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THE MIRADO GOLD MINE PROJECT
Report on Activities In Support of
OMEP Application OM86-G-P-101
By
Golden Shield Resources Ltd.
May 1987



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GOLDEN SHIELD RESOURCES
MIRADO MINE FEASIBILITY STUDY

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VOLUME I

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PART 1

INTRODUCTION

1.1

GENERAL

In August 1985 Golden Shield Resources Ltd. signed an option agreement with Mirado Nickel Mines Ltd. and Royado Mines Ltd. through which Golden Shield will acquire a 100% interest in Mirado's Cathroy-Larder gold property in the Larder Lake Mining Division of Ontario. This property covering 12 claims, with easy access to the mining infrastructure of the Kirkland Lake - Larder Lake area, offers Golden Shield the opportunity to develop a significant gold deposit to production.

The deposit has two separate areas of gold mineralization. The North Zones (A,B,C), the location of all previous production, consist of a series of quartz-carbonate-sulphide veins in narrow vertical structures. These veins have been found to have a relatively consistent vertical continuity from the surface through the 250 foot level to the 500 foot level. Although they are generally very narrow (from 3" to 5" in width), they could provide a limited tonnage to a future mining operation.

Of particular significance to this report are the South Zones (D,E,F,G) which have been the focus of the exploration activity over the past 30 years. During this period the South Zones have been drilled in five different directions in three or four different drill campaigns. The resulting collage of diamond drill data and complex geology, made correlation from one section to the next a most difficult task. A previous reserve estimate calculated by Baker and later modified by Segsworth, had been set at 435,000 tons grading 0.233 ounces per ton.

The surface and underground diamond drilling undertaken by Golden Shield Resources in 1985 and 1986 was designed to test the 1963 reserve estimates reported by Mirado. To date, the exploration and development programs of Golden Shield have confirmed the presence of a drill indicated 441,000 tons grading 0.34 ounces of gold per ton (as of November, 1986).

1.2 LOCATION AND ACCESS

The Mirado Mine Project is located along the common boundary of Catharine and McElroy townships in the District of Temiskaming, approximately 14 miles southeast of Kirkland Lake, Ontario (Figure 1-1). The property can be reached by paved and gravel roads via highways 66, 112 and 564 to the village of Boston Creek and then by a 6 mile all-weather gravel road. This provincial gravel road leads east to the Mirado Mine Road.

1.3 CLIMATE AND VEGETATION

The climate in the project area is typical of that found in many other locations in northern Ontario. Winter temperatures can be as low as -40°F warming up to 80° to 90°F during the summer months. Snow generally begins to accumulate in late November and disappears by mid April.

Topography on the property is generally subdued; relief does not exceed 100 feet. The area surrounding the site was logged in the past and is now mainly covered by second growth poplar.

1.4 GENERAL MINING HISTORY OF THE AREA

Exploration in the area started in the early 1900's with prospectors moving northward from the Cobalt camp. Boston Creek area was an active mining camp before the discovery of the famed Kirkland Lake gold deposits. The Boston Creek area once contained 5 producing properties plus numerous partially developed prospects. Production statistics for all past producers are listed in Table 1-1.

Table 1-1
Summary of Mining History

Property	Tons Milled	Ounces Gold	Ounces Silver	Ounces Recovered Grade	Years
Barry Hollinger	267,741	77,000	8,502	0.26 oz Au	1918-1946 (int)
Gold Hill	4,616	660	nil	0.14	1927-1928
Miller Independence	31	59	70	1.89	1918
New Telluride	104	62	50	-	1931-1932
Cathroy Larder (Mirado)	22,250	3,227	993	0.15	1941-1944
int. - intermittent					

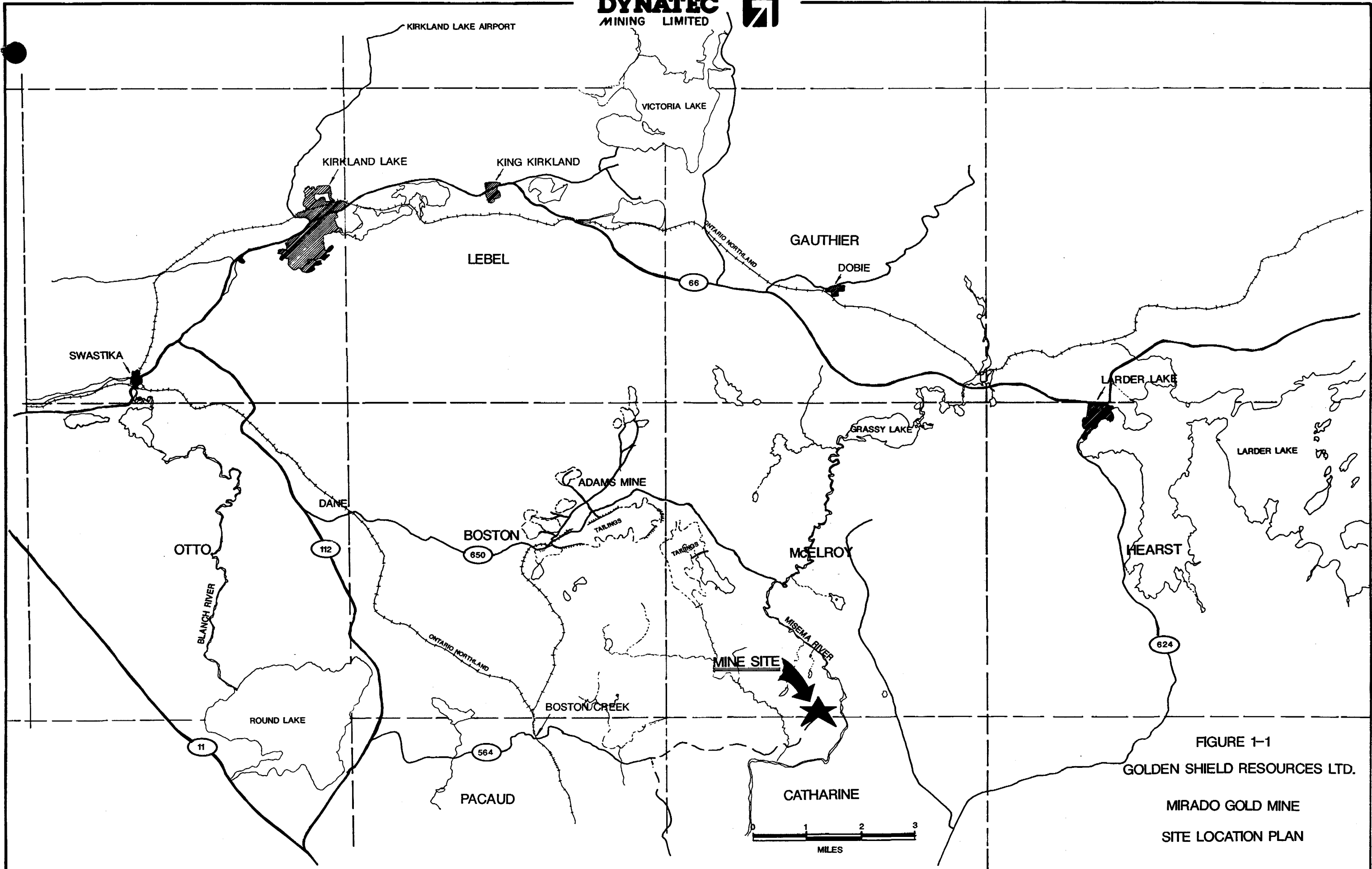


FIGURE 1-1
GOLDEN SHIELD RESOURCES LTD.
MIRADO GOLD MINE
SITE LOCATION PLAN

1.5 PROPERTY HISTORY1.5.1 FROM 1937 TO 1943

Yama Gold Mines Limited held the property and after an initial surface drilling program sank a 3 compartment shaft and established 4 levels on 125 feet centres. For a 15 month period the company operated a small 50 to 75 ton per day mill with mill feed coming from the North Zone. Yama recovered 3,227 ounces of gold and 976 ounces of silver from 22,250 tons of ore for a recovered grade of 0.15 ounces per ton. The war time effort severely curtailed production with the rationing of steel and explosives.

1.5.2 FROM 1943 TO 1960

Cathroy Larder Mines Ltd. took over Yama Gold Mines and concentrated on an area southwest of the shaft where a second gold bearing zone was outlined by diamond drilling in 1945. Exploration drives were put out to the south of the shaft on the 250 and 500 foot levels. All work was suspended in August 1948 when the full effects of the Bretton Woods Agreement (fixing gold at U.S. \$35) and rising production costs made gold mining uneconomic.

Figures 1-3 to 1-12 show previously confidential information obtained from Cathroy Larder Mines indicating their geological interpretations and sampling programs on the 125, 250, 375 and 500 levels.

1.5.3 FROM 1960 TO 1963

Mirado Nickel Mines optioned the property from Cathroy Larder mines in December 1960 and proceeded to rehabilitate the underground workings. There was a considerable amount of surface and underground drilling but no additional drifting or cross cutting was carried out. During the latter part of this period Broulan Reef Mines optioned the property and carried out approximately 5,125 feet of surface diamond drilling in the area of the South Zone.

1.5.4 FROM 1963 TO 1983

Interest in the property was expressed in 1974 by Kirk Elm Gold Mines which prepared a study that proposed an underground investigation by decline ramp. However, this program was never implemented and the property remained idle until 1980 when it was optioned to AMAX Explorations of Canada.

AMAX carried out an extensive surface exploration program consisting of geological mapping, geophysical surveys, surface diamond drilling and surface trenching. During the term of the option the price of gold dropped from over U.S. \$700 per ounce to U.S. \$300 per ounce. AMAX did not attempt an underground evaluation.

Table 1-2 presents a summary of the total development work and diamond drilling carried out on the Mirado property to date.

Table 1-2

Summary of Exploration and Underground Development
on the Mirado Gold Mine

Year	Description			
1915	Property originally staked			
1918-1933	Unspecified amount of surface exploration			
<u>Underground Development (feet)</u>				
1938-1948	Yama Gold Mines Shaft to 540 feet			
	<u>Level</u>	<u>Drifting</u>	<u>X-Cutting</u>	<u>Raise</u>
	125		240	
	250	2465	1440	
	375	920	570	
	<u>500</u>	<u>2520</u>	<u>1225</u>	<u>720</u>
Sub-Total		<u>5905</u>	+ <u>3475</u>	+ <u>720</u> = 10,100
1986	250	746	496	58 = <u>1,300(1)</u>
Total				<u>11,400</u>
<u>Diamond Drilling (feet)</u>				
	<u>Surface</u>		<u>Underground</u>	<u>Total</u>
1938-1948	17,000		15,400	32,400
1960-1963	23,065		14,843	37,908
1963	5,373			5,373
1980	30,241			30,241
1985	4,999			4,999
(2) 1986	22,278		9,468	31,746
Total	<u>102,965</u>		<u>39,899</u>	<u>142,865</u>

(1) As of October 1, 1986

(2) As of July 31, 1986

1.6 CURRENT EXPLORATION AND DEVELOPMENT PROGRAM1.6.1 PROJECT CONCEPT

The main objectives of the work program carried out to date by Golden Shield Resources were as follows:

- (1) To verify the existence of significant gold mineralization and substantiate the 1964 mineral inventory calculation of J. Baker (400,000 tons grading 0.23 ozs. gold per ton).
- (2) To explore and delineate the known gold bearing structures from surface to the 4th Level (500 ft. below surface) of the mine in order to develop additional tonnage.
- (3) To demonstrate the potential of other indicated gold zones on the property.

1.6.2 WORK PROGRAM

Work commenced on the property in October, 1985 when a surface diamond drilling program totalling 4,999 feet was carried out (previsously reported to OMEP). The results of this work confirmed the indicated grade and continuity of the gold mineralization and suggested that the previous reserve estimations were reasonable.

An underground exploration program was deemed to be warranted. In January, 1986, Dynatec Mining Limited mobilized to the site. The shaft collar was cleaned of debris (the headframe burned down in 1975) and a 140 HP pump was used to carry out the mine dewatering. The dewatering process commenced on January 15th, 1986 and was completed on March 10, 1986.

Subsequently the shaft was rehabilitated and a temporary head frame plus a single drum Canadian Ingersoll Rand, SE-2 hoist was installed. The underground workings were inspected and found to be in good repair. Preparations were made for the remainder of the exploration program.

A total of 9,887 feet of underground drilling was carried out from the beginning of April to the end of December of 1986 on both the 250 and 500 foot levels. The purpose of this drilling was to give better definition to and further explore the D,E,F,G zones in the south area of the mine. In addition, 2175 feet of drifting, raising and sublevelling were carried out from June to December, 1986.

Sampling of potential gold bearing structures was carried out prior to and sometimes concurrent with the drifting described herein. Sampling of muck from each drift round along with test holes on the flanks of each drift round were routinely carried out. Further, a sample of the blasthole cuttings that collected at the toe of each new face were collected and assayed.

This information is presented on Figures 1-3 to 1-11.

Concurrent with the underground development a 22,044 feet surface drilling program was carried out to extend and explore the known gold zones and to evaluate the near surface (open pit) potential in two areas (D zone and F zone).

Details of the 1986 surface and underground diamond programs are presented in a separate Volume entitled "Report on 1986 Diamond Drilling".

1.6.3 EXPLORATION POTENTIAL

The exploration potential of the Mirado Mine property is considered good in that there are indications of other gold bearing zones that require additional diamond drilling and perhaps development work. Figure 1-2 is a plan of the pre-1980 surface diamond drilling. It shows diamond drill hole intercepts to the west and northwest of the existing mine work that have yet to be fully investigated.

The A and B zones are present on the 250, 375 and 500 foot levels of the mine. Their presence below the level is inferred from geological projection and diamond drilling. Although there has been no drilling below the A-zone, a limited amount of drilling below the B-zone indicates the downward continuation of an ore shoot in excess of 100 feet in length. Neither of these structures have been tested to depth nor along strike, and presently remain open.

The D-zone has been intensively investigated in the vicinity of the present mine openings. This zone has a steep northerly plunge and remains open along strike to the south. Further closely-spaced drill holes will be required to trace this structure in detail along strike, and down plunge.

The E-zone has been traced from the 500 foot level to the 250 foot level by a raise. This narrow, high-grade zone, though structurally complex, can be traced along strike and up and down dip by closely spaced drill holes from surface and underground drilling. The E-zone is open along strike and at depth and requires further investigation.

The F-zone has been traced for a strike length of 600 feet and down dip from surface to at least 400 feet. Surface exploration drilling carried out at the southern extremity of the structure has revealed the presence of visible gold in altered volcanic rocks correlated with the F-zone.

Indications to date are that the G-zone is a narrow structure. It has been traced by drilling for a length of 250 feet along strike and up and down dip for 150 feet. This zone is considered to be open in all directions and will require closely spaced drilling on an on-going basis to develop additional reserves.

There are numerous indications that other potential exploitable gold bearing structures are present on the property. These exploration targets are located 150 to 200 feet to the east of the D-zone as indicated by the following drill holes: (Refer to Figure 1-2)

- (1) Drill hole 1050-01-50 grading approximately 0.80 ounces of gold per ton over 10 feet, (not shown on Figure 1-2)
- (2) Drill hole V-29 grading 0.96 ounces of gold per ton over 5 feet,
- (3) Drill hole 49 grading 0.29 ounces of gold per ton over 10 feet.

Further, drill hole information exists to the west of the F-zone suggesting that there are potentially three or more gold bearing structures yet to be fully defined. These zones are indicated by the following drill hole data:

- (1) Drill hole 121 grading 0.30 ounces of gold per ton over 4.3 feet and drill hole 54 grading 0.34 ounces of gold per ton over 13.0 feet,

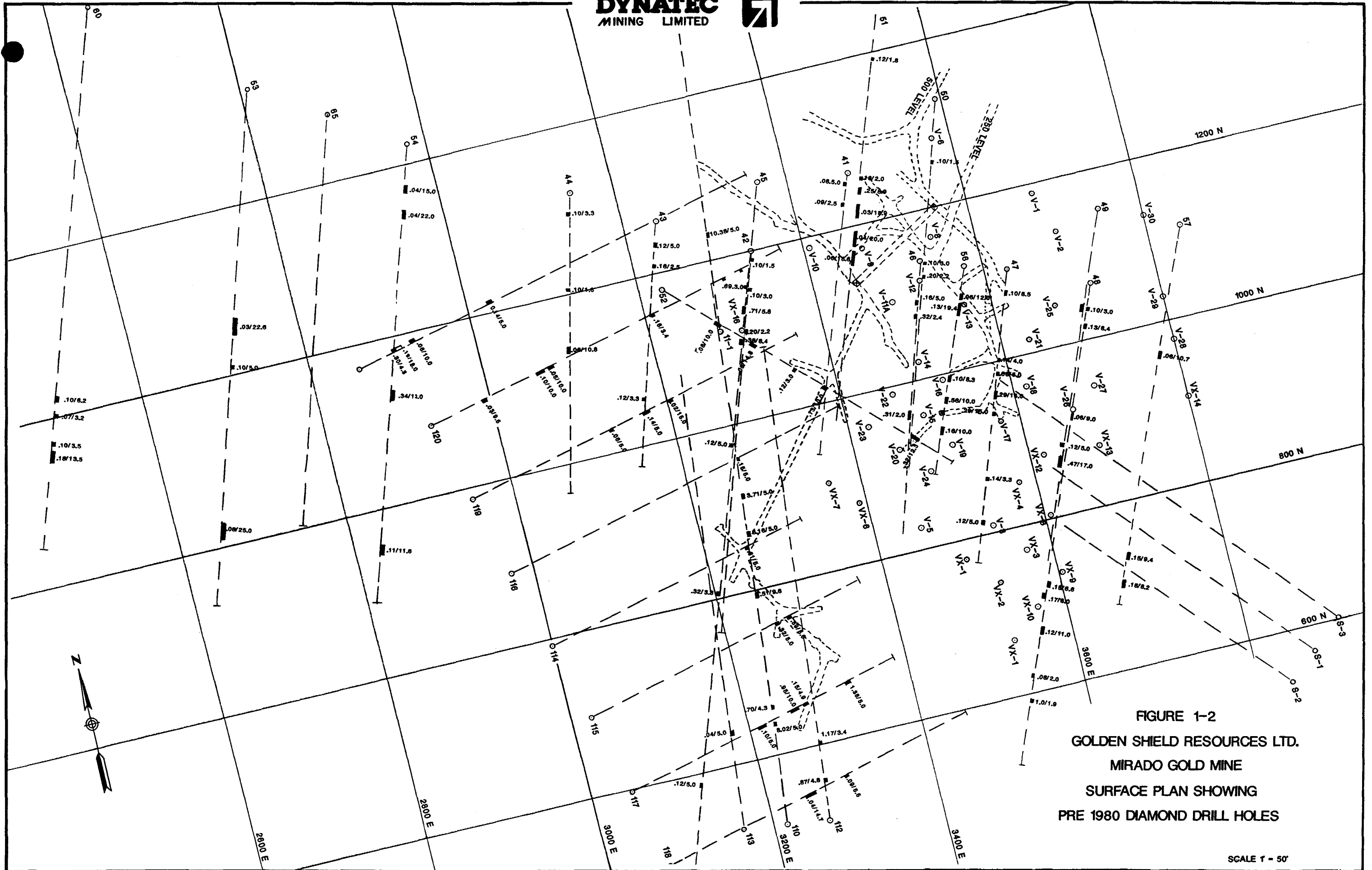


FIGURE 1-2
GOLDEN SHIELD RESOURCES LTD.
MIRADO GOLD MINE
SURFACE PLAN SHOWING
PRE 1980 DIAMOND DRILL HOLES

- (2) Drill hole 53 grading 0.08 ounces of gold per ton over 25.0 feet,
- (3) Drill hole 60 grading 0.18 ounces of gold per ton over 13.5 feet.

