°, 2-5% pyrrhotite				
648.5-655.0 foliated at 25-40°, less than 3 cm				
silicified bands, trace-2% pyrrhotite-pyrite biotite				
gradational lower contact				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
657.0	713.0.	Basalt medium grained, massive homogeneous, nonfoliated, dark green, trace carbonate-quartz stringers, less than 3 cm gradational lower contact				
713.0		Basalt/ Felsic Intrusives	723.5	725.0	19148	tr
		unit mostly fine grained mafic, weakly foliated	725.0	726.5	19149	0.01
		proximal to feldspar, quartz-porphyrty intercalated	726.5	729.0	19150	tr
		intrusives, minor medium grained intervals	729.0	730.5	19151	tr
		725.0-726.0 narrow, biotite-silicified, trace to 1%	737.0	738.5	19152	tr
		arsenopyrite-pyrrhotite, foliated at 35°, 10% biotite	762.5	764.0	19153	tr
		737.0-738.5 abundant quartz-k-spar veining over	764.0	766.0	19154	0.02
		interval, hematitic, barren	766.0	768.0	19155	tr
		764.5-765.0 greater than 20% biotite, quartz-	780.3	782.5	19156	tr
		pyrrhotite veins parallel to foliation at 45°	782.5	784.0	19157	tr
		768.0-841.8 foliated, fine grained with irregular	784.0	785.2	19158	tr
		narrow silicified zones (medium grey, aphanitic),	785.2	788.0	19159	tr
		biotite altered margins	788.0	790.0	19160	tr
		781.0-790.0 silicified-hematitic-aphanitic irregular	801.5	804.0	19161	0.01
		bands, trace to 2% biotite-pyrrhotite bands at 40° at	804.0	806.0	19162	0.01
		silicified zone margins	837.3	840.0	19163	tr
		788.0-790.0 white feldspar porphyry, less than 2 cm	840.0	842.2	19164	tr
		grey random glassy quartz veining, barren	852.0	854.0	19165	tr
		805.0-806.0 greater than 20% biotite, minor less than	854.0	856.6	19166	tr
		1 cm quartz-pyrrhotite veins parallel to foliation	856.6	858.5	19167	tr
		837.3-842.0 10-20% biotite, weak crenulated with	858.5	861.3	19168	tr
		quartz-carbonate veins less than 1 cm, parallel to	861.3	864.0	19169	tr
		foliation, trace pyrrhotite-pyrite, sharp lower	864.0	866.0	19170	tr
		contact at 25-30°	866.0	868.5	19171	tr
		842.0-849.8 quartz-feldspar porphyry, sharp lower	868.5	870.2	19172	tr
		contact at 20°, weak foliated at 20-25°, lower	870.2	873.5	19173	tr
		wallrock chloritic	873.5	875.7	19174	tr
		854.0-869.8 foliated with biotite-chlorite foliation,	875.7	877.5	19175	tr
		trace to 5% random quartz-carbonate and parallel to	877.5	879.0	19176	tr
		foliation	879.0	880.5	19177	tr
		856.0-858.5 5-10% pyrrhotite in carbonate stringer	880.5	883.0	19178	tr
		zone, becomes biotitic in lower part of interval,	883.0	885.5	19179	tr
		trace to 2% pyrrhotite, foliated at 20°, sharp lower				
		contact at 80-85°				
		869.8-877.1 aphanitic felsic becoming more remnant				
		feldspar-pyritic at lower contact, sharp lower contact				
		at 35-40°				
		877.1-883.0 foliated mafic, (xenolith), lenticular				
		less than 1 cm quartz eyes, foliated at 30°				
		879.0-880.0 5% pyrrhotite parallel to foliation, 10%				
		carbonate -sugary quartz veins parallel to foliation.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		882.0-904.0 light green, medium grained weakly foliated, carbonate altered	909.3	912.0	19180	tr
			912.0	914.8	19181	tr
		904.0-915.0 medium grey, aphanitic, silicified, massive to banded with biotite-chlorite	914.8	916.0	19182	tr
			916.0	920.0	19183	tr
		916.5-914.2 brecciated, silicified zone, 2-5% diss. fine pyrrhotite stringers random to C&X, less than 3	920.0	922.0	19184	tr
		mm, minor quartz-carbonate less than 1 cm	922.0	924.5	19185	tr
			924.5	926.5	19186	tr
		915.0-919.0 broken core, foliated intervals at 45- 50°, minor less than 1 cm quartz-carbonate parallel	926.5	929.0	19187	tr
		to foliation, lenticular (pinch and swell) quartz- carbonate	929.0	931.3	19188	tr
			931.3	933.5	19189	tr
			933.5	955.0	19189	tr
			955.0	956.5	19190	tr
		919.0-930.5 massive, fine grained, core becomes broken to lower contact and brecciated with 1-2% fine	956.5	958.0	19191	tr
		pyrrhotite-pyrite stringers and lenticular less than	958.0	961.0	19192	tr
		1 cm quartz-carbonate veins, weak foliation at 40-50°	961.0	963.6	19193	tr
			963.6	966.0	19194	tr
		930.5-934.2 silicified, medium grey, trace to 1% diss. pyrrhotite, weak foliated, chlorite altered wallrock margins, foliation 50°				
		934.2-1066.0. massive, medium grained minor weak foliated intervals				
		935.5-963.6 minor narrow, silicified zones, 2-5% diss. pyrrhotite, weak foliation at 50°, 5-10% sericite, trace arsenopyrite, sharp broken lower contact at 55°				
963.6	1066.0	Basalt medium grained, homogenous, nonfoliated, massive, dark green, gradational to weakly porphyritic lower in interval	991.8	994.0	19195	tr
			994.0	996.3	19196	tr
		991.2-996.0 foliated, less than 10% biotite, minor silicified bands parallel to foliation at 45°, 2-5% pyrite, 1-2% pyrrhotite				
1066.0		End of Hole (casing left in)				

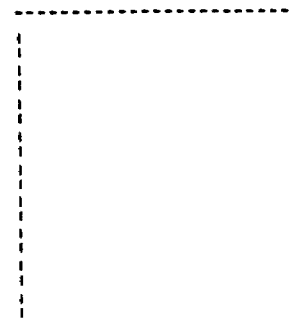
DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-61

Page : 1

Property Owner: Twin Gold Mines Ltd. _____
 Grid location: 132+99.7E / 121+09.2N _____
 Length: 256 ft. _____
 Core Size: BQ _____
 Acid Tests: ___ 0' 45° 256' 42° _____
 Started: September 16, 1988 _____
 Logged by: H.L. Matthews _____

Azimuth: 360 degrees _____
 Tropari Tests: _____
 Elevation: 9989.2 _____
 Drill Company: Morrisette _____
 Completed: September 17, 1988 _____
 Date Logged: September 17, 1988 _____



Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0.0	70.0	overburden				
70.0	133.7	Quartz feldspar porphyry medium grained, massive to foliated, trace to 2% pyrite over narrow intervals 74.0-77.0 weakly sericitic foliated at 60-65° containing 10% sericite, 2-5% pyrite, trace less than 2 cm irregular quartz veining 88.3-93.0 1-2% diss. pyrite, fine, weakly foliated 93.0-99.0 foliated at 60°, 10-20% sericite, lenticular less than 1 cm quartz eyes parallel to foliation, core vuggy (weathered sericite) 111.0-128.0 broken core, well laminated, fissile, sericite schist, greater than 20% sericite, foliation at 65-75°, barren to trace pyrite unit becomes pyritic at lower contact, 2-5% pyrite 129.5 glassy quartz vein, irregular 10 cm sharp lower contact at 75°	74.3 88.3	77.0 93.0	18963 18964	tr 0.01
133.7	256.0	Basalt medium grained with minor fine grained intervals, minor biotite foliated intervals at 70° 133.8-136.0 20% biotite, trace-1% arsenopyrite, euhedral (stubby) 136.0-146.3 dark green, massive to weakly foliated, trace less than 10 cm biotitic bands 146.3-151.5 sericite-biotite foliated, trace-1 % arsenopyrite, 2-5% pyrite, 10% sericite foliated at 55-60°, trace chalcopyrite, interval becomes crenulated lower, brecciated upper portion 147.0-148.5 crenulated 150.2 crenulated, 5-10% pyrrhotite-pyrite	128.0 131.0 132.6 134.0 136.0 137.4 139.0 142.3 144.0 146.7 148.0 148.0	131.0 132.6 134.0 136.0 137.4 139.0 142.3 144.0 146.7 148.0 150.0	18965 18966 18967 18968 18969 18970 18971 18972 18973 18974 18975	tr 0.32 0.42 0.10 tr tr tr tr tr tr 0.02

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
153.0-154.5		biotite foliated, 10-20% biotite, 2-5% pyrite stringers, less than 0.5 cm parallel to foliation	150.0	151.5	18976	tr
			151.5	153.0	18977	tr
			153.0	154.5	18978	tr
156.5		10 cm quartz-pyrite vein at 65°, coarse euhedral pyrite	154.5	156.0	18979	tr
			156.0	158.0	18980	tr
159.0-171.5		chloritic, fine grained dark green basalt, trace to 2% fine pyrite stringers at upper contact, interval becomes foliated at lower contact	158.0	161.0	18981	tr
			161.0	164.0	18982	tr
			164.0	168.0	18983	tr
172.0-175.2		biotite-silicified banding, 1-2% pyrite-pyrrhotite, foliated at 60°	168.0	170.3	18984	tr
			170.3	173.0	18985	tr
180.5-188.0		foliated, fine to medium grained, foliated at 60°, minor crenulated, broken core, weak silicified banding, 10% biotite-chlorite, 2-5% fine carbonate veins parallel to foliation, 1-2% fine pyrite	173.0	175.2	18986	0.01
			175.2	177.5	18987	tr
			177.5	180.0	18988	0.08
			180.0	182.5	18989	tr
			182.5	184.7	18990	tr
193.0-256.0		medium grained, 2% fine carbonate stringers, trace random quartz-carbonate-pyrite veins	184.7	188.0	18991	0.01
			224.5	226.0	18992	tr
224.5-226.0		foliated at 60°, less than 3 cm silicified bands, biotitic, parallel to foliation, 2-5% pyrite, 5-10% sericite	240.5	242.3	18993	tr
			242.3	244.0	18994	tr
			244.0	246.0	18995	tr
242.5-244.0		12 cm silicified band at 50°, trace to 1% pyrite	246.0	247.1	18996	tr
			247.1	250.0	18997	tr
246.0-247.1		quartz-pyrite-chlorite vein, 2-5% pyrite at 40° to irregular, 6 cm	250.0	252.0	18998	tr
			252.0	254.0	18999	tr
251.0-253.5		irregular quartz-pyrrhotite-pyrite vein containing 5-20% pyrrhotite-pyrite (coarse, vuggy, semi massive), foliated vein margin at 40°, trace to 10% biotite, crenulated wallrock.	254.0	256.0	19000	tr

256.0

End of Hole (casing left in)

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 885-62

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 134+00 E/ 116+00 N
 Length: 966.0ft.
 Core Size: BQ
 Acid Tests: 0' 60" 306' 56"
 616' 54" 900' 48"
 Started: September 23, 1988
 Logged by: H.L. Matthews

Azimuth: 360 degrees
 Tropari Tests:
 Elevation: Surface
 Drill Company: Morrisette
 Completed: September 27, 1988
 Date Logged: September 27, 1988

Hole location in claim

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
0.0	44.0	overburden				
44.0	766.5	Basalt	53.7	56.0	19197	tr
		fine grained, aphyric, dark green, pillowed upper part of interval becoming medium grained massive lower in interval	56.0	58.7	19198	tr
			58.7	61.5	19199	tr
			61.5	63.3	19200	tr
		44.0-65.0 foliated at 35-40°, minor irregular less than 6 cm quartz-carbonate veins, minor parallel to foliation	182.2	184.0	19201	tr
			251.0	252.5	19202	tr
			252.5	254.3	19203	tr
		58.7-61.0 2-5% pyrite, trace to 1% pyrrhotite, silicified-biotite banding foliated	254.3	256.0	19204	tr
			281.5	283.0	19205	tr
		145.0 unit becomes massive, medium grained, minor broken core, trace to 1% less than 3 mm carbonate stringers random to CAI., medium grained to 167.0	283.0	284.5	19206	0.02
			284.5	286.0	19207	tr
		at 167.0 gradational to fine grained, pillowed and minor weakly foliated	370.0	371.5	19208	tr
			371.5	372.5	19209	tr
			372.5	374.0	19210	tr
		165.0-183.0 black, foliated at 45°, biotitic, 1-2% pyrrhotite parallel to foliation, interval foliated to 191.5	407.5	409.0	19211	tr
			409.0	410.0	19212	tr
			410.0	411.5	19213	tr
		191.5-246.0 medium grained massive, minor narrow foliated intervals at 40-45°	534.0	535.0	19214	tr
			535.0	537.0	19215	tr
		252.5-254.0 silicified-biotitic banded at 45°, 1-2% pyrrhotite, less than 1 cm bands, 2% carbonate stringers parallel to foliation	537.0	538.5	19216	tr
			538.5	539.8	19217	tr
			539.8	542.0	19218	tr
		283.0-284.5 greater than 20% biotite foliated at 40°, less than 2 cm quartz-carbonate parallel to foliation, wallrock variolitic basalt	542.0	543.5	19219	tr
			543.5	544.9	19220	0.02
			544.9	546.5	19221	tr
		286.3-448.5 pillowed to massive, fine to medium grained, medium grained intervals are massive	546.5	548.5	19222	tr
			548.5	549.8	19223	tr
		371.5-372.5 biotite-carbonate banded, foliated at 45-50°, trace to 1% pyrite	556.0	558.0	19224	tr
		393.0-410.0 trace less than 1 cm silicified banding, barren				
		409.0-410.0 biotite-silicified foliated at 40-45°, trace pyrrhotite-pyrite.				

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		unit is weakly foliated to 448.5 at 45°	567.0	568.0	19225	tr
448.5-469.0		massive, medium grained, trace less than 1 cm, random carbonate stringers	568.0	568.9	19226	tr
		469.0-508.0 weak foliated mafic, foliated 40-45°, fine grained, 2-5% less than 1 cm quartz-carbonate stringers parallel to foliation	568.9	571.0	19227	tr
		534.5-548.5 crenulated, biotite-silicified-chlorite foliated interval at 30-40°, 2-10% fine pyrrhotite stringers parallel to foliation and random to CAX, minor broken core, 2-5% pyrite, trace chalcopyrite, pyrrhotite-carbonate stringers random less than 1 cm, 10% of interval, less than 10% biotite, less than 10% sericite	614.0	616.5	19228	tr
		548.5-553.0 random barren carbonate stringers	616.5	618.0	19229	tr
		548.5-766.5 massive to pillowed, medium to fine grained, minor pillowed intervals	618.0	620.0	19230	tr
		557.5- 12 cm quartz-pyrrhotite vein at 80°, medium grained massive wallrock, 1-2% pyrrhotite at vein margin	620.0	621.3	19231	tr
		568.0-589.0 greater than 20% biotite, quartz-carbonate veins less than 1 cm parallel to foliation, 2-5% pyrrhotite-silicified band 10 cm	645.3	647.0	19232	tr
		614.0-620.2 silicified-biotite-chlorite foliated at 40-45°, 1-2% pyrrhotite fine stringers parallel to foliation at margins of less than 3cm silicified bands, 10-20% chlorite, less than 10% biotite	647.0	648.0	19233	tr
		635.0-676.0 weak to well foliated at 45-50°, trace biotite-silicified bands	648.0	649.0	19234	tr
		647.0-649.0 10-20% biotite-silicified bands at 45-50°, 1-10% pyrrhotite, 1-2% arsenopyrite, trace pyrite, pillowed lower margin	649.0	650.0	19235	tr
		668.6-766.5 increasing abundance of intercalated silicified aphanitic zones (dykes), white to light grey, massive at 40-80°	667.3	668.6	19236	tr
		668.6-669.6 less than 12 cm silicified band, chlorite-pyrrhotite (2-5%) parallel to foliation at 40°	668.6	669.6	19237	tr
		675.0-676.0 silicified-quartz-pyrrhotite, 10 cm at 40°, 2-5% pyrrhotite, trace arsenopyrite	669.6	671.0	19238	tr
		690.0-766.5 foliated at 40°, intercalated medium grained felsic dykes, less than 20 cm	671.0	675.0	19239	tr
		693.0-695.0 quartz-pyrrhotite-carbonate stringers, less than 1 cm parallel to foliation, 2-5% pyrrhotite, chlorite alteration, increasing biotite to 696.0 (margin to silicified zone)	675.0	676.0	19240	tr
			676.0	677.6	19241	tr
			691.0	694.0	19242	tr
			694.0	695.0	19243	tr
			695.0	696.5	19244	tr
			696.5	698.0	19245	0.01
			776.0	777.5	19246	0.02
			777.5	780.0	19247	tr
			792.0	794.6	19248	tr
			809.2	810.5	19249	tr
			810.5	812.0	19250	tr
			812.0	814.1	19251	tr
			814.1	816.0	19252	0.01
			816.0	817.5	19253	tr
			817.5	819.1	19254	0.02
			819.1	821.0	19255	0.02
			821.0	822.5	19256	tr
			822.5	824.0	19257	0.02
			824.0	826.0	19258	0.01
			826.0	828.3	19259	0.02
			828.3	831.0	19260	tr
			831.0	833.1	19261	tr
			833.1	835.5	19262	tr
			835.5	837.8	19263	0.02
			837.8	840.5	19264	tr
			840.5	842.8	19265	tr
			842.8	846.0	19266	tr
			846.0	848.5	19267	tr
			848.5	850.0	19268	tr
			850.0	852.0	19269	tr

From (ft)	To (ft)	Description	From (ft)	To (ft)	Tag Number	Gold (oz/t)
		696.0-701.0 silicified zones, less than 20 cm, 1-2% pyrrhotite fine stringers, chlorite-biotite margins				
		714.0-715.0 andesitic feldspar porphyry, dark grey, sharp contacts 50-55°				
		719.0-722.1 quartz-feldspar porphyry, white to light grey, massive, medium to coarse grained, contacts 50-80°				
		727.0-736.0 abundant barren white to light grey, aphanitic irregular silicified lenses				
		unit becomes more foliated to lower contact at 50°, sharp lower contact at 55-60°				
766.5	809.5	Quartz-feldspar porphyry minor intercalated mafic (xenoliths, foliated) with medium to coarse grained QFP				
		776.0-780.0 mafic xenolith, foliated at 40-45°, minor less than 2 cm quartz-pyrrhotite veins (less than 2% pyrrhotite) parallel to foliation				
		792.5-793.5 foliated mafic, 10-20% sericite, less than 5% biotite, minor quartz-carbonate veins parallel to foliation at 45-50°, trace pyrrhotite				
809.5	868.9	Basalt	852.0	854.8	19270	tr
		fine grained, massive to foliated, minor silicified	854.8	857.0	19271	tr
		banded intervals	857.0	858.5	19272	0.08
		810.5-826.7 silicified and foliated at 40°, 2-10% pyrrhotite parallel to foliation, 10-20% sericite,	858.5	859.8	19273	0.10
		10% chlorite, silicified bands less than 1 cm, quartz vein at lower part of interval with 1-2% pyrrhotite-pyrite	859.8	862.0	19274	tr
			862.0	864.8	19275	tr
			864.8	866.0	19276	tr
			866.0	866.7	19277	tr
		826.5 fault breccia over narrow interval, less than 20 cm clayey matrix	868.7	871.0	19278	tr
			871.0	873.5	19279	0.02
		828.5-831.5 less than 3 cm irregular quartz-carbonate stringers, trace pyrrhotite	873.5	876.0	19280	tr
			876.0	878.0	19281	tr
		831.5-844.5 silicified-chlorite banding at 50°, trace pyrrhotite, increasing pyrrhotite (1-3%) to	878.0	880.5	19282	tr
			880.5	882.8	19283	tr
		844.5-845.3 broken core, random chlorite-carbonate stringers	882.0	885.0	19284	0.02
			885.0	886.0	19285	0.02
		846.5-852.0 abundant quartz-carbonate veins, less than 20 cm, chloritic margins, barren	886.0	887.5	19286	tr
			892.5	894.5	19287	tr
		857.3-859.6 weak brecciated, silicified zone, 1-2% disc. fine pyrrhotite-pyrite with fine chlorite stringers, less than 2 mm, weak foliated at 45-50°	894.5	896.0	19288	tr
			896.0	897.3	19289	tr
		866.5-867.5 broken core gradational lower contact.				

868.9 966.0 Basalt
medium grained, massive, minor narrow foliated
intervals
871.0-886.5 foliated with silicified bands, less than
2 cm parallel to foliation at 45°, 1-5% pyrrhotite in
fine network stringers in silicified zone at 878.0-
880.5 and 884.5-886.0, pyrrhotite associated with
irregualr less than 5 cm chlorite-sericite stringers
893.5-896.0 foliated at 45-50°, less than 10% biotite
less than 2 cm quartz-pyrite-pyrrhotite veins
parallel to foliation, 2-5% fine pyrrhotite-pyrite,
silicified banding less than 1 cm
minor narrow silicified zones remainder of interval

966.0 End of Hole (casing left in)

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-63

Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 135+03.1E / 116+88.5N
 Length: 826 ft.
 Core Size: BQ
 Acid Tests: 60° @ 0'; 55° @ 300'
 51° @ 596'; 46° @ 826'
 Started: September 27, 1988
 Logged by: W. Rowell

Azimuth: 360 degrees
 Tropari Tests:
 Elevation: 9977.0
 Drill Company: Morrisette
 Completed: October 1, 1988
 Date Logged: October 2, 1988

Hole location in claim

From (ft)	To (ft)	Description	From	To	Tag	Gold
0	42.0	Casing				
42.0	680.7	Basalt - Greenish-grey; fine to medium grained; moderately fractured; 1% quartz-calcite along fractures, predominantly chloritized, locally silicified, 1% biotite; <1% pyrite + pyrrhotite, trace arsenopyrite, trace chalcopyrite				
	42.0 - 63.0	medium grained	63.0	66.0	19290	tr
	91.2 - 93.0	5% calcite, 1% pyrite along fractures, 0.5% arsenopyrite in fine needles	88.4	91.0	19291	tr
	93.0 - 94.5	pervasive calcite, highly chloritized, 3.0% pyrite + pyrrhotite, 0.5% arsenopyrite in blebs	91.0	92.9	19292	tr
	94.5 - 96.0	114.0 foliation at approximately 52°	92.9	94.5	19293	tr
	116.9 - 117.6	unmineralized quartz-calcite vein, lower contact 85°	94.5	96.0	19294	tr
	127.2 - 130.7	rubbly core				
	132.1 - 132.3	gouge				
	168.5 - 170.7	medium grained				
	188.1 - 194.0	medium grained				
	206.0 - 208.3	medium grained				
	230.9 - 234.4	slightly silicified and carbonitized with 1% pyrite + pyrrhotite	229.5	231.2	19295	tr
	234.4 - 235.2	slightly silicified and chloritized with 5% biotite, 5% pyrite, 1% pyrrhotite	231.2	234.4	19296	tr
	236.2 - 237.3	slightly silicified with 2% disseminated pyrite + pyrrhotite	234.4	236.4	19297	tr
	237.3 - 246.9	medium grained	236.4	237.4	19298	tr
	275.2 - 276.0	amygdular	237.4	239.7	19299	tr
	286.1 - 287.0	50% quartz vein, 5% biotite, 1% pyrite + pyrrhotite	286.0	287.7	19300	tr
	293.8 - 295.3	80% quartz-calcite with 3% pyrrhotite, 1% pyrite and 1% biotite, irregular contact	292.1	293.8	19301	tr
	331.1 - 372.0	medium grained	293.8	295.2	19302	tr
	333.1 - 336.8	amphiboles up to 1 cm in diameter	295.2	297.4	19303	tr

From	To	Description	From	To	Tag	Gold
		374.2 - 376.6 slightly silicified with 10% quartz-carbonate veins at 40°	373.1	374.2	19304	tr
			374.2	376.0	19305	tr
		375.0 - 375.6 3% pyrite, 1% pyrrhotite, 1% arsenopyrite	376.0	377.5	19306	tr
		426.8 - 431.8 highly silicified with 5% pyrrhotite, 1% pyrite, 1% arsenopyrite	426.8	429.7	19307	tr
			429.7	432.1	19308	0.01
		431.8 - 437.3 slightly less silicified with 3% pyrite + pyrrhotite	432.1	435.0	19309	tr
			435.0	437.3	19310	tr
		437.3 - 439.3 5% pyrrhotite, 1% pyrite, trace arsenopyrite	437.3	439.1	19311	tr
		441.2 - 442.7 5% poorly formed porphyritic feldspars < 4 mm in length	439.1	441.2	19312	tr
			446.6	449.2	19313	tr
		463.6 - 465.8 slightly siliceous with 3% pyrite + pyrrhotite	463.6	465.8	19314	tr
		505.0 - 516.5 highly fractured with a few brecciated zones				
		508.9 - 509.1 band of garnet-epidote	508.5	509.6	19315	tr
		527.3 1 cm wide quartz-feldspar porphyry vein at 28°	594.5	598.1	19316	0.42
		560.8 - 561.2 25% schistose biotite oriented at 44°				
		567.0 to end of unit basalt is intercalated with poorly developed quartz-feldspar porphyry zones				
		594.5 - 598.2 silicified with 2% pyrite + pyrrhotite				
		602.1 - 602.5 7% pyrrhotite, 1% chalcopyrite	602.0	603.2	19317	tr
		615.6 - 616.7 silicified with 2% pyrrhotite, 1% arsenopyrite	613.8	615.5	19318	tr
			615.5	616.7	19319	0.01
		669.6 - 671.7 15% porphyritic feldspars < 2 mm in diameter lower contact 44°	616.7	617.7	19320	tr
			617.7	619.8	19321	tr
680.7	684.8	Quartz-Sericite Schist Intercalated with Quartz-Feldspar Porphyry - Light grey to brownish grey; fine to medium grained; moderately fractured; schistosity 60°; non-mineralized				
684.8	690.4	Basalt - same as 42.0 - 680.7				
690.4	724.4	Quartz-Sericite Schist Intercalated with Quartz-Feldspar Porphyry - 80% quartz-sericite schist, 20% quartz-feldspar porphyry				
724.4	755.6	Silicified Basalt - Light grey; fine grained; primarily silicified, locally chloritized; 1% pyrite	725.0	726.3	19322	tr
			726.3	727.8	19323	0.24
		726.6 - 728.1 3% pyrite along fractures	727.8	731.5	19324	tr
		731.5 - 735.2 very broken up	735.4	738.4	19325	0.22
		743.0 - 744.1 quartz-feldspar porphyry	738.4	741.3	19326	tr
		746.0 - 749.8 3% pyrite along fractures	741.3	742.7	19327	tr
			746.0	749.8	19328	tr
755.6	826.0	Basalt - Dark greenish-grey; fine to medium grained; moderately fractured; primarily chloritized, 3% quartz-calcite along fractures; slightly magnetic	749.8	752.2	19329	tr
			752.2	755.1	19330	tr
			755.1	758.1	19331	0.16
		796.5 to end of hole medium grained				
		826.0 End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-64

Page : 1

Property Owner: Twin Gold Mines Ltd.

Grid location: 137+00.6E / 119+49.6N

Length: 455.0 ft

Core Size: BQ

Acid Tests: 45° @ 0'; 41° @ 305'

36° @ 450'

Started: October 1, 1988

Logged by: W. Rowell

Azimuth: 360 degrees

Tropari Tests:

Elevation: 9974.8

Drill Company: Morrisette

Completed: October 3, 1988

Date Logged: October 3, 1988

Hole location in claim

From (ft)	To (ft)	Description	From	To	Tag	Gold
0	52.0	Casing				
52.0	187.6	Basalt Intercalated with Felsic Dikes - 80% basalt, 20% felsic dikes Basalt - Dark greenish-grey; fine grained; moderately fractured; <1% quartz-calcite along fractures, slightly chloritized, 3% biotite locally concentrated; <1% pyrite + pyrrhotite; nonmagnetic Felsic Dikes - Light grey; primarily fine grained; <0.1' to 6.0' in width; a few porphyritic feldspars locally developed; localized pink potassic alteration; contacts 45° to 50°				
		79.9 - 80.7 sheared and slightly silicified with 3% pyrite and 5% biotite				
		118.4 - 119.3 strong hematite staining of felsic dike	79.6	80.9	19332	tr
		131.6 - 131.9 70% cherty quartz with 10% pyrite				
		139.2 - 141.2 gouge and missing core	131.4	132.4	19333	0.01
		153.2 - 153.6 biotite schist oriented at 52°				
		156.1 - 159.3 biotite schist with siliceous areas	156.1	157.5	19334	tr
		157.8 - 157.9 5% pyrite	157.5	159.1	19335	0.12
		157.9 - 159.2 2% pyrite, 1% fine grained arsenopyrite along cleavage planes				
		179.7 - 180.2 biotite schist, schistosity 51°				
187.6	217.4	Quartz-Sericite Schist - Brownish-grey; fine to medium grained; schistosity 45°; <1% pyrite, <0.5% arsenopyrite	190.2	192.2	19336	0.06
			192.2	193.7	19337	0.01
			193.7	197.0	19338	tr
		188.6 - 189.8 quartz-feldspar porphyry	197.0	198.8	19339	0.02
		192.2 - 193.9 0.5% arsenopyrite in fine blebs	198.8	201.8	19340	tr
		197.0 - 198.5 0.5% very fine grained arsenopyrite	201.8	204.7	19341	tr
			204.7	207.7	19342	tr
			207.7	210.7	19343	tr
			210.7	214.1	19344	tr

From	To	Description	From	To	Tag	Gold
217.4	261.4	Basalt - Greenish-grey; fine grained; highly fractured from 217.4 - 234.5 with 5% calcite along fractures oriented randomly and at 51°, 3% sericite; 1% biotite 1% pyrite, trace arsenopyrite	220.9	224.0	19345	tr
			224.0	227.0	19346	0.01
			227.0	230.1	19347	tr
		234.2 - 236.4 slightly silicified with 10% biotite and 1% pyrite	234.2	236.3	19348	0.06
261.4	272.9	Feldspar Porphyry - Grey; porphyritic with 20% feldspars up to 5 mm in length in fine grained matrix; moderately fractured; feldspars slightly sericitized; <0.5% sulfide; upper contact 51° 272.6 - 272.9 rubbly with gouge				
272.9	287.4	Quartz-Sericite Schist - Brownish-grey; fine to medium grained; quite broken up; schistosity 43° 272.9 - 276.3 quartz flooded quartz-feldspar porphyry with pink potassic alteration 277.8 gouge 277.8 - 282.7 very broken up	278.1	282.6	19349	0.04
			282.6	285.0	19350	0.08
			285.0	287.4	19351	0.06
			287.4	289.0	19352	tr
			289.0	293.4	19353	0.01
			293.4	297.5	19354	0.01
			297.5	299.9	19355	0.08
287.4	353.7	Altered Basalt - Greenish-grey; fine grained; 60% silicified, 40% chloritized, 5% sericite concentrated locally, 5% biotite concentrated locally; moderately fractured with <1% quartz-calcite along fractures and tension gashes; foliation 46°; 1% pyrite, 1% pyrrhotite, trace arsenopyrite 288.1 - 289.1 7% pyrite + pyrrhotite along fractures 297.5 - 308.3 more silicified with 3% pyrrhotite, 2% pyrite 315.7 - 331.2 more chloritized than silicified, very little sulfide 323.4 - 323.6 gouge 336.7 - 339.4 5% pyrite in medium grained blebs, 0.5% very fine grained arsenopyrite 346.9 - 348.8 silicified with 1% pyrrhotite, 2% pyrite, 0.5% very fine grained arsenopyrite 348.8 - 353.7 2% pyrite, 2% pyrrhotite, <0.5% arsenopyrite	302.2	305.0	19356	0.14
			305.0	308.3	19357	0.14
			308.3	311.4	19358	0.20
			311.4	314.3	19359	tr
			314.3	315.7	19360	tr
			315.7	317.9	19361	0.06
			317.9	317.9	19362	0.02
			328.9	331.4	19363	0.08
			331.4	333.4	19364	0.10
			333.4	336.7	19365	0.08
			336.7	339.4	19366	0.14
			339.4	342.5	19367	tr
			342.5	345.8	19368	0.01
345.8	348.7	19369	0.20			
348.7	350.7	19370	0.08			
350.7	353.7	19371	0.30			
353.7	356.0	19372	0.01			
353.7	424.5	Medium Grained Basalt - Dark greenish-grey; medium grained; 60% amphibole, 35% saussuritized plagioclase; locally silicified and chloritized; 3% biotite locally concentrated; 1% pyrite + pyrrhotite, trace arsenopyrite concentrated in silicified areas				

From	To	Description	From	To	Tag	Gold
		372.6 - 374.7 silicified and slightly chloritized with 5% biotite, 5% pyrite, 0.5% arsenopyrite	370.7 372.5	372.5 374.8	19373 19374	tr 0.02
		377.7 - 379.9 silicified with 3% pyrite, 2% biotite lower contact 53°	374.8 377.5 379.8	377.5 379.8 381.3	19375 19376 19377	tr 0.18 tr
424.5	455.0	Feldspar Porphyry - 15% porphyritic feldspars up to 5 mm in length in fine grained matrix; massive; feldspars partially sericitized; <0.5% pyrrhotite + pyrite				
		455.0 End of Hole (Casing Left In)				

From	To	Description	From	To	Tag	Gold
268.1	274.6	Quartz Flooded Quartz-Feldspar Porphyry - Light grey; fine to medium grained; feldspars and quartz almost fine grained; slight pinkish potassic alteration; no sulfide evident; lower contact 63°				
274.6	325.4	Basalt Intercalated with Quartz-Feldspar Dikes - 65% basalt, 35% quartz flooded quartz-feldspar porphyry dikes up to 1.2' wide				
		285.0 - 287.6 biotite rich	291.1	292.2	19390	0.06
		297.9 - 298.9 biotite schist, schistosity 55°				
		320.1 - 322.7 quartz flooded biotite rich zone with 1% pyrite and 1% pyrrhotite	320.1	323.0	19391	0.10
325.4	360.8	Quartz-Sericite Schist Intercalated with Quartz-Feldspar Porphyry - 85% quartz-sericite schist, 15% quartz-feldspar porphyry	326.8	330.6	19392	tr
		Quartz-Sericite Schist- greyish-brown, fine to medium grained, 50% elongated quartz, 45% sericite, schistosity 49°, <1% pyrite	330.6	332.8	19393	tr
			332.8	335.0	19394	tr
			335.0	338.3	19395	0.02
			338.3	341.4	19396	0.10
		351.6 - 353.1 dark biotite rich zone with 15% porphyritic feldspars <2 mm in length in fine groundmass				
360.8	422.5	Basalt - Dark greenish-grey; fine grained; moderately fractured with 2% quartz-calcite along fractures and locally pervasively concentrated; <1% pyrite + pyrrhotite				
		360.8 - 370.3 silicified with 3% carbonate along fractures, transitional area between felsic dikes and basalt				
		401.9 - 402.3 brecciated zone with bleached matrix				
		406.8 - 408.9 sheared and brecciated zone				
		416.5 - 422.5 very broken				
		421.3 - 422.1 gouge				
422.5	433.9	Quartz-Sericite Schist Intercalated with Quartz-Feldspar Porphyry - 65% quartz-sericite schist, 35% quartz-feldspar porphyry; schistosity 54°	430.1	432.5	19397	tr
			432.5	434.0	19398	tr
			434.0	436.8	19399	0.12
			436.8	439.7	19400	0.08
		430.4 - 432.7 1% pyrite in quartz-sericite schist	439.7	442.4	19401	tr
		432.7 - 433.9 pyrite in silicified quartz-sericite schist				
		lower contact grades into basalt	452.3	455.0	19402	0.01
			455.0	458.0	19403	0.01
433.9	474.4	Basalt - Similar to 360.8 - 422.5	458.0	460.4	19404	tr
			460.4	463.0	19405	tr
		433.9 - 439.3 silicified with 2% pyrrhotite	463.0	464.7	19406	0.14
		452.0 - 464.0 slightly silicified with 5% biotite, 2% pyrrhotite and 3% pyrite	464.7	466.0	19407	0.14
			466.0	468.0	19408	tr
		464.0 - 464.4 silicified with 10% fine grained arsenopyrite along shears oriented at 53°	468.0	470.4	19409	0.08
			470.4	472.6	19410	0.01

From	To	Description	From	To	Tag #	Gold
		464.4 - 465.3 slightly silicified with 5 - 10% biotite and 3% pyrite + pyrrhotite	472.6	473.7	19411	0.18
		472.6 - 473.7 highly silicified with 10% quartz in bands up to 1 cm in width oriented at 56°, 20% biotite, 5% pyrrhotite, 2% pyrite and 5% arsenopyrite				
		474.4 lower contact 41°				
474.4	575.0	Medium Grained Basalt - Dark greenish-grey; medium grained, 50% amphibole, 45% saussuritized plagioclase, moderately fractured with 1% quartz- calcite, locally silicified; 1% pyrite + pyrrhotite locally concentrated	473.7	476.1	19412	0.02
			476.1	477.4	19413	0.12
			477.4	479.4	19414	tr
		476.1 - 476.8 slightly silicified				
		498.9 - 500.2 slightly silicified with 3% pyrite and 1% pyrrhotite, both in blebs	498.9	500.3	19415	tr
		513.2 - 514.1 slightly silicified with 10% biotite and 3% pyrrhotite, foliation 58°	512.5	514.4	19416	tr
		518.7 - 519.3 quartz vein with 15% pyrite cubes in vugs	514.4	516.6	19417	tr
			516.6	518.3	19418	tr
			518.3	519.5	19419	tr
			519.5	520.9	19420	0.01
575		End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGMAN LAKE PROPERTY

Hole No: 88S-66
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 137+00.5E / 118+54.2N
 Length: 846 ft.
 Core Size: BQ
 Acid Tests: 60° @ 0'; 55° @ 306';
 47° @ 606'; 46° @ 846'
 Started: October 6, 1988
 Logged by: W. Rowell

Azimuth: 360 degrees
 Tropari Tests:
 Elevation: 9972.3
 Drill Company: Morrisette
 Completed: October 9, 1988
 Date Logged: October 9, 1988

Hole location in claim

From (ft)	To (ft)	Description	From	To	Tag #	Gold
0	66.0	Overburden				
66.0	437.2	Basalt - Dark greenish-grey; fine grained; 3% calcite concentrated along shears and fractures, 2% locally concentrated biotite; <1% pyrite + pyrrhotite, trace arsenopyrite, trace chalcopyrite				
	68.8 - 69.2	10% quartz-calcite along shears oriented at 44°, 2% pyrite+ pyrrhotite, 1% arsenopyrite	67.3	68.4	19421	tr
	110.3 - 111.4	slightly silicified with 3% pyrite along fractures	68.4	69.5	19422	0.02
	127.4 - 131.6	slightly bleached, strong foliation at 36°, 2% pyrite, <0.5% arsenopyrite	69.5	70.6	19423	tr
	146.5 - 160.2	more highly fractured and drag folded with 3% calcite, 2% pyrite + pyrrhotite	110.1	111.4	19424	tr
	176.9 - 179.9	slightly silicified with 2% pyrite and 1% pyrrhotite along fractures and tension gashes	127.2	129.9	19425	tr
	182.7 - 183.9	feldspar porphyry dike with 20% poorly developed feldspars up to 2mm in length in fine dark matrix	129.9	132.8	19426	tr
	185.7 - 100.2	highly foliated at 30° with 5% biotite, 1% pyrite and 1% pyrrhotite	132.8	134.7	19427	tr
	208.4 - 212.0	slightly silicified with 2% pyrrhotite + pyrite	134.7	137.4	19428	tr
	219.3 - 220.0	quartz vein with 1% pyrite + 1% pyrrhotite	144.0	146.0	19429	tr
	220.6 - 220.8	quartz vein with 7% pyrite	146.0	148.6	19430	0.08
	241.1 - 242.4	quartz-feldspar porphyry dike, contact 49°	148.6	151.7	19431	tr
	263.2 - 265.8	sheared with 5% calcite, 1% pyrite + pyrrhotite, foliation 40°	151.7	154.4	19432	tr
	307.1 - 308.1	3% pyrrhotite along fractures; trace arsenopyrite	154.4	157.9	19433	0.01
	311.0 - 311.9	slightly silicified with 2% pyrite, 1% pyrrhotite	157.9	160.3	19434	tr
	318.3 - 319.7	felsic dike	160.3	163.5	19435	tr
			163.5	165.9	19436	tr
			165.9	168.3	19437	tr
			168.3	170.7	19438	tr
			177.4	180.0	19439	tr
			184.7	186.9	19440	tr
			186.9	189.1	19441	tr
			189.1	190.9	19442	tr
			208.3	210.1	19443	tr
			210.1	212.0	19444	tr
			217.0	219.2	19445	tr
			219.2	221.2	19446	0.10
			221.2	222.7	19447	tr

From	To	Description	From	To	Tag #	Gold
		319.7 to end of unit 5% felsic dikes	263.2	266.0	19448	tr
		320.5 - 321.4 3% pyrrhotite, <1% chalcopryrite in felsic dike	307.0 308.3	308.3 310.6	19449 19450	tr tr
		346.0 - 346.1 10% garnet in bleached area	310.6	312.3	19451	tr
		354.5 - 355.4 silicified with 3% pyrrhotite, trace chalcopryrite, foliation 44°	312.3 320.3	314.3 321.5	19452 19453	tr tr
		375.3 - 376.1 biotite schist, foliation 38°	344.2	345.2	19454	tr
		380.3 - 381.9 highly foliated at 37° and slightly bleached with 2% pyrrhotite	354.1 379.2	355.6 381.1	19455 19456	tr tr
		430.1 - 432.1 20% biotite, 5% calcite, 30% quartz-feldspar porphyry, 3% pyrrhotite	430.1 493.0 533.0	432.2 494.5 536.2	19457 19458 19459	tr 0.06 tr
437.2	479.4	Quartz-Sericite Schist Intercalated with Quartz-Feldspar Porphyry				
		60% Quartz-Sericite Schist - Brownish-grey; fine to medium grained; 60% quartz, 30% sericite; schistosity 45°; trace sulfide				
		30% Quartz-Feldspar Porphyry - Mottled grey and white; medium grained; moderately fractured with chlorite along thin fractures, slightly sericitized feldspars and localized pink potassic alteration; trace sulfide	542.8 546.0	546.0 548.8	19460 19461	tr tr
		477.3 - 474.2 slight hematitic staining of quartz-sericite schist				
479.4	598.3	Basalt - Greenish-grey; fine grained; moderately fractured with < 1% calcite, 3% sericite mainly near beginning of unit				
		493.7 - 494.2 slightly silicified with 2% pyrrhotite				
		509.3 - 509.6 slightly brecciated with bleached matrix				
		533.1 - 536.1 brecciated with bleached matrix, 5% pyrrhotite around clasts up to 1 cm in diameter	575.8 577.8	577.8 579.8	19462 19463	tr tr
		537.0 - 538.2 gouge	579.8	581.5	19464	0.12
		539.7 - 541.5 broken core	581.5	584.1	19465	0.10
		542.3 - 548.4 highly fractured with calcite and pyrite along fine fractures	584.1 587.1	587.1 588.8	19466 19467	0.12 tr
		548.0 - 549.9 very broken up and probable gouge	588.8	590.6	19468	0.10
		562.5 - 579.7 highly foliated at 60° with slightly silicified zones	590.6	591.8	19469	tr
		579.7 - 580.5 silicified with 3% pyrite, 1% pyrrhotite and 0.5% arsenopyrite	594.6 595.8	595.8 596.7	19470 19471	tr 0.16
		580.5 - 581.1 1% arsenopyrite	596.7	597.3	19472	0.06
		587.2 - 588.8 less silicified with 1% sulfide and no arsenopyrite	597.3	599.2	19473	tr
		588.8 - 590.7 silicified with 2% pyrite, 1% pyrrhotite <0.5% arsenopyrite				
		590.7 - 595.7 fine grained basalt, sharp contact at 65°				
		595.7 - 599.3 silicified with 2% pyrite				

From	To	Description	From	To	Tag #	Gold
598.3	724.1	Medium Grained Basalt - Dark greenish-grey; medium grain- ed; 60% amphibole; 35% saussuritized plagioclase; locally silicified; <1% biotite locally concentrated; 1% pyrite + pyrrhotite	606.0 607.2 608.2	607.2 608.2 609.4	19474 19475 19476	0.01 tr 0.01
		607.4 - 607.9 slightly silicified with 3% pyrite	631.7	632.8	19477	tr
		631.7 - 632.4 10% quartz vein, 3% pyrite	646.0	647.3	19478	tr
		646.3 - 647.0 quartz vein with 1% pyrite	661.4	662.4	19479	0.02
		662.4 - 663.0 50% quartz, 5% pyrite	662.4	663.2	19480	tr
		705.0 - 706.6 slightly silicified with 3% pyrite	663.2	664.3	19481	tr
724.1	846.0	Porphyritic Basalt (Leopard Rock) - Mottled dark green- ish-grey with white spots; medium to coarse grained; 25% porphyritic feldspars up to 0.1' in diameter in a matrix of medium grained basalt; <1% pyrrhotite + pyrite, trace arsenopyrite, sulfides locally concentrated; localized pink potassic alteration of feldspars	705.0 737.1 738.3 739.4 741.5 761.9 764.7	706.6 738.3 739.4 741.5 743.3 764.7 765.9	19482 19483 19484 19485 19486 19487 19488	0.01 0.06 0.02 tr tr tr tr
		738.4 - 739.5 silicified with 20% biotite, 3% pyrite, trace arsenopyrite, foliation 41°	765.9	767.7	19489	tr
		761.9 - 764.6 quartz flooded felsic dike with trace pyrite	777.7	781.2	19490	tr
		766.0 - 767.7 quartz flooded felsic dike with trace pyrite				
		798.5 - 799.7 nonporphyritic, foliation 55°				
		820.4 - 824.4 quartz-sericite schist with < 0.5% pyrite, schistosity 55°	821.1	824.2	19491	tr
846.0		End of Hole (Casing Left In)				

DIAMOND DRILL LOG - LINGHAN LAKE PROPERTY

Hole No: 88S-69
Page : 1

Property Owner: Twin Gold Mines Ltd.
 Grid location: 138+00.5E / 118+51.5N
 Length: 766 ft.
 Core Size: BQ
 Acid Tests: 60° @ 0'; 54° @ 306';
 48° @ 606'
 Started: October 10, 1988
 Logged by: W. Rowell