PART 2

PROPERTY

2.1

PROPERTY DESCRIPTION

The property (Figure 2-1) consists of 12 contiguous patented mining claims, one adjacent unpatented mining claim plus 13 optioned leased claims. Details and status of these claims are shown in Table 2-1. Work carried out on the unpatented claim is sufficient to maintain this claim in good standing for a period of 5 years, after which time it can be brought to lease.

Table 2-1
Description of the Property

Township	Claim No.	Acres	Types	Status
Catharine	L 24960	40.00	patented	IGS
	L 24961	40.00	patented	IGS
	L 34750	40.00	patented	IGS
	L 34751	40.00	patented	IGS
McElroy	L 26272	38.14	patented	IGS
	L 26273	46.18	patented	IGS
	L 27303*	26.50	patented	IGS
	L 31238	26.35	patented	IGS
	L 31257	37.54	patented	IGS
	L 31749	29.75	patented	IGS
	L 31377	35.69	patented	IGS
	L 31378	32.37	patented	IGS
	L 842560**		unpatented	IGS
Total		432.52		

*3.3 Acres of
Claim 27303 is
covered by
occupation
number 1265

**enough work
for 5 years

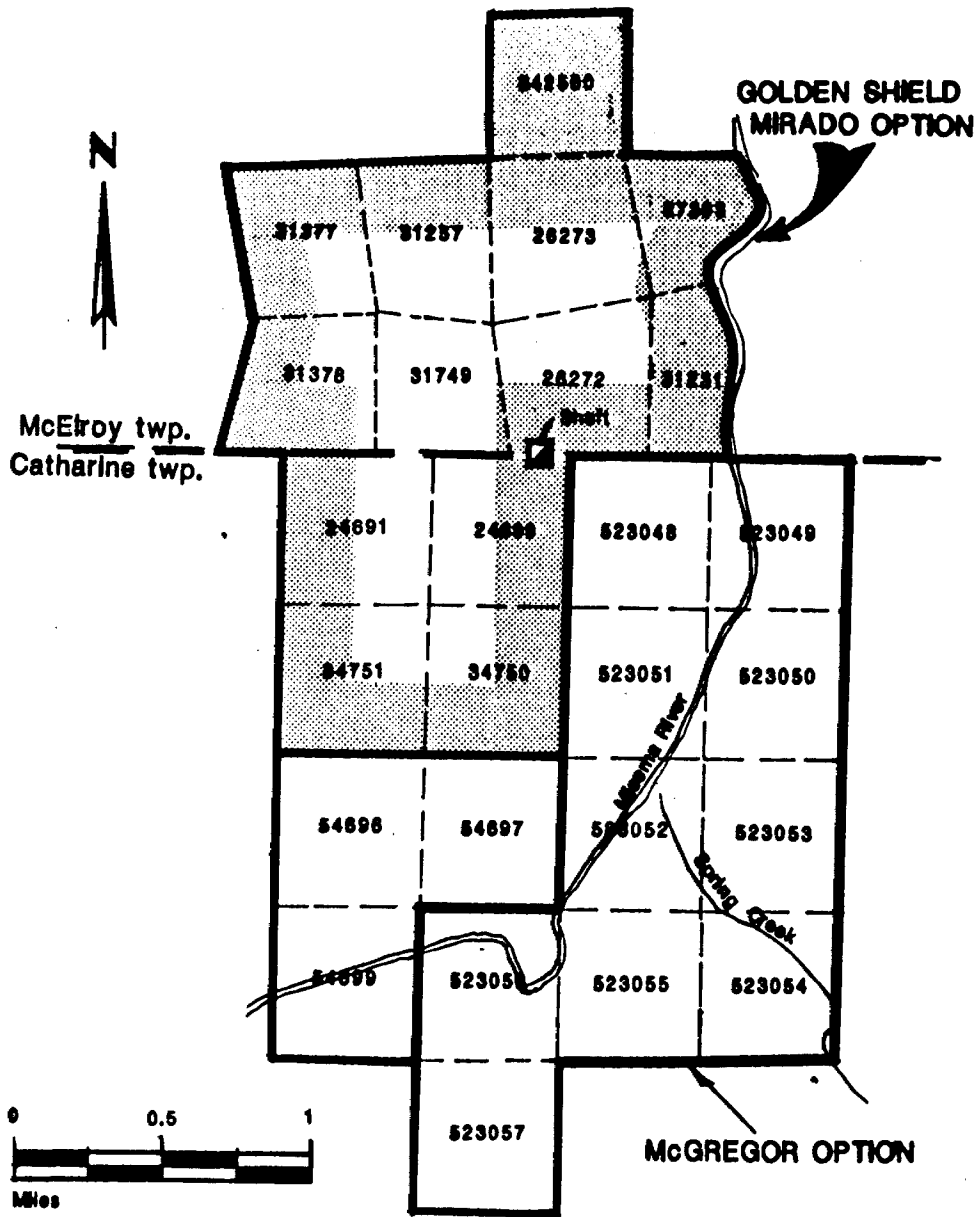


Figure 2-1: Property Description Map

PART 3

GEOLOGY

3.1 GENERAL GEOLOGY

The Mirado Project area lies within the Abitibi province of the Precambrian Shield. The general geology of the southern portion of McElroy township and northern Catharine township is characterized by a major, southeast trending anticline. The axis of this structure is located to the west-southwest of the property boundary. Baker (1964) postulates that the stratigraphy in the mine area has been disrupted by northeast trending cross folds and shears (see Figure 3-1). The regional strike of the underlying bedrock is NNW-SSE and dips are generally steep ranging between 75° and 85° to the northeast.

3.2 PROPERTY GEOLOGY

The bedrock geology of the property has been divided by the previous operators into two major units (see Table 3-1). The contact between these units is generally characterized by interformational sulphide-oxide iron formations which consist of interbedded lenses of pyrite and magnetite.

The oldest of the major rock units is locally known as the Skead Pyroclastic Group. It comprises pyroclastic volcanic rocks consisting of agglomerate, lapilli tuff, tuff and crystal tuff with minor intercalated flows. The composition of these flows ranges from basaltic to rhyolitic. The Skead Pyroclastic Group hosts all the known gold bearing structures on the property.



LEGEND		EARLY PRECAMBRIAN	
15	Syenite, nepheline syenite	1	Metabasaltic - Intermediate & Mafic - flows
12	Gowanda formation - conglomerate	2	Felsic - flows
■	Iron formations	3	Ultramafic - serpentized dunite
□	Fault Zone	4	Alkalic - trachyte
		5	Metasediments - graywacke
		6	conglomerates
		7	Mafic & Ultramafic - peridotite
		8	gabbro, diorite, lamprophyre
		9	Felsic Intrusives - syenite
		10	quartz porphyry, etc.
		11	Diabase dykes

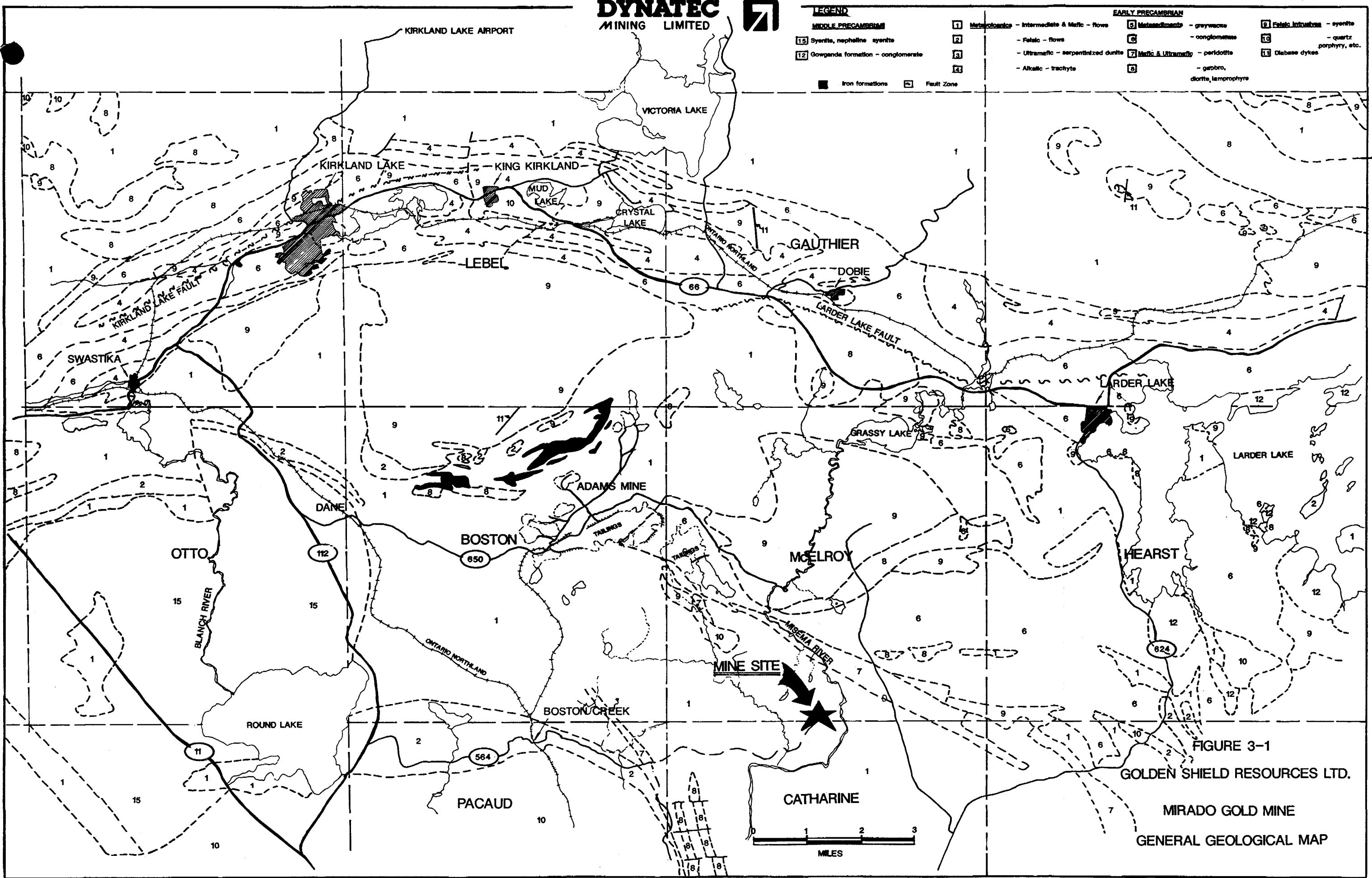


FIGURE 3-1
GOLDEN SHIELD RESOURCES LTD.
MIRADO GOLD MINE
GENERAL GEOLOGICAL MAP

The overlying Catharine Group is found in the northern portion of the property. It is composed mainly of intermediate to mafic flows with minor intercalated felsic flows and sediments. Minor intercalated rhyolite flows and sediments are found within the generally mafic unit. The lower contact of this group is marked by a series of discontinuous lenses of interbedded sulphide and oxide iron formation.

Both rock groups are cut by numerous dikes of feldspar porphyry and/or quartz porphyry, syenite and diorite gabbro. Both groups are variably sheared, carbonatized, chloritized and sericitized. The regional metamorphic grade is Greenschist facies; however in the immediate vicinity of the mine area this has been obscured by strong metasomatic (Si,Ca,Mg,Na?,K?) overprinting.

3.3

STRUCTURAL GEOLOGY

All the major gold bearing zones have a strong structural element.

The structural control on the gold bearing horizons is currently under investigation. At present, there is insufficient information to discuss this subject further.

Table 3-1
Table of Formations

Quaternary	
Pleistocene	- Clay, sand, gravel and muskeg
Precambrian	
	- Syenite, lamprophyre
	intrusive contact
	- Diorite
	intrusive contact
	-Timiskaming Group-Greywacke, Arkose, Quartzite, Slate, Conglomerate
	unconformity
-Catharine Group	- intermediate to mafic flows, felsic flows, sediments, oxide-sulphide iron formation
-Skead Group	- felsic to intermediate volcanoclastics, felsic to intermediate flows

3.4 ECONOMIC MINERALIZATION

There are two distinct types of gold bearing mineralization on the property which are found in the two locations designated as the North Zones and the South Zones.

3.4.1 THE NORTH ZONES

These zones consist of at least three shear structures (A-Zone, B-Zone, & C-Zone) that localized the gold mineralization. The gold mineralization is found in and is restricted to sub-parallel, quartz-calcite (plus sulphides) filled fractures or veins, and massive sulphide filled seams and fractures. The seams, fractures and veins have a strike length of over 1,000 feet and have been found to extend down to the 500 foot level of the mine. This suggests that the vertical dimension may extend at least as far as 1000 feet. The gold values are confined to the 1 to 3 inch quartz-sulphide rich seams and fractures and have not been detected in the background disseminated pyrite found in the country rock.

3.4.2 THE SOUTH ZONES

Gold mineralization in the South Zones has been the major focus of attention for exploration activity over the past 30 years and is the subject of this report. The gold mineralization contained in at least four and perhaps more separate zones (D,E,F&G) has been traced by diamond drilling along strike in a plan area of 800 feet by 800 feet.

The host rocks of the gold mineralization are comprised essentially of interbedded felsic tuffs, rhyolite porphyry and mafic agglomerate. All rock types are highly altered and show indications of being carbonatized, propylitized and variably silicified. The gold values appear to be confined to an irregular fracture system which may be in part en echelon within the contact between fractured mafic fragmental units and silicified tuffaceous units. The latter has been interpreted as possible rhyolite porphyry. These rocks are accompanied by varying amounts of pyrite. Similar to the North Zones the brecciated bronze coloured pyrite and chalcopyrite appears to be associated with the gold values and occurs in irregular fractures as blebs and disseminations in the matrix of the fragmentals. These are accompanied by minor amounts of white and/or smoky, bluish quartz and carbonate.

3.5

DESCRIPTION OF THE GOLD MINERALIZATION

The north zones (A, B and C) located near the shaft include the area where Yama Gold Mines carried out its development and production. The rocks in these zones consist of variably sheared pyroclastics and intercalated flows containing at least three separate auriferous veins and composite vein structures. The veins are all sub-parallel trending about 125° and dipping about 70° to 80° to the north. They range in width from approximately 1 inch to 6 inches (max.) and they are composed of carbonate, quartz, pyrite, sphalerite and chalcopyrite. Individual veins are

often enveloped by a light green 'bleached' halo and/or a dark green highly chloritic zone. They are best developed in the pyroclastic rocks and pinch to less than 1/10 inch in more massive flow rocks. However, they are remarkably persistent laterally and vertically, having been traced along strike for up to 1,000 feet and down dip for at least 500 feet.

Small scale drag folds, faults, boudins and other cross cutting features are often found in and adjacent to the veins, suggesting that they were subjected to multiple episodes of movement. The veins often assay greater than 1.0 ounce of gold per ton; however, the wall rocks tend to be slightly mineralized, usually assaying much less than 0.02 ounces gold per ton.

The host rocks of the south zones are comprised essentially of felsic tuffs and mafic agglomerate (locally called pyroclastic conglomerate) plus intercalated intermediate flows. They have been intruded by diorite, syenite and lamprophyre dikes.

All rocks have been variably silicified, chloritized, carbonatized and sericitized. Mineralization consists of disseminations and irregular discontinuous veinlets (with a preferred orientation) of pyrite with minor chalcopyrite and medium to coarse visible gold.

Four separate zones (D,E,G,F) of gold mineralization have been outlined in the south zones of the mine (See Figure 3-2)

The D zone is irregular in shape. The host pyroclastic conglomerate (agglomerate) and lapilli tuff have been moderately to highly chloritized and silicified. The distribution of gold mineralization in this zone appears, at least in part, to be spatially related to the contact between the rhyolite porphyry and the enclosing pyroclastics and is directly proportional to the amount of disseminated and discontinuous stringer type pyrite and chalcopyrite. The limits of the D zone are thought to be a function of the porosity and permeability of the fractured host rock since the intensity of pyrite and gold mineralization diminishes rapidly in the more massive (non-fragmental & non-fractured) host.

The E zone lies approximately 150 feet west of the D zone. It strikes 170° and dips 60° to the east. This zone has been traced over a strike length of about 400 feet and down dip from about the 125 foot level to the 500 foot level. The E zone consists of a carbonate-quartz-sulphide (pyrite, chalcopyrite, sphalerite) vein from 1 inch to 6 inches thick flanked by highly irregular areas of disseminated pyrite in the wall rock. The vein grades up to 2.00 ounces of gold per ton while the wall rocks generally assay less than 0.10 ounces of gold per ton. This structure is hosted largely by altered (silicified) rhyolite porphyry.

The G and F zones are both lithologically and mineralogically very similar. Both are north trending, steeply dipping, tabular zones located about 100 and 300 feet southwest of the E zone, respectively with indicated strike lengths of 250 and 600 feet. They are composed of moderate to highly altered (silicified, carbonatized, chloritized, sericitized) felsic tuffs and mafic agglomerate containing disseminated and stringer type pyrite plus visible gold. Contacts between these zones and the surrounding rocks are gradational and irregular. Economic gold values do not appear to be persistent along the entire length and across the indicated width of these alteration zones.

PART 4

PROPERTY DEVELOPMENT DURING 1986

4.1 GENERAL

Early in 1986, Dynatec Mining Limited commenced work on dewatering the existing shaft at Mirado Mine. Later it set up a hoist and headframe, constructed certain surface facilities and carry out an underground rehabilitation, development, sampling and diamond drilling program. The existing shaft has three compartments: one is used for hoisting; one for ventilation ducting and pump lines, and one is a manway.

4.2 SURFACE FACILITIES

A temporary 33 feet high headframe and 45 inch by 30 inch single drum hoist were installed on surface to permit access to the underground workings and cage hoisting of the development muck in 25 cubic feet capacity rocker dump cars. A temporary office, dry and shop/warehouse were also set up on surface to service the exploration crews.

The hoisting capacity of these facilities is indicated on Table 4-1 below.

In addition, a compressed air plant providing approximately 1300 cfm for underground use was installed.

A site water supply and sewage disposal system were also installed on the site. A mine water lagoon was constructed to handle the 100 U.S. gallons per minute of mine water.

Table 4-1
Single Drum Hoisting Plant
Ore/Waste Production Capacity

Level	Hoisting Cycle Time ⁽¹⁾ (sec)	Trips/hr	Tons/hr ⁽²⁾	Tpd ⁽³⁾
125	205	17.56	25.5	271
250	253	14.23	20.6	219
375	302	11.92	17.3	184
500	351	10.26	14.9	158

(1) Based on loading and unloading at 65 seconds/car.

(2) Based on 120 lb/cu.ft. muck density.

(3) Based on total ore/waste hoisting hours x 85% availability.