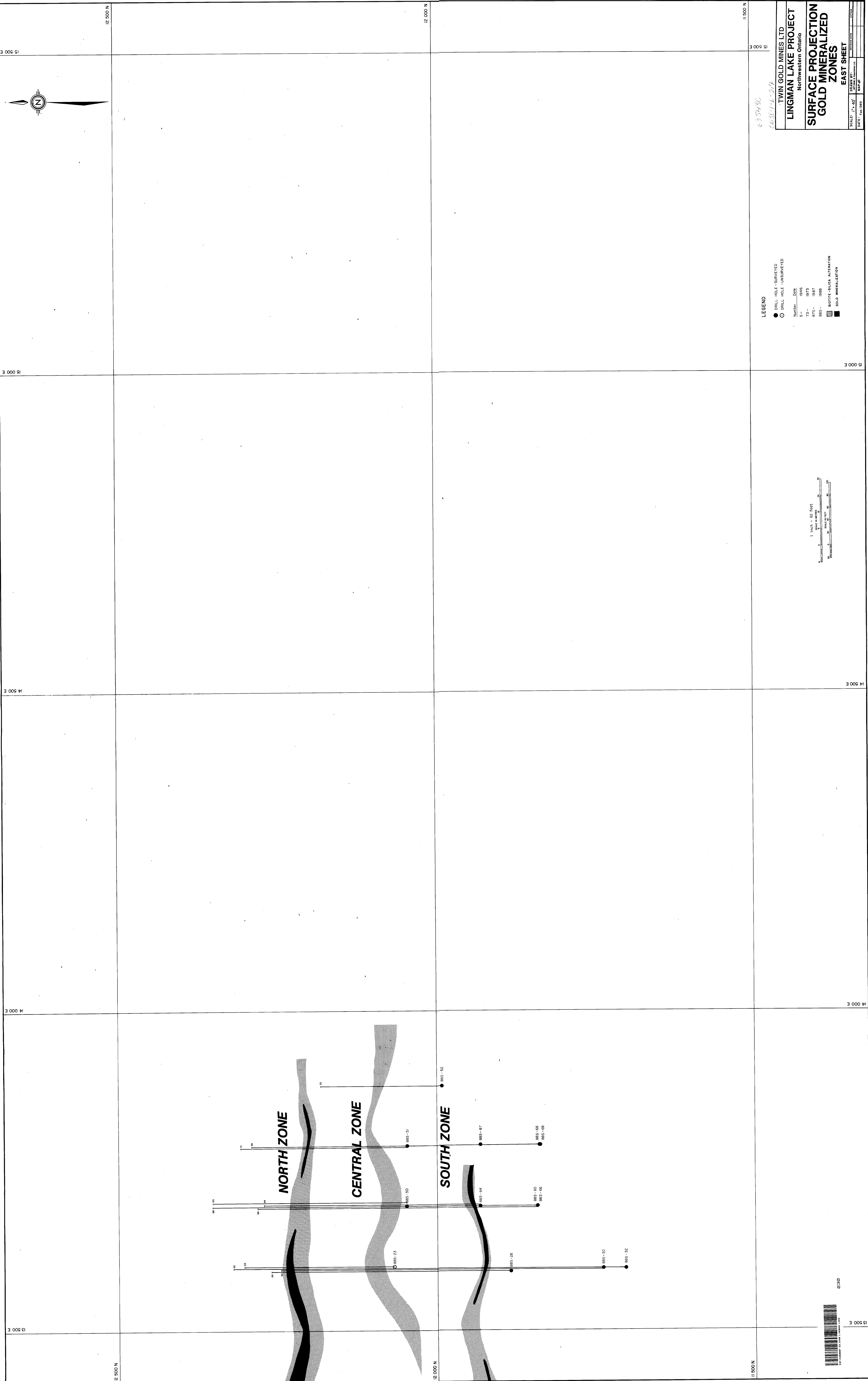
Azimuth: 360 degrees
 Tropari Tests:
 Elevation: 9967.1
 Drill Company: Morrisette
 Completed: October 13, 1988
 Date Logged: October 13, 1988

Hole location in claim

From (ft)	To (ft)	Description	From	To	Tag #	Gold
0	58.4	Overburden				
58.4	213.1	Basalt - Dark greenish-grey; fine to medium grained; moderately fractured; localized shearing; 1% calcite along shears and fractures; 1% biotite; <1% pyrrhotite + pyrite				
		75.0 foliation at 33°				
		88.5 - 88.8 slightly brecciated with calcite matrix				
		117.7 - 172.8 primarily medium grained				
		125.9 - 126.1 quartz veins				
		121.4 - 124.2 1% pyrite and 0.5% pyrrhotite along fine fractures	121.3	124.3	19492	tr
			195.1	197.6	19493	tr
		127.0 - 127.4 slightly brecciated with calcite matrix	197.6	200.3	19494	tr
		175.4 slightly schistose biotite oriented at 46°	200.3	202.7	19495	tr
		191.1 - 192.3 drag folding	202.7	206.0	19496	tr
		195.0 - 197.6 highly foliated, slightly siliceous, 2% pyrite + 0.5% pyrrhotite	206.0	209.0	19497	tr
			209.0	211.9	19498	tr
213.1	221.9	Intermediate Dike - Grey; fine to medium grained; 5% poorly developed feldspars up to 2 mm in diameter in fine grained matrix; trace sulfides				
221.9	472.3	Basalt - Similar to 54.0 - 213.1				
		222.9 - 224.9 10% biotite oriented at 31° with 2% pyrrhotite	222.9	224.9	19499	0.01
		250.2 - 251.4 quartz-feldspar porphyry, contact 43°	278.7	280.2	19500	tr
		280.7 - 281.1 silicified with 3% pyrite	280.2	281.3	19501	tr
		292.6 - 295.0 slightly sheared with 10% biotite oriented at 33°, 1% pyrite	281.3	282.3	19502	tr
			292.5	295.2	19503	tr
		321.9 - 322.4 pinkish felsic vein				
		335.5 - 336.5 5% biotite, 5% pyrrhotite	335.4	336.6	19504	tr
		367.6 - 368.3 sericite schist oriented at 51°	352.6	354.2	19505	tr
		368.3 - 370.6 15% biotite, 1% pyrrhotite	354.2	356.0	19506	tr
		370.6 - 375.4 less strongly foliated with 5% biotite	356.0	357.2	19507	tr
		387.7 - 389.0 felsic dike	366.0	367.1	19508	tr

From	To	Description	From	To	Tag #	
		387.7 to end of unit 5% felsic dikes	367.1	368.8	19509	tr
		395.0 - 407.6 slightly sheared at 45° with 1% pyrrhotite, 0.5% pyrite, 3% biotite	368.8	370.6	19510	tr
		415.7 - 417.3 3% pyrrhotite in foliated slightly bleached zone	370.6	373.5	19511	tr
		468.1 - 470.0 2% pyrrhotite along fractures	373.5	375.1	19512	0.02
			375.1	376.8	19513	tr
			376.8	379.1	19514	tr
			395.3	397.6	19515	tr
472.3	537.0	Quartz-Sericite Schist Intercalated with Quartz-Feldspar Porphyry				
		50% Quartz-Sericite Schist - Brownish-grey; medium to fine grained; 50% quartz; 40% sericite oriented at 55°; trace sulfide	397.6	401.6	19516	tr
			401.6	403.1	19517	tr
			403.1	405.4	19518	0.10
		50% Quartz-Feldspar - Mottled white and dark grey; medium to fine grained; 60% feldspar, 30% quartz; localized pinkish potassic alteration, feldspars slightly sericitized; locally quartz flooded; trace sulfide	405.4	407.6	19519	tr
			415.5	417.3	19520	tr
			461.1	470.1	19521	tr
		526.4 - 526.6 slightly brecciated				
537.0	589.5	Feldspar Phyrlic Intermediate Volcanic - Grey; fine to medium grained; 15% slightly pinkish feldspars up to 4 mm in diameter in fine groundmass; locally broken up and brecciated; <0.5% sulfide			19522	tr
		537.3 - 538.7 breccia with quartz matrix, fragments up to 1.5 cm in diameter	579.3	581.6	19523	tr
			589.5	592.4	19524	tr
		539.0 - 546.0 quite broken up	592.4	594.9	19525	tr
		568.7 - 568.9 gouge	594.9	597.2	19526	0.01
		568.9 - 570.1 brecciated	597.2	598.8	19527	tr
		579.4 - 580.7 0.5% pyrrhotite	598.8	601.7	19528	tr
			601.7	603.2	19529	tr
589.5	603.2	Basalt - Dark greenish-grey; fine to medium grained; highly foliated at 56°; 1% pyrrhotite + pyrite	603.2	604.5	19530	tr
		595.9 - 597.2 1% pyrrhotite + 1% pyrite along fractures				
603.2	726.2	Medium Grained Basalt - Dark greenish-grey; 55% amphibole; 40% saussuritized plagioclase; slightly fractured; 1% calcite along fractures; locally slightly magnetic; <1% pyrite + pyrrhotite				
		644.5 foliation 43°	656.6	658.2	19531	0.01
		658.6 - 665.6 highly foliated at 67°, 2% pyrite + pyrrhotite	658.2	661.0	19532	tr
			661.0	664.2	19533	0.02
		719.6 - 726.1 highly foliated at 50°	664.2	665.8	19534	tr
		721.5 - 724.2 2% pyrite along fractures, 5% quartz in thin veins	665.8	666.9	19535	tr
			719.5	721.2	19536	tr
			721.2	723.8	19537	tr
			723.8	727.0	19538	tr

From	To	Description	From	To	Tag #	Gold
726.2	766.0	Porphyritic Basalt (Leopard Rock) - Mottled greenish-grey with white spots; medium to coarse grained; 25% porphyritic feldspars up to 0.1' in diameter in a matrix of medium grained basalt; < 1% sulfides	749.8	751.9	19539	tr
			751.9	754.0	19540	tr
		749.8 - 754.1 20% quartz veins up to 0.6' in width with trace pyrite				
766.0		End Of Hole (Casing Left In)				



635480
6083-1-014

TWIN GOLD MINES LTD
LINGMAN LAKE PROJECT
Northwestern Ontario

**SURFACE PROJECTION
GOLD MINERALIZED
ZONES**

EAST SHEET

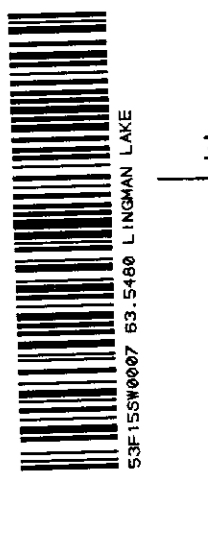
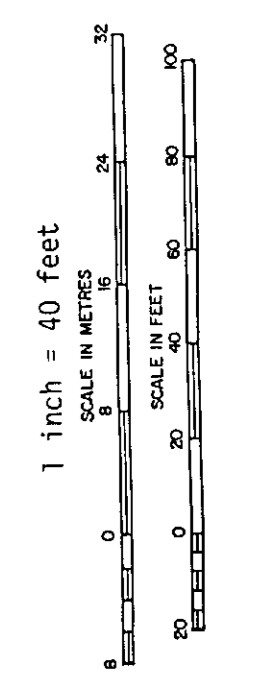
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DATE: Feb 1988

LEGEND

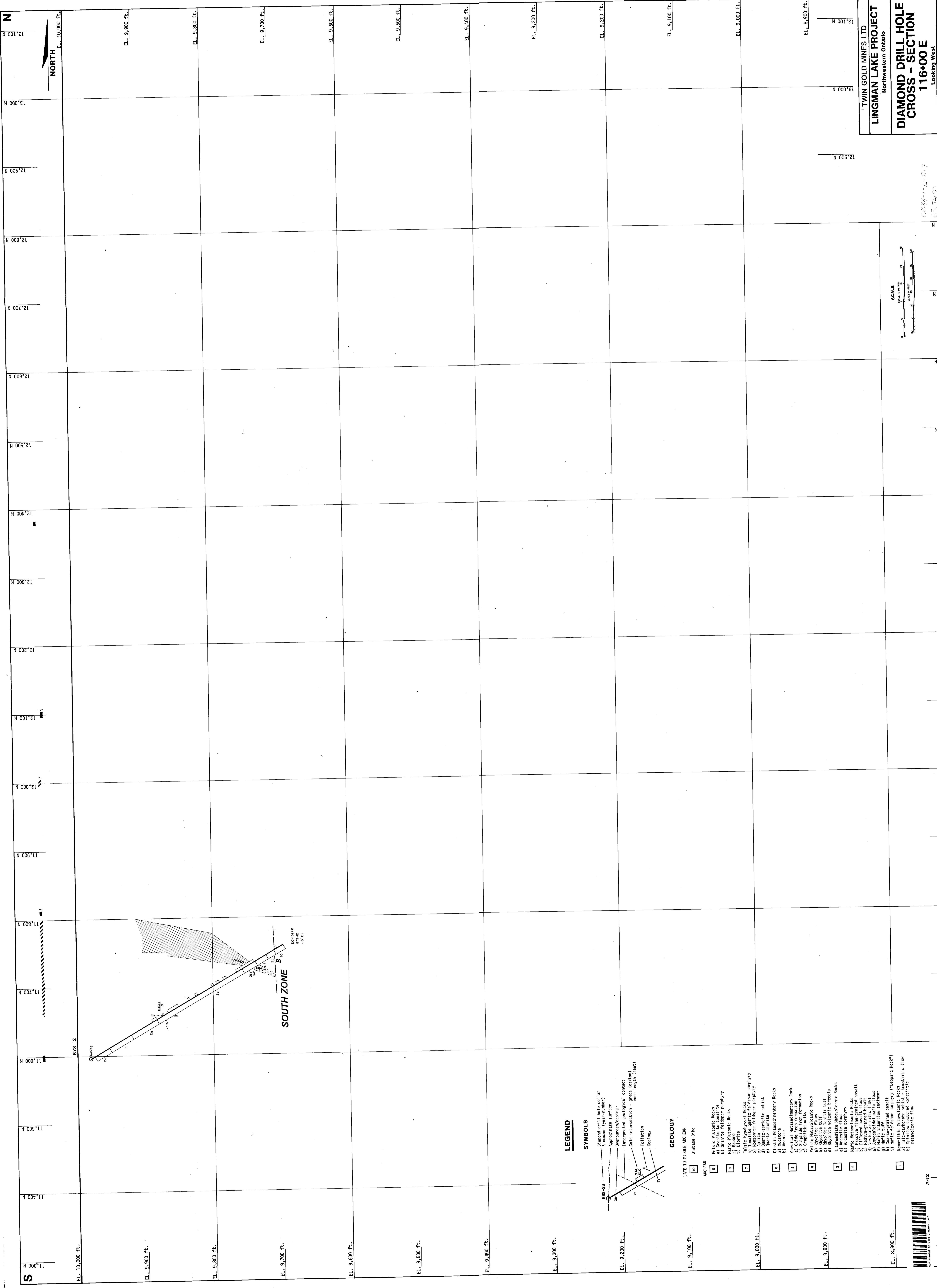
- DRILL HOLE - SURVEYED
- DRILL HOLE - UNSURVEYED

Number	Date
73	1975
875	1987
885	1988

- BOTTLÉ-SILICA ALTERATION
- GOLD MINERALIZATION



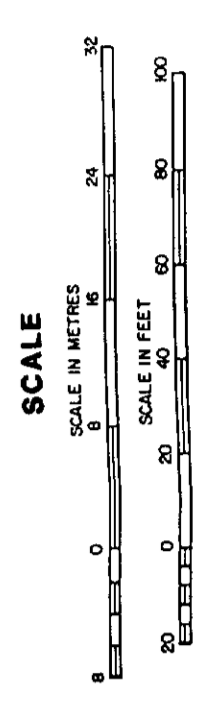
2300



TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario

**DIAMOND DRILL HOLE
 CROSS - SECTION
 116+00 E**
 Looking West

SCALE 1" = 40'
 DATE
 DRAWN BY
 ESTIMATE
 MAP #



116+00 E
 05740

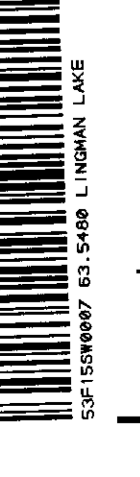
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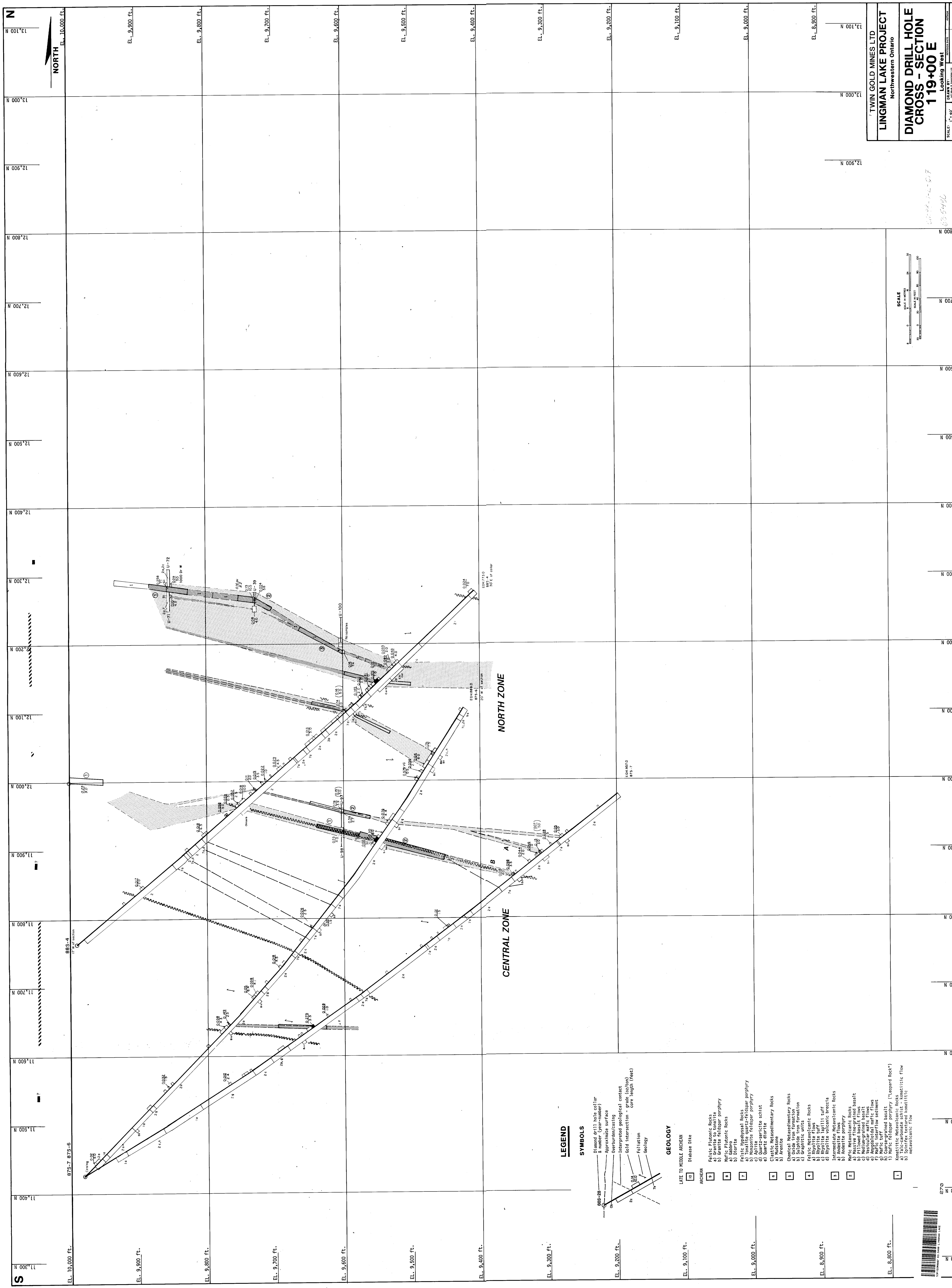
SYMBOLS

- 885-28 Diamond drill hole collar & number (year-number)
- Approximate surface
- Overburden/casting
- Interpreted geological contact
- Gold intersection - core length (feet)
- Foliation
- Geology

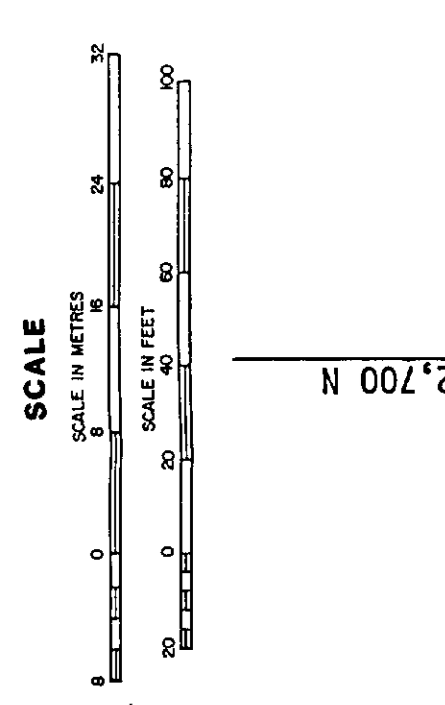
GEOLOGY

- LATE TO MIDDLE ARCHEAN
- 10 Diabase Dike
 - ARCHEAN
 - 9 Felsic Plutonic Rocks
 - 8 Mafic Plutonic Rocks
 - 7 Felsic Hypabyssal Rocks
 - 6 Classic Metasedimentary Rocks
 - 5 Metasedimentary Rocks
 - 4 Felsic Metavolcanic Rocks
 - 3 Intermediate Metavolcanic Rocks
 - 2 Mafic Metavolcanic Rocks
 - 1 Metavolcanic Rocks
 - 0 Metavolcanic Rocks
- 116+00 E



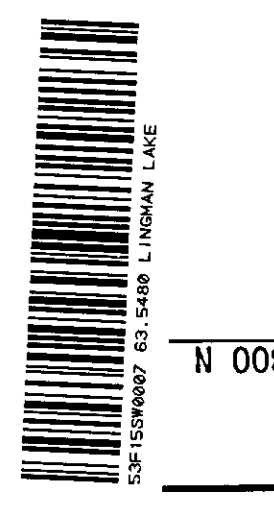


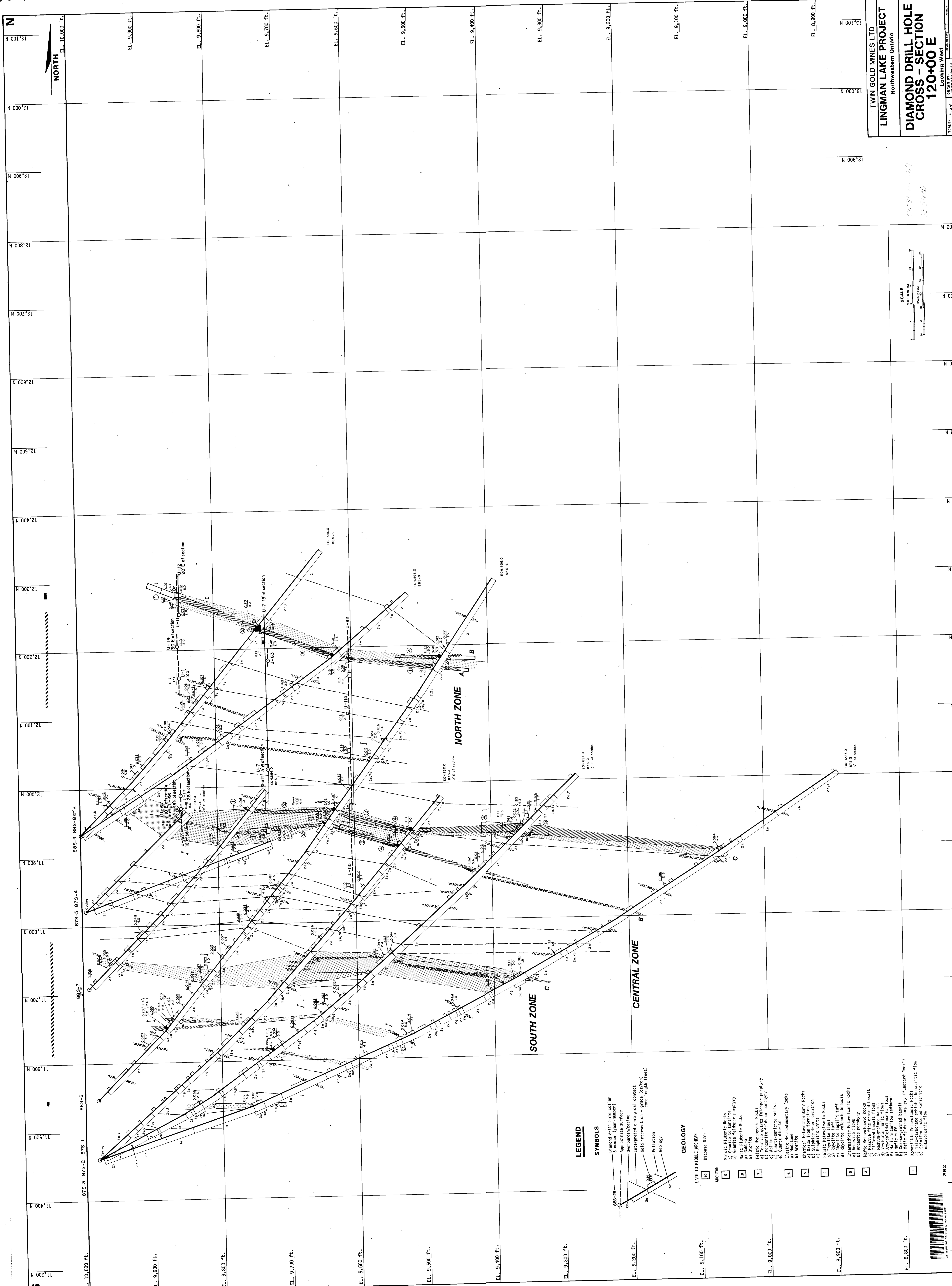
TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario
**DIAMOND DRILL HOLE
 CROSS - SECTION
 119+00 E**
 Looking West
 SCALE: 1" = 40'
 DATE: September '98
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 MAP #



LEGEND

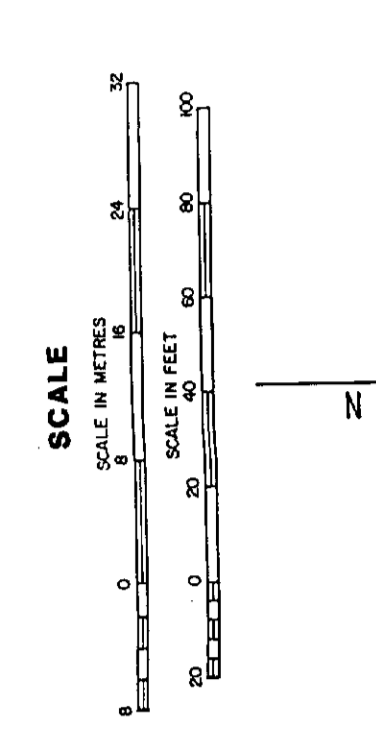
- SYMBOLS**
- 885-28 Diamond drill hole (with number)
 - Approximate surface
 - Overburden/casing
 - Interpreted geological contact
 - Gold intersection - grade (oz/ton)
 - Feliciton
 - Geology
- GEOLOGY**
- LATE TO MIDDLE ARCHEAN
- Diabase Dike
 - ARCHEAN
 - 9 Felsic Plutonic Rocks
 - a) Granite to tonalite
 - b) Granite porphyry
 - 7 Mafic Plutonic Rocks
 - a) Gabbro
 - b) Diorite
 - 6 Intermediate to mafic volcanic rocks
 - a) Tonalitic quartz-feldspar porphyry
 - b) Nonzoned felsic-feldspar porphyry
 - c) Quartz-sericite schist
 - d) Quartz diorite
 - e) Mafic diorite
 - f) Mafic gabbro
 - 5 Metasedimentary Rocks
 - a) Arenite
 - 4 Chemical Metasedimentary Rocks
 - a) Magnetite formation
 - b) Sulfidic iron formation
 - c) Graphitic units
 - 3 Felsic Metavolcanic Rocks
 - a) Rhyolite tuff
 - b) Rhyolite breccia
 - c) Rhyolite volcanic breccia
 - 2 Intermediate Metavolcanic Rocks
 - a) Andesite flow
 - b) Andesite flow
 - 1 Mafic Metavolcanic Rocks
 - a) Massive fine-grained basalt
 - b) Medium-grained basalt
 - c) Medium-grained basalt
 - d) Amphibolitic mafic flow
 - e) Mafic interflow sediment
 - f) Mafic interflow sediment
 - 0 Coarse-grained basalt
 - 1) Mafic feldspar porphyry ("Lopard Rock")
 - 2) Mafic feldspar porphyry (komatiitic flow)
 - 3) Spinifex textured komatiitic mafic flow
 - 4) Komatiitic flow





TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario
**DIAMOND DRILL HOLE
 CROSS - SECTION
 120+00 E**
 Looking West

SCALE: 1" = 40'
 DATE: 08/08/08
 DRAWN BY: [Name]
 CHECKED BY: [Name]

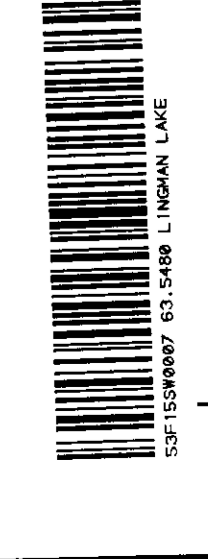


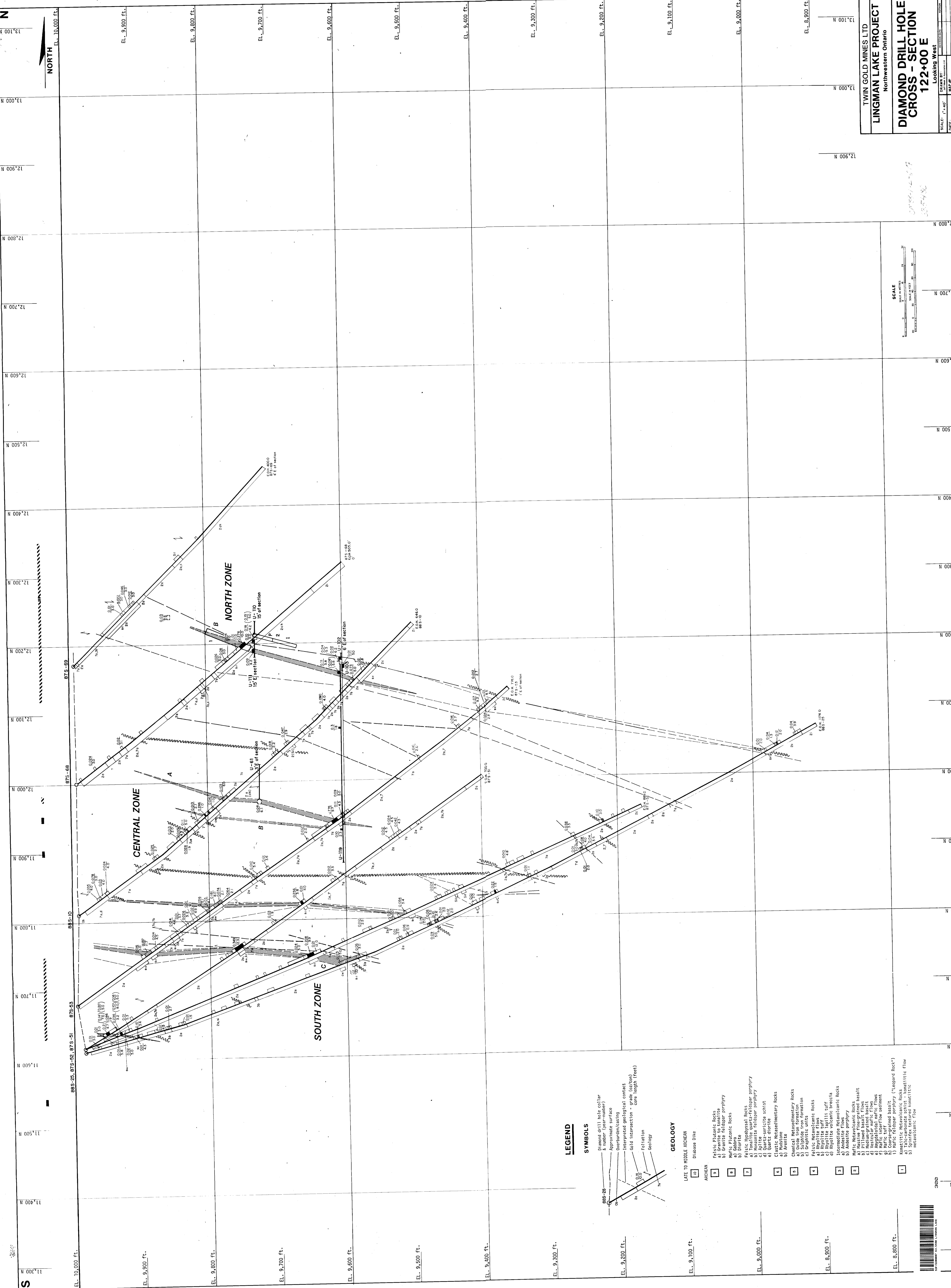
LEGEND

- SYMBOLS**
- Diamond drill hole collar
 - Number (year-month)
 - Approximate strike
 - Intersected geological contact
 - Solid intersection - grade (oz/ton)
 - Solid intersection - core length (feet)
 - Foliation
 - Geology

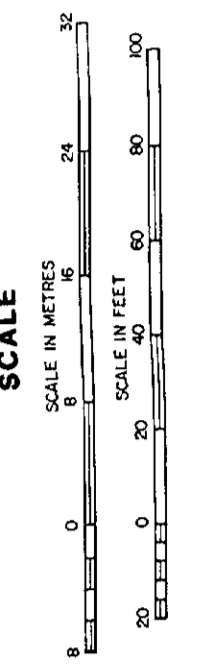
GEOLOGY

- LATE TO MIDDLE ARCHER
- 10 Diabase Dike
 - ARCHER
 - 9 Felsic Plutonic Rocks
 - a) Tonalite quartz-diorite porphyry
 - b) Granite feldspar porphyry
 - 8 Mafic Plutonic Rocks
 - a) Diorite
 - 7 Felsic Hypabyssal Rocks
 - a) Tonalite quartz-diorite porphyry
 - b) Granite feldspar porphyry
 - c) Granite
 - d) Quartz-sericite schist
 - 6 Chlorite Metasedimentary Rocks
 - a) Mudstone
 - b) Argillite
 - 5 Chemical Metasedimentary Rocks
 - a) Sulphide iron formation
 - b) Graphitic rocks
 - c) Magnetite rocks
 - 4 Rhyolite flows
 - a) Rhyolite basaltic tuff
 - b) Rhyolite volcanic breccia
 - c) Rhyolite
 - 3 Intermediate Metavolcanic Rocks
 - a) Andesite porphyry
 - 2 Mafic Metavolcanic Rocks
 - a) Basaltic flow
 - b) Basaltic flow
 - c) Medium-grained basalt
 - d) Fine-grained basalt
 - e) Amphibolite mafic flows
 - f) Mafic interflow sediment
 - g) Coarse-grained basalt
 - 1 Mafic feldspar porphyry (Unspotted Rock*)
 - a) Mafic feldspar porphyry - komatiitic flow
 - b) Spinelifer textured komatiitic
 - c) komatiitic flow
 - d) komatiitic flow





TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario
**DIAMOND DRILL HOLE
 CROSS - SECTION
 122+00 E**
 Looking West
 SCALE: 1" = 40'
 DATE: September 2008
 DRAWN BY: [blank]
 CHECKED BY: [blank]
 PROJECT NO: [blank]
 SHEET NO: [blank]



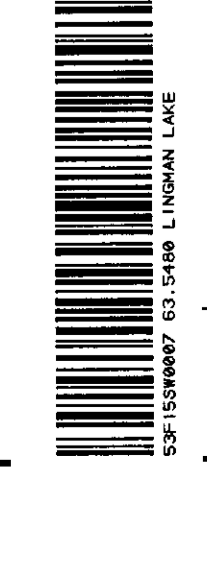
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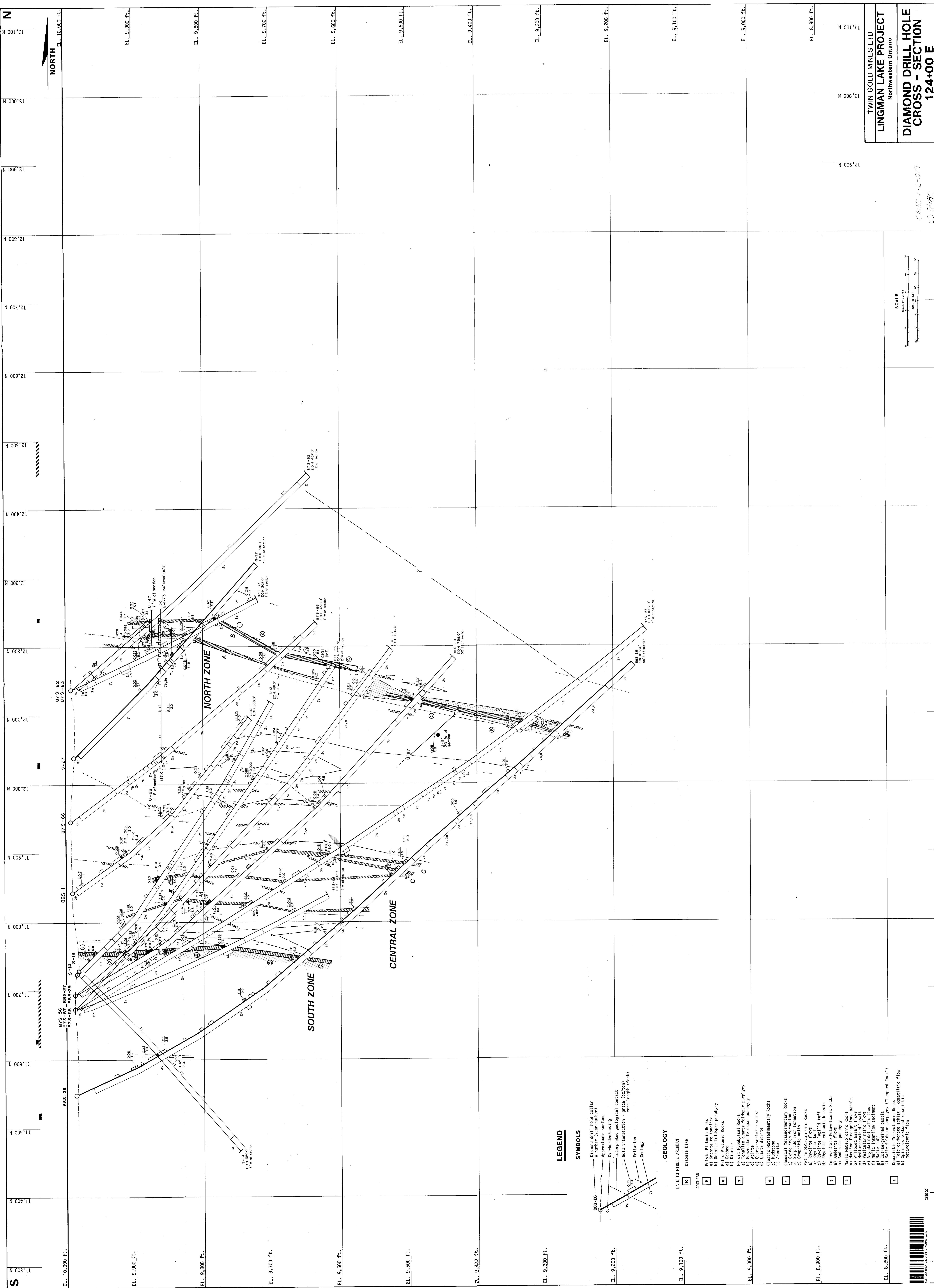
SYMBOLS

- 888-28 Diamond drill hole collar & number (year-number)
- Approximate surface
- Overburden/Casting
- Interpreted geological contact
- Gold intersection - core length (feet)
- Foliation
- Geology

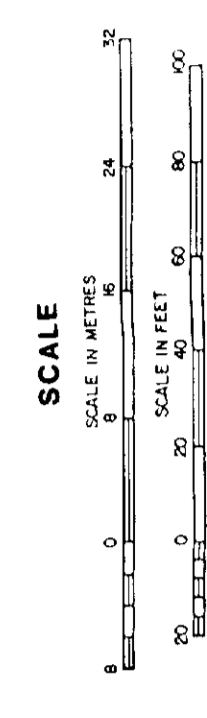
GEOLOGY

- 1 LATE TO MIDDLE ARCHEAN
- 2 Diabase Dike
- 3 ARCHEAN
- 4 Felsic Plutonic Rocks
- 5 Granitic Feldspar porphyry
- 6 Mafic Plutonic Rocks
- 7 a) Basalt
b) Basaltic andesite
c) Andesite
- 8 Felsic Hypabyssal Rocks
- 9 a) Tonalite quartz-feldspar porphyry
b) Quartz-feldspar porphyry
c) Aplite
d) Quartz-sericite schist
- 10 Classic Metasedimentary Rocks
- 11 Mudstone
- 12 Arenite
- 13 Sandstone
- 14 Metasedimentary Rocks
- 15 a) Sulfide Iron Formation
b) Sulfide Iron Formation
- 16 Felsic Metavolcanic Rocks
- 17 a) Rhyolite flows
b) Rhyolite tuff
c) Rhyolite lapilli tuff
d) Rhyolite volcanic breccia
- 18 Intermediate Metavolcanic Rocks
- 19 Andesite porphyry
- 20 Mafic Metavolcanic Rocks
- 21 a) Pillowed basalt flow
b) Basaltic andesite flow
c) Andesite flow
d) Andesite flow
e) Andesite flow
f) Andesite flow
g) Andesite flow
h) Andesite flow
i) Andesite flow
j) Andesite flow
- 22 Metasedimentary Rocks
- 23 a) Metasedimentary schist - tonalitic flow
b) Metasedimentary schist - tonalitic flow
c) Metasedimentary schist - tonalitic flow
d) Metasedimentary schist - tonalitic flow





TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario
**DIAMOND DRILL HOLE
 CROSS - SECTION
 124+00 E**
 Looking West
 SCALE 1" = 40'



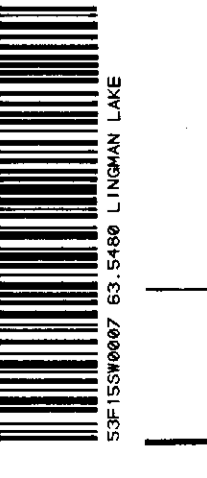
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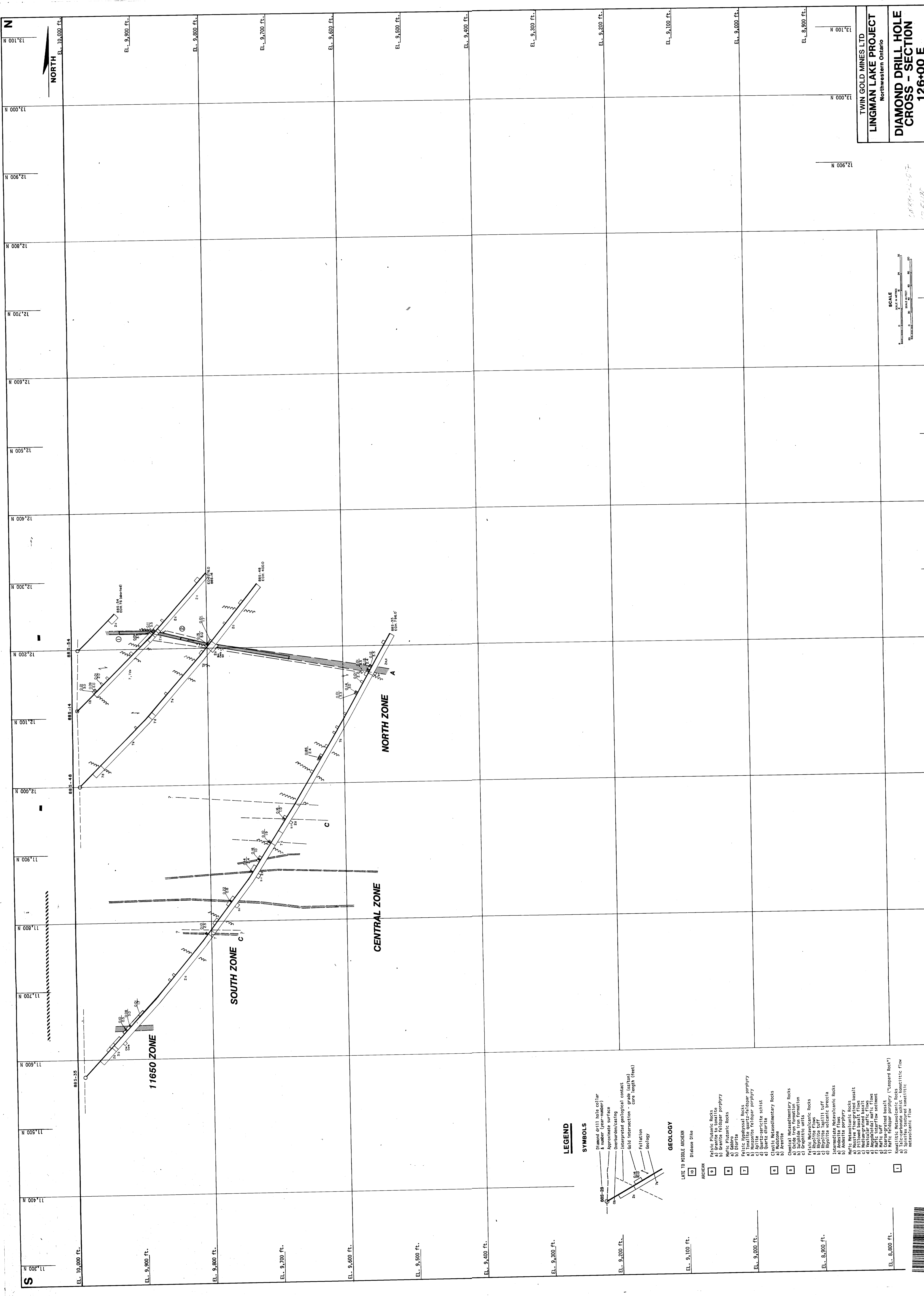
SYMBOLS

- 885-26 Diamond drill hole collar & number (year-number)
- 885-27 Approximate surface
- 885-28 Overburden/casing
- 885-29 Interpreted geological contact
- 885-30 Gold intersection - ground level
- 885-31 Core length (feet)
- 885-32 Foliation
- 885-33 Geology

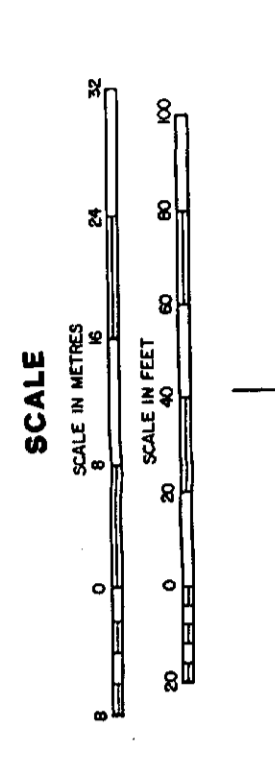
GEOLOGY

- LATE TO MIDDLE ARCHERIAN
 - 1 Diabase dike
- ARCHERIAN
 - 2 Felitic Plutonic Rocks
 - 3 Granite Feldspar porphyry
 - 4 Mafic Plutonic Rocks
 - 5 Diorite
 - 6 Felitic Neobasalt Rocks
 - 7 Tonalite quartz-feldspar porphyry
 - 8 White feldspar porphyry
 - 9 Quartz-sericite schist
 - 10 Quartz-sericite schist
 - 11 Andesite
 - 12 Mudstone
 - 13 Sandstone
 - 14 Metasedimentary Rocks
 - 15 Metasedimentary Rocks
 - 16 Suphide iron formation
 - 17 Diabase iron formation
 - 18 Mafic Metavolcanic Rocks
 - 19 Rhyolite flows
 - 20 Rhyolite lapilli tuff
 - 21 Rhyolite volcanic breccia
 - 22 Intermediate Metavolcanic Rocks
 - 23 Andesite porphyry
 - 24 Mafic Metavolcanic Rocks
 - 25 Basalt
 - 26 Medium-grained basalt
 - 27 Fine-grained basalt
 - 28 Argillaceous mafic flows
 - 29 Mafic flow sediment
 - 30 Mafic tuff
 - 31 Corrugated basalt ("leopard rock")
- 32 Metasedimentary schist - hornblitic flow
- 33 Metasedimentary schist - hornblitic flow
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- 100 Metasedimentary schist - hornblitic flow





TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario
**DIAMOND DRILL HOLE
 CROSS - SECTION
 126+00 E**
 Looking West
 SCALE: 1" = 40'
 DRAWN BY: [Name]
 CHECKED BY: [Name]