4.3

UNDERGROUND DEVELOPMENT

During the period April 1986 through December 1986 some 9500 feet of underground diamond drilling was carried out. In addition, between June and December, 1986, underground development work to access diamond drill stations and to outline certain of the ore body zones was carried out, as detailed in Table 4-2 below. Compressed air, water lines and 18 inch gauge rail track were laid in all development drifts.

Table 4-2
1986 Underground Development Program

<u>Description</u>	<u>Length</u> (ft)
7 ft. by 7 ft. Drift	1551
Raises (5 ft. by 5 ft.)	420
Sub-Levels (7 ft. by 7 ft.)	180
Crosscuts (7 ft. by 7 ft.)	24

The location of this development work is shown on Figure 4-1.

PART 5

METALLURGICAL

5.1

INTRODUCTION

Metallurgical testwork on Mirado ore was started in early 1986 at Lakefield Research Ltd. under the direction of E H Associates. A testwork report was issued on June 23, 1986, a copy of which follows this page.

During development of process design criteria for the project, an economic study of three process alternatives was undertaken, including:

- (1) Flotation, with cyanidation of concentrate.
- (2) Direct cyanidation of ore, with Merrill-Crowe gold recovery.
- (3) Direct cyanidation of ore, with carbon in pulp gold recovery.

An Investigation of
THE RECOVERY OF GOLD
from the samples
submitted by
GOLDEN SHIELD RESOURCES LTD.
(per Mr. A.S. Hayden, EH Associates)
Progress Report No. 1

Project No. LR 3121

NOTE:

This report refers to the samples as received.

The practice of this Company in issuing reports of this nature is to require the recipient not to publish the report or any part thereof without the written consent of Lakefield Research.

LAKEFIELD RESEARCH
A Division of Falconbridge Limited
Lakefield, Ontario
June 23, 1986

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INTRODUCTION

In a letter dated March 19, 1986, Mr. Raymond J. Mongeau of Golden Shield Resources Ltd. requested a testwork program on the Mirado samples under the direction of Mr. A.S. Hayden of EH Associates. The following tests were to be incorporated into this investigation:

1. Head sample assay and mineralogical examination.
2. Work Index determination.
3. Flotation tests.
4. Cyanidation tests.
5. Environmental considerations, i.e. cyanide destruction and acid production potential.

The settling and filtration tests were conducted by Mr. Bill Stone of EIMCO. The test slurries were prepared by Lakefield Research.

Mr. Hayden visited Lakefield on several occasions to discuss and direct the testwork. He obtained the results as they became available.

LAKEFIELD RESEARCH



Robert S. Salter

Manager



W.T. Yen, Ph. D.,

Senior Project Engineer.

Experimental Work By: C. Caza

SUMMARY

1. Head Sample Assays

The composite sample used in this investigation was assayed for the following elements. The qualitative spectrographic analysis of the sample is shown in Table 1.

Au (g/t)	8.16
Ag (g/t)	3.95
Cu (%)	0.038
Zn (%)	0.012
Fe (%)	8.24
S (%)	4.77
CO ₂ (%)	1.31
Specific Gravity	2.92

The average calculated head assay obtained from the testwork was 9.10 ± 1.81 g/t Au.

TABLE NO. 1 - Qualitative Spectrographic Analysis of the Composite Head Sample

10 - 100 %	Si
3 - 30 %	Fe
1 - 10 %	Mg, Al
0.3 - 3 %	Ca
0.1 - 1 %	
0.03 - 0.3 %	Na, K
0.01 - 0.1 %	Zn, Ba
0.003 - 0.03 %	Mn, Ti, Co, Cr
0.001 - 0.01 %	As, Tl, Ga, Mo, V, Zr, Ni
0.0003 - 0.003 %	
0.0001 - 0.001 %	Cu
<0.0003 %	

Unless specified above, the following were not detected at the approximate ppm lower limits of 0.5 Cu, Ag; 1 Mn; 5 Hg, Cr; 10 Be, Bi, Cs, Co, Ni, V; 25 Ge, Fe, Pb, Mo, Si, Sr, Sn, Ti, Zr, Tl, Pd, U, Th; 50 Al, Sb, B, Cd, Ga, Li, Zn; 100 As, Au, Ba, In, Na; 200 Nb, Ta, W, Rb, Pt; 300 Te, Y, Ce.

Summary - Continued

2. Mineralogical Examination

The composite head sample was briquetted, polished and examined under a reflected light microscope for the opaque minerals. The pyrite, chalcopyrite, sphalerite and pyrrhotite were identified as follows:

Pyrite is the major sulphide mineral and contains 90 % of the sphalerite, less than 1 % of the chalcopyrite and all of the pyrrhotite as fine-grained inclusions.

Chalcopyrite occurs as 10 to 140 micrometer sized particles and cements grains of pyrite or is present interstitial to grains of non-opaque gangue. There are no complex associations with any other minerals.

Sphalerite is present in trace amount, i.e. less than 0.5 % and most of it is present as very fine-grained inclusions in pyrite.

Pyrrhotite is the only other opaque mineral identified and it is present in trace amount as inclusions in pyrite.

3. Work Index Determination

The Bond Work Index was determined by a standard ball mill closed circuit grindability test. The size of mill feed was 6 mesh and the fineness of classification was 150 mesh and 200 mesh. The results are summarized as follows:

	<u>Classified at 150 mesh</u>	<u>Classified at 200 mesh</u>
Work Index	13.62	13.78
Screen Size test in microns	104	74
Net grams of undersize produced per revolution of test mill	1.23	1.03
Size in microns which 80 % of test product passes	74.0	52.0
Size in micron which 80 % of test feed passes	2161.5	2161.5

Summary - Continued

3. Work Index Determination - Cont'd

The grinding power expended by the laboratory mill may be estimated by the empirical equation:

$$\text{kWh} = \frac{C \times T}{W}$$

where: C = constant (686)
T = time (minutes)
W = weight (grams)

In this investigation, 1 kg and 2 kg of minus 10 mesh sample were ground for 10 to 50 minutes. The grinding power required was calculated from the above equation and given in Table 2. Both 13.72 kWh/t and 14.75 kWh/t confirm the Bond Work Index determination.

TABLE NO. 2 - The Grinding Power Required in the Laboratory Mill

<u>Sample Weight</u> g	<u>Grind Time</u> minutes	<u>Grinding Power</u> kWh/t	<u>% -200</u> mesh
1000	10	6.86	66.7
1000	15	10.29	85.5
1000	19	13.03	95.1
1000	20	13.72	96.1
1000	25	17.15	96.9
2000	30	10.29	82.5
2000	43	14.75	96.6
2000	50	17.15	98.1

4. Amalgamation

One amalgamation test (No. 25) was conducted to estimate the amount of free gold. A 1000 gram sample was ground to 96 % minus 200 mesh and pulped in a 4 liter bottle. 20 grams of fresh mercury and 0.5 grams of NaOH were added. The amalgamation was conducted on rolls for 2 hours. The results in Table 3 show that 33.8 % of the gold contained in the sample was present as free gold.

Summary - Continued

4. Amalgamation - Cont'd

TABLE NO. 3 - Amalgamation Results

Product	Assays g/t Au	% Distribution Au
Amalgam	-	33.8
Amalgamation Tail.	6.45	66.2
Head (Calc.)	9.74	100.0

5. Flotation Test

Some of the drill core sample contained a substantial amount of copper. In early work, selective flotation was considered to recover a copper concentrate for sale. This also could decrease cyanide consumption and environmental problems. Since there was less than 0.04 % copper contained in the composite sample, the grade and the recovery of the copper in the copper concentrate were low. Bulk sulphide and gold flotation was conducted in the later testing stage. The results are discussed in the following sections.

5.1. Selective Flotation

A 1000 gram sample was ground to 85.5 % minus 200 mesh and pulped in a Denver laboratory 500 gram D-2 cell. The pH of the slurry was adjusted to 11 with lime. The copper was floated with 15 g/t collector M2030 and 20 g/t frother MIBC in three stages totalling 4 minutes. The copper rougher concentrate was cleaned once at pH 11.

Summary - Continued

5.1. Selective Flotation - Cont'd

The pH of the copper rougher tailing was adjusted to 6.5 with diluted H₂SO₄ solution. The sulphides were floated with 100 g/t collector AX350 and 35 g/t frother MIBC for 12 minutes. The sulphide rougher concentrate, containing mainly pyrite, was cleaned once. The results are summarized in Table 4.

The copper first cleaner concentrate, weighed 0.53 % of the head and assayed 4.92 % Cu and 1066.0 g/t Au, representing 76.8 % copper and 66.5 % gold recovery. The pyrite first cleaner concentrate, weighed 8.76 % and assayed 0.021 % Cu and 14.8 g/t Au, representing 5.3 % copper and 15.2 % gold recovery. Total metal recovery in the combined cleaner concentrate was 82.1 % of the copper and 81.7 % of the gold. The metal lost in the cleaner tailings was more than 10 %.

The rougher concentrate, weighed 22.50 % of the head and assayed 0.14 % Cu and 35.7 g/t Au, representing 93.3 % copper and 94.0 % gold recovery. The rougher tailing assayed 0.003 % Cu and 0.66 g/t Au.

TABLE NO. 4 - The Results of Selective Flotation Tests (Test 1)

Product	Weight %	Assays		% Distribution	
		Cu %	Au g/t	Cu	Au
Cu 1st Cleaner Conc.	0.53	4.92	1066.0	76.8	66.5
Cu Rougher Concentrate	5.28	0.55	121.4	85.6	75.0
Pyrite 1st Cleaner Conc.	8.76	0.021	14.8	5.3	15.2
Pyrite Rougher Conc.	17.22	0.015	9.42	7.7	19.0
Rougher Concentrate	22.50	0.14	35.7	93.3	94.0
Rougher Tailing	77.50	0.003	0.66	6.7	6.0
Head (Calc.)	100.00	0.034	8.55	100.0	100.0

Summary - Continued

5.2. Bulk Flotation

One rougher and three cleaner flotation tests were conducted to investigate the effects of the collector, flotation time and the grind on the gold recovery. The results are summarized in Table 5.

In Test 2, the rougher concentrate was removed in four stages. The flotation time was 2, 2, 5 and 5 minutes respectively. In each stage, 25 g/t collector AX350 was used and the frother MIBC was added as required.

The results show that 89.8 % of the gold was recovered in the initial two minutes flotation and 94.5 % of the gold was recovered in nine minutes flotation. Flotation beyond nine minutes collected more gangue minerals than precious metals. Thus, subsequent rougher flotation tests were conducted in three 3 minute stages. Collector AX350 was used at 20, 15 and 10 g/t respectively.

In Tests 6, 20 and 11, the sample was ground to 82.5 %, 96.6 % and 98.1 % minus 200 mesh respectively. The standard rougher flotation was performed in each test. The rougher concentrate was cleaned twice with a small amount of collector. The results show that the gold recovery in the rougher concentrate increased with increasing fineness of grind. The gold assay in the rougher tailing decreased with increasing the fineness of grind. The best results, obtained in Test 11, were at a grind of 90.1 % minus 200 mesh, 96.3 % of the gold was recovered in the rougher leaving the rougher tailing assaying 0.39 g/t Au. The second cleaner concentrate weighed 8.11 % of the head and assayed 101.0 g/t Au, representing 92.3 % gold recovery. The first cleaner concentrate, weighed 9.0 % and assayed 94.1 g/t Au, a recovery of 95.4 % of the gold.

The chemical analysis of the second cleaner concentrate of Test 11 is shown in Table 6.

Summary - Continued

5.2. Bulk Flotation - Cont'd

TABLE NO. 5 - The Results of Bulk Flotation

Test No.	Grind % -200 mesh	Product	Weight %	Assays g/t Au	% Distribution Au
2	85.5	Ro. Conc. 1 (2 min.)	12.5	65.4	89.8
		Ro. Conc. 2 (2 min.)	4.9	6.1	3.3
		Ro. Conc. 3 (5 min.)	4.7	2.77	1.4
		Ro. Conc. 4 (5 min.)	3.3	1.27	0.5
		Ro. Tailing	74.6	0.61	5.0
		Head (Calc.)	100.0	9.10	100.0
6	82.5	2nd Cl. Conc.	8.3	96.3	91.7
		1st Cl. Conc.	9.1	88.51	92.4
		Rougher Conc.	14.6	56.23	94.2
		Rougher Tail.	85.4	0.59	5.8
		Head (Calc.)	100.0	8.71	100.0
20	96.6	2nd Cl. Conc.	8.31	94.6	93.9
		1st Cl. Conc.	9.11	86.63	94.3
		Rougher Conc.	15.52	51.29	95.1
		Rougher Tail.	84.48	0.49	4.9
		Head (Calc.)	100.00	8.37	100.0
11	98.1	2nd Cl. Conc.	8.11	101.0	92.3
		1st Cl. Conc.	9.00	94.1	95.4
		Rougher Conc.	16.54	51.7	96.3
		Rougher Tail.	83.46	0.39	3.7
		Head (Calc.)	100.00	8.87	100.0

TABLE NO. 6 - Chemical Analysis of Second Cleaner Concentrate of Test 11

Au (g/t)	101.0	Bi (%)	<0.002
Ag (g/t)	20.5	Sb (%)	<0.002
Cu (%)	0.33	Hg (%)	0.0004
Fe (%)	45.1	As (%)	0.018
Ni (%)	0.031	S (%)	49.4
Zn (%)	0.025	Al ₂ O ₃ (%)	0.68
		MgO (%)	0.19
		CaO (%)	0.11
		SiO ₂ (%)	2.57

Summary - Continued

6. Gravity Concentration and Flotation

A two kilogram sample was ground to 61 % minus 200 mesh and passed over a laboratory Wilfley table. The table concentrate was re-treated on a Mozley table to obtain a small weight concentrate. The tailings of both the Wilfley and Mozley tables were combined and reground to 92 % minus 200 mesh. The collector AX350 and the frother MIBC were used to recover the gold and sulphide minerals from the tailing slurry. The results are summarized in Table 7. The table concentrate, weighed 0.15 % and assayed 916 g/t Au; a recovery of 22.5 % of the gold. The rougher concentrate, weighed 16.5 % and assayed 26.1 g/t Au; a recovery of 71.9 % of the gold. The total gold recovery from both gravity concentration and flotation was 94.4 %. The flotation rougher tailing assayed 0.40 g/t Au.

Table No. 7 - The Results of Gravity Concentration and Flotation

Product	Weight %	Assays g/t Au	% Distribution Au
Table Conc.	0.15	916.0	22.5
Rougher Conc. 1	7.36	51.9	63.7
Rougher Conc. 2	2.28	17.3	6.6
Rougher Conc. 3	3.15	1.94	1.0
Rougher Conc. 3	3.71	0.97	0.6
Rougher Tailing	83.35	0.40	5.6
Head (Calc.)	100.00	6.00	100.0

7. Flotation and Cyanidation

A 2000 gram sample was ground to 96.6 % and 99.3 % minus 200 mesh. The rougher flotation was conducted with 45 g/t collector AX350 and 20 g/t frother MIBC. The flotation time was 9 minutes. The rougher concentrate was filtered and repulped with fresh water to 33 % solids. The cyanidation was carried out on rolls with 0.5 g/L ~ 1.5 g/L NaCN at pH 11 for 36 hours and 48 hours. The results are summarized in Table 8.

Summary - Continued

7. Flotation and Cyanidation - Cont'd

The gold recovery into the rougher concentrate was 95~96 % at a grade of 41~75 g/t Au. The rougher tailing assayed 0.33~0.54 g/t Au. The gold extraction from the rougher concentrate depended upon the cyanide strength and the retention time. In Test 21, 80 % of the gold was extracted from the rougher concentrate leaving a residue assaying 15.2 g/t Au. This represents 76.7 % total gold recovery. 92 % of the gold was extracted from the rougher concentrates of Test 24 and Test 38 with 1.0 g/t NaCN in 48 hours. The overall gold recovery was 88 %. The residue assayed 4.63 g/t Au and 3.11 g/t Au. In Test 41, 93.7 % of the gold was extracted with 1.5 g/L NaCN in 36 hours leaving a residue assaying 2.65 g/t Au, which is equivalent to 89.0 % overall gold recovery.

Table No. 8 - The Results of Flotation and Cyanidation of Rougher Concentrate

Test No.	Grind % -200 m	Cy. Time h	NaCN g/L	Product	Amount	Assay mg/L, g/t Au	% Dist. Au
21	96.6	36	0.5	Cy Preg + Wash Sol'n	1230 mL	14.0	76.7
				Cy Residue	284.9 g	15.2	19.3
				Rougher Conc.	284.9 g	75.6	96.0
				Rougher Tail.	1714.2 g	0.53	4.0
				Head (Calc.)	1999.1 g	9.73	100.0
24	96.6	48	1.0	Cy Preg + Wash Sol'n	1735 mL	9.58	87.9
				Cy Residue	297.6 g	4.63	7.3
				Rougher Conc.	297.6 g	60.5	95.2
				Rougher Tail.	1690.4 g	0.54	4.8
				Head (Calc.)	1988.0 g	9.51	100.0
38	99.3	48	1.0	Cy Preg + Wash Sol'n	1495 mL	8.09	88.7
				Cy Residue	318.9 g	3.11	7.2
				Rougher Conc.	318.9 g	41.1	95.9
				Rougher Tail.	1677.8 g	0.33	4.1
				Head (Calc.)	1996.7 g	6.83	100.0

..... Cont'd

Summary - Continued

7. Flotation and Cyanidation - Cont'd

Table No. 8 - Cont'd

Test No.	Grind % -200 m	Cy. Time h	NaCN g/L	Product	Amount	Assay mg/L, g/t Au	% Dist. Au
41	99.3	36	1.5	Cy Preg + Wash Sol'n	1490 mL	9.06	89.0
				Cy Residue	344.1 g	2.65	6.1
				Rougher Conc.	344.1 g	41.9	95.1
				Rougher Tail.	1659.6 g	0.45	4.9
				Head (Calc.)	2003.7 g	7.56	100.0

8. Cyanidation Tests

A 1000 gram sample was ground, filtered and split into two equal fractions. The 500 gram ground sample was pulped with water in a 2 liter bottle. Cyanide and lime were added and the cyanidation was carried out on rolls. The variables in this investigation were the fineness of grind, pre-aeration, retention time, cyanide strength, pulp density, pH and the grinding with reagents. One locked cycle test was also conducted in four cycles. The results are summarized in the following sections.

8.1. Effects of Grind and Aeration

The sample was ground to 66.7 %, 85.5 % or 96.1 % minus 200 mesh, with or without aeration for 24 hours, followed by cyanidation at 33 % solids with 0.5 g/L NaCN at pH 11 for 48 hours. The results in Table A show that the gold extraction increased with increasing the fineness of grind but was not affected by the aeration.

Summary - Continued

8.1. Effects of Grind and Aeration - Cont'd

At the grind of 66.7 % minus 200 mesh, 91 % of the gold was extracted leaving a residue assaying 0.88 g/t Au. At the grind of 85.5 % minus 200 mesh, 92 % of the gold was extracted leaving a residue assaying 0.60 g/t Au. When the grind was increased to 96 % minus 200 mesh, 96 % of the gold was extracted and the residue assayed 0.40 g/t Au.