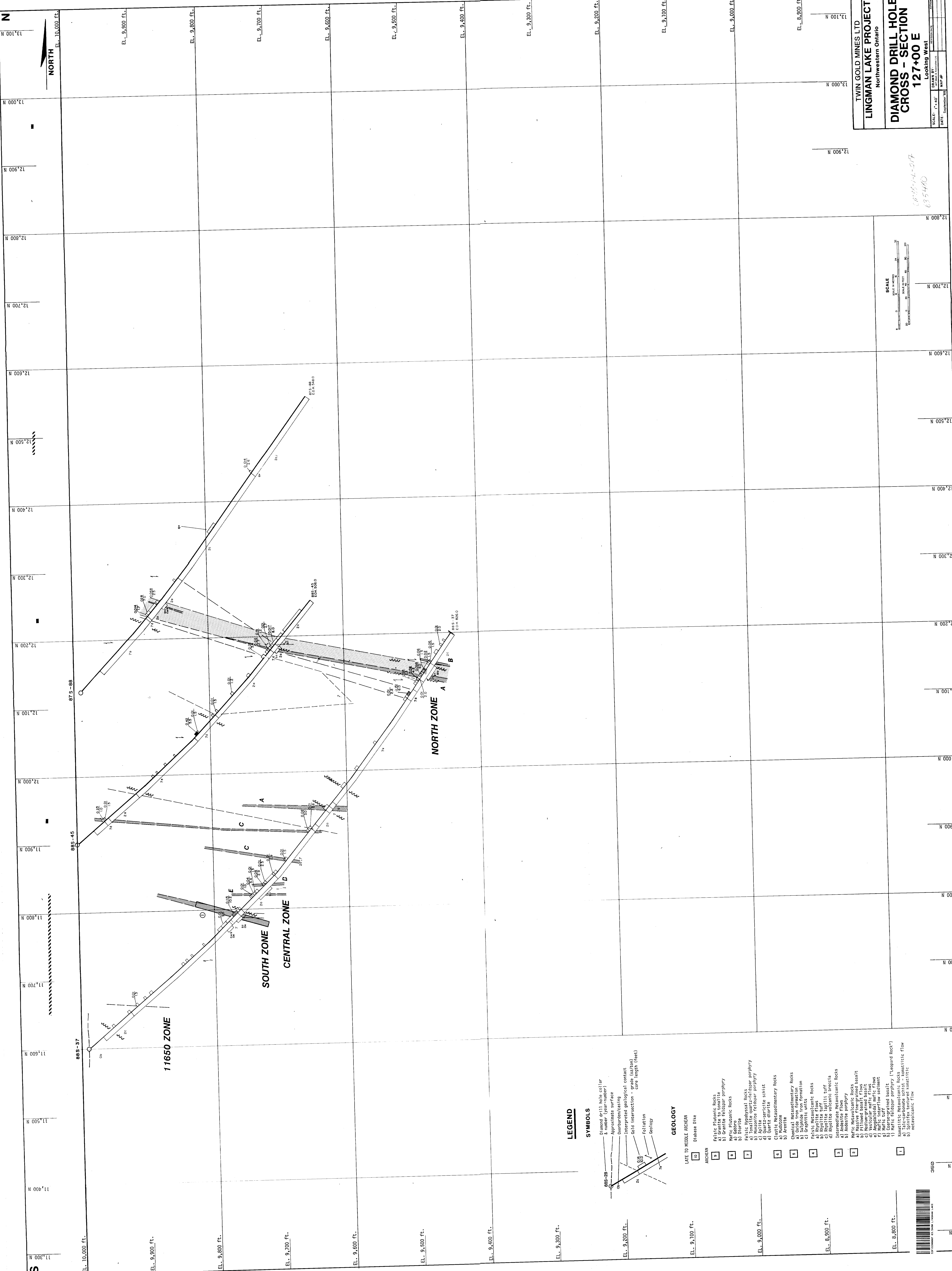


LEGEND

- SYMBOLS**
- Diamond drill hole collar
 - Number (year-number)
 - Approximate surface
 - Overburden/rocking
 - Geological contact
 - Solid intersection - grade (azimuth)
 - Solid intersection - core length (feet)
 - Fault
 - Foliation
 - Geology

GEOLOGY

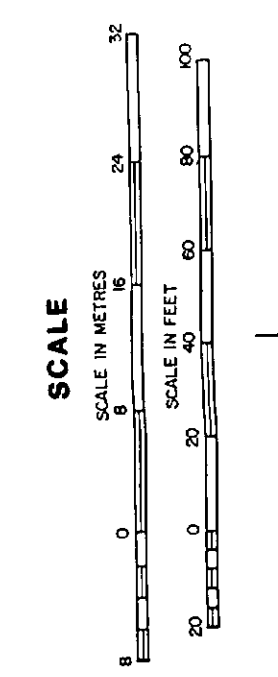
- 1 LATE TO MIDDLE ARCHEREN
- 2 Diabase Dike
- ARCHEREN
- 3 Felsic Plutonic Rocks
- 4 Granite to quartzite
- 5 Granite feldspar porphyry
- 6 Mafic Plutonic Rocks
- 7 Diorite
- 8 Felsic Abyssal Rocks
- 9 a) Granite porphyry
- 10 b) Granite feldspar porphyry
- 11 Quartz diorite
- 12 Andesite
- 13 Chertic Metasedimentary Rocks
- 14 Mudstone
- 15 Chemical Metasedimentary Rocks
- 16 a) Oxide iron formation
- 17 b) Iron formation
- 18 c) Graphitic units
- 19 Felsic Metavolcanic Rocks
- 20 a) Rhyolite tuff
- 21 b) Rhyolite tuff
- 22 c) Rhyolite volcanic breccia
- 23 d) Rhyolite volcanic breccia
- 24 a) Andesite flow
- 25 b) Andesite porphyry
- 26 Metavolcanic breccia
- 27 Metavolcanic breccia
- 28 a) Pillowed basalt flows
- 29 b) Vesicular mafic flows
- 30 c) Vesicular mafic flows
- 31 d) Vesicular mafic flows
- 32 e) Vesicular mafic flows
- 33 g) Mafic tuff
- 34 h) Mafic tuff
- 35 a) Mafic tuff
- 36 b) Mafic tuff
- 37 c) Mafic tuff
- 38 d) Mafic tuff
- 39 e) Mafic tuff
- 40 f) Mafic tuff
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- 43 i) Mafic tuff
- 44 j) Mafic tuff
- 45 k) Mafic tuff
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- 47 m) Mafic tuff
- 48 n) Mafic tuff
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- 50 p) Mafic tuff
- 51 q) Mafic tuff
- 52 r) Mafic tuff
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- 58 x) Mafic tuff
- 59 y) Mafic tuff
- 60 z) Mafic tuff
- 61 aa) Mafic tuff
- 62 ab) Mafic tuff
- 63 ac) Mafic tuff
- 64 ad) Mafic tuff
- 65 ae) Mafic tuff
- 66 af) Mafic tuff
- 67 ag) Mafic tuff
- 68 ah) Mafic tuff
- 69 ai) Mafic tuff
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- 72 al) Mafic tuff
- 73 am) Mafic tuff
- 74 an) Mafic tuff
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- 76 ap) Mafic tuff
- 77 aq) Mafic tuff
- 78 ar) Mafic tuff
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- 84 ax) Mafic tuff
- 85 ay) Mafic tuff
- 86 az) Mafic tuff
- 87 ba) Mafic tuff
- 88 bb) Mafic tuff
- 89 bc) Mafic tuff
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- 551 sw) Mafic tuff
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- 565 tk) Mafic tuff
- 566 tl) Mafic tuff
- 567



TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario

**DIAMOND DRILL HOLE
 CROSS - SECTION
 127+00 E**

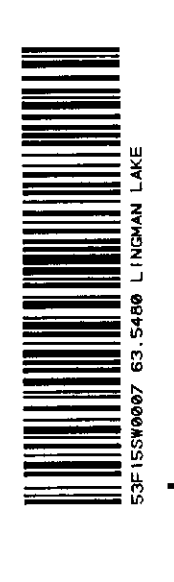
LOOKING WEST
 DATE: September 98
 MAP #:

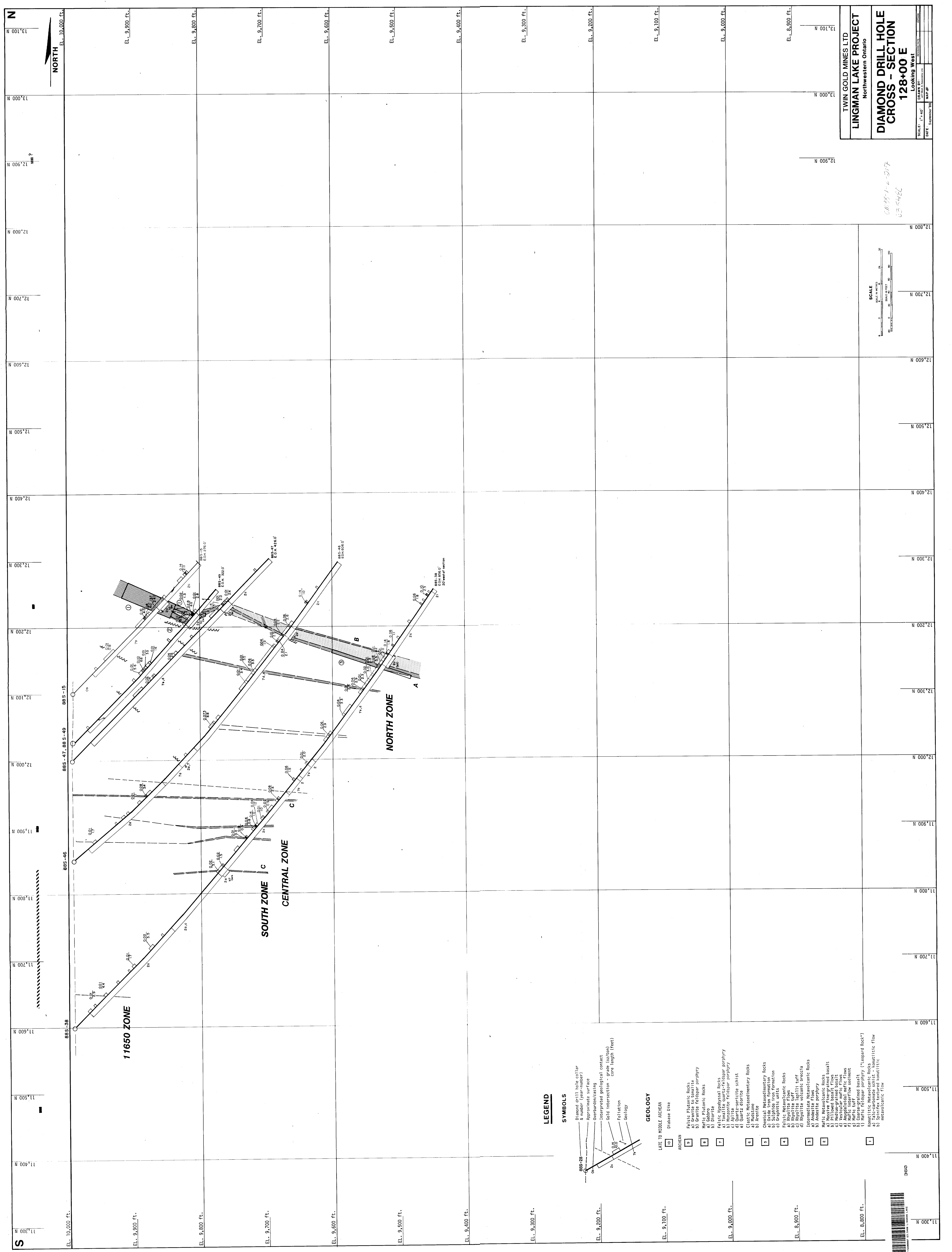


127+00 E
 65440

LEGEND

- SYMBOLS**
- 88S-28 Diamond drill hole collar & number (year-number)
 - Approximate surface
 - Overburden/casting
 - Interpreted geological contact
 - Gold intersection - core length (feet)
 - Foliation
 - Geology
- GEOLOGY**
- 1 LATE TO MIDDLE ARCHEAN
 - 2 Diabase Dike
 - ARCHEAN
 - 3 Felsic Plutonic Rocks
 - 4 Granitic feldspar porphyry
 - 5 Mafic Plutonic Rocks
 - 6 Diorite
 - 7 Felsic Hypabyssal Rocks
 - 8 Tonalite quartzite porphyry
 - 9 Aplite
 - 10 Quartzite, schist
 - 11 Quartz diorite
 - 12 Diorite
 - CLASTIC METASEDIMENTARY ROCKS
 - 13 Mudstone
 - 14 Sandstone
 - 15 Chemical Metasedimentary Rocks
 - 16 Oxide Iron formation
 - 17 Graphitic units
 - FELSIC METAVOLCANIC ROCKS
 - 18 Rhyolite flow
 - 19 Rhyolite tuff
 - 20 Rhyolite volcanic flows
 - 21 Andesite flow
 - 22 Andesite flow
 - 23 Andesite porphyry
 - 24 Basalt
 - 25 Massive flow-pile basalt
 - 26 Pillowed basalt flow
 - 27 Vesicular mafic flow
 - 28 Mafic interflow
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11650 ZONE

SOUTH ZONE
CENTRAL ZONE

NORTH ZONE

LEGEND

- SYMBOLS**
- Diamond drill hole collar & number (year-number)
 - Approximate surface
 - Overburden/rocking
 - Interpreted geological contact
 - Gold intersection - grade (azimuth) core (log) (feet)
 - Pollution
 - Geology

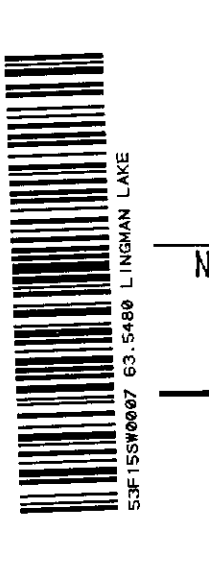
GEOLOGY

- LATE TO MIDDLE ARCHEAN
- Diabase Dike
- ARCHEAN
- 1 Plutonic Rocks
 - a) Granite feldspar porphyry
 - b) Granite
- 2 Felsic hypabyssal Rocks
 - a) Tonalite quartz-feldspar porphyry
 - b) Andesite
- 3 Metasedimentary Rocks
 - a) Mudstone
 - b) Sandstone
- 4 Chemical Metasedimentary Rocks
 - a) Oxide Iron formation
 - b) Sulfide formation
 - c) Sulfuric unit
- 5 Felsic Metavolcanic Rocks
 - a) Rhyolite flow
 - b) Rhyolite tuff
 - c) Rhyolite breccia
 - d) Andesite flow
 - e) Andesite flow
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- 6 Metavolcanic Rocks
 - a) Basalt flow
 - b) Basalt flow
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- 7 Metavolcanic Rocks
 - a) Basalt flow
 - b) Basalt flow
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- 8 Metavolcanic Rocks
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- 9 Metavolcanic Rocks
 - a) Basalt flow
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- 10 Metavolcanic Rocks
 - a) Basalt flow
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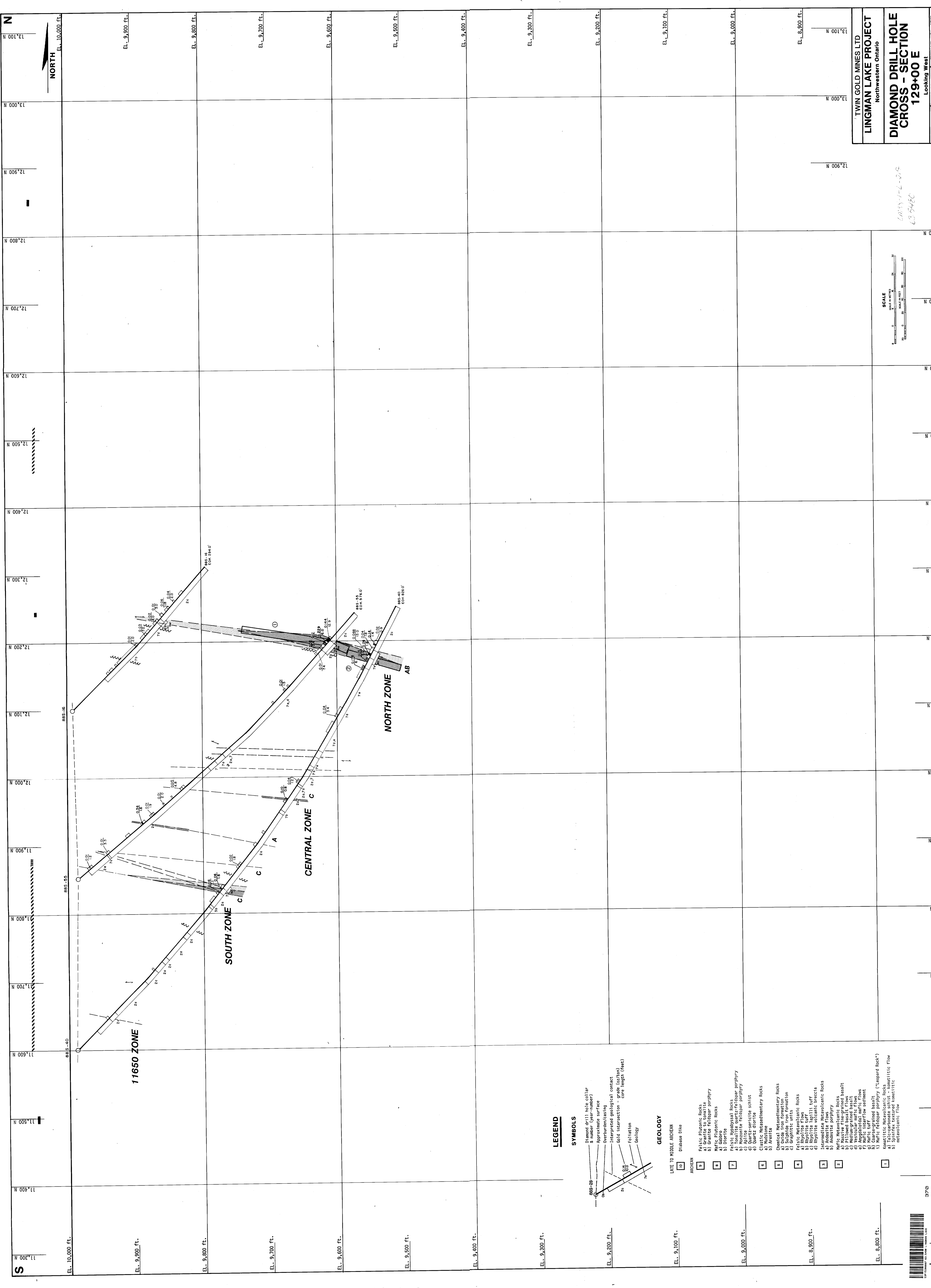
TWIN GOLD MINES LTD
LINGMAN LAKE PROJECT
Northwestern Ontario
DIAMOND DRILL HOLE CROSS - SECTION 128+00 E
Looking West

SCALE: 1" = 40'
DATE: 02/28/2008
MAP #:

08-11-1-017
03-346C

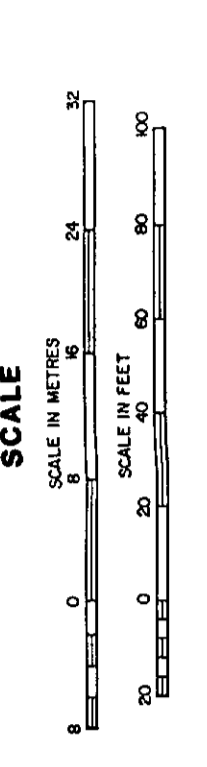


360



TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario
**DIAMOND DRILL HOLE
 CROSS - SECTION**
 129+00 E
 Looking West

1295-1-2-215
 03-546C



SCALE: 1" = 40'
 DATE: September 04
 DRAWN BY: [blank]
 MAP #:

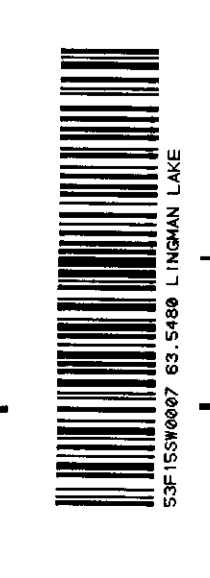
LEGEND

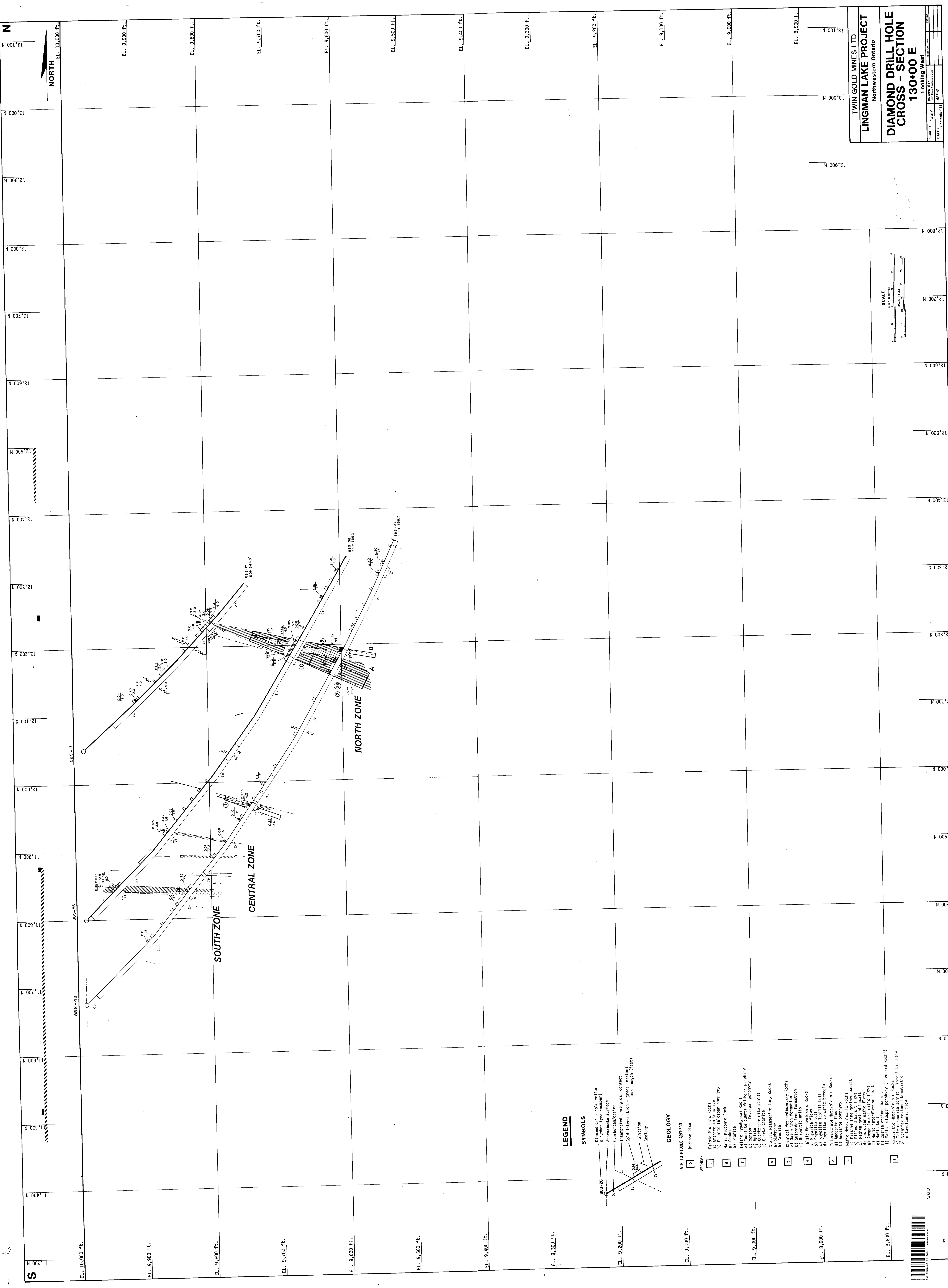
SYMBOLS

- Diamond drill hole collar & number (year-number)
- Drill hole location
- Approximate strike-slip fault
- Intersected geological contact
- Gold intersection - grade (oz/ton)
- Gold intersection - core length (feet)
- Foliation
- Geology

GEOLOGY

- LATE TO MIDDLE ARCHEAN
 - 10 Diabase Dike
- ARCHEAN
 - 1 Felsic Plutonic Rocks
 - a) Granite to tonalite
 - b) Granite feldspar porphyry
 - 2 Intermediate to mafic volcanic rocks
 - 3 Diorite
 - 4 Felsic Metavolcanic Rocks
 - a) Quartz-feldspar porphyry
 - b) Monzonite feldspar porphyry
 - c) Quartz-epidote schist
 - d) Quartz diorite
 - 5 Classic Metasedimentary Rocks
 - a) Ardenite
 - 6 Chemical Metasedimentary Rocks
 - a) Sulfide iron formation
 - b) Sulfide iron formation
 - 7 Graphitic units
 - 8 Felsic Metavolcanic Rocks
 - a) Rhyolite tuff
 - b) Rhyolite volcanic breccia
 - c) Intermediate Metavolcanic Rocks
 - a) Andesite porphyry
 - 9 Mafic Metavolcanic Rocks
 - a) Massive fine-grained basalt
 - b) Medium-grained basalt
 - c) Medium-grained basalt
 - d) Fine-grained basalt
 - e) Argillaceous mafic flow
 - f) Mafic interflow sediment
 - 10 Coarse-grained basalt
 - 11 Mafic feldspar porphyry ("legend Rock")
 - 12 Spineliferous komatiitic mafic flow
 - 13 Talc-carbonate schist - komatiitic flow
 - 14 Komatiitic flow

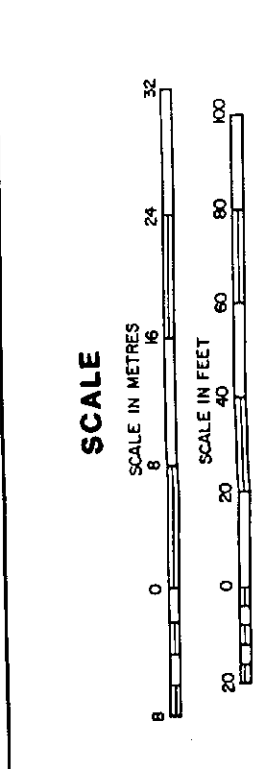




TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario

**DIAMOND DRILL HOLE
 CROSS - SECTION
 130+00 E**

Looking West
 SCALE: 1" = 40'
 DATE: September 88
 MAP #:



LEGEND

SYMBOLS

- 88S-25 Diamond drill hole collar & number (year-number)
- Overburden surface
- Undergrade physical contact
- Undergrade physical contact
- Core location - grade (azimuth) core length (feet)
- Foliation
- Geology

GEOLOGY

- LATE TO MIDDLE ARCHEAN
- Diabase Dike
- ARCHEAN
 - 1 Felsic Plutonic Rocks
 - 2 Granite to Tonalite
 - 3 Granite feldspar porphyry
 - 4 Metacarbonate rocks
 - 5 Diorite
 - 6 Gabbro
 - 7 Felsic Metaplutonic Rocks
 - 8 Monzonite to diorite
 - 9 Monzonite feldspar porphyry
 - 10 Quartz diorite
 - 11 Granite
 - 12 Andesite
 - 13 Andesite flow
 - 14 Intermediate Metavolcanic Rocks
 - 15 Basalt
 - 16 Basaltic andesite
 - 17 Basalt
 - 18 Basaltic andesite
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 11,400 N

EL. 10,000 ft.
 EL. 9,900 ft.
 EL. 9,800 ft.
 EL. 9,700 ft.
 EL. 9,600 ft.
 EL. 9,500 ft.
 EL. 9,400 ft.
 EL. 9,300 ft.
 EL. 9,200 ft.
 EL. 9,100 ft.
 EL. 9,000 ft.
 EL. 8,900 ft.

88S-42
 88S-96
 88S-17
 88S-25

SOUTH ZONE
 CENTRAL ZONE
 NORTH ZONE

130+00 E

Looking West

SCALE: 1" = 40'

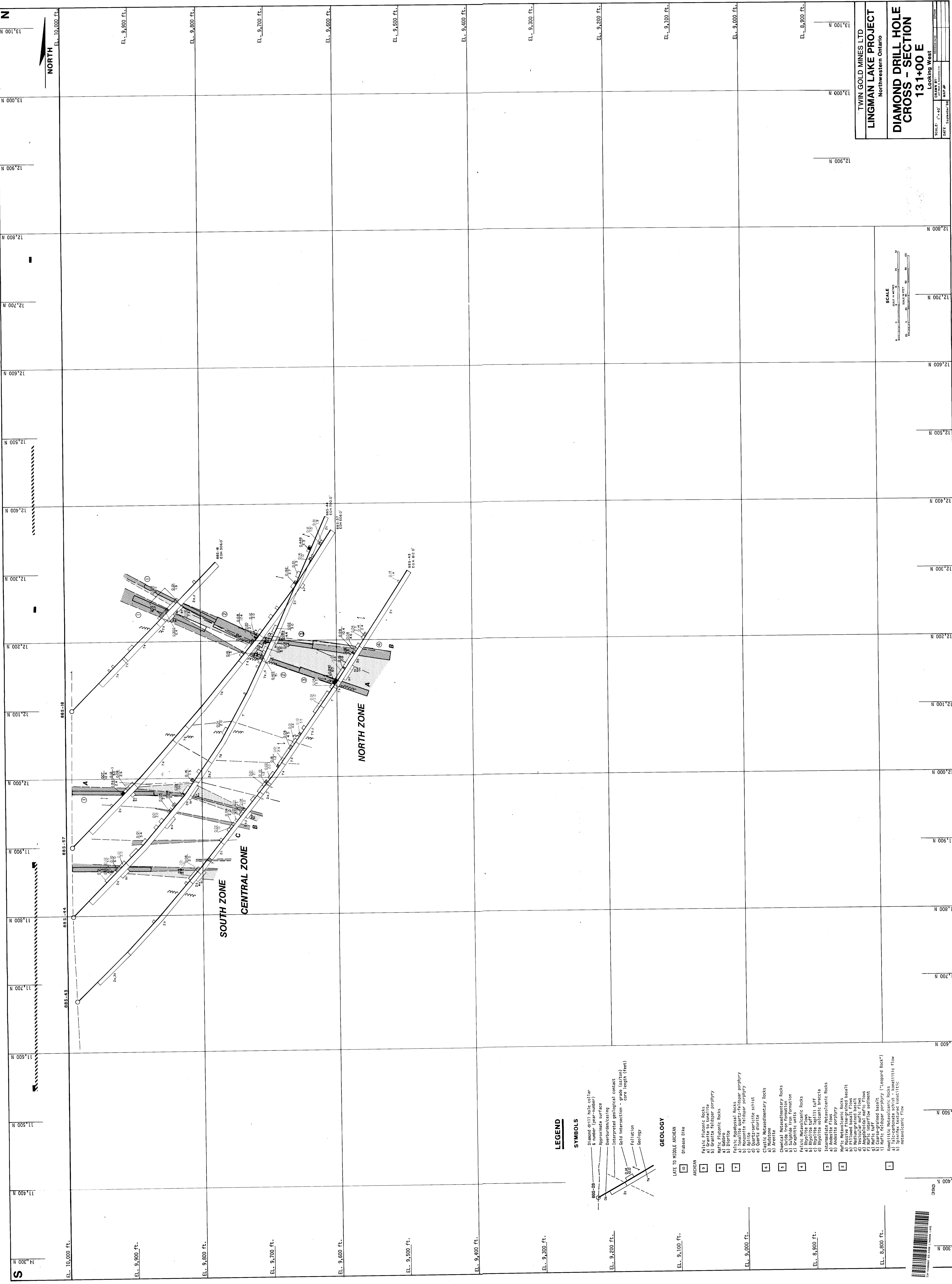
DATE: September 88

MAP #:

TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario

**DIAMOND DRILL HOLE
 CROSS - SECTION
 130+00 E**

Looking West
 SCALE: 1" = 40'
 DATE: September 88
 MAP #:



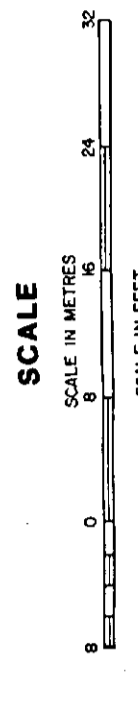
TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario

**DIAMOND DRILL HOLE
 CROSS - SECTION
 131+00 E**

Looking West

SCALE: 1" = 40'
 DATE: September 88

DRW: JWP
 CHECK: JWP



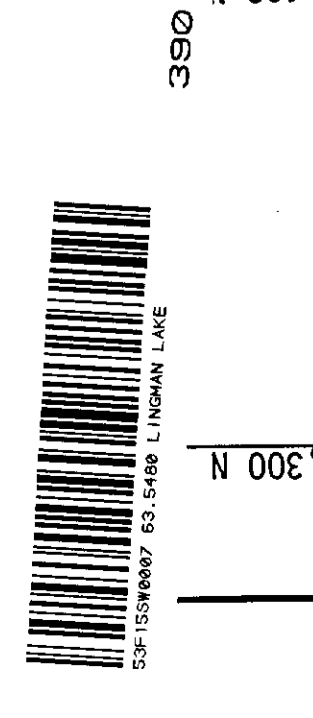
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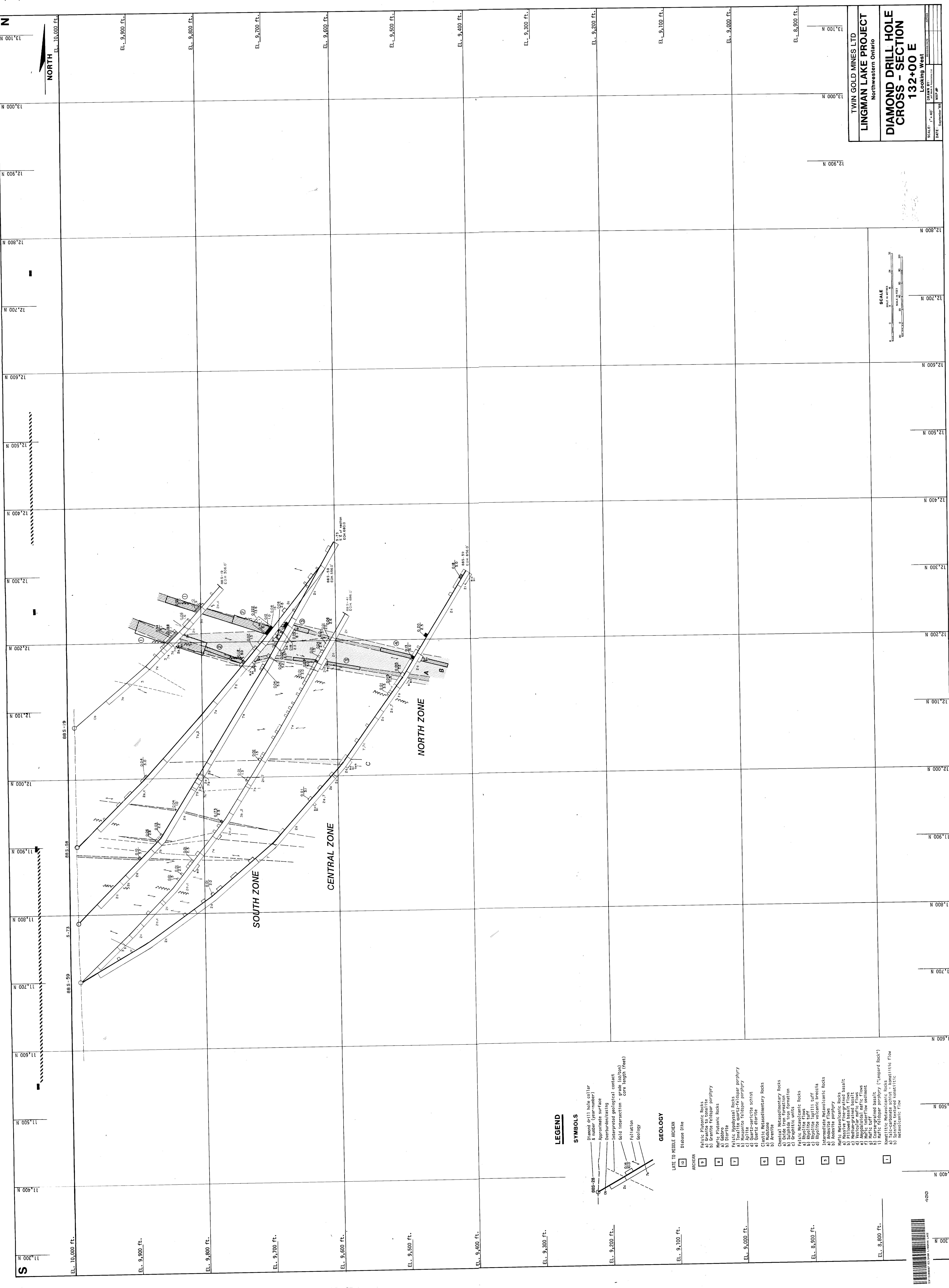
SYMBOLS

- Diamond drill hole collar & number (year-number)
- Approximate surface
- Overburden/casing
- Interpreted geological contact
- Gold intersection - grade north of hole length (feet)
- Poliation
- Geology

GEOLOGY

- 1 LATE TO MIDDLE ARCHEAN
- 2 Diabase Dike
- ARCHEAN
- 3 Felitic Plutonic Rocks
- 4 Granitic felsic gneiss
- 5 Metric Plutonic Rocks
- 6 Diorite
- 7 Felitic Hypabyssal Rocks
- 8 Tonalite quartz-feldspar porphyry
- 9 Andesite porphyry
- 10 Quartz diorite
- 11 Metadiorite
- CLASTIC METASEDIMENTARY ROCKS
- 12 Mudstone
- 13 Chemical Metasedimentary Rocks
- 14 Gneiss Iron formation
- 15 Metasedimentary formation
- 16 Gneissic units
- FELTIC METAVOLCANIC ROCKS
- 17 Rhyolite flow
- 18 Rhyolite lapilli tuff
- 19 Rhyolite volcanic breccia
- 20 Metadiorite flow
- 21 Andesite flow
- 22 Andesite porphyry
- 23 Metadiorite flow
- 24 Massive fine-grained basalt
- 25 Pillowed basalt flow
- 26 Vesicular mafic flows
- 27 Mafic interflow sediment
- 28 Mafic tuff bed basalt
- 29 Mafic tuff bed basalt
- 10 Mesozoic Metavolcanic Rocks
- 11 Mesozoic Metavolcanic Rocks
- 12 Mesozoic Metavolcanic Rocks
- 13 Mesozoic Metavolcanic Rocks
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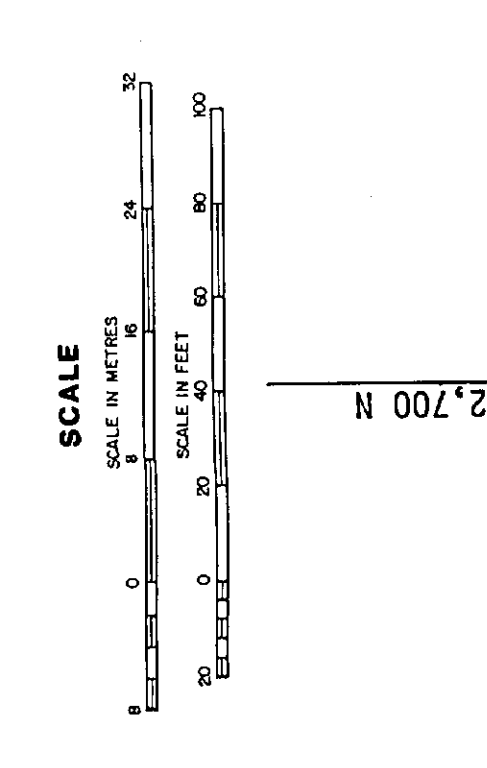




TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario

**DIAMOND DRILL HOLE
 CROSS - SECTION
 132+00 E**

SCALE: 1" = 40'
 DATE: September 94
 DRAWN BY: Locking West
 CHECKED BY: [Signature]



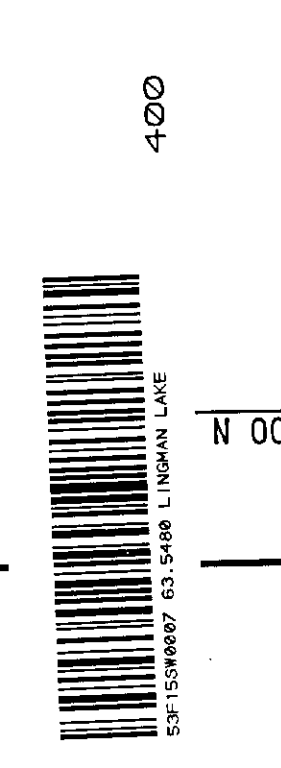
LEGEND

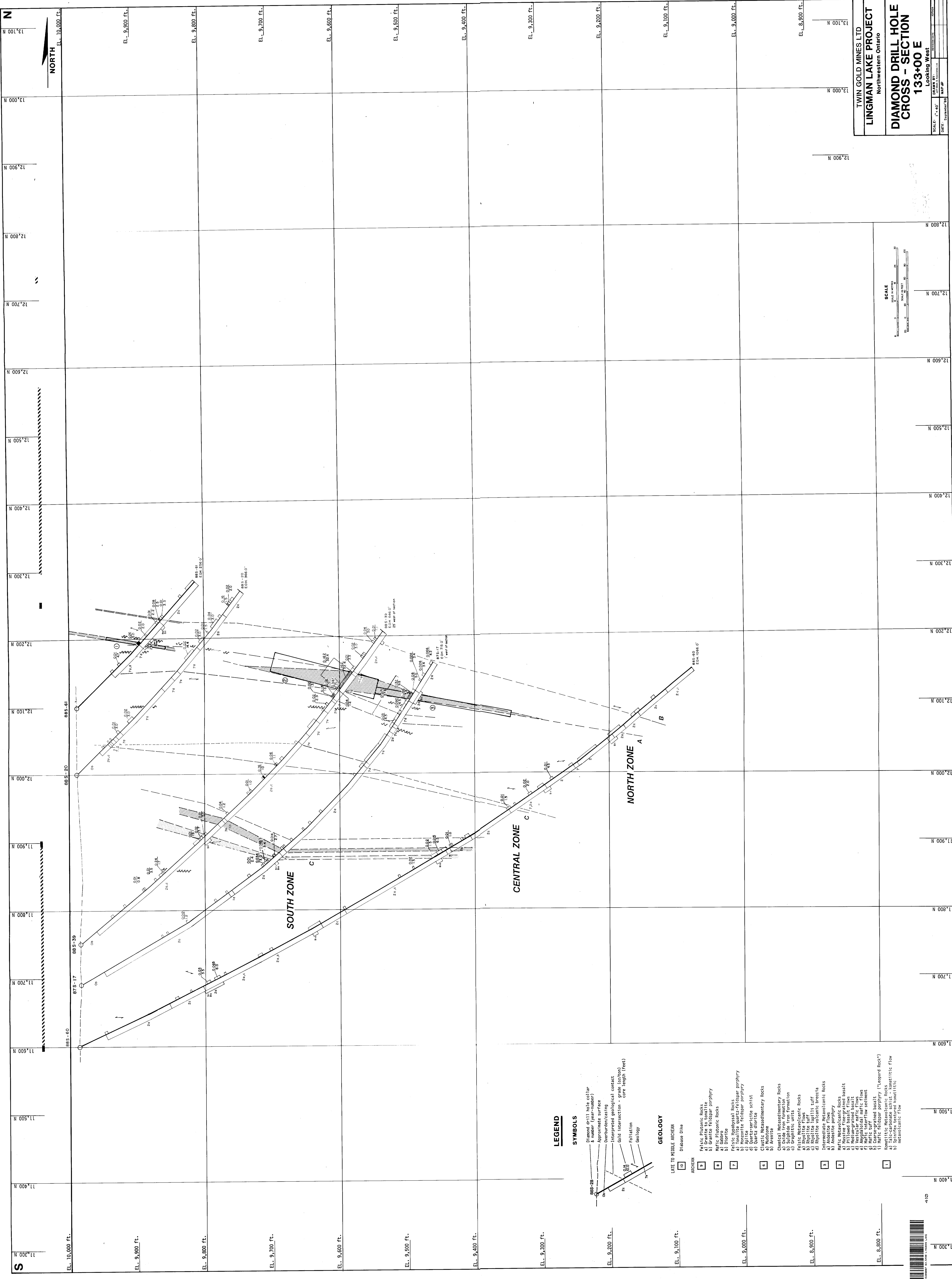
SYMBOLS

- 88S-28 Diamond drill hole collar
- 8 number (year-number)
- Approximate surface
- Intersected geological contact
- Solid intersection - grade (oz/ton)
- Foliation
- Geology

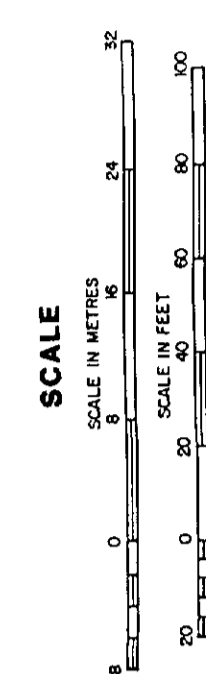
GEOLOGY

- LATE TO MIDDLE ARCHEAN
- 10 Gabbro Dike
- ARCHEAN
- 11 Felsic Plutonic Rocks
- a) Granite to tonalite
- b) Granite felspar porphyry
- c) Gabbro
- d) Basaltic rocks
- 12 Diorite
- Felsic Hypabyssal Rocks
- 13 Monzonite-felspar porphyry
- 14 Monzonite felspar porphyry
- 15 Quartz-sarcolite schist
- 16 Quartz diorite
- 17 Chlorite Mesosedimentary Rocks
- 18 Breccia
- 19 Chemical Metasedimentary Rocks
- a) Sphalerite formation
- b) Sphalerite units
- 20 Felsic Metavolcanic Rocks
- a) Rhyolite
- b) Rhyolite tuff
- c) Rhyolite tuff
- d) Rhyolite volcanic breccia
- 21 Intermediate Metavolcanic Rocks
- a) Andesite
- b) Andesite porphyry
- 22 Mafic Metavolcanic Rocks
- a) Massive fine-grained basalt
- b) Medium-grained basalt
- c) Medium-grained basalt
- d) Basaltic tuff
- e) Basaltic tuff
- f) Mafic interflow sediment
- 23 Coarse-grained basalt
- 1) Mafic felspar porphyry ("Legend Rock")
- 2) Spineliferous komatiitic
- 3) Spineliferous komatiitic
- 4) Spineliferous komatiitic





TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario
**DIAMOND DRILL HOLE
 CROSS - SECTION
 133-00 E**
 Looking West