The reagent consumption was 0.16 to 0.67 kg/t NaCN and 0.40 to 0.62 kg/t CaO without preaeration; 0.10 to 0.18 kg/t NaCN and 1.14 to 1.42 kg/t CaO with preaeration.

The cyanide pregnant solution was measured for emf, reducing power and assayed for total cyanide, free cyanide and thiocyanide. The results are shown in Table 9B.

Table No. 9A- Effects of Grind and Aeration on the Cyanidation

Test No.	Grind % -200 M	Aeration	NaCN kg/t		CaO kg/t		Residue Au g/t	% Au Extraction	Calc Head Au g/t
			Added	Cons.	Added	Cons.			
3	85.5	Yes	0.99	0.10	1.23	1.17	0.66	91.8	8.05
4	85.5	No	1.65	0.67	0.46	0.40	0.60	92.2	7.72
7	66.7	Yes	1.00	0.12	1.22	1.14	0.89	90.5	9.34
8	66.7	No	1.04	0.16	0.68	0.58	0.88	91.3	10.1
9	96.1	Yes	1.00	0.18	1.44	1.42	0.41	96.5	11.8
10	96.1	No	1.18	0.26	0.68	0.62	0.40	96.3	10.6

Table No. 9B- Assay of Cyanide Pregnant Solution

Test No.	emf mV	Reducing Power	mg/L		
			CN(T)	CN(F)	CNS
3	-220	16	-	-	-
4	-240	24	-	-	-
7	-270	16	243	228	46.2
8	-260	8	252	242	31.0
9	-240	28	226	210	73.4
10	-240	12	264	240	34.8

Summary - Continued

8.2. Effect of Retention Time

The sample was ground to 95 % minus 200 mesh, pulped to 33 % solids with water and cyanided with 0.5 g/L NaCN. The retention time ranged from 8 hours to 36 hours. The results are summarized in Table 10. The gold extraction reached a plateau at 24 hours cyanidation. 95 % of the gold was extracted leaving a residue assaying 0.46 g/t Au. The reagent consumption was 0.16 kg/t NaCN and 0.44 kg/t CaO.

TABLE NO. 10 - Effect of Retention Time on Cyanidation

Test No.	Time h	NaCN kg/t		CaO kg/t		Residue Au g/t	% Au Extraction	Calc. Head Au g/t
		Added	Cons.	Added	Cons.			
12	8	1.0	0.10	0.46	0.42	1.22	86.8	9.25
13	16	1.0	0.10	0.46	0.36	1.32	87.0	10.15
23	16	1.0	0.10	0.46	0.42	1.18	89.3	11.0
14	24	1.0	0.16	0.46	0.44	0.46	95.3	9.65
15	36	1.0	0.10	0.46	0.44	0.58	92.6	7.85
22	36	1.54	0.72	0.46	0.40	0.43	95.2	8.99

8.3 Effect of Cyanide Strength

The sample was ground to 95 % minus 200 mesh, pulped to 33 % solids and cyanided with 0.5 g/L NaCN and 1.0 g/L NaCN for 8 hours and 24 hours. The results in Table 11 show that gold extraction was not affected by the cyanide strength. 94 % of the gold was extracted with either 0.5 g/L NaCN or 1.0 g/L NaCN in 8 hours. 96 % of the gold was extracted with either 0.5 or 1.0 g/L NaCN in 24 hours. The reagent consumption was also similar at the two levels of cyanide strength.

Summary - Continued

8.3. Effect of Cyanide Strength - Cont'd

TABLE NO. 11 - Effect of Cyanide Strength on Cyanidation

Test No.	NaCN g/L	Time h	NaCN kg/t		CaO kg/t		Residue Au g/t	% Au Extraction	Calc. Head Au g/t
			Added	Cons.	Added	Cons.			
16	1.0	8	2.0	0.12	0.46	0.40	0.46	93.5	7.07
17	1.0	24	2.0	0.16	0.46	0.42	0.33	97.8	14.3
18	0.5	8	1.0	0.04	0.46	0.42	0.52	94.1	8.89
19	0.5	24	1.11	0.20	0.46	0.44	0.42	96.7	12.66

8.4. Effect of Pulp Density

The sample was ground to 95 % minus 200 mesh, pulped to 50 % solids and cyanided with 0.5 to 1.0 g/L NaCN for 16 to 30 hours. The results in Table 12 show that the gold extraction from the slurry of 50 % solids was the same as from 33 % solids. 95 % of the gold was extracted leaving the residue assaying 0.35 to 0.45 g/t Au. The reagent consumption was 0.14 to 0.18 kg/t NaCN and 0.42 to 0.46 kg/t CaO.

TABLE NO. 11 - Effect of Pulp Density on the Cyanidation

Test No.	NaCN g/L	% Solids	Time h	NaCN kg/t		CaO kg/t		Residue Au g/t	% Au Extraction	Calc. Head Au g/t
				Added	Cons.	Added	Cons.			
14	0.5	33	24	1.0	0.16	0.46	0.44	0.46	95.2	9.65
22	0.5	33	36	1.54	0.72	0.46	0.40	0.43	95.2	8.99
26	0.5	50	16	0.50	0.14	0.46	0.42	0.45	95.5	10.1
27	0.5	50	30	0.50	0.18	0.46	0.46	0.39	95.4	8.53
28	1.0	50	16	1.0	0.16	0.46	0.42	0.39	95.1	7.2
29	1.0	50	30	1.0	0.18	0.46	0.42	0.42	95.9	10.2

Summary - Continued

8.5. Effect of pH

The sample was ground to 98 % minus 200 mesh, pulped to 50 % solids and cyanided with 0.5 g/L NaCN at pH 10.5 and 11.0 for 12-24 hours. The results in Table 13 show that the gold extraction was the same from a slurry of pH 10.5 and 11.0. 94 % of the gold was extracted and the residue assayed 0.36-0.44 g/t Au. The slightly lower extraction may be due to poor filtration and insufficient washing from the fine grind pulp. The cyanide consumption was higher at pH 10.5 (0.65-0.71 kg/t NaCN) than at pH 11.0 (0.52-0.58 kg/t).

TABLE NO. 12 - Effect of pH on Cyanidation

Test No.	pH	Time h	NaCN kg/t		CaO kg/t		Residue Au g/t	% Au Extraction	Calc. Head Au g/t
			Added	Cons.	Added	Cons.			
31	10.5	12	1.15	0.65	0.26	0.26	0.44	93.9	7.24
32	10.5	24	1.13	0.71	0.26	0.26	0.36	95.6	8.17
33	11.0	12	1.02	0.52	0.40	0.38	0.40	94.4	7.15
34	11.0	24	1.00	0.58	0.40	0.38	0.34	94.8	6.50

8.6. Effect of Grinding with Reagents

A 1000 gram sample was ground with 0.5 g/L NaCN at pH 11.0 to 95 % minus 200 mesh, i.e. 0.24 kg/t NaCN and 0.46 kg/t CaO. The ball mill discharge was filtered and repulped to 33 % solids with the grinding solution. The reagent strength was re-adjusted and the cyanidation was carried out on rolls with 0.5 g/L NaCN at pH 11 for 16 hours. The results in Table 14 show that 8.3 % of the gold was extracted in the grinding stage and 88.2 % of the gold was extracted in the subsequent cyanidation stage. The total gold extraction was 96.5 % and the final residue assayed 0.43 g/t Au. The reagent consumption was 0.11 kg/t NaCN and 0.68 kg/t CaO.

Summary - Continued

8.6. Effect of Grinding with Reagents - Cont'd

TABLE NO. 14 - Effect of Grinding with Reagents on the Cyanidation (Test 30)

Product	Amount	Assays mg/L				% Dist. Au
		Au	Fe	CN(T)	CN(F)	
Ball Mill Discharge Solution	5400 mL	0.19	1.62	14.2	8.3	8.3
16 h Cyanide Preg + Wash Sol'n	3880 mL	2.81	-	-	-	88.2
Cyanide Residue	995 g	0.43	-	-	-	3.5
Head (Calc.)	995 g	12.4	-	-	-	100.0

8.7. Locked Cycle Tests

The locked cycle test was conducted by using the pregnant solution of the last cycle to pulp the sample for the next cycle. The standard cyanidation conditions in each cycle was 50 % solids, 0.5 g/L NaCN, pH 11 and 24 hours. Four cycles were conducted in this investigation. Using the pregnant solution to pulp the slurry (without too much dilution with water), the amount of ore sample used in each cycle varied as below:

<u>Cycle Number</u>	<u>Sample Wgt., g</u>
1	1000
2	750
3	500
4	250

Table No. 15 summarized the solution assays for the four cycles. Total cyanide assay (accumulated) stabilized at 525 mg/L NaCN after the 3rd cycle. 67 % of the total cyanide was in the metal complex form. The base metal assay in the 4th cycle pregnant solution (accumulated) was 104 mg/L Fe, 24.4 mg/L Cu and 1.26 mg/L Zn. The net amount of cyanide contained in the 4th cycle was 230 mg/L total cyanide and 49 mg/L free cyanide.

Summary - Continued

8.7. Locked Cycle Tests - Cont'd

Table 16 summarizes the metallurgical results for the locked cycle test.

The gold extraction in each cycle was $95.3 \pm 0.7\%$ and the residue assayed 0.36-0.50 g/t Au. The reagent added was 0.92 kg/t NaCN and 0.21 kg/t CaO. The reagent consumed was 0.39 kg/t NaCN and 0.21 kg/t CaO.

In conclusion, no abnormalities appeared in the cyanidation locked cycle test.

TABLE NO. 15 - Solution Assay of Locked Cycle Tests

Cycle No.	Pregnant Sol'n mg/L			Wash mg/L Au	*Net Amount mg/L		
	Au	CN(F)	CN(T)		Au	CN(F)	CN(T)
1	6.27	205	343	2.51	6.27	205	343
2	13.0	275	497	3.24	8.57	130	255
3	13.8	225	527	3.11	4.83	35	184
4**	9.43	175	525	1.04	1.70	49	230

*The amount produced in the pregnant solution of the present cycle = the difference of present cycle and the previous cycle.

**Additional pregnant solution assay of the 4th cycle: Cu 24.4 mg/L, Zn 1.26 mg/L, Fe 104 mg/L, CNS 47.4 mg/L

TABLE NO. 16 - Metallurgical Results of Locked Cycle Test

Cycle No.	NaCN, kg/t		CaO, kg/t		Residue Au g/t	% Au Extraction	Calc. Head Au g/t
	Added	Cons.	Added	Cons.			
1	0.94	0.44	0.24	0.23	0.41	94.9	8.03
2	0.78	0.27	0.17	0.15	0.50	95.7	11.5
3	0.90	0.39	0.22	0.20	0.39	96.1	9.87
4	0.92	0.38	0.21	0.21	0.36	94.6	6.67

Summary - Continued

9. Cyanide Destruction Tests

A cyanide destruction test was conducted on a barren solution prepared as follows.

A 6000 gram composite sample was ground to 95 % minus 200 mesh, pulped to 50 % solids in a pail and the cyanidation was carried out with 0.5 g/L NaCN at pH 11 for 24 hours. The pregnant solution was removed and de-aerated with a sparge of nitrogen gas for one hour, until the oxygen content in the solution was less than 1.5 ppm. Zinc dust at 100 times theoretical requirement and lead nitrate (one quarter the mass of zinc dust) were added, and the nitrogen was continuously sparged for 30 minutes. The zinc-gold precipitate was filtered with a micro filter. The barren solution was stocked for the test. The pregnant solution assayed 6.85 mg/L Au and the barren solution assayed 0.016 mg/L Au. The percent of gold precipitate by the zinc dust was 99.8 % (Test 40).

Initially, the chlorination process was used to destroy the cyanide. 5 mL of a 5 % NaOCl solution was added to 500 mL cyanide barren solution every two minutes. The solution was agitated with a magnetic stirrer and maintained at pH 11. The emf of the solution was recorded. The destruction test was terminated when the emf increased from its lowest value of 50 mV to 550 mV. The time required to reach these conditions was 25 minutes. One more identical test was conducted with the retention time extended to one more hour. The results of these two tests were identical. Table 17 shows that the free cyanide at 275 mg/L was virtually completely destroyed. The total cyanide at 527 mg/L was diminished to 138 mg/L by chlorine. The base metal assay was reduced from 39 mg/L Cu, 40 mg/L Zn and 84.8 mg/L Fe to 0.03 mg/L Cu, 0.11 mg/L Zn and 70.8 mg/L Fe. The evidence suggested that the free cyanide, copper and zinc complex cyanide were destroyed to less than 1 ppm, but the iron complex cyanide was not destroyed by the chlorine.

Summary - Continued

9. Cyanide Destruction Tests - Cont'd

In Test 44, the SO₂-air process was used to destroy the same cyanide barren solution. Copper sulphate was added to 500 mL barren solution to maintain the copper ion in solution higher than 50 ppm Cu for catalysis purposes. The pH of the solution was maintained at 8.5 with lime to precipitate the copper and other metal ions. The SO₂-air mixture was sparged into the solution for one hour. The precipitation was removed by a micro filter. The result indicates that total cyanide, which included free cyanide and complex cyanide, was reduced to 0.12 mg/L NaCN. The other effluent assays were 0.15 mg/L Cu, 0.06 mg/L Zn and 0.06 mg/L Fe. This effluent is acceptable according to environmental regulation standards.

TABLE NO. 17 - Results of Cyanide Destruction

Test No.	Solution	Destruction Method	Time min.	Assays mg/L				
				CN(T)	CN(F)	Cu	Zn	Fe
-	Barren Feed	-	-	527	275	39.0	40	84.8
43A	Effluent	Cl ₂	25	138	< 1	0.03	0.11	70.8
43B	Effluent	Cl ₂	85	142	< 1	0.14	0.11	71.3
44	Effluent	SO ₂	60	0.12	< 1	0.15	0.06	0.06

10. Settling Tests

A settling test was conducted on a flotation rougher concentrate obtained by the standard rougher flotation as in Test 38 or 41. The rougher concentrate as obtained from flotation was transferred to a 2000 mL graduated cylinder. Settling was performed on the slurry as received and the slurry at pH 11.2 adjusted with lime. The results are summarized in Table 18. The thickener area requirement was calculated as 1.16 m²/t-day at pH 8.0 and 0.12 m²/t-day at pH 11.2.

Summary - Continued

10. Settling Tests - Cont'd

TABLE NO. 18 - Settling Test Results

Test No.	pH	CaO g/t	% Solids		Concentration Zone		Compression Zone	
			Initial	Final	Settling Rate*	Thickener Area**	Settling Rate*	Thickener Area**
39S1	8.0	0	15.8	56.5	0.243	0.79	0.086	1.16
39S2	11.2	960	15.8	62.8	3.013	0.07	0.613	0.12

*meter per hour

**square meter per metric tonne of dry solids per 24 hours

11. Acid Production Potential Tests

The acid producing potential was determined using the B.C. Research Council Procedure on the head sample and the cyanidation residue. The sample was pulverized to all minus 100 mesh. 10 grams of pulverized sample was pulped with 100 mL distilled water and titrated with 1 N H₂SO₄ solution until the pH of the slurry stabilized at 3.5. The total titration acid volume was used to calculate the acid consumption ability. The sulphur content of the sample was used to calculate the theoretical acid producing potential. If the difference of acid producing potential and acid consumption ability is positive, the sample would be an acid producer. If the difference is a negative one, the sample would not be an acid producer. The results in Table 19 indicate that both the head sample and the cyanidation residue are potential acid producers.

TABLE NO. 19 - Results of Acid Producing Potential Tests

Test No.	Sample	% S	(1) Theoretical Acid Production Potential, kg/t	(2) Acid Consumption Ability, kg/t	(1)-(2)	Theoretical Acid Producer
37A1	Cy Residue	4.67	143.02	36.6	106.42	Yes
37A2	Cy Residue	4.67	143.02	33.96	109.06	Yes
37B1	Head	4.02	123.11	33.96	89.15	Yes
37B2	Head	4.02	123.11	42.04	81.07	Yes

CONCLUSIONS AND DISCUSSIONS

The composite sample as received contains fine gold particles. The sulphide minerals identified do not interfere with the metallurgical processing. The optimum grind to liberate the gold particles from the matrix is 95 % minus 200 mesh. The grinding power required is 13.8 kWh/t. 33.8 % of the gold is free at this grind. Both flotation and cyanidation processes were conducted in this investigation.

Selective flotation showed that a copper concentrate could recover 66.5 % of the gold and 76.8 % of the copper at a concentrate grade of 1066 g/t Au and 4.92 % Cu. The copper grade in the concentrate was unacceptable to copper smelters. Bulk flotation recovered 95 % of the gold in a rougher concentrate at a grade of 50 g/t Au. The concentrate could be upgraded to 100 g/t Au in two cleaning stages at a recovery of 92-93 %. The gold extraction from the flotation rougher concentrate was 93 %, for an overall gold recovery of 89 %.

Direct cyanidation extracted more than 95 % of the gold in 24 hours with 0.5 g/L NaCN at pH 11. The cyanide strength, pulp density and aeration did not affect the gold extraction efficiency. Reagent requirements depended upon the pH and aeration. More cyanide was consumed at the lower pH and without aeration. In general, 0.4 kg/t NaCN and 0.3 kg/t CaO was sufficient for 95 % gold extraction.

For environmental consideration, the cyanidation residue contained high sulphide, making it potential acid producer. Cyanide destruction of the barren solution resulted in a decrease from 527 mg/L NaCN to 0.16 mg/L NaCN with the SO₂-air process. Due to iron complex cyanide, the chlorination process could not decrease the cyanide to acceptable levels.

SAMPLE PREPARATION

About 350 kg of core sample packed in 15 boxes was received at Lakefield on March 25, 1986. The sample weight and the gold assay of the 129 core samples are listed in Table 20. One half of each sample was riffled out to make a composite sample.

10 kg of the composite sample was riffled out and crushed to all minus 6 mesh, which was used for Bond Work Index determination. The remainder of the composite sample was crushed to all minus 10 mesh. A head assay sample was riffled out for assay and mineralogical examination. 10 one kilogram charges and 48 two kilogram charges were prepared for the testwork.

TABLE NO. 20 - List of Core Samples

Sample No.	Weight		Assay		Sample No.	Weight		Assay	
	Received	Composite	oz/ton	Zcu		Received	Composite	oz/ton	Zcu
6503	2281	1141	0.320	0.005	6918	2109	1055	0.165	0.04
6509	1660	830	0.050		6920	2621	1311	0.090	0.11
6515	3868	1934	0.110	0.005	6953	1301	651	0.485	0.11
6516	3345	1673	0.150	0.005	6954	1890	945	0.050	0.02
6517	1301	651	0.940		6958	1374	687	0.205	0.01
6518	2750	1375	0.340		6959	1931	966	0.050	0.02
6519	1593	797	0.070	0.005	6971	2019	1010	0.070	0.04
6521	1364	682	0.330	0.01	6975	1663	832	0.230	0.1
6524	1494	747	0.340	0.01	6999	2286	1143	0.080	
6638	469	235	0.240		7122	1985	993	0.050	0.005
6541	1640	820	0.120	0.02	7126	2010	1005	0.110	
6542	1768	884	0.060	0.01	7129	1989	995	0.070	
6547	1999	1000	0.050	0.005	7130	1336	668	0.170	
6548	1680	840	0.250	0.04	7132	1831	916	0.095	
6550	2104	1052	0.060	0.005	7133	0	0.205	0.005	
6557	1523	762	0.050	0.005	7134	2170	1085	0.170	0.005
6569	1656	828	0.060	0.03	7135	1979	990	0.185	0.005
6645	590	295	0.557		7136	2162	1081	0.150	0.02
6646	0	0	0.074		7137	1172	586	0.060	0.01
6653	620	310	0.199		7143	1908	954	0.140	0.02
6671	890	445	0.040	0.33	7144	1496	748	0.085	0.01
6672	1960	980	0.070	0.96	7149	1985	993	0.130	0.005
6674	815	408	0.200	0.47	7161	2273	1137	0.050	0.17
6680	1959	980	0.070	0.22	7164	1851	926	0.080	0.03
6685	1032	516	0.240	0.08	7138-B	0	2.125		
6689	1246	623	0.180	0.09	503	1695	848	0.050	0.1
6693	1214	607	0.050	0.005	504	2740	1370	0.080	0.42
6694	2017	504	2.640	0.005	508	1869	935	0.050	0.07
6697	2085	1043	0.250	0.01	551	1028	257	1.500	0.005
6698	2356	1178	0.200		552	1281	641	0.165	0.01
6699	1241	621	0.080	0.005	572	1954	977	0.195	0.08
6700	2166	1083	0.140		580	3766	1883	0.150	0.02
6701	2111	1056	0.080	0.005	585	1692	846	0.365	0.005
6704	450	225	0.760	0.04	621	1945	973	0.165	0.005
6705	4355	2178	0.050		637	1827	914	0.090	0.01
6706	689	345	0.590	0.04	638	1888	944	0.940	0.01
6714	2072	1036	0.100	0.005	648	2188	1094	0.050	0.01
6717	2077	1039	0.050		649	2244	1122	0.150	0.005
6725	2267	1134	0.230	0.005	650	1120	560	0.285	0.01
6728	696	348	0.480	0.005	721	1863	932	0.180	
6756	2298	1149	0.100	0.05	729	1977	989	0.060	
6759	2078	1039	0.250		730	1727	864	0.055	0.005
6760	2017	1009	0.100		737	1257	629	0.650	0.05
6761	2500	1250	0.285		742	2262	1131	0.225	0.005
6762	2033	1017	0.490		755	1965	983	0.130	0.01
6763	2180	1090	0.670		765	1964	982	0.085	
6764	1815	908	0.300		770	1718	430	9.420	0.005
6765	2262	1131	0.215		772	1956	978	0.120	0.005
6766	2448	1224	0.310		784	1800	900	0.310	0.01
6767	2200	1100	0.495		A-19	4129	2065	0.088	
6769	1946	973	0.100		A-21	2103	1052	0.094	
6770	1834	917	0.085		A-23	3787	1894	0.084	
6768	2024	1012	0.790	0.01	6686	1863	932	0.190	
6773	1820	910	0.290	0.01	6771	1997	999	0.750	
6776	4103	2052	0.100	0.01	6772	2070	1035	0.365	
6777	1594	398	11.960	0.005	7127	1855	928	0.080	

	2290	1145	0.145		7128	1688	844	0.180	
6779	2015	1008	0.180		E-32	4441	2221	0.050	
6780	2545	1273	0.410	0.005	E-43	3171	1586	0.100	
6781	1913	957	0.075	0.01	I-27	4313	2157	0.100	0.02
6783	2610	1305	0.115						
6784	4687	2344	0.140						
6785	2035	1018	0.245						
6786	3270	1635	0.095						
6790	1014	507	0.170	0.01					
6795	2735	1368	0.085	0.01					
6796	2804	1402	0.050	0.01					
6907	2190	1095	0.050						
6908	2560	1280	0.160						

Total Weight 126,262 g
 Assay Au oz/t 0.259
 Assay % Cu 0.029

DETAILS OF TESTS

BOND WORK MILL CLOSED CIRCUIT GRINDABILITY TEST

Sample: Composite 3121
 Mesh of Grind: 150 mesh
 Feed: 10.9 % passing 150 mesh

Cycle	New Feed g	Number of Revolutions	grams of minus 150 mesh			
			In Mill Product	In Mill Feed	Net Product	Net Per Revolution
A	1325.0	125	318.2	144.4	173.8	1.39
B	318.2	247	334.4	34.7	299.7	1.21
C	334.4	283	381.7	36.5	345.2	1.22
D	381.7	276	383.1	41.6	341.5	1.24
E	383.1	272	377.2	41.8	335.4	1.23

Unit Volume (700 mL) = 1325.0 g in mill : Equivalent to 1893 kg/m³ at minus -6 mesh

Ideal potential product = 378.6 g

Average of last 3 periods : 380.7 g : 248 % circulating load
 : 1.23 Net g minus 150 mesh per revolution

BONDS FORMULA

$$W_i = 44.5 / (P_1)^{0.23} \times (G_{bp})^{0.82} \left(\frac{10}{\sqrt{P}} - \frac{10}{\sqrt{F}} \right)$$

Where:

- W_i = Work Index = 13.62
- P₁ = Screen size test in microns = 104
- G_{bp} = Net grams of undersize produced per revolution of test mill = 1.23
- P = Size in microns which 80 percent of test product passes = 74.0
- F = Size in microns which 80 percent of test feed passes = 2161.5

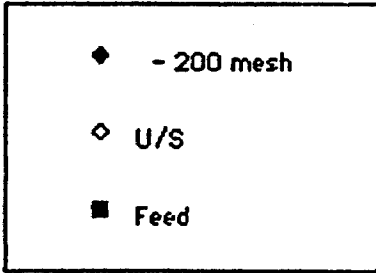
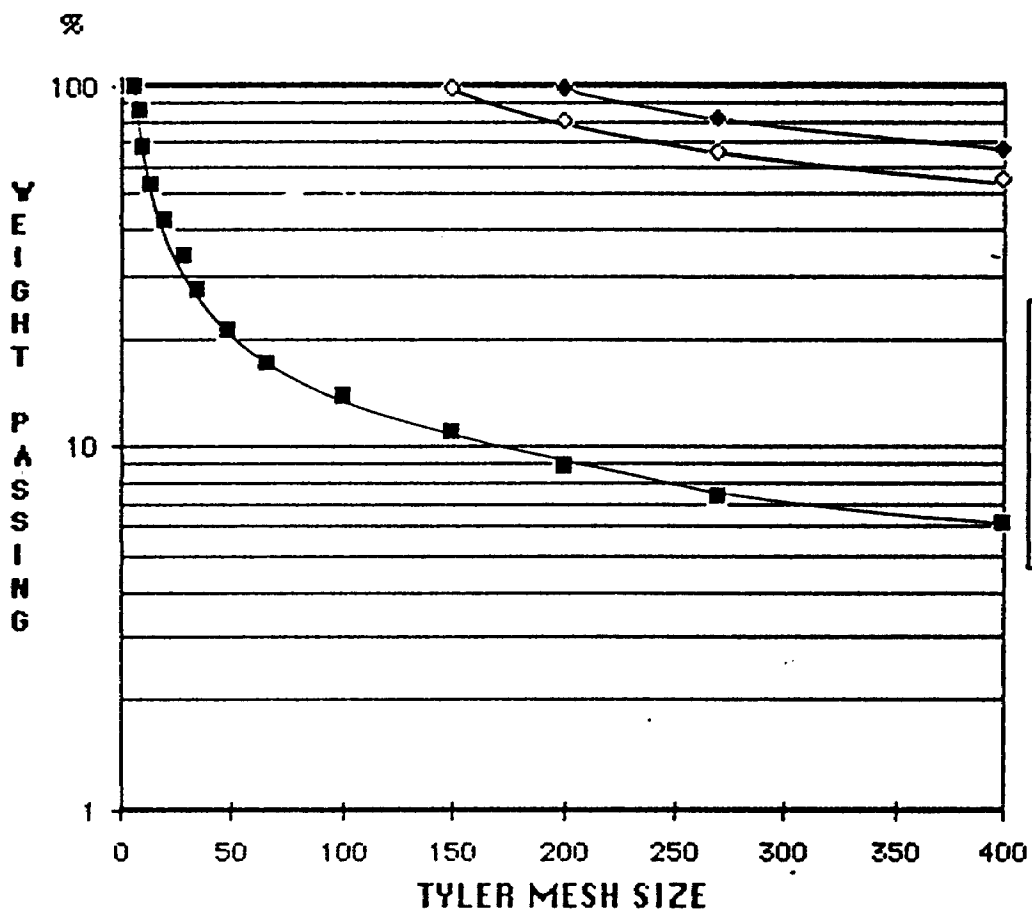
SCREEN ANALYSES:

Composite - Minus 6 mesh

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 3	0.4	0.4	99.6
4	0.0	0.4	99.6
6	0.3	0.7	99.3
8	14.4	15.1	84.9
10	17.0	32.1	67.9
14	15.2	47.3	52.7
20	10.5	57.8	42.2
28	8.4	66.2	33.8
35	6.3	72.5	27.5
48	6.4	78.9	21.1
65	4.1	83.0	17.0
100	3.3	86.3	13.7
150	2.8	89.1	10.9
200	2.0	91.1	8.9
270	1.6	92.7	7.3
400	1.2	93.9	6.1
- 400	6.1	100.0	-
Total	100.0	-	-

Undersize Cycles 3, 4, 5

+ 150	1.5	1.5	98.5
200	18.9	20.4	79.6
270	14.3	34.7	65.3
400	10.4	45.1	54.9
- 400	54.9	100.0	-
Total	100.0	-	-



BOND WORK MILL CLOSED CIRCUIT GRINDABILITY TEST

Sample: Composite 3121
 Mesh of Grind: 200 mesh
 Feed: 8.9 % passing 200 mesh

Cycle	New Feed g	Number of Revolutions	grams of minus 200 mesh			
			In Mill Product	In Mill Feed	Net Product	Net Per Revolution
1	1325.0	125	266.8	117.9	148.9	1.19
2	266.8	298	314.5	23.7	290.8	0.98
3	314.5	358	361.5	28.0	333.5	0.93
4	361.5	372	409.6	32.2	377.4	1.01
5	409.6	339	385.8	36.5	349.3	1.03
6	385.8	334	376.7	34.3	342.4	1.03
7	376.7	335	389.6	33.5	356.1	1.06
8	389.6	324	362.2	34.7	327.5	1.01

Unit Volume (700 mL) = 1325.0 g in mill : Equivalent to 1893 kg/m³ at minus 6 mesh

Ideal potential product = 378.6 g

Average of last 3 periods : 376.2 g : 252 % circulating load
 : 1.03 Net g minus 200 mesh per revolution

BONDS FORMULA

$$W_i = 44.5 / (P_1)^{0.23} \times (G_{bp})^{0.82} \left(\frac{10}{\sqrt{P}} - \frac{10}{\sqrt{F}} \right)$$

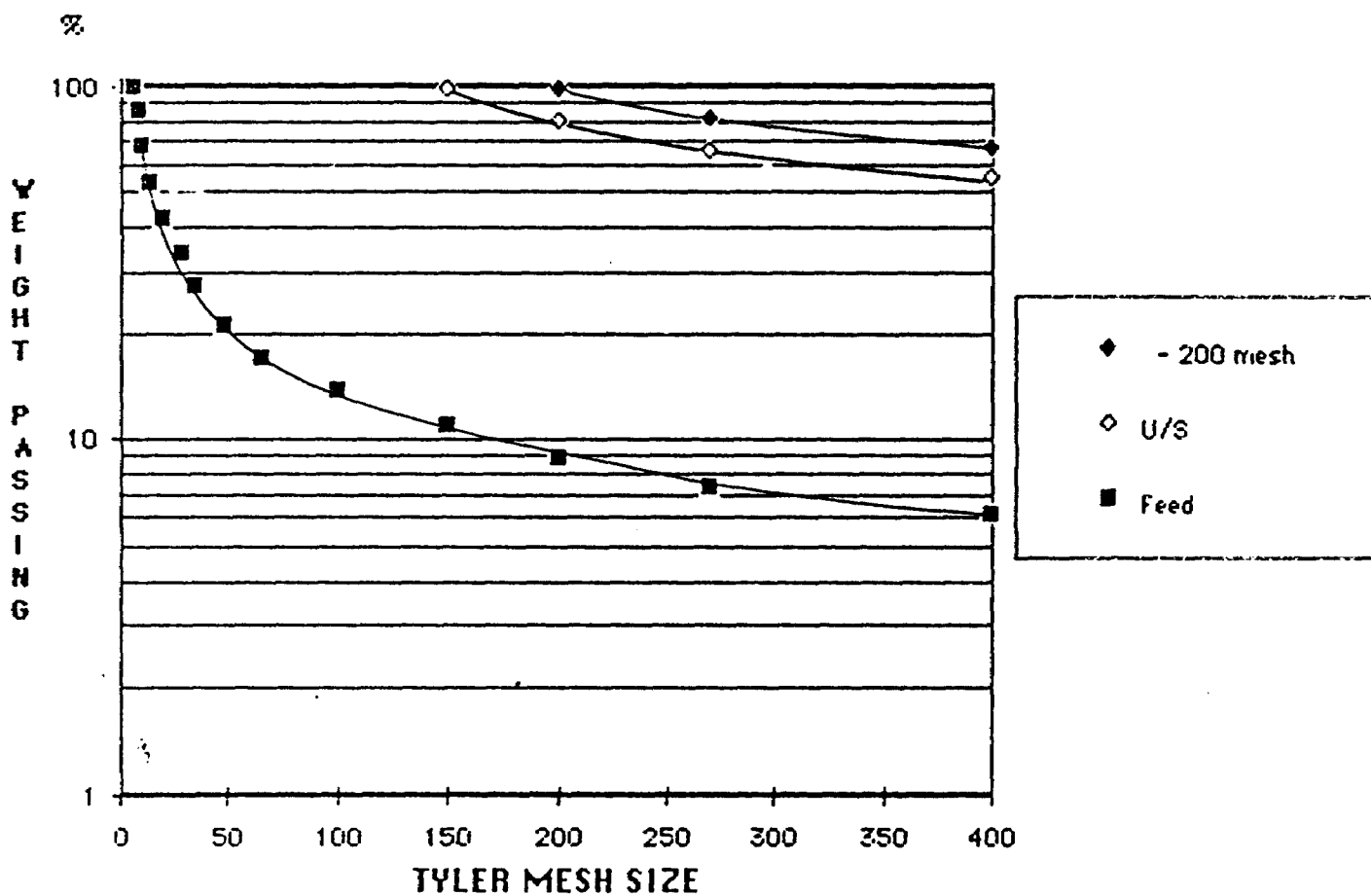
Where:

- W_i = Work Index = 13.78
- P₁ = Screen size test in microns = 74
- G_{bp} = Net grams of undersize produced per revolution of test mill = 1.03
- P = Size in microns which 80 percent of test product passes = 52.0
- F = Size in microns which 80 percent of test feed passes = 2161.5

SCREEN ANALYSES:

Minus 200 mesh Composite - Cycles 6, 7, 8

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 200	1.5	1.5	98.5
270	18.3	19.8	80.2
400	14.1	33.9	66.1
- 400	66.1	100.0	-
Total	100.0	-	-



Test No. 1

Purpose: To float a copper concentrate followed by the flotation of a pyrite concentrate.

Procedure: As indicated below.

Feed: 1 kg minus 10 mesh Composite.

Grind: 1 kg sample ground in the laboratory ball mill at 65 % solids for 15 minutes.

Conditions:

Stage	Reagents Added, g/t					Time, minutes		pH
	Ca(OH) ₂	M2030	H ₂ SO ₄	A350	MIBC	Cond.	Froth	
	-	-	-	-	-	-	-	8.5
Cu Rougher	700	5	-	-	20	1	1	11.0
	-	5	-	-	-	1	2	-
	-	5	-	-	-	1	1	-
Cu Cleaner	220	-	-	-	-	-	-	11.2
Rougher	-	-	1220	-	-	-	-	6.5
	-	-	-	25	25	1	2	-
	-	-	-	25	-	1	2	-
	-	-	-	25	-	1	5	-
	-	-	-	25	10	1	3	-
Cleaner	-	-	200	-	-	-	-	6.5

Stage	Rougher	Cleaner
Flotation Cell	500 g D-2	250 g D-2
Speed rpm	1500	900

Test No. 1 - Continued

Metallurgical Results

Product	Weight %	Assays %		% Distribution	
		Cu	Au	Cu	Au
1. Cu Concentrate	0.53	4.92	1066.0	76.8	66.5
2. Cu Tailing	4.75	0.063	15.3	8.8	8.5
3. Py Cleaner Conc.	8.76	0.021	14.8	5.3	15.2
4. Py Cleaner Tail.	8.46	0.010	3.85	2.4	3.8
5. Rougher Tailing	77.50	0.003	0.66	6.7	6.0
Head (Calc.)	100.00	0.034	8.55	100.0	100.0

Calculated Grades and Recoveries

Products 1 and 2	5.28	0.55	121.4	85.6	75.0
Products 1 to 3	14.04	0.22	54.9	90.9	90.2
Products 1 to 4	22.50	0.14	35.7	93.3	94.0
Products 3 and 4	17.22	0.015	9.42	7.7	19.0

SCREEN ANALYSES:

1 kg/15 minutes

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 65	0.9	0.9	99.1
100	1.3	2.2	97.8
150	4.2	6.4	93.6
200	8.1	14.5	85.5
270	10.5	25.0	75.0
400	11.0	36.0	64.0
- 400	64.0	100.0	-
Total	100.0	-	-

Test No. 1 - Continued

Screen Analyses - Cont'd

1 kg/25 minutes

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 65	0.4	0.4	99.6
100	0.1	0.5	99.5
150	0.5	1.0	99.0
200	2.1	3.1	96.9
270	4.9	8.0	92.0
400	9.0	17.0	83.0
- 400	83.0	100.0	-
Total	100.0	-	-

Test No. 2

Purpose: To float a series of rougher concentrates.
 Procedure: As indicated below.
 Feed: 1 kg minus 10 mesh Composite.
 Grind: 1 kg in the lab ball mill for 15 minutes at 65 % solids.
 Conditions:

Stage	Reagents Added, grams/tonne		Time, minutes		pH
	A350	MIBC	Cond.	Froth	
Rougher 1	25	25	1	2	8.5
2	25	-	1	2	-
3	25	5	1	5	-
4	25	10	1	5	-

Stage Rougher
 Flotation Cell 500 g D-2
 Speed rpm 1500

Metallurgical Results

Product	Weight %	Assays g/t Au	% Distribution Au
1. 1st Rougher Conc.	12.5	65.4	89.8
2. 2nd Rougher Conc.	4.9	6.11	3.3
3. 3rd Rougher Conc.	4.7	2.77	1.4
4. 4th Rougher Conc.	3.3	1.27	0.5
5. Rougher Tailing	74.6	0.61	5.0
Head (Calc.)	100.0	9.10	100.0

Calculated Grades and Recoveries

Products 1 and 2	17.4	48.7	93.1
Products 1 to 3	22.1	38.93	94.5
Products 1 to 4	25.4	34.04	95.0

Test No. 3- Continued

Metallurgical Results

Product	Amount	Assays g/t Au	% Distribution Au
1. 48 h Preg Solution	740 mL	3.98	72.7
2. 48 h Wash Solution	1720 mL	0.45	19.1
3. 48 h Cy. Residue	503.4 g	0.66	8.2
Head (Calc.)	503.4 g	8.05	100.0

Calculated Grades and Recoveries

Products 1 and 2	2460 mL	1.51	91.8
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8 h Preg Sol'n	3.91
24 h Preg Sol'n	4.06
32 h Preg Sol'n	4.04
48 h Preg Sol'n	4.08

Test No. 4

Purpose: To repeat Test 3 except without a preaeration stage.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 48 hour stage with samples taken at 8, 24, 32 and 48 hours. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh Composite.