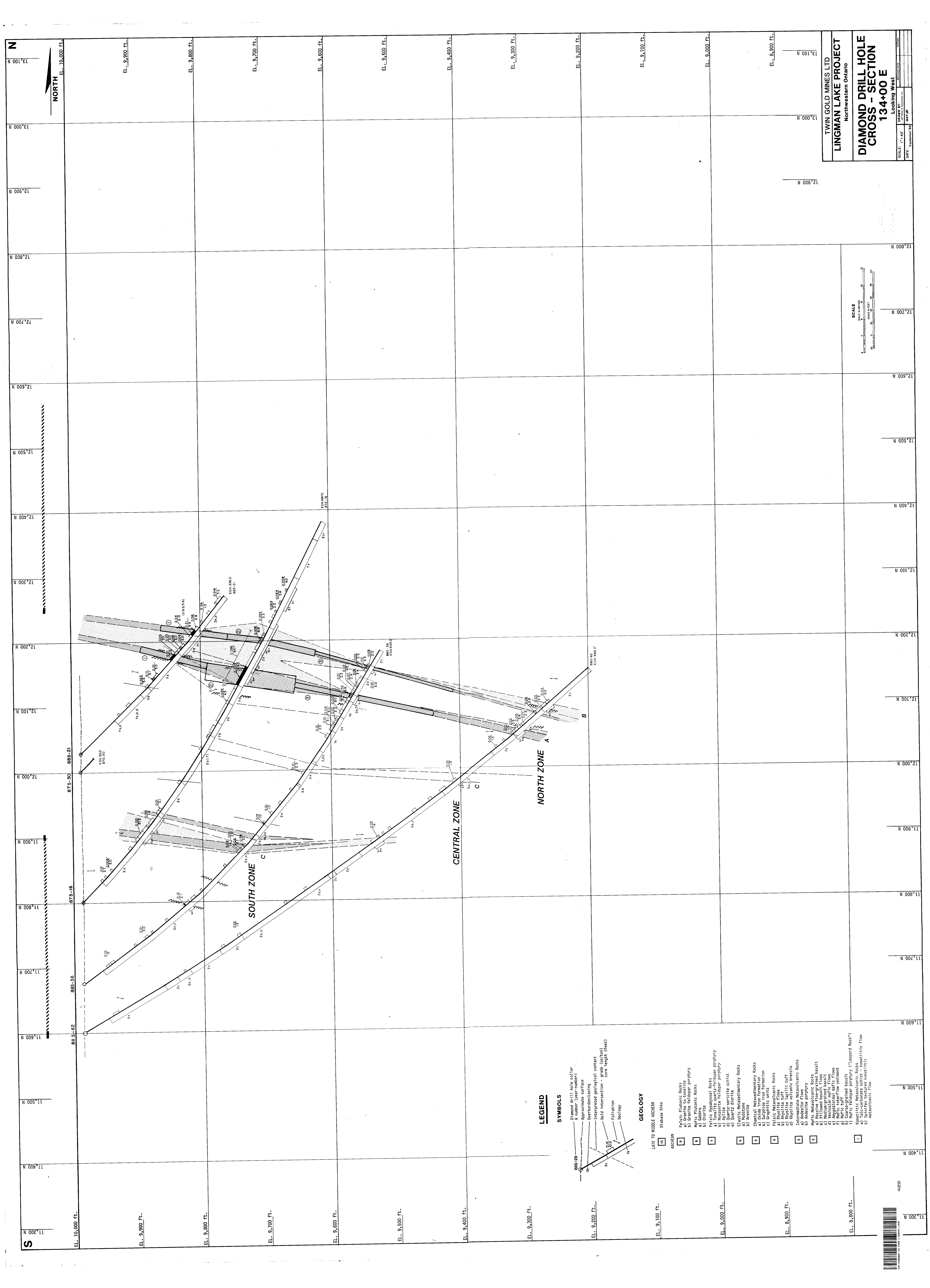


LEGEND

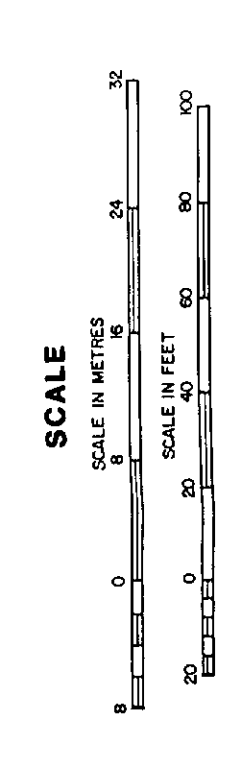
- SYMBOLS**
- Diamond drill hole (number)
 - Approximate surface
 - Overburden/casing
 - Interpreted geological contact
 - Gold intersection - grade (oz/ton)
 - Foliation
 - Geology

GEOLOGY

- LATE TO MIDDLE ARCHEAN
- Diabase Dike
- ARCHEAN
- 1 Felsic Plutonic Rocks
- 2 Granitic felsic porphyry
- 3 Mafic Plutonic Rocks
- 4 Gabro
- 5 Felsic hypabyssal Rocks
- 6 Tonalite quartz-feldspar porphyry
- 7 Quartz-schist schist
- 8 Chertic Metasedimentary Rocks
- 9 Arsenite
- 10 Metatone
- 11 Sulfide from formation
- 12 Rhyolite flows
- 13 Rhyolite tuff
- 14 Rhyolite breccia
- 15 Intermediate volcanic breccia
- 16 Andesite porphyry
- 17 Mafic Metavolcanic Rocks
- 18 Pyroxene basalt flows
- 19 Vesicular mafic flows
- 20 Aggregational mafic flows
- 21 Mafic tuff
- 22 Mafic tuff flow
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TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario
**DIAMOND DRILL HOLE
 CROSS - SECTION
 134+00 E**
 Looking West
 DRAWN BY: [Name]
 DATE: [Date]
 SCALE: 1" = 40'
 MAP # [Number]

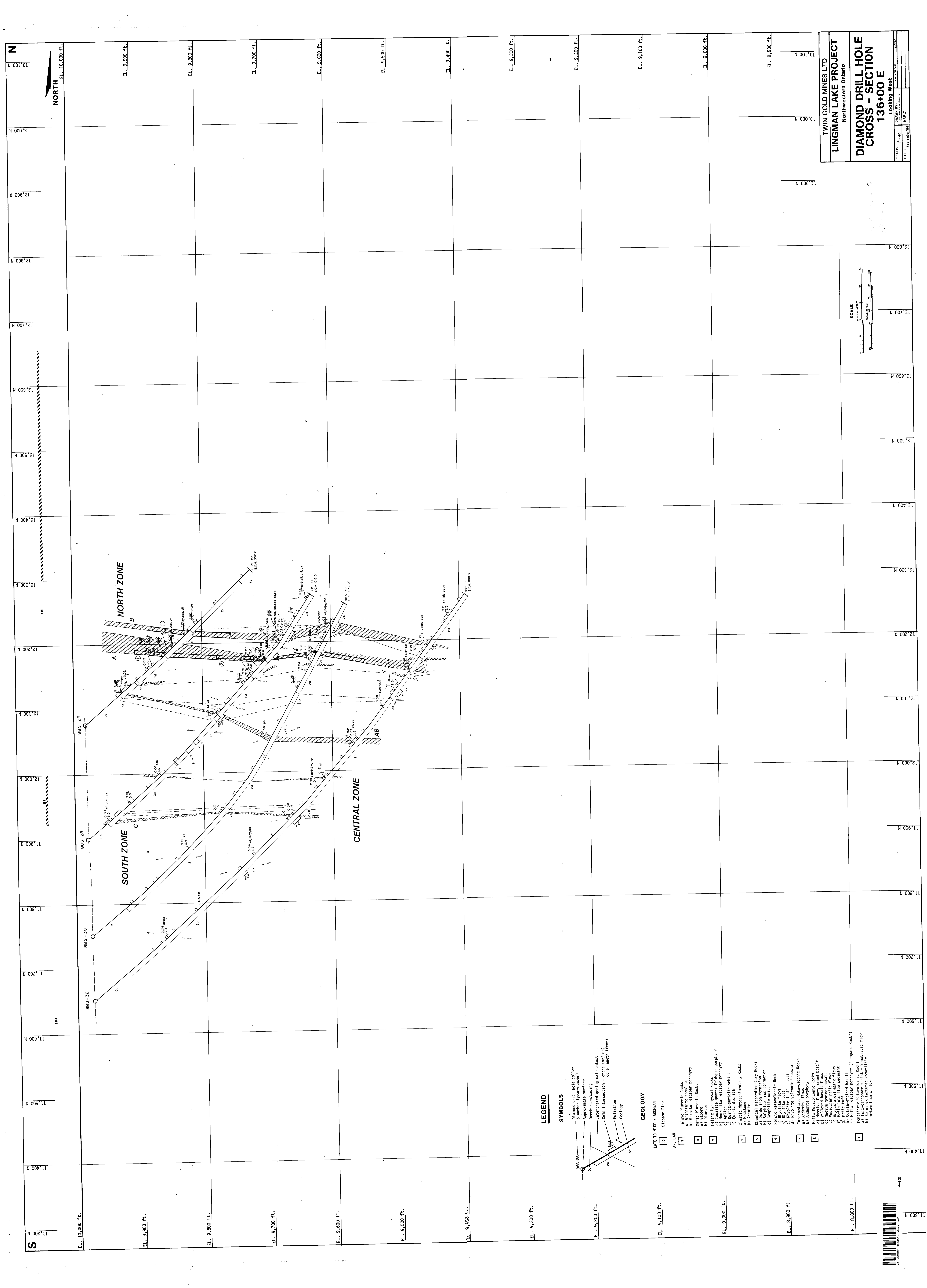


LEGEND

- SYMBOLS**
- 88S-28 Diamond drill hole collar
 - 8 number (year-number)
 - Approximate surface
 - Overburden/casing
 - Interpreted geological contact
 - Gold intersection - grade (oz/ton)
 - Foliation
 - Geology

GEOLOGY

- LATE TO MIDDLE ARCHEAN
 Diabase Dike
 ARCHEAN
- 1 Felitic Plutonic Rocks
 - 2 Metacarbonate rocks
 - 3 Metacarbonate rocks
 - 4 Metacarbonate rocks
 - 5 Metacarbonate rocks
 - 6 Metacarbonate rocks
 - 7 Metacarbonate rocks
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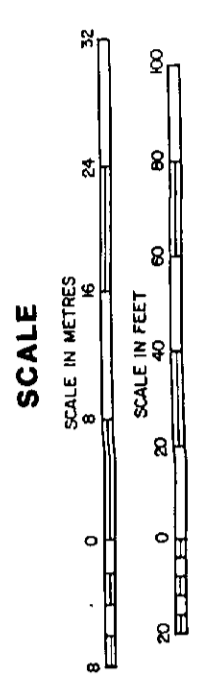


TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario

**DIAMOND DRILL HOLE
 CROSS - SECTION
 136-00 E**

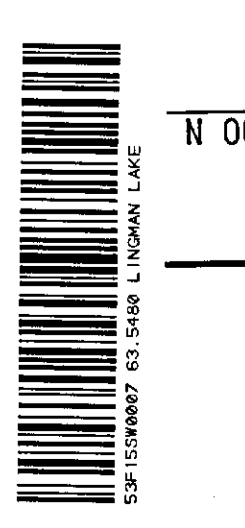
Looking West

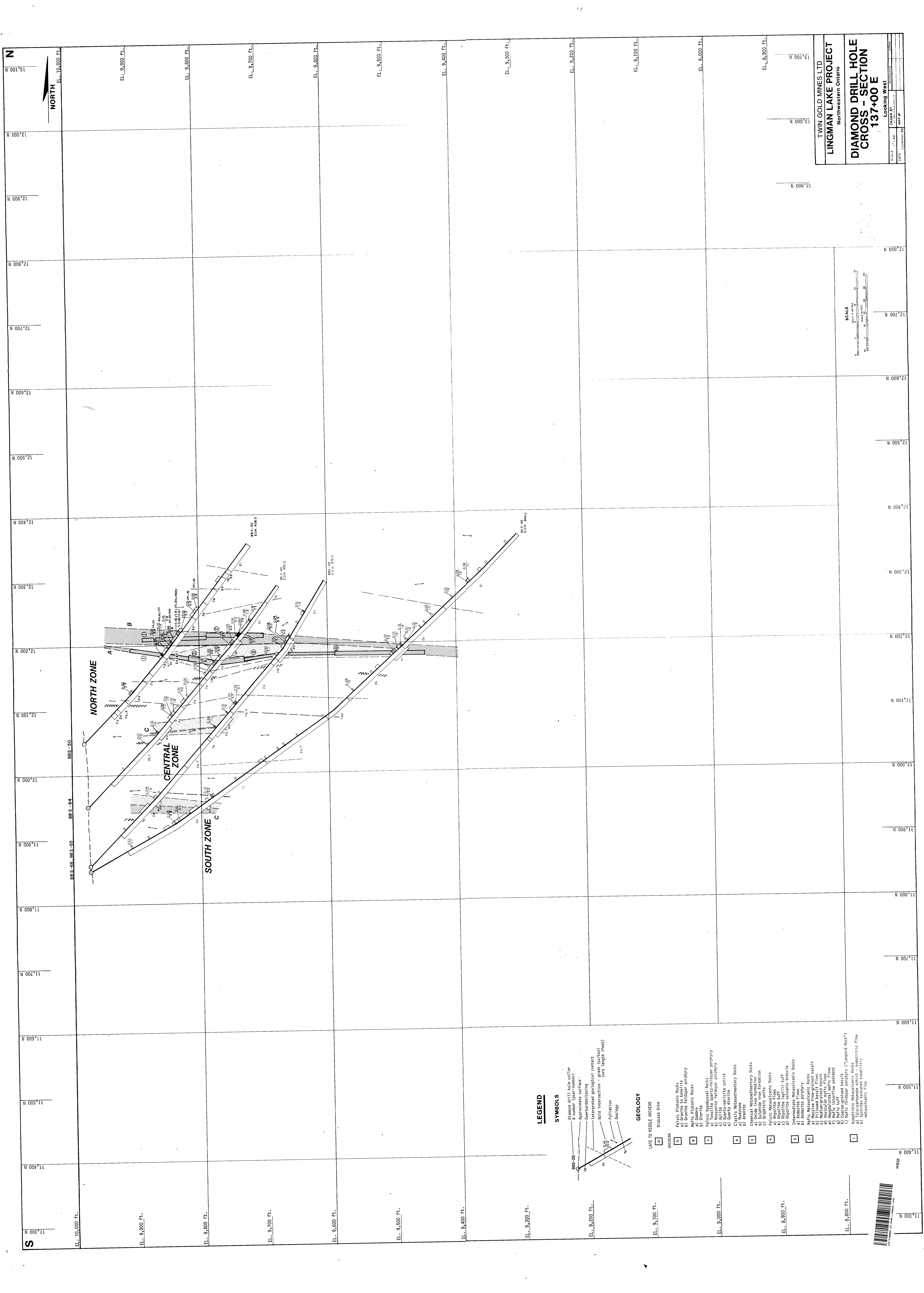
SCALE: 1" = 40'
 DATE: September, 1961
 DRAWN BY: [blank]
 MAP #:



LEGEND

- SYMBOLS**
- 88S-28 Diamond drill hole collar & number (year-number)
 - Approximate surface
 - Overconcentrating
 - Interpreted ground contact
 - Solid intersection - core length (feet)
 - Foliation
 - Geology
- GEOLOGY**
- LATE TO MIDDLE ANCIENT
 10 Diabase Dike
- PROGEN
 1 Felsic Plutonic Rocks
 2 Granite to tonalite
 3 Granite feldspar porphyry
 4 Monzonite feldspar porphyry
 5 Diorite
 6 Felsic hypabyssal rocks
 7 Monzonite feldspar porphyry
 8 Apatite-sericite schist
 9 Quartz diorite
 10 Quartz diorite
- Clastic Metasedimentary Rocks
 11 Arenite
 12 Arenite
- Chemical Metasedimentary Rocks
 13 Oxide iron formation
 14 Magnetite formation
 15 Graphitic units
- Felsic Metavolcanic Rocks
 16 Rhyolite tuff
 17 Rhyolite tuff
 18 Rhyolite tuff
 19 Intermediate Metavolcanic Rocks
 20 Andesite flow
 21 Andesite flow
 22 Andesite flow
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 50 Andesite flow
- Mafic Metavolcanic Rocks
 51 Massive fine-grained basalt
 52 Massive fine-grained basalt
 53 Medium-grained basalt
 54 Vesicular medium-grained basalt
 55 Mafic interflow sediment
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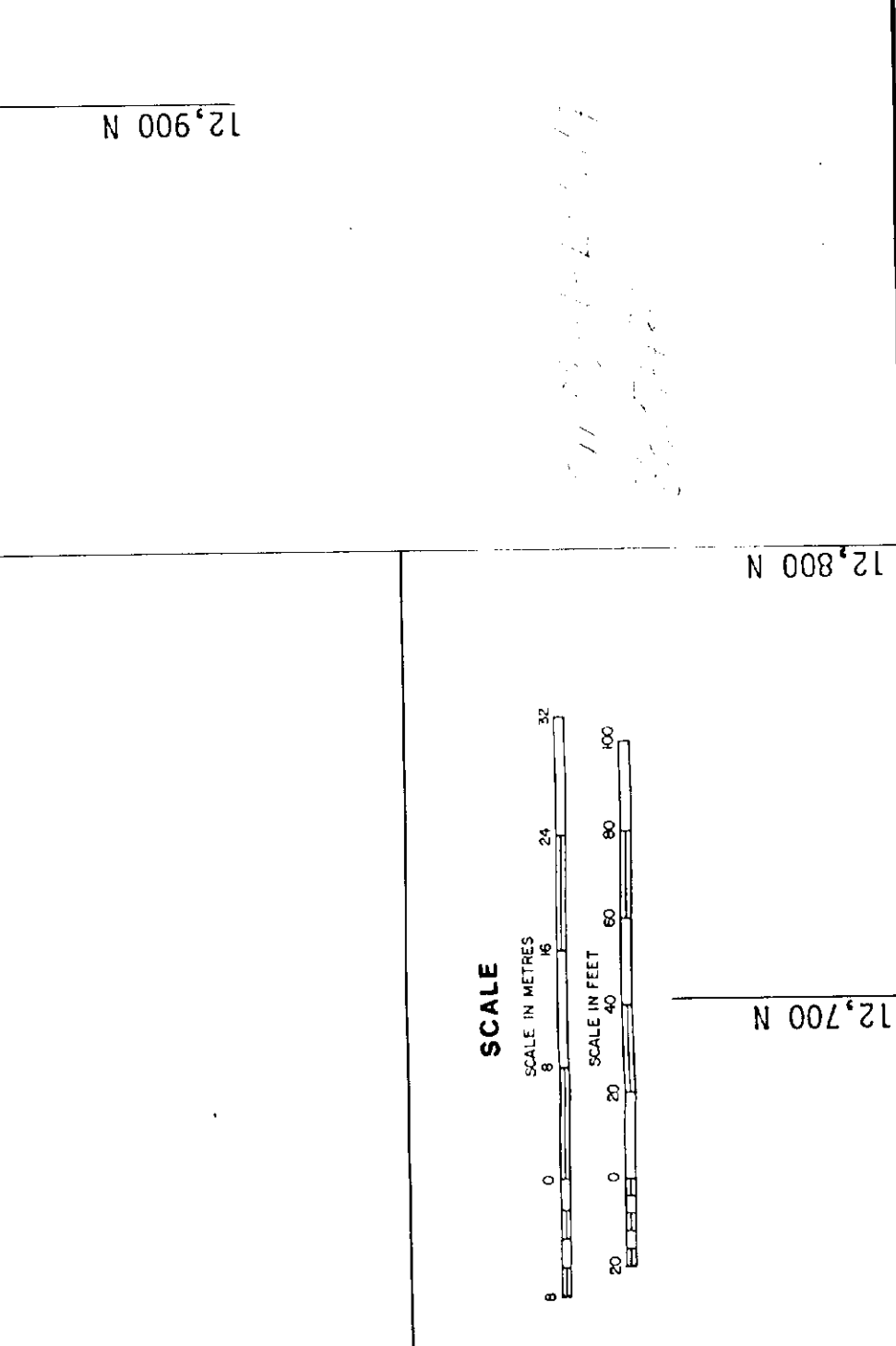




TWIN GOLD MINES LTD
LINGMAN LAKE PROJECT
Northwestern Ontario

**DIAMOND DRILL HOLE
CROSS - SECTION
137-00 E**

Looking West
DATE: 12/20/2013
DRAWN BY: [blank]
MNF #



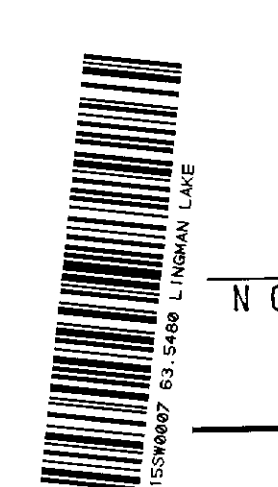
LEGEND

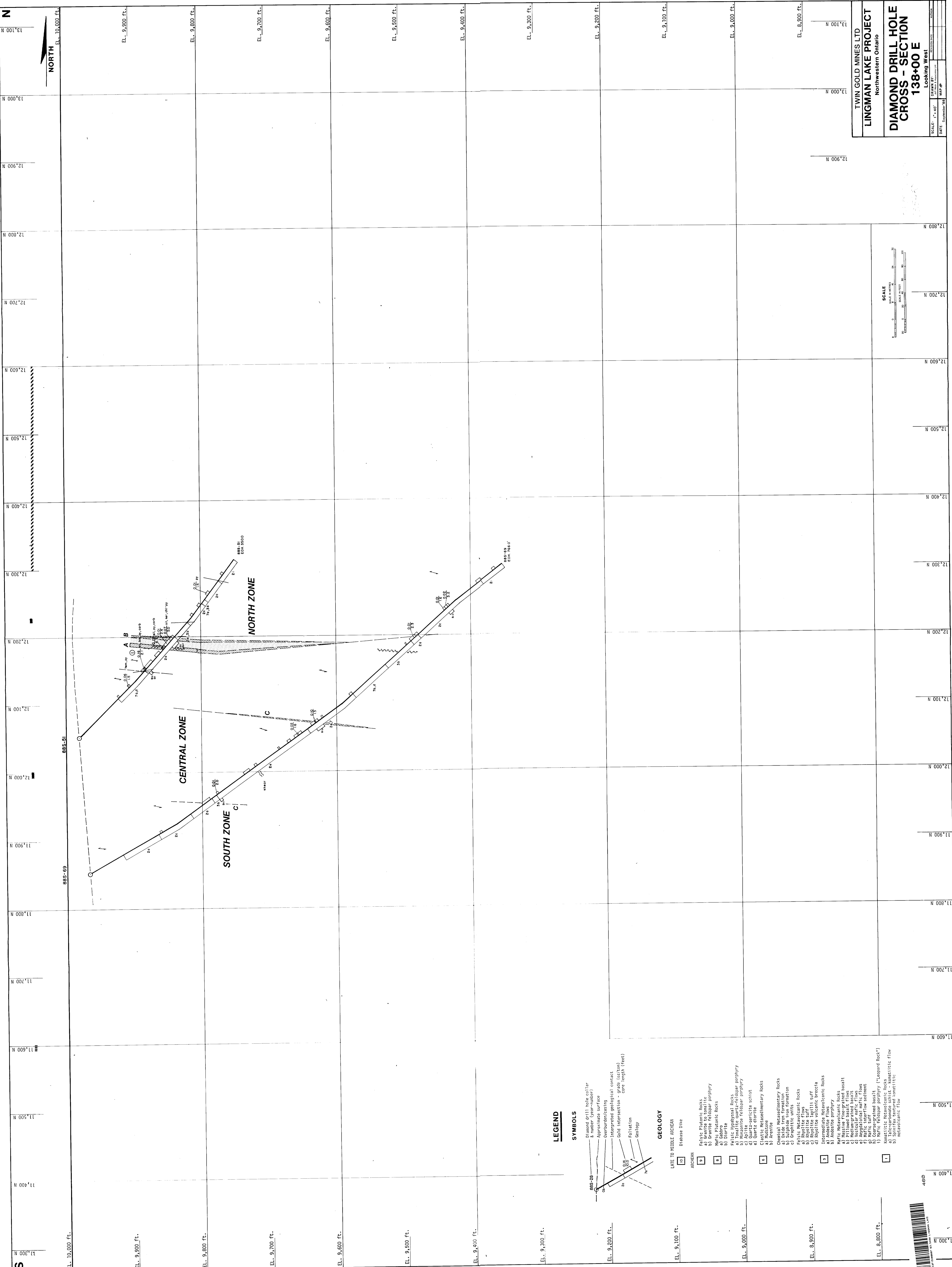
SYMBOLS

- 88S-20 Diamond drill hole collar
- 88S-20 Diamond drill hole casing
- 88S-20 Approximate surface
- 88S-20 Overburden/casing
- 88S-20 Interpreted geological contact
- 88S-20 G.M. intersection - grade (or/ton) core length (feet)
- 88S-20 Foliation
- 88S-20 Geology

GEOLOGY

- LATE TO MIDDLE ARCHEAN
- 10 Plutonic Dike
- ARCHAEN
- 9 Felsic Plutonic Rocks
- 8 a) Granite to tonalite
- 8 b) Granite porphyry
- 8 c) Aegirine-bearing rocks
- 8 d) Basaltic rocks
- 7 a) Diorite
- 7 b) Amphibolite
- 7 c) Amphibole quartz-feldspar porphyry
- 7 d) Amphibole quartz-feldspar porphyry
- 6 a) Monzonite
- 6 b) Anorthite
- 5 Chemical Metasedimentary Rocks
- 5 a) Sphagnum iron formation
- 5 b) Graphitic units
- 5 c) Metasedimentary Rocks
- 4 a) Rhyolite flows
- 4 b) Rhyolite tuff
- 4 c) Rhyolite breccia
- 4 d) Rhyolite volcanic breccia
- 3 Intermediate Metavolcanic Rocks
- 3 a) Andesite porphyry
- 2 a) Metavolcanic Rocks
- 2 b) Metasedimentary Rocks
- 2 c) Metasedimentary basalt
- 2 d) Metasedimentary basalt
- 2 e) Agglomerate mafic flows
- 2 f) Metasedimentary basalt
- 2 g) Metasedimentary basalt
- 2 h) Metasedimentary basalt
- 2 i) Metasedimentary basalt
- 1 a) Late-Cambrian schist - Keweenaw flow
- 1 b) Metavolcanic schist - Keweenaw flow
- 1 c) Metavolcanic schist - Keweenaw flow
- 1 d) Metavolcanic schist - Keweenaw flow
- 1 e) Metavolcanic schist - Keweenaw flow
- 1 f) Metavolcanic schist - Keweenaw flow
- 1 g) Metavolcanic schist - Keweenaw flow
- 1 h) Metavolcanic schist - Keweenaw flow
- 1 i) Metavolcanic schist - Keweenaw flow