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 0.5 gpL NaCN

pH: 11 with Ca(OH)₂

Grind: 1 kg sample ground in the lab ball mill for 15 minutes at 65 % solids.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2	0.53	0.30	0.50	0.23	0.23	0.07	0.27	0.16	11.2-11.2
2-4	0.28	0	0.27	0	0.50	0.07	0	0	11.2-11.2
4-8	0	0	0	0	0.50	0.07	0	0	11.2-11.2
8-24	0	0	0	0	0.45	0.05	0.05	0.02	11.2-11.0
24-32	0.05	0	0.05	0	0.50	0.04	0	0.01	11.0-11.0
32-48	0	0	0	0	0.49	0.03	0.01	0.01	11.0-10.8
Total	0.86	0.30	0.82	0.23	0.49	0.03	0.33	0.20	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.67
CaO : 0.40

Test No. 4 - Continued

Metallurgical Results

Product	Amount	Assays g/t Au	% Distribution Au
1. 48 h Preg Sol'n	745 mL	3.77	73.4
2. 48 h Wash Sol'n	2000 mL	0.36	18.8
3. 48 h Cyanide Residue	495.6 g	0.60	7.8
Head (Calc.)	495.6 g	7.72	100.0

Calculated Grades and Recoveries

Products 1 and 2	2745 mL	1.28	92.2
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8 h Preg Sol'n	3.64
24 h Preg Sol'n	3.79
32 h Preg Sol'n	3.83
48 h Preg Sol'n	3.85

Test No. 5

Purpose: To obtain a high grade free gold concentrate by gravity separation.

Procedure: The sample was pulped with water and passed over the Wilfley table through an open circuit. The concentrate and tailings were collected. The concentrate was then cleaned further on the Mozley separator. The Mozley concentrate was assayed and the tailings were combined with the Wilfley table tailings for further testing.

Sample: 2 kg minus 10 mesh Composite

Grind: 2 kg sample ground in the lab ball mill for 10 minutes at 65 % solids.

Metallurgical Results

Product	Weight %	Assays g/t Au	% Distribution Au
1. Table Concentrate	0.15	916	22.8
2. Table Tailing	99.85	4.67	77.2
Head (Calc.)	100.00	6.04	100.0

Test No. 5 - FLOTATION

Purpose: To float a series of rougher concentrates on a combined table tailing sample.

Procedure: As indicated below.

Feed: 2 kg combined table tail + Mozley tailing sample.

Grind: 2 kg sample for 30 minutes at 65 % solids in the lab ball mill.

Conditions:

Stage	Reagents Added, grams/tonne		Time, minutes		pH
	A350	MIBC	Cond.	Froth	
Rougher 1	25	25	1	2	8.5
2	25	-	1	2	-
3	25	5	1	5	-
4	25	10	1	6	-

Stage Rougher
 Flotation Cell 1000 g D-2
 Speed rpm 1800

Screen Analysis - Combined Products

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 100	0.4	0.4	99.6
150	2.0	2.4	97.6
200	5.5	7.9	92.1
270	8.9	16.8	83.2
400	11.8	28.6	71.4
- 400	71.4	100.0	-
Total	100.0	-	-

Test No. 5 - Continued

Metallurgical Results

Product	Weight %	Assays g/t Au	% Distribution Au
1. 1st Ro. Conc.	7.4	51.9	82.2
2. 2nd Ro. Conc.	2.3	17.3	8.5
3. 3rd Ro. Conc.	3.2	1.94	1.3
4. 4th Ro. Conc.	3.7	0.97	0.8
5. Rougher Tail.	83.4	0.40	7.2
Head (Calc.)	100.0	4.67	100.0

Calculated Grades and Recoveries

Products 1 and 2	9.7	43.70	90.7
Products 1 to 3	12.9	33.33	92.0
Products 1 to 4	16.6	26.12	92.8

OVERALL RESULTS :

1. Gravity Conc.	0.15	916.0	22.5
2. Rougher Conc. 1	7.36	51.9	63.7
3. Rougher Conc. 2	2.28	17.3	6.6
4. Rougher Conc. 3	3.15	1.94	1.0
5. Rougher Conc. 4	3.71	0.97	0.6
6. Rougher Tailing	83.35	0.40	5.6
Head (Calc.)	100.00	6.00	100.0

Calculated Grades and Recoveries

Products 1 and 2	7.51	68.8	86.2
Products 1 to 3	9.79	56.8	92.8
Products 1 to 4	12.94	43.5	93.8
Products 1 to 5	16.65	34.0	94.4

Test No. 6

Purpose: To conduct a flotation roughing test, followed by two cleaning stages.

Procedure: The roughing was conducted in three 3 minute stages, followed by two cleaning stages.

Feed: 2000 grams

Grind: 30 minutes per 2000 g sample in a lab ball mill at 65 % solids.

Conditions:

Stage	Reagents Added, grams/tonne		Time, minutes		pH
	AX350	MIBC	Cond.	Froth	
Rougher 1	20	10	3	3	8.0
2	15	5	1	3	-
3	10	5	1	3	-
1st Cleaner	-	-	-	3	-
	5	-	1	2	-
2nd Cleaner	-	-	-	2	-
	5	-	1	2	-

Stage	Rougher	1st Cleaner	2nd Cleaner
Flotation Cell	1000g D-2	500g D-2	250g D-2
Speed rpm	1800	1500	1200

Metallurgical Results

Product	Weight %	Assays g/t Au	% Distribution Au
1. 2nd Cl. Conc.	8.3	96.3	91.7
2. 2nd Cl. Tail.	0.8	7.74	0.7
3. 1st Cl. Tail.	5.5	2.82	1.8
4. Rougher Tail.	85.4	0.59	5.8
Head (Calc.)	100.0	8.71	100.0

Calculated Grades and Recoveries

Products 1 and 2	9.1	88.51	92.4
Products 1 to 3	14.6	56.23	94.2

Test No. 6 - Continued

Screen Analysis - Rougher Tailing

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 65	0.5	0.5	99.5
100	1.4	1.9	98.1
150	5.5	7.4	92.6
200	10.1	17.5	82.5
270	11.8	29.3	70.7
400	11.5	40.8	59.2
- 400	59.2	100.0	-
Total	100.0	-	-

Test No. 7

Purpose: Pre-aerate a coarse grind sample, followed by cyanidation.

Procedure: The sample was pulped with water in a 2 liter bottle. Pre-aeration was carried out for 24 hours at pH 11. NaCN and lime were added and the cyanidation was carried out on rolls in one 48 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 0.5 gpL NaCN

pH: 11 with Ca(OH)₂

Grind: 1 kg sample ground in the lab ball mill at 65 % solids for 10 minutes.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
Preaeration:									
0-2	-	0.30	-	0.23	-	-	-	-	11.2-10.5
2-18	-	0.20	-	0.15	-	-	-	-	11.3- 9.0
18-24	-	0.30	-	0.23	-	0.09	-	0.52	11.4-11.3
Cyanidation:									
0-2	0.53	0	0.50	0	0.50	0.09	0	0	11.3-11.3
2-28	0	0	0	0	0.5	0.07	0	0.02	11.3-11.2
28-48	0	0	0	0	0.44	0.04	0.06	0.03	11.2-11.1
Total	0.53	0.60	0.50	0.61	0.44	0.04	0.06	0.57	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.12
 CaO : 1.14

Test No. 7 - Continued

Metallurgical Results

Product	Amount	Assays mg/L,g/t					% Distribution Au
		Au	Cu	CN(T)	CN(F)	CNS	
1. Cy Preg Solution	830 mL	4.15	19.9	243	228	46.2	74.0
2. Cy Wash Solution	1600 mL	0.48	-	-	-	-	16.5
3. Cy Residue	498.4 g	0.89	-	-	-	-	9.5
Head (Calc.)	498.4 g	9.34	-	-	-	-	100.0

Calculated Grades and Recoveries

Products 1 and 2	2430 mL	1.73	-	-	-	-	90.5
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Test No. 8

Purpose: Same as for Test 7 without pre-aeration.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 48 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample.

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 0.50 gpL NaCN

Grind: 1 kg sample was ground in the lab ball mill at 65 % solids for 10 minutes.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2	0.53	0.30	0.50	0.23	0.50	0.04	0	0.19	11.2-10.9
2-18	0	0.15	0	0.11	0.50	0.07	0	0.08	11.2-11.2
18-26	0	0	0	0	0.48	0.07	0.02	0	11.2-11.2
26-48	0.02	0	0.02	0	0.44	0.05	0.06	0.02	11.1-11.1
Total	0.55	0.45	0.52	0.34	0.44	0.05	0.08	0.29	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.16
CaO : 0.58

Test No. 8 - Continued

Metallurgical Results

Product	Amount	Assays mg/L, g/t				% Distribution Au
		Au	CN(T)	CN(F)	CNS	
1. Cy Preg Solution	820 mL	4.58	252	242	31.0	74.6
2. Cy Wash Solution	1910 mL	0.44	-	-	-	16.7
3. Cy Residue	499.9 g	0.88	-	-	-	8.7
Head (Calc.)	499.9 g	10.1	-	-	-	100.0

Calculated Grades and Recoveries

Products 1 and 2	2730 mL	1.68	-	-	-	91.3
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Screen Analysis - 48 h Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 20	1.8	1.8	98.2
28	0.7	2.5	97.5
35	0.7	3.2	96.8
48	1.1	4.3	95.7
65	2.5	6.8	93.2
100	5.6	12.4	87.6
150	10.2	22.6	77.4
200	10.7	33.3	66.7
270	10.1	43.4	56.6
400	8.0	51.4	48.6
- 400	48.6	100.0	-
Total	100.0	-	-

Test No. 9

Purpose: Preaerate a fine grind sample, followed by cyanidation.

Procedure: The sample was pulped with water in a 2 liter bottle. Preaeration was carried out for 24 hours at pH 11. NaCN and lime were added and the cyanidation was carried out on rolls in one 48 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample.

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 0.5 gpL NaCN

pH: 11 with Ca(OH)₂

Grind: 1 kg sample was ground in the lab ball mill at 65 % solids for 20 minutes.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
Preaeration:									
0-2	-	0.30	-	0.23	-	-	-	-	11.2-10.3
2-18	-	0.20	-	0.15	-	-	-	-	11.3- 9.8
18-24	-	0.30	-	0.23	-	0.03	-	0.58	11.4-10.6
Cyanidation:									
0-2	0.53	0.15	0.50	0.11	0.50	0.07	0	0.07	11.3-11.3
2-28	0	0	0	0	0.50	0.03	0	0.04	11.3-11.0
28-48	0	0	0	0	0.41	0.01	0.09	0.02	11.0-10.8
Total	0.53	0.95	0.50	0.72	0.41	0.01	0.09	0.71	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.18
CaO : 1.42

Test No. 9 - Continued

Metallurgical Results

Product	Amount	Assays mg/L, g/t					% Dist. Au
		Au	Cu	CN(T)	CN(F)	CNS	
1. Cy Preg Solution	830 mL	5.38	18.0	226	210	73.4	76.0
2. Cy Wash Solution	1420 mL	0.85	-	-	-	-	20.5
3. Cy Residue	498.4 g	0.41	-	-	-	-	3.5
Head (Calc.)	498.4 g	11.8	-	-	-	-	100.0

Calculated Grades and Recoveries

Products 1 and 2	2250 mL	2.52	-	-	-	-	96.5
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Test No. 10

Purpose: Same as Test 9 without pre-aeration.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 48 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample.

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 0.5 gpL NaCN

pH: 11 with Ca(OH)₂

Grind: 1 kg sample was ground in the lab ball mill at 65 % solids for 20 minutes.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2	0.53	0.30	0.50	0.23	0.45	0.03	0.05	0.20	11.2-10.8
2-18	0.05	0.15	0.05	0.11	0.50	0.05	0	0.09	11.2-11.1
18-26	0	0	0	0	0.46	0.05	0.04	0	11.1-11.1
26-48	0.04	0	0.04	0	0.46	0.03	0.04	0.02	11.1-11.0
Total	0.62	0.45	0.59	0.34	0.46	0.03	0.13	0.31	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.26
CaO : 0.62

Test No. 10 - Continued

Metallurgical Results

Product	Amount	Assays mg/L,g/t				% Dist. Au
		Au	CN(T)	CN(F)	CNS	
1. Cy Preg Solution	820 mL	4.94	264	240	34.8	76.3
2. Cy Wash Solution	2040 mL	0.52	-	-	-	20.0
3. Cy Residue	498.5 g	0.40	-	-	-	3.7
Head (Calc.)	498.5 g	10.6	-	-	-	100.0

Calculated Grades and Recoveries

Products 1 and 2	2860 mL	1.79	-	-	-	96.3
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Screen Analysis - 48 h Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 65	0.4	0.4	99.6
100	0.1	0.5	99.5
150	0.7	1.2	98.8
200	2.7	3.9	96.1
270	6.5	10.4	89.6
400	11.2	21.6	78.4
- 400	78.4	100.0	-
Total	100.0	-	-

Test No. 11

Purpose: Same as Test 6 but with a finer primary grind.
 Procedure: As noted below.
 Feed: 2000 grams
 Grind: 50 minutes per 2000 g sample in a lab ball mill at 65 % solids.
 Conditions:

Stage	Reagents Added, grams/tonne		Time, minutes		pH
	AX350	MIBC	Cond.	Froth	
Rougher 1	20	10	3	3	8.0
2	15	5	1	3	-
3	10	5	1	3	-
1st Cleaner	-	-	-	3	-
	5	-	1	2	-
2nd Cleaner	-	-	-	2	-
	5	-	1	2	-

Stage	Rougher	1st Cleaner	2nd Cleaner
Flotation Cell	1000g D-2	500g D-2	250g D-2
Speed rpm	1800	1500	1200

Metallurgical Results

Product	Weight %	Assays g/t Au	% Distribution Au
1. 2nd Cleaner Conc.	8.11	101.0	92.3
2. 2nd Cleaner Tail.	0.89	31.1	3.1
3. 1st Cleaner Tail.	7.54	1.09	0.9
4. Rougher Tailing	83.46	0.39	3.7
Head (Calc.)	100.00	8.87	100.0

Calculated Grades and Recoveries

Products 1 and 2	9.00	94.1	95.4
Products 1 to 3	16.54	51.7	96.3

Test No. 11 - Continued

Screen Analysis - Rougher Tailing

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 150	0.2	0.2	99.8
200	1.7	1.9	98.1
270	4.8	6.7	93.3
400	9.6	16.3	83.7
- 400	83.7	100.0	-
Total	100.0	-	-

Test No. 12

Purpose: To cyanide the sample for 8 hours.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 8 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 grams minus 10 mesh sample.

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 0.5 gpL NaCN

pH: 11 with Ca(OH)₂

Grind: 19 minutes per 1000 g sample in a lab ball mill at 65 % solids.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2	0.53	0.30	0.50	0.23	0.5	0.03	0	0.20	11.1-11.0
2-8	0	0	0	0	0.45	0.02	0.05	0.01	11.0-10.8
Total	0.53	0.30	0.50	0.23	0.45	0.02	0.05	0.21	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.10
CaO : 0.42

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
1. 8 h Preg+Wash Sol'n	1925 mL	2.09	86.8
2. 8 h Cyanide Residue	500.4 g	1.22	13.2
Head (Calc.)	500.4 g	9.25	100.0

Test No. 12 - Continued

Screen Analysis - 8 h Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 65	0.3	0.3	99.7
100	0.1	0.4	99.6
150	0.9	1.3	98.7
200	3.6	4.9	95.1
270	7.6	12.5	87.5
400	11.6	24.1	75.9
- 400	75.9	100.0	-
Total	100.0	-	-

Test No. 13

Purpose: To cyanide the sample for 16 hours.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 16 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 0.5 gpL NaCN

pH: 11 with Ca(OH)₂

Grind: 19 minutes per 1000 g sample in a lab ball mill at 65 % solids.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-16	0.53	0.30	0.50	0.23	0.45	0.05	0.05	0.18	11.3-11.0
Total	0.53	0.30	0.50	0.23	0.45	0.05	0.05	0.18	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.10
CaL : 0.36

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
16 h Preg + Wash Sol'n	1900 mL	2.32	87.0
16 h Cyanide Residue	499.5 g	1.32	13.0
Head (Calc.)	499.5 g	10.15	100.0

Test No. 14

Purpose: To cyanide the sample for 24 hours.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 24 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 grams minus 10 mesh sample

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 0.5 g/L NaCN

pH: 11 with Ca(OH)₂

Grind: 19 minutes per 1000 g sample in a lab ball mill at 65 % solids.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2.5	0.53	0.30	0.50	0.23	0.50	0.02	0	0.21	11.3-11.0
2.5-24	0	0	0	0	0.42	0.01	0.08	0.01	11.0-10.6
Total	0.53	0.30	0.50	0.23	0.42	0.01	0.08	0.22	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.16
CaO : 0.44

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
24 h Preg + Wash Sol'n	1810 mL	2.54	95.2
24 h Cyanide Residue	500.3 g	0.46	4.8
Head (Calc.)	500.3 g	9.65	100.0

Test No. 15

Purpose: To cyanide the sample for 36 hours.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 36 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 0.5 g/L NaCN

pH: 11 with Ca(OH)₂

Grind: 19 minutes per 1000 g sample in a lab ball mill at 65 % solids.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-3	0.53	0.30	0.5	0.23	0.50	0.02	0	0.21	11.3-11.0
3-36	0	0	0	0	0.45	0.01	0.05	0.01	11.0-10.5
Total	0.53	0.30	0.50	0.23	0.45	0.01	0.05	0.22	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.10
CaO : 0.44

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
36 h Preg + Wash Sol'n	1880 mL	1.93	92.6
36 h Cyanide Residue	499.3 g	0.58	7.4
Head (Calc.)	499.3 g	7.85	100.0

Test No. 16

Purpose: Same as Test 12 with 1 g/L NaCN.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 8 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample.

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 1.0 g/L NaCN

pH: 11 with Ca(OH)₂

Grind: 19 minutes per 1000 g sample in a lab ball mill at 65 % solids.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2	1.06	0.30	1.00	0.23	1.0	0.03	0	0.20	11.0-11.0
2-8	0	0	0	0	0.94	0.03	0.06	0	11.0-10.8
Total	1.06	0.30	1.00	0.23	0.94	0.03	0.06	0.20	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.12
CaO : 0.40

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
8 h Preg + Wash Sol'n	1870 mL	1.76	93.5
8 h Cyanide Residue	498.1 g	0.46	6.5
Head (Calc.)	498.1 g	7.07	100.0

Test No. 17

Purpose: Same as Test 16 with 24 hours cyanidation.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 24 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample.

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 1.0 gpL NaCN

pH: 11 with Ca(OH)₂

Grind: 19 minutes per 1000 g sample in a lab ball mill at 65 % solids.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2.5	1.06	0.30	1.00	0.23	1.0	0.03	0	0.20	11.0-11.0
2.5-24	0	0	0	0	0.91	0.02	0.08	0.01	11.0-10.6
Total	1.06	0.30	1.00	0.23	0.19	0.02	0.08	0.21	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.16
 CaO : 0.42

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
24 h Preg + Wash Sol'n	2140 mL	3.26	97.8
24 h Cyanide Residue	499.8 g	0.33	2.2
Head (Calc.)	499.8 g	14.29	100.0

Test No. 18

Purpose: Same as Test 12 but with a finer grind.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 8 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 0.5 gpL NaCN

pH: 11 with Ca(OH)₂

Grind: 25 minutes per 1000 g sample in a lab ball mill at 65 % solids.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2	0.53	0.30	0.50	0.23	0.5	0.03	0	0.20	11.0-11.0
2-8	0	0	0	0	0.48	0.02	0.02	0.01	11.0-10.6
Total	0.53	0.30	0.50	0.23	0.48	0.02	0.02	0.21	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.04
CaO : 0.42

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
8 h Preg + Wash Sol'n	1990 mL	2.09	94.1
8 h Cyanide Residue	497.4 g	0.52	5.9
Head (Calc.)	497.4 g	8.89	100.0

Test No. 19

Purpose: Same as Test 18 with 24 hours cyanidation.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 24 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 0.5 g/L NaCN

pH: 11 with Ca(OH)₂

Grind: 25 minutes per 1000 g sample in a lab ball mill at 65 % solids.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2.5	0.53	0.30	0.50	0.23	0.45	0.03	0.05	0.20	11.3-11.0
2.5-24	0.05	0	0.05	0	0.45	0.01	0.05	0.02	11.0-10.8
Total	0.58	0.30	0.55	0.23	0.45	0.01	0.10	0.22	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.20
CaO : 0.44

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
24 h Preg + Wash Sol'n	1940 mL	3.15	96.7
24 h Cyanide Residue	499.3 g	0.42	3.3
Head (Calc.)	499.3 g	12.66	100.0

Test No. 19 - Continued

Screen Analysis - 24 h Cyanide Residue

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 65	0.3	0.3	99.7
100	0.1	0.4	99.6
150	1.0	1.4	98.6
200	3.7	5.1	94.9
270	7.5	12.6	87.4
400	11.2	23.8	76.2
- 400	76.2	100.0	-
Total	100.0	-	-

Test No. 20

Purpose: Same as Test 11 at a coarser grind.
 Procedure: As below.
 Feed: 2000 grams
 Grind: 43 minutes per 2000 g sample in a lab ball mill at 65 % solids.
 Conditions:

Stage	Reagents Added, grams/tonne		Time, minutes		pH
	AX350	MIBC	Cond.	Froth	
Rougher 1	20	10	3	3	8.0
2	15	5	1	3	-
3	10	5	1	3	-
1st Cleaner	-	-	-	3	-
	5	-	1	2	-
2nd Cleaner	-	-	-	2	-
	5	-	1	2	-

Stage	Rougher	1st Cleaner	2nd Cleaner
Flotation Cell	1000g D-1	500g D-1	250g D-1
Speed rpm	1800	1500	1200

Metallurgical Results

Product	Weight %	Assays g/t Au	% Distribution Au
1. 2nd Cleaner Conc.	8.31	94.6	93.9
2. 2nd Cleaner Tail.	0.80	3.87	0.4
3. 1st Cleaner Tail.	6.41	1.07	0.8
4. Rougher Tailing	84.48	0.49	4.9
Head (Calc.)	100.00	8.37	100.0

Calculated Grades and Recoveries

Products 1 and 2	9.11	86.63	94.3
Products 1 to 3	15.52	51.29	95.1

Test No. 20 - Continued

Screen Analysis - Rougher Tailing

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 150	0.6	0.6	99.4
200	2.8	3.4	96.6
270	7.1	10.5	89.5
400	12.1	22.6	77.4
- 400	77.4	100.0	-
Total	100.0	-	-

Test No. 21 - Flotation

Purpose: To conduct a flotation, followed by the cyanidation on the rougher concentrate.

Procedure: As below.

Feed: 2000 grams

Grind: 43 minutes per 2000 g sample in a lab ball mill at 65 % solids.

Conditions:

Stage	Reagents Added, grams/tonne		Time, minutes		pH
	AX350	MIBC	Cond.	Froth	
Rougher 1	20	10	3	3	8.0
2	15	5	1	3	-
3	10	5	1	3	-

Stage Flotation Cell Rougher
 Speed rpm 1000 g D-1
 1800

Cyanidation:

Purpose: To cyanide the flotation rougher concentrate.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 36 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 300 g flotation rougher concentrate

Solution Volume: 600 mL Pulp Density 33 % solids

Solution Composition: 0.5 gpL NaCN

pH: 11 with Ca(OH)₂

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2.5	0.32	0.30	0.30	0.23	0.24	0.06	0.06	0.17	11.6-11.1
2.5-36	0.06	0	0.06	0	0.25	0.03	0.05	0.03	11.1-10.9
Total	0.38	0.30	0.36	0.23	0.25	0.03	0.11	0.20	-

Test No. 21 - Continued

Metallurgical Results

Product	Amount	Assays mg/L,g/t Au	% Distribution Au
1. Cy Preg+Wash Sol'n	1230 mL	14.0	76.7
2. Cyanide Residue	284.9 g	15.2	19.3
3. Rougher Tailing	1714.2 g	0.53	4.0
Head (Calc.)	1999.1 g	9.73	100.0

Calculated Grades and Recoveries

Products 1 and 2	284.9 g	75.6	96.0
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$284.9 / 1999.1 = 14.25\%$

Test No. 22

Purpose: To repeat Test 15.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 36 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 0.5 g/L NaCN

pH: 11 with Ca(OH)₂

Grind: 19 minutes per 1000 g sample in a lab ball mill at 65 % solids.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-16	0.53	0.30	0.50	0.23	0.23	0.04	0.27	0.19	11.3-11.1
16-36	0.28	0	0.27	0	0.41	0.03	0.09	0.01	11.1-11.0
Total	0.81	0.30	0.77	0.23	0.41	0.03	0.36	0.20	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.72
 CaO : 0.40

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
36h Preg + Wash Sol'n	1880 mL	2.27	95.2
36 h Cyanide Residue	498.6 g	0.43	4.8
Head (Calc.)	498.6 g	8.99	100.0

Test No. 23

Purpose: To repeat Test 13.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 16 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample

Solution Volume: 1000 mL Pulp Density 33 % solids

Solution Composition: 0.5 g/L NaCN

pH: 11 with Ca(OH)₂

Grind: 1 kg sample ground in the lab ball mill for 19 minutes at 65 % solids.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual NaCN	Actual Ca(OH) ₂	Equivalent NaCN	Equivalent CaO	Grams NaCN	Grams CaO	Grams NaCN	Grams CaO	
0-16	0.53	0.30	0.50	0.23	0.45	0.02	0.05	0.21	11.3-10.9
Total	0.53	0.30	0.50	0.23	0.45	0.02	0.05	0.21	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.10
CaO : 0.42

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
16h Preg + Wash Sol'n	1970 mL	2.49	89.3
16h Cyanide Residue	500.3 g	1.18	10.7
Head (Calc.)	500.3 g	11.0	100.0

Test No. 24 - Flotation

Purpose: As for Test 21.

Procedure: As below.

Feed: 2000 grams

Grind: 43 minutes per 2000 grams sample in the lab ball mill at 65 % solids.

Conditions:

Stage	Reagents Added, grams/tonne		Time, minutes		pH
	AX350	MIBC	Cond.	Froth	
Rougher 1	20	10	3	3	8.0
2	15	5	1	3	-
3	10	5	1	3	-

Stage Rougher
 Flotation Cell Denver 1000g D-1
 Speed rpm 1800

Metallurgical Results

Product	Weight %	Assays g/t Au	% Distribution Au
Rougher Conc.	15.0	60.3	95.2
Rougher Tail.	85.0	0.54	4.8
Head (Calc.)	100.0	9.48	100.0

Test No. 24 - Cyanidation

Purpose: To cyanide the flotation rougher conc.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 48 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 291 g flotation rougher conc.

Solution Volume: 590 mL Pulp Density 33 % solids

Solution Composition: 1.0 gpL NaCN

pH: 11 with Ca(OH)₂

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual NaCN	Ca(OH) ₂	Equivalent NaCN	CaO	Grams NaCN	CaO	Grams NaCN	CaO	
0-16	0.62	0.30	0.59	0.23	0.41	0.03	0.18	0.20	11.6-11.2
16-48	0.19	0	0.18	0	0.35	0	0.24	0.03	11.2-11.0
Total	0.81	0.30	0.77	0.23	0.35	0	0.42	0.23	-

Reagent Consumption (kg/t of cyanide feed)

NaCN : 1.41
CaO : 0.77

added
2.876
.79

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
48h Preg + Wash Sol'n	1735 mL	9.58	92.6
48h Cyanide Residue	297.6 g	4.63	7.4
Head (Calc.)	297.6 g	60.3	100.0

Test No. 24 - Continued

OVERALL RESULTS:

Product	Amount	Assays mg/L,g/t Au	% Distribution Au
1. Cy Preg + Wash Sol'n	1735 mL	9.58	87.9
2. Cyanide Residue	297.6 g	4.63	7.3
3. Rougher Tailing	1690.4 g	0.54	4.8
Head (Calc.)	1988.0 g	9.51	100.0

Calculated Grades and Recoveries

Products 1 and 2	297.6 g	60.5	95.2
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Test No. 25

Purpose: To investigate the recovery of free gold from the composite by amalgamation with mercury.

Procedure: The sample was pulped with water in a 4 liter bottle. Mercury and sodium hydroxide were added. The bottle was then placed on the rolls for 2 hours. Mercury was then obtained by elutriation in a separatory funnel. The amalgam tail was then filtered and assayed for gold.

Feed: 1000 grams minus 10 mesh composite

Grind: 1 kg sample ground in the lab ball mill for 20 minutes at 65 % solids.

Mercury: 20 grams

NaOH: 0.5 grams

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
Amalgam Conc.	-	3.273	33.8
Amalgam Tail.	994.6 g	6.45	66.2
Head (Calc.)	994.6 g	9.74	100.0

Test No. 26

Purpose: To investigate the effect of the pulp density on the gold extraction, leaching with 0.5 g/L NaCN.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 16 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 grams minus 10 mesh composite

Solution Volume: 500 mL Pulp Density 50 % solids

Solution Composition: 0.5 gpL NaCN

pH: 11 with Ca(OH)₂

Grind: 1 kg sample was ground in the lab ball mill for 19 minutes at 50 % solids.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-16	0.26	0.30	0.25	0.23	0.18	0.02	0.07	0.21	11.5-10.9
Total	0.26	0.30	0.25	0.23	0.18	0.02	0.07	0.21	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.14
CaO : 0.42

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
16 h Preg + Wash Sol'n	1825 mL	2.65	95.5
16h Cyanide Residue	501.0 g	0.45	4.5
Head (Calc.)	501.0 g	10.1	100.0

Test No. 27

Purpose: To investigate the gold extraction at 50 % solids and 30 h retention time leached with 0.5 g/L NaCN.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 30 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh composite

Solution Volume: 500 mL Pulp Density 50 % solids

Solution Composition: 0.5 gpL NaCN

pH: 11 with Ca(OH)_2

Grind: 1 kg sample ground in the lab ball mill at 65 % solids for 19 minutes.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH)_2	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-30	0.26	0.30	0.25	0.23	0.16	0	0.09	0.23	11.5-10.2
Total	0.26	0.30	0.25	0.23	0.16	0	0.09	0.23	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.18
CaO : 0.46

Metallurgical Results

Product	Amount	Assays mg/L,g/t Au	% Distribution Au
30 h Preg + Wash Sol'n	1620 mL	2.51	95.4
30 h Cyanide Residue	499.2 g	0.39	4.6
Head (Calc.)	499.2 g	8.53	100.0

Test No. 28

Purpose: As for Test 26, but leaching with 1.0 g/L NaCN.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 16 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh Composite

Solution Volume: 500 mL Pulp Density 50 % solids

Solution Composition: 1.0 g/L NaCN

pH: 11 with Ca(OH)₂

Grind: 1 kg sample ground in the lab ball mill for 19 minutes at 65 % solids.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-16	0.53	0.30	0.50	0.23	0.42	0.02	0.08	0.21	11.6-11.0
Total	0.53	0.30	0.50	0.23	0.42	0.02	0.08	0.21	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.16
CaO : 0.42

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
16h Preg + Wash Sol'n	1920 mL	1.78	95.1
16h Cyanide Residue	499.0 g	0.35	4.9
Head (Calc.)	499.0 g	7.20	100.0

Test No. 29

Purpose: To investigate the recovery of gold at 50 % solids and 1.0 g/L NaCN with a 30 h retention time.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 30 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh Composite

Solution Volume: 500 mL Pulp Density 50 % solids

Solution Composition: 1.0 g/L NaCN

pH: 11 with Ca(OH)₂

Grind: 1 kg sample ground in the lab ball mill at 65 % solids for 19 minutes.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual NaCN	Ca(OH) ₂	Equivalent NaCN	CaO	Grams NaCN	CaO	Grams NaCN	CaO	
0-30	0.53	0.30	0.50	0.23	0.41	0.02	0.09	0.21	11.5-10.2
Total	0.53	0.30	0.50	0.23	0.41	0.02	0.09	0.21	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.18
CaO : 0.42

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
30h Preg + Wash Sol'n	1880 mL	2.60	95.9
30h Cyanide Residue	500.4 g	0.42	4.1
Head (Calc.)	500.4 g	10.2	100.0

Test No. 30

Purpose: To investigate the effect of lime and cyanide in the grind on the extraction of gold.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 16 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 1000 g minus 10 mesh composite

Solution Volume: 2000 mL Pulp Density 33 % solids

Solution Composition: 0.5 g/L NaCN

pH: 11 with Ca(OH)₂

Grind: 1 kg sample was ground in the lab ball mill at 65 % solids for 19 minutes.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
Grind	0.25	0.60	0.24	0.46	0.24	0	0.0	0.46	10.1
Cyanidation: 0-16	0.96	0.50	0.91	0.38	0.89	0.16	0.11	0.22	11.6-11.3
Total	1.30	1.10	1.15	0.84	1.13	0.16	0.11	0.68	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.11
CaO : 0.68

Metallurgical Results

Product	Amount	Assays mg/L, g/t				% Dist. Au
		Au	Fe	CN(T)	CN(F)	
1. Mill Discharge Sol'n	5400 mL	0.19	1.62	14.2	8.3	8.3
2. 16h Preg + Wash Sol'n	3880 mL	2.81	-	-	-	88.2
3. 16h Cyanide Residue	995.0 g	0.43	-	-	-	3.5
Lead (Calc.)	995.0 g	12.4	-	-	-	100.0

Calculated Grades and Recoveries

Products 1 and 2	9280 mL	1.28	-	-	-	96.5
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Test No. 31

Purpose: To investigate the effect of retention time and alkalinity on the recovery of gold from the sample.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 12 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample

Solution Volume: 500 mL Pulp Density 50 % solids

Solution Composition: 0.50 gpL NaCN

pH: 10.5 with Ca(OH)₂

Grind: 50 minutes/2 kg at 65 % solids in a lab ball mill.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2	0.26	0.09	0.25	0.07	0.02	0.01	0.23	0.06	10.6-10.1
2-4.5	0.24	0.04	0.23	0.03	0.16	0	0.09	0.04	10.5-10.3
4.5-12	0.09	0.04	0.09	0.03	0.25	0	0	0.03	10.5-10.4
Total	0.59	0.17	0.57	0.13	0.25	0	0.32	0.13	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.65
 CaO : 0.26

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
12h Preg + Wash Sol'n	1980 mL	1.70	93.9
12h Residue	495.3 g	0.44	6.1
Head (Calc.)	495.3 g	7.24	100.0

Test No. 32

Purpose: As for Test 31.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 24 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample

Solution Volume: 500 mL Pulp Density 50 % solids

Solution Composition: 0.50 gpL NaCN

pH: 10.5 with Ca(OH)₂

Grind: 50 minutes/2 kg at 65 % solids in a lab ball mill.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2	0.26	0.09	0.25	0.07	0.01	0	0.24	0.07	10.6- 9.9
2-4.5	0.25	0.04	0.24	0.03	0.18	0	0.07	0.03	10.5-10.3
4.5-24	0.07	0.04	0.07	0.03	0.21	0	0.04	0.03	10.5-10.3
Total	0.58	0.17	0.56	0.13	0.21	0	0.35	0.13	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.71
CaO : 0.26

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
24h Preg + Wash Sol'n	1820 mL	2.12	95.6
24h Residue	493.8 g	0.36	4.4
Head (Calc.)	493.8 g	8.17	100.0

Test No. 33

Purpose: As for Test 31.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 12 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample

Solution Volume: 500 mL Pulp Density 50 % solids

Solution Composition: 0.50 gpL NaCN

pH: 11.0 with Ca(OH)₂

Grind: 50 minutes/2 kg at 65 % solids in a lab ball mill.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2	0.26	0.16	0.25	0.12	0.05	0.01	0.20	0.11	11.2-10.5
2-4.5	0.21	0.10	0.20	0.08	0.19	0.01	0.06	0.08	11.2-11.0
4.5-12	0.06	0	0.06	0	0.25	0.01	0	0	11.0-10.8
Total	0.53	0.26	0.51	0.20	0.25	0.01	0.26	0.19	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.52
CaO : 0.38

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
12h Preg + Wash	1850 mL	1.82	94.4
12h Residue	499.2 g	0.40	5.6
Head (Calc.)	499.2 g	7.15	100.0

Test No. 34

Purpose: As for Test 31.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 24 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh sample

Solution Volume: 500 mL Pulp Density 50 % solids

Solution Composition: 0.50 g/L NaCN

pH: 11.0 with Ca(OH)₂

Grind: 50 minutes/2 kg at 65 % solids in a lab ball mill.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2	0.26	0.16	0.25	0.12	0.05	0.01	0.20	0.11	11.2-10.4
2-4.5	0.21	0.10	0.20	0.08	0.20	0.01	0.05	0.08	11.1-11.0
4.5-24	0.05	0	0.05	0	0.21	0.01	0.04	0	11.0-10.7
Total	0.52	0.26	0.50	0.20	0.21	0.01	0.29	0.19	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.58
CaO : 0.38

Metallurgical Results

Product	Amount	Assays mg/L, g/t ·Au	% Distribution Au
24h Preg + Wash	1870 mL	1.64	94.8
24h Residue	497.7 g	0.34	5.2
Head (Calc.)	497.7 g	6.50	100.0

Test No. 35

Purpose: To conduct a cyanidation locked cycle test.

CYCLE A:

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 24 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 1000g minus 10 mesh sample

Solution Volume: 1000mL Pulp Density 50 % solids

Solution Composition: 0.50 g/L NaCN

pH: 10.5 with Ca(OH)₂

Grind: 20 minutes/kg at 65 % solids in a lab ball mill.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2	0.53	0.15	0.50	0.11	0.22	0	0.28	0.11	10.5- 9.9
2-17.5	0.29	0.10	0.28	0.08	0.34	0	0.16	0.08	10.5-10.1
17.5-24	0.17	0.07	0.16	0.05	0.50	0.01	0	0.04	10.5-10.4
Total	0.99	0.32	0.94	0.24	0.50	0.01	0.44	0.23	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.44
CaO : 0.23

Metallurgical Results - Cycle A

Product	Amount	Assays mg/L, g/t			% Dist. Au
		Au	CN(F)	CN(T)	
1. Cycle A Preg Solution	800 mL	6.27	205	343	62.4
2. Cycle A Wash Solution	1040 mL	2.51	-	-	32.5
3. Cyanide Residue	1001.2 g	0.41	-	-	5.1
Head (Calc.)	1001.2 g	8.03	-	-	-

Calculated Grades and Recoveries

Products 1 and 2	1840 mL	4.14	-	-	94.9
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Test No. 35 - Continued

CYCLE B:

Procedure: The sample was pulped with pregnant solution from Cycle B in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 24 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 750 g minus 10 mesh composite

Solution Volume: 750 mL Pulp Density 50 % solids

Solution Composition: 0.50 gpL NaCN

pH: 10.5 with Ca(OH)₂

Grind: 20 minutes/kg at 65 % solids in a lab ball mill.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2	0.40	0.07	0.38	0.05	0.28	0	0.10	0.05	10.5- 9.9
2-18.5	0.11	0.04	0.10	0.03	0.28	0	0.10	0.03	10.4- 9.9
18.5-24	0.11	0.07	0.10	0.05	0.38	0.02	0	0.03	10.6-10.3
Total	0.62	0.18	0.58	0.13	0.38	0.02	0.20	0.11	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.27
CaO : 0.15

Metallurgical Results - Cycle B

Product	Amount	Assays mg/L, g/t			% Dist. Au
		Au	CN(F)	CN(T)	
1. Cycle A Pregnant Sol'n	374.2 mL	6.27	205	343	-
2. Cycle B Pregnant Sol'n	530.0 mL	13.0	275	497	-
3. Difference of 1 and 2	530.0 mL	8.57	130	255	53.0
4. Cycle B Wash Solution	1130.0 mL	3.24	-	-	42.7
5. Cyanide Residue	746.1 g	0.50	-	-	4.3
Head (Calc.)	746.1 g	11.5	-	-	100.0

Calculated Grades and Recoveries

Products 3 and 4	1660 mL	4.94	-	-	95.7
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Test No. 35 - Continued

CYCLE C:

Procedure: The sample was pulped with pregnant solution from Cycle B in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 24 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 500 g minus 10 mesh composite

Solution Volume: 500 mL Pulp Density 50 % solids

Solution Composition: 0.50 g/L NaCN

pH: 10.5 with Ca(OH)₂

Grind: 20 minutes/kg at 65 % solids in a lab ball mill.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2	0.26	0.07	0.25	0.05	0.14	0.01	0.11	0.04	10.6-10.2
2-18	0.12	0.04	0.11	0.03	0.17	0	0.08	0.04	10.5-10.2
18-24	0.08	0.04	0.08	0.03	0.25	0.01	0	0.02	10.6-10.4
Total	0.46	0.15	0.44	0.11	0.25	0.01	0.19	0.10	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.39
CaO : 0.20

Metallurgical Results - Cycle C

Product	Amount	Assays mg/L, g/t			% Dist. Au
		Au	CN(F)	CN(T)	
1. Cycle B Pregnant Solution	262.1 mL	13.0	275	497	-
2. Cycle C Pregnant Solution	380.0 mL	13.8	225	527	-
3. Difference of 1 and 2	380.0 mL	4.83	35	184	38.1
4. Cycle C Wash Solution	900.0 mL	3.11	-	-	58.0
5. Cyanide Residue	489.0 g	0.39	-	-	3.9
Head (Calc.)	489.0 g	9.87	-	-	100.0

Calculated Grades and Recoveries

Products 3 and 4	1280 mL	3.62	-	-	96.1
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Test No. 35 - Continued

CYCLE D:

Procedure: The sample was pulped with pregnant solution from Cycle C in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 24 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 250 g minus 10 mesh composite

Solution Volume: 250 mL Pulp Density 50 % solids

Solution Composition: 0.50 gpL NaCN

pH: 10.5 with Ca(OH)₂

Grind: 20 minutes/kg at 65% solids in a lab ball mill.

Residue Wet Wgt.: 359.9 g

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2	0.14	0.07	0.13	0.05	0.08	0.01	0.05	0.04	11.0-10.7
2-18.5	0.05	0	0.05	0	0.09	0	0.04	0.01	10.7-10.5
18.5-24	0.04	0	0.04	0	0.13	0	0	0	10.5-10.5
Total	0.23	0.07	0.22	0.05	0.13	0	0.09	0.05	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.38 CaO : 0.21
emf reading at 24 hours ———> +20 mV

Metallurgical Results

Product	Amount	Assays mg/L, g/t.				% Dist. Au
		Au	CN(F)	CN(T)	CNS	
1. Cycle C Pregnant Solution	140.1 mL	13.8	225	527	-	-
2. Cycle D Pregnant Soltuion*	250.0 mL	9.43	175	525	47.4	-
3. Differenc of 1 and 2	250.0 mL	1.70	49	230	-	26.6
4. Cycle D Wash Solution	1040.0 mL	1.04	-	-	-	68.0
5. Cyanide Residue	238.5 g	0.36	-	-	-	5.4
Head (Calc.)	238.5 g	6.67	-	-	-	100.0

Calculated Grades and Recoveries

Products 3 and 4	1290 mL	1.17	-	-	-	94.6
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Test No. 36

Purpose: To investigate the effect of cyanidation on the recovery of gold from the sample.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 24 hour stage at 20 hours, 5 grams of GRC 22 6x16 carbon was added to the pulp. The pulp was filtered the the residue washed three times with water.

Feed: 1000 g minus 10 mesh sample

Solution Volume: 1000 mL Pulp Density 50 % solids

Solution Composition: 0.50 gpL NaCN

pH: 10.5 with $Ca(OH)_2$

Grind: 20 minutes/kg at 65 % solids in a lab ball mill.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	$Ca(OH)_2$	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-2.5	0.53	0.15	0.50	0.11	0.18	0	0.32	0.11	10.6- 9.8
2.5-24	0.34	0.10	0.32	0.08	0.43	0	0.07	0.08	10.5
Total	0.87	0.25	0.82	0.19	0.43	0	0.39	0.19	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.79
 CaO : 0.39

Metallurgical Results

Product	Amount	Assays mg/L,g/t Au	% Distribution Au
1. 4h Carbon	6.2 g	1478	94.3
2. 24h Barren Sol'n	1910 mL	0.18	3.5
3. 24h Residue	493.0 g	0.43	2.2
Head (Calc.)	493.0 g	19.72	100.0

Test No. 37A

Purpose: To calculate the acid producing potential of Test 26 cyanide residue.

Procedure: Duplicate 10 gram portions of the pulverized sample were suspended in 100 mLs of distilled water and stirred for 15 minutes. The natural pH of the sample was recorded and the sample titrated to pH 3.5 with 1.0 Normal sulphuric acid and left stirring. Acid additions were continued every 15 minutes maintaining a pH of 3.5, until the pH change over a 4 hour period is 0.1 pH unit or less.

Feed: 10 grams pulverized test 26 cyanide residue.

TEST NO. 37A-1

Time	pH	Volume of 1 N H ₂ SO ₄
10:45	8.4-3.4	4.26
11:00	5.3-3.4	4.59
11:15	5.3-3.4	4.82
11:30	5.2-3.5	5.00
11:45	5.1-3.4	5.18
12:00	5.6-3.3	5.41
1:00	5.4-3.4	5.53
1:15	5.1-3.4	5.68
1:30	5.0-3.3	5.80
1:45	4.8-3.3	5.92
2:00	4.6-3.5	5.98
2:15	4.6-3.5	6.03
2:30	4.4-3.2	6.12
2:45	4.1-3.4	6.19
3:00	4.1-3.2	6.28
3:15	3.9-3.2	6.33
3:30	3.7-3.1	6.41
3:45	3.3	-
4:00	3.5	-
4:15	3.7-3.2	6.48
4:30	3.4	-
4:45	3.7-3.0	6.61
8:15	3.7-3.0	6.78
8:30	3.4	-
8:45	3.5	-
9:00	3.6	-
9:15	3.6	-
9:30	3.8-3.0	6.88
9:45	-	-
10:00	3.6	-
10:15	-	-
10:30	-	-
10:45	3.8-3.1	6.96
11:00	3.5	-
11:15	3.6	-
11:30	-	-
11:45	3.7-3.1	7.03

Time	pH	Volume of 1 N H ₂ SO ₄
12:00	3.4	-
1:00	3.8-3.1	7.11
1:15	3.5	-
1:30	3.6	-
1:45	3.7-3.0	7.20
2:00	3.5	-
2:15	3.6	-
2:30	3.6	-
2:45	3.7-3.1	7.28
3:00	3.3	-
3:16	3.5	-
3:30	3.6	-
3:45	3.6	-
4:00	3.7-3.1	7.34
4:15	-	-
4:30	3.5	-
4:45	-	-
5:00	3.7-3.1	7.41
5:15	-	-
5:30	3.5	-
5:45	3.6	-
6:00	3.7	-
8:15	3.7-3.0	7.47 (Total)
8:30	3.0	-
8:45	3.1	-
9:00	3.2	-
9:15	3.2	-
9:30	3.3	-
10:00	3.4	-
10:30	3.5	-
10:45	3.5	-
11:00	3.5	-
11:15	3.5	-
11:30	3.5	-
11:45	3.5	-
12:00	3.5	-
1:00	3.5	-
1:30	3.5	-

CALCULATIONS - Test 37A-1

$$\begin{aligned} \text{Acid Consuming Ability: } & \frac{\text{mLs of 1.0 N H}_2\text{SO}_4 \times 0.049}{\text{wgt. of sample in grams}} \\ & = \frac{7.47 \times 0.049 \times 1000}{10} \\ & = 36.60 \text{ kg/t} \end{aligned}$$

$$\begin{aligned} \text{Acid Producing Potential: } & \frac{7.5}{100} \times \frac{98}{32} \\ & = \frac{4.67}{100} \times \frac{98}{32} \times 1000 \\ & = 143.02 \text{ kg/t} \end{aligned}$$

Test No. 37A-2

Time	pH	mLs of 1 N H ₂ SO ₄
10:45	8.2-3.5	4.43
11:00	5.7-3.4	4.80
11:15	5.5-3.5	4.99
11:30	5.7-3.5	5.12
11:45	5.4-3.5	5.29
12:00	5.3-3.5	5.42
1:00	5.7-3.5	5.68
1:15	5.3-3.5	5.77
1:30	5.2-3.5	5.88
1:45	5.0-3.4	6.02
2:00	4.9-3.5	6.10
2:15	4.8-3.5	6.20
2:30	4.6-3.2	6.31
2:45	4.2-3.3	6.40
3:00	4.0-3.2	6.48
3:15	3.9-3.5	6.56
3:30	3.8-3.1	6.62
3:45	3.6	-
4:00	3.8-3.2	6.79
4:15	3.6	-
4:30	3.7-3.2	6.88
4:45	3.5	-
8:15	3.9-2.8	6.93 (Total)
8:30	3.0	-
8:45	3.0	-
9:00	3.0	-
9:15	3.0	-
9:30	3.1	-
9:45	-	-
10:00	3.2	-
10:15	3.2	-
10:30	3.3	-
10:45	3.3	-
11:00	3.3	-
11:15	3.3	-
11:30	-	-
11:45	3.3	-

Time	pH	mLs of 1 N H ₂ SO ₄
12:00	3.3	-
1:00	3.4	-
1:15	3.4	-
1:30	3.4	-
1:45	3.4	-
2:00	3.5	-
2:15	3.5	-
2:30	3.5	-
2:45	3.5	-
3:00	3.5	-
3:15	3.5	-
3:30	3.5	-
3:45	3.5	-
4:00	3.5	-

CALCULATIONS - Test 37A-2

Acid Consuming Ability: $\frac{\text{mLs of 1.0 N H}_2\text{SO}_4 \times 0.049}{\text{wt. of sample in grams}}$

$$= \frac{6.93 \times 0.049 \times 1000}{10}$$

$$= 33.96 \text{ kg/t}$$

Acid Producing Potential: $\frac{7.5}{100} \times \frac{98}{32}$

$$= \frac{4.67}{100} \times \frac{98}{32} \times 1000$$

$$= 143.02 \text{ kg/t}$$

Test No. 37B

Purpose: To calculate the acid producing potential of the head sample.

Procedure: As for Test 37A.

Feed: 10 grams pulverized head sample.

Test No. 37B-1

Time	pH	Volume of 1 N H ₂ SO ₄
10:45	9.5-5.4	5.28
11:00	4.4-3.4	5.48
11:15	4.3-3.5	5.67
11:30	4.2-3.4	5.80
11:45	4.1-3.2	5.93
12:00	4.1-3.3	6.02
1:00	4.2-3.3	6.19
1:15	3.9-3.4	6.28
1:30	3.9-3.4	6.33
1:45	3.8-3.4	6.41
2:00	3.8-3.4	6.48
2:15	3.7-3.4	6.53
2:30	3.7-3.3	6.59
2:45	3.6-3.2	6.68
3:00	3.5	-
3:15	3.7-3.3	6.77
3:30	3.5	-
3:45	3.5	-
4:00	3.7-3.1	6.89
4:15	3.4	-
4:30	3.4	-
4:45	3.5	-
8:15	3.7-3.2	6.93 (Total)
8:30	3.5	-
8:45	3.4	-
9:00	3.4	-
9:15	3.4	-
9:30	3.4	-
9:45	-	-
10:00	3.5	-
10:15	-	-
10:30	-	-
10:45	3.5	-
11:00	3.5	-
11:15	3.5	-
11:30	-	-
11:45	3.5	-

CALCULATIONS - Test 37B-1

Acid Consuming Ability: $\frac{\text{mLs of 1.0 N H}_2\text{SO}_4 \times 0.049}{\text{wt. of sample in grams}}$
= $\frac{6.93 \times 0.049 \times 1000}{10}$
= 33.96 kg/t

Acid Producing Potential: $\frac{7.5}{100} \times \frac{98}{32}$
= $\frac{4.02}{100} \times \frac{98}{32} \times 1000$
= 123.11 kg/t

Test No. 37B-2

Time	pH	Volume of 1 N H ₂ SO ₄
10:45	9.4-3.5	5.48
11:00	4.4-3.5	5.69
11:15	4.3-3.4	5.82
11:30	4.3-3.5	5.97
11:45	4.2-3.4	6.09
12:00	4.2-3.4	6.20
1:00	4.4-3.4	6.29
1:15	4.2-3.4	6.42
1:30	4.1-3.3	6.53
1:45	4.0-3.5	6.59
2:00	4.0-3.5	6.67
2:15	4.0-3.5	6.73
2:30	3.9-3.5	6.79
2:45	3.9-3.5	6.86
3:00	3.9-3.4	6.92
3:15	3.9-3.4	7.00
3:30	3.8-3.4	7.08
3:45	3.7-3.3	7.12
4:00	3.8-3.3	7.20
4:15	3.7-3.3	7.25
4:30	3.6	-
4:45	3.8	7.31
8:15	3.7-3.2	7.36
8:30	3.5	-
9:00	3.6	-
9:15	3.6	-
9:30	3.6	-
9:45	-	-
10:00	3.7	-
10:15	-	-
10:30	-	-
10:45	3.9-3.3	7.41
11:00	3.8-3.3	7.47
11:15	3.8-3.3	7.52
11:30	-	-
11:45	3.8	7.60
12:00	3.7-3.2	7.68
1:00	3.9-3.3	7.77
1:15	3.8-3.1	7.82
1:30	3.5	-
1:45	3.6	-
2:00	3.7-3.2	7.90
2:15	3.6	-
2:30	3.6	-
2:45	3.7-3.2	7.98
3:00	3.5	-
3:15	3.6	-
3:30	3.7-3.2	8.05

Time	pH	Volume of 1 N H ₂ SO ₄
4:15	-	-
4:30	3.4	-
4:45	-	-
5:00	3.5	-
5:15	-	-
5:30	3.8-3.3	8.22
5:45	3.8-3.4	8.28
6:00	3.8	-
8:15	3.7-3.2	8.38
8:30	3.4	-
8:45	3.5	-
9:00	3.7-3.1	8.43
9:15	3.4	-
9:30	3.5	-
10:00	3.6	-
10:30	3.6	-
10:45	3.7-3.1	8.51
11:00	3.5	-
11:15	3.6	-
11:30	3.6	-
11:45	3.6	-
12:00	3.7-3.1	8.58 (total)
1:00	3.5	-
1:30	3.6	-
1:45	3.6	-
2:00	-	-
2:15	3.6	-
2:30	3.6	-
2:45	3.6	-
3:00	3.6	-
3:15	-	-
3:30	3.6	-
3:45	-	-
4:00	3.6	-

CALCULATIONS - Test 37B-2

$$\begin{aligned} \text{Acid Consuming Ability: } & \frac{\text{mLs of 1.0 N H}_2\text{SO}_4 \times 0.049}{\text{wgt. of sample in grams}} \\ & = \frac{8.58 \times 0.049 \times 1000}{10} \\ & = 42.04 \text{ kg/t} \end{aligned}$$

$$\begin{aligned} \text{Acid Producing Potential: } & \frac{7.5}{100} \times \frac{98}{32} \\ & = \frac{4.02}{100} \times \frac{98}{32} \times 1000 \\ & = 123.11 \text{ kg/t} \end{aligned}$$

Test No. 38

Purpose: Same as Test 24 with a finer primary grind.

Procedure: Flotation as below, followed by cyanidation of the rougher concentrate.

Feed: 2 kg minus 10 mesh composite

Grind: 60 minutes per 2 kg sample in a lab ball mill at 65 % solids.

Conditions:

Stage	Reagents Added, grams/tonne		Time, minutes		pH
	AX350	MIBC	Cond.	Froth	
Rougher 1	20	10	2	3	8.1
2	10	5	1	3	-
3	5	5	1	3	-

Stage Rougher
 Flotation Cell 1000g D-1
 Speed rpm 1800

Metallurgical Results

Product	Weight %	Assays g/t Au	% Distribution Au
1. Rougher Conc.	15.97	41.1	95.9
2. Rougher Tail.	84.03	0.33	4.1
Head (Calc.)	100.00	6.84	100.0

Screen Analysis - Rougher Tailing

Mesh Size (Tyler)	% Retained		% Passing Cumulative
	Individual	Cumulative	
+ 100	0.1	0.1	99.9
150	0.1	0.2	99.8
200	0.5	0.7	99.3
270	2.8	3.5	96.5
400	8.5	12.0	88.0
- 400	88.0	100.0	-
Total	100.0	-	-

Test No. 38 - Cyanidation

Purpose: To cyanide the flotation rougher concentrate.

Procedure: The sample was pulped with water in a 2 liter bottle. NaCN and lime were added and the cyanidation was carried out on rolls in one 48 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 300 g flotation rougher concentrate.

Solution Volume: 600 mL Pulp Density 33 % solids

Solution Composition: 1.00 gpL NaCN

pH: 11.0 with Ca(OH)₂