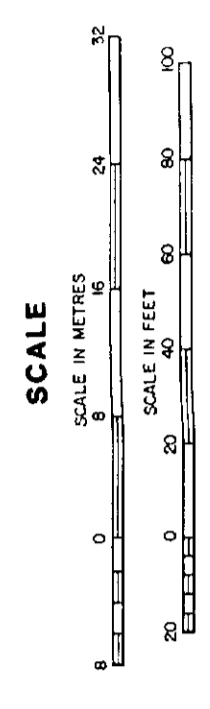




TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario

**DIAMOND DRILL HOLE
 CROSS - SECTION
 138+00 E**

Looking West
 DATE: 29 September 88
 DRAWN BY: J. W. H. / J. W. H.
 CHECKED BY: J. W. H. / J. W. H.
 SCALE: 1" = 40'
 SHEET NO. 4B20



LEGEND

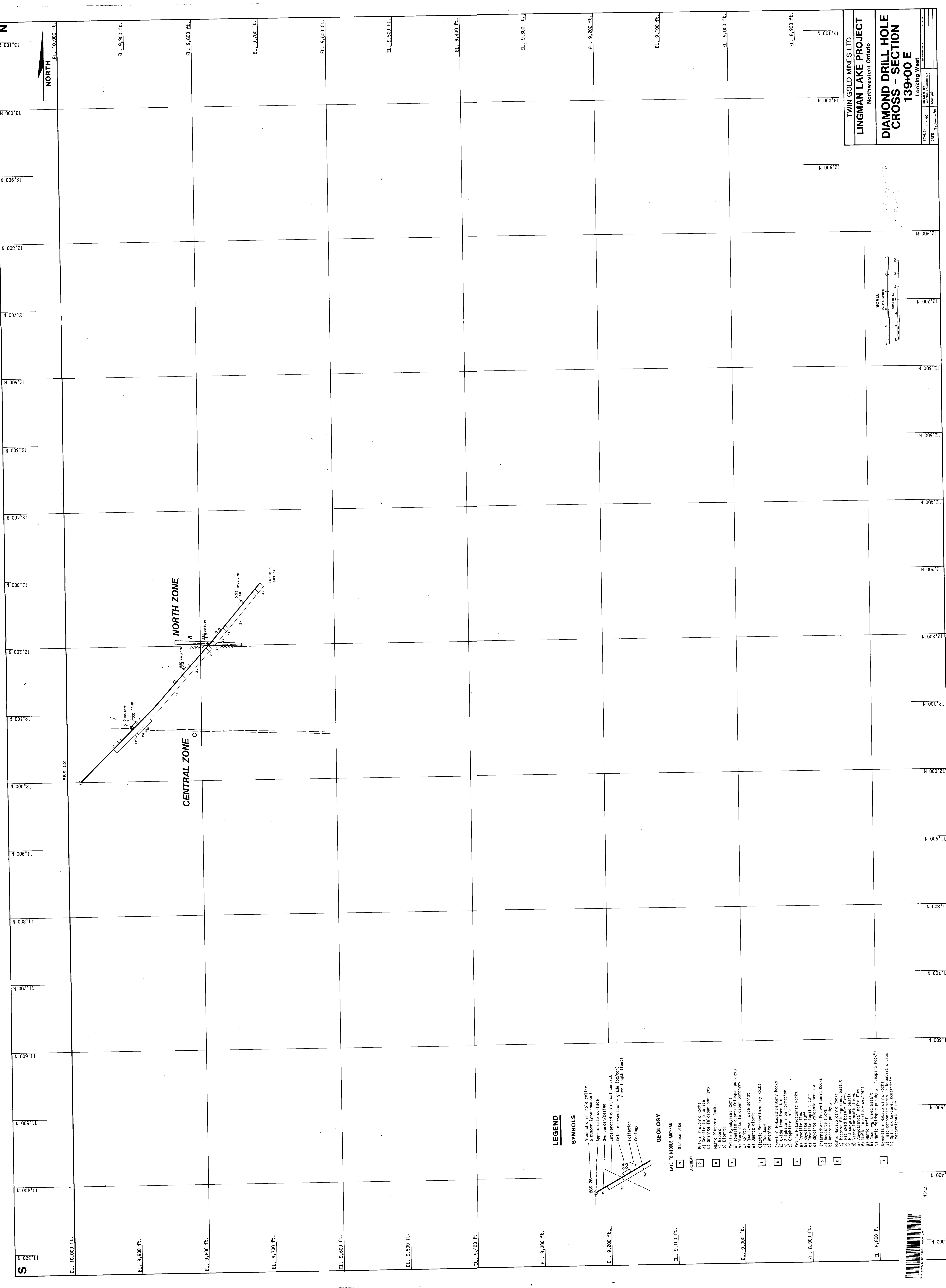
SYMBOLS

- 885-20 - Diamond drill hole collar
- 885-20 - Approximate surface
- 885-20 - Overburden/casing
- 885-20 - Interpreted geological contact
- 885-20 - Gold intersection - grade (oz/ton)
- 885-20 - Core length (feet)
- 885-20 - Fault
- 885-20 - Geology

GEOLOGY

- 1 - LATE TO MIDDLE ARCHEAN
 - 1a - Diabase Dike
- 2 - ARCHEAN
 - 2a - Felsic Plutonic Rocks
 - 2b - Granite to tonalite
 - 2c - Granite feldspar porphyry
 - 2d - Metasedimentary rocks
 - 2e - Gabbro
 - 2f - Diorite
- 3 - Proterozoic
 - 3a - Felsic hypabyssal rocks
 - 3b - Monzonite feldspar porphyry
 - 3c - Quartz-sericite schist
 - 3d - Quartz diorite
 - 3e - Archaean
- 4 - CLASTIC METASEDIMENTARY ROCKS
- 5 - CHEMICAL METASEDIMENTARY ROCKS
- 6 - FELSIC METAVOLCANIC ROCKS
 - 6a - Spinelite-bearing tuff
 - 6b - Spinelite tuff
 - 6c - Intermediate Metavolcanic Rocks
- 7 - ANDESITE PORPHYRY
- 8 - MASSIVE FINE-GRAINED BASALT
- 9 - METAFELSIC TUFF
- 10 - METAFELSIC TUFF
- 11 - METAFELSIC TUFF
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- 100 - METAFELSIC TUFF

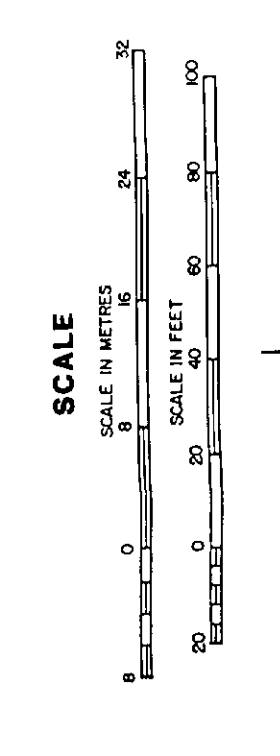




TWIN GOLD MINES LTD
 LINGMAN LAKE PROJECT
 Northwestern Ontario
**DIAMOND DRILL HOLE
 CROSS - SECTION**
 139+00 E

SCALE: 1" = 40'
 DATE: September 88

DRAWN BY: Looking West
 MAP #:



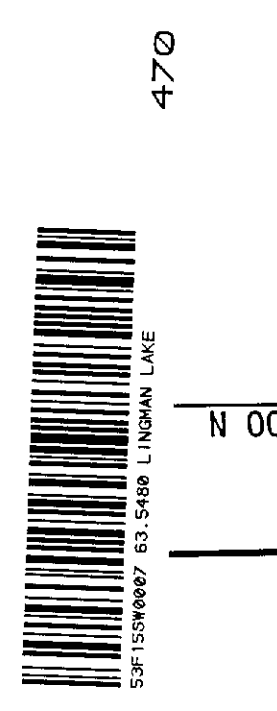
LEGEND

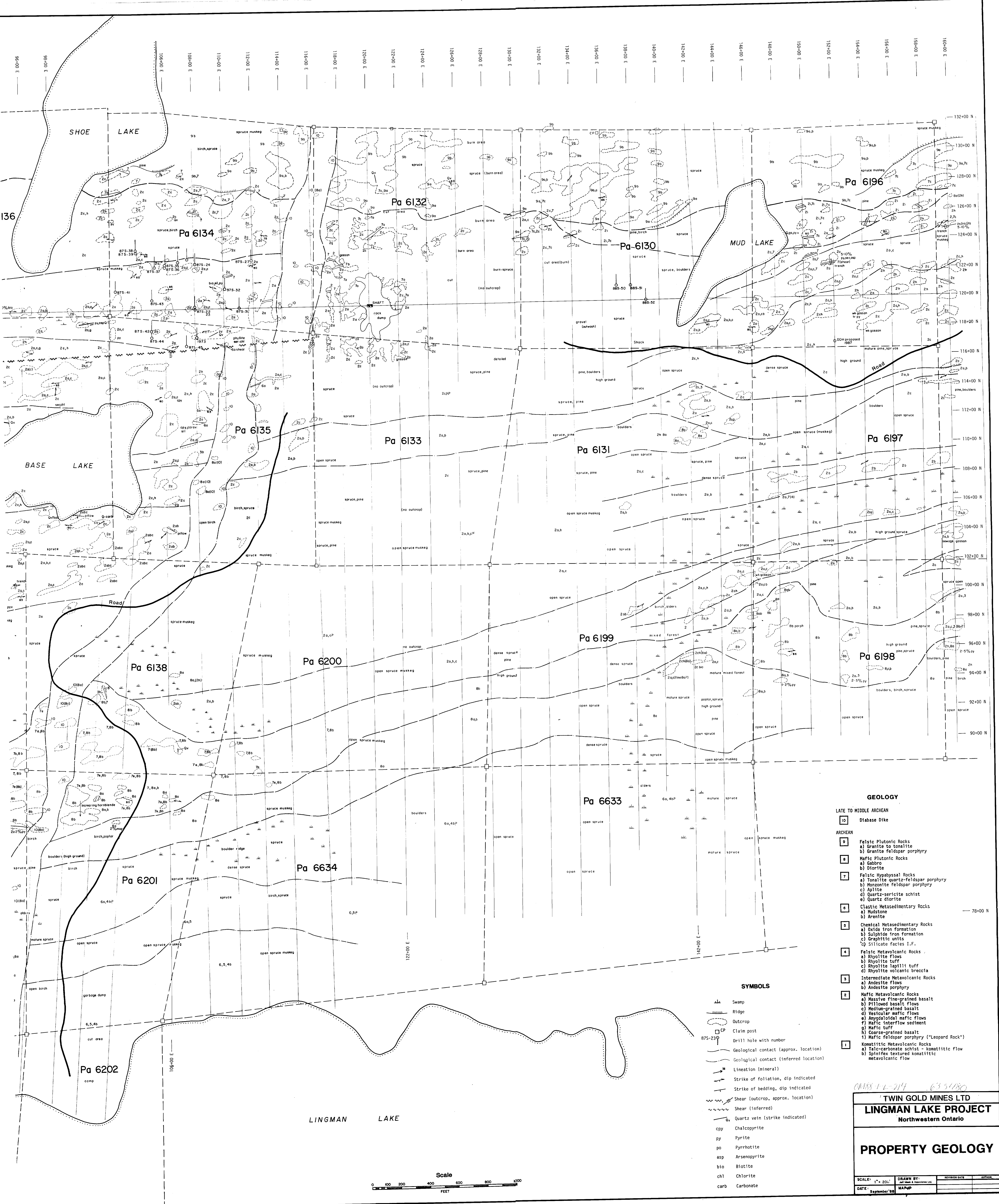
SYMBOLS

- 885-52 Diamond drill hole collar & number (year-number)
- Approximate surface
- Overburden/casting
- Interpreted geological contact
- Solid intersection - core length (feet)
- Foliation
- Geology

GEOLOGY

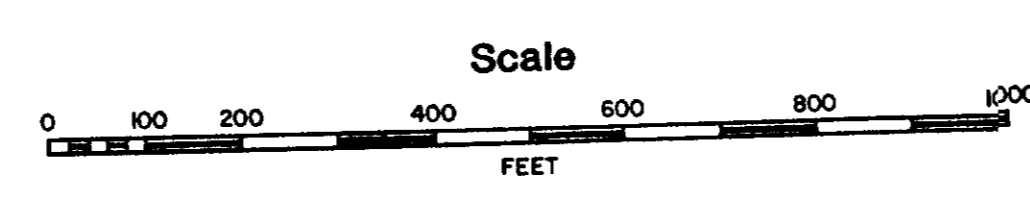
- LATE TO MIDDLE ARCHERON
- Diabase Dike
- ARCHERON
- 5 Felsic Plutonic Rocks
- 6 Granite feldspar porphyry
- 7 Mafic Plutonic rocks
- 8 Basalt
- 9 Felsic Hypabyssal Rocks
- a) Tonallite quartz-feldspar porphyry
- b) Quartz-diorite schist
- c) Granite feldspar porphyry
- d) Quartz-diorite schist
- 10 Classic Metasedimentary Rocks
- a) Mudstone
- b) Arenite
- 11 Metavolcanic Rocks
- a) Subvolcanic formation
- b) Subvolcanic formation
- c) Subvolcanic formation
- d) Subvolcanic formation
- e) Subvolcanic formation
- f) Subvolcanic formation
- 12 Intermediate Metavolcanic Rocks
- a) Rhyolite breccia
- b) Andesite porphyry
- 13 Mafic Metavolcanic Rocks
- a) Pillow basalt flows
- b) Pillow basalt flows
- c) Medium-grained basalt
- d) Andesite
- e) Andesite
- f) Andesite
- 14 Metavolcanic flow
- a) Metavolcanic flow
- b) Metavolcanic flow
- c) Metavolcanic flow
- d) Metavolcanic flow
- e) Metavolcanic flow
- f) Metavolcanic flow
- 15 Metavolcanic flow
- a) Metavolcanic flow
- b) Metavolcanic flow
- c) Metavolcanic flow
- d) Metavolcanic flow
- e) Metavolcanic flow
- f) Metavolcanic flow





- GEOLOGY**
- LATE TO MIDDLE ARCHEAN**
- 10 Diabase Dike
- ARCHEAN**
- 9 Felsic Plutonic Rocks
 - a) Granite to tonalite
 - b) Granite feldspar porphyry
 - 8 Mafic Plutonic Rocks
 - a) Gabbro
 - b) Diorite
 - 7 Felsic Hypabyssal Rocks
 - a) Tonalite quartz-feldspar porphyry
 - b) Monzonite feldspar porphyry
 - c) Aplite
 - d) Quartz-sericite schist
 - e) Quartz diorite
 - 6 Clastic Metasedimentary Rocks
 - a) Mudstone
 - b) Arenite
 - 5 Chemical Metasedimentary Rocks
 - a) Oxide iron formation
 - b) Sulphide iron formation
 - c) Graphitic units
 - d) Silicate facies I.F.
 - 4 Felsic Metavolcanic Rocks
 - a) Rhyolite flows
 - b) Rhyolite tuff
 - c) Rhyolite lapilli tuff
 - d) Rhyolite volcanic breccia
 - 3 Intermediate Metavolcanic Rocks
 - a) Andesite flows
 - b) Andesite porphyry
 - 2 Mafic Metavolcanic Rocks
 - a) Massive fine-grained basalt
 - b) Pillowed basalt flows
 - c) Medium-grained basalt
 - d) Vesicular mafic flows
 - e) Regional mafic flows
 - f) Mafic interflow sediment
 - g) Mafic tuff
 - h) Coarse-grained basalt
 - i) Mafic feldspar porphyry ("Leopard Rock")
 - 1 Komatiitic Metavolcanic Rocks
 - a) Talc-carbonate schist - komatiitic flow
 - b) Spinifex textured komatiitic metavolcanic flow

- SYMBOLS**
- Swamp
 - Ridge
 - Outcrop
 - Claim post
 - Drill hole with number
 - Geological contact (approx. location)
 - Geological contact (inferred location)
 - Lamination (mineral)
 - Strike of foliation, dip indicated
 - Strike of bedding, dip indicated
 - Shear (outcrop, approx. location)
 - Shear (inferred)
 - Quartz vein (strike indicated)
 - cpy Chalcopyrite
 - py Pyrite
 - po Pyrrhotite
 - asp Arsenopyrite
 - bio Biotite
 - chl Chlorite
 - carb Carbonate

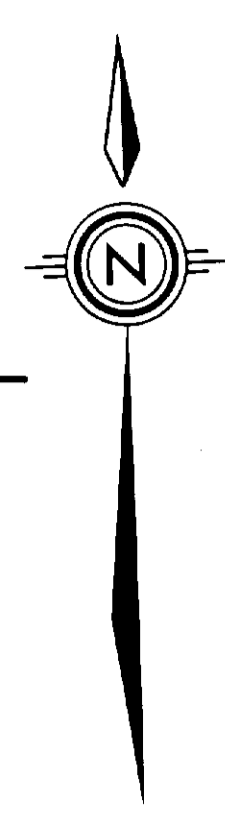
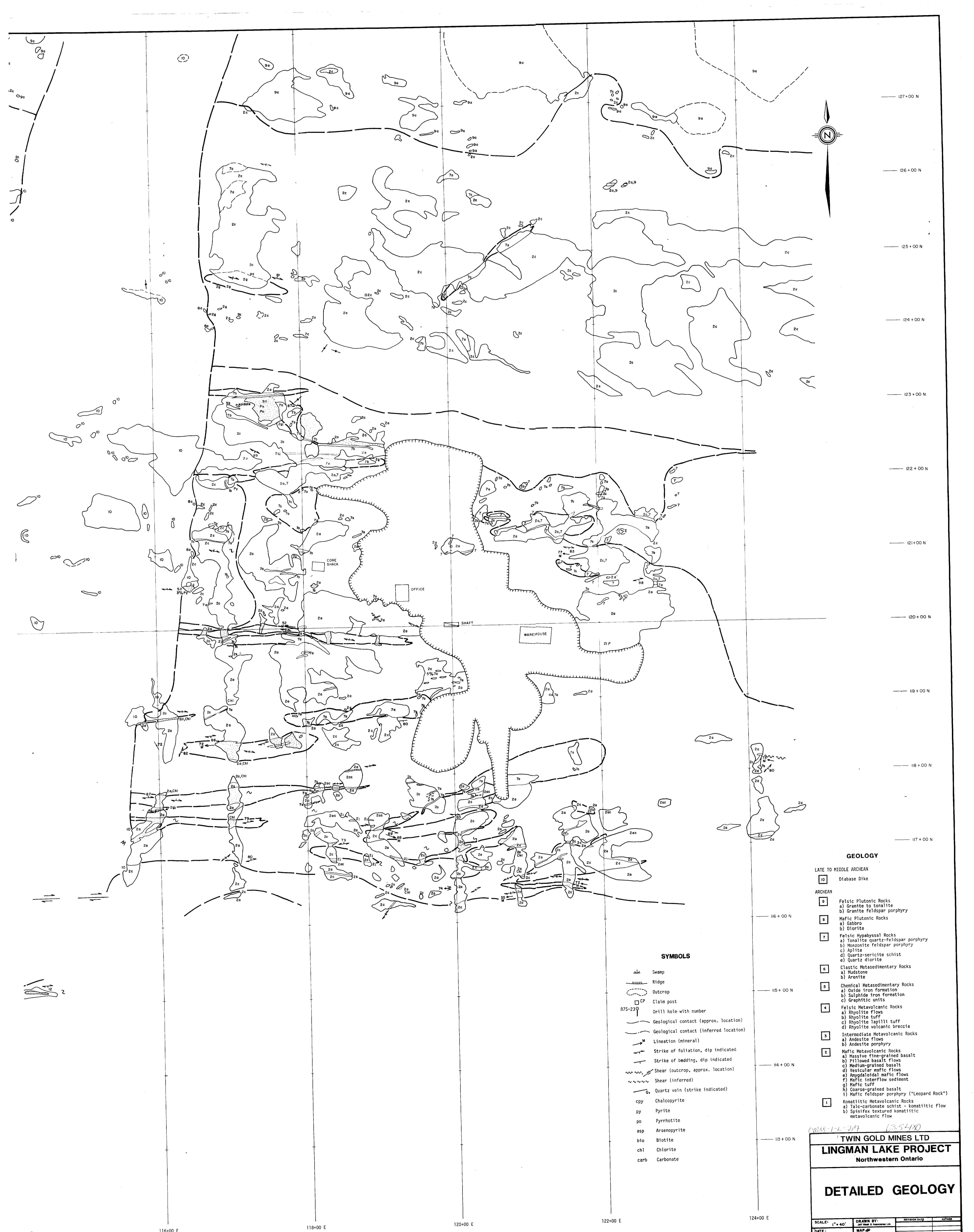


CRASS 1-1-217 635480

TWIN GOLD MINES LTD
LINGMAN LAKE PROJECT
Northwestern Ontario

PROPERTY GEOLOGY

SCALE: 1" = 200'
DATE: September '88
DRAWN BY: [Name]
REVISION DATE: [Date]
AUTHOR: [Name]



127+00 N
 126+00 N
 125+00 N
 124+00 N
 123+00 N
 122+00 N
 121+00 N
 120+00 N
 119+00 N
 118+00 N
 117+00 N

SYMBOLS

- Swamp
- Ridge
- Outcrop
- Claim post
- Drill hole with number
- Geological contact (approx. location)
- Geological contact (inferred location)
- Lineation (mineral)
- Strike of foliation, dip indicated
- Strike of bedding, dip indicated
- Shear (outcrop, approx. location)
- Shear (inferred)
- Quartz vein (strike indicated)
- cpy Chalcopyrite
- py Pyrite
- po Pyrrhotite
- asp Arsenopyrite
- bio Biotite
- chl Chlorite
- carb Carbonate

GEOLOGY

- LATE TO MIDDLE ARCHEAN
- 10 Diabase Dike
- ARCHEAN
- 9 Felsic Plutonic Rocks
 - a) Granite to tonalite
 - b) Granite feldspar porphyry
 - 8 Mafic Plutonic Rocks
 - a) Gabbro
 - b) Diorite
 - 7 Felsic Hypabyssal Rocks
 - a) Tonalite quartz-feldspar porphyry
 - b) Monzonite feldspar porphyry
 - c) Aplite
 - d) Quartz-sericite schist
 - e) Quartz diorite
 - 6 Clastic Metasedimentary Rocks
 - a) Mudstone
 - b) Arenite
 - 5 Chemical Metasedimentary Rocks
 - a) Oxide iron formation
 - b) Sulphide iron formation
 - c) Graphitic units
 - 4 Felsic Metavolcanic Rocks
 - a) Rhyolite flows
 - b) Rhyolite tuff
 - c) Rhyolite lapilli tuff
 - d) Rhyolite volcanic breccia
 - 3 Intermediate Metavolcanic Rocks
 - a) Andesite flows
 - b) Andesite porphyry
 - 2 Mafic Metavolcanic Rocks
 - a) Massive fine-grained basalt
 - b) Pillowed basalt flows
 - c) Medium-grained basalt
 - d) Vesticular mafic flows
 - e) Amygdaloidal mafic flows
 - f) Mafic interflow sediment
 - g) Mafic tuff
 - h) Coarse-grained basalt
 - i) Mafic feldspar porphyry ("Leopard Rock")
 - 1 Komatiitic Metavolcanic Rocks
 - a) Talc-carbonate schist - komatiitic flow
 - b) Spinifex textured komatiitic metavolcanic flow

01/28/08 13:54:10
TWIN GOLD MINES LTD
LINGMAN LAKE PROJECT
 Northwestern Ontario

DETAILED GEOLOGY

SCALE: 1" = 40'
 DATE: September '08
 DRAWN BY: [Name]
 REVISION DATE: [Date]
 MAP #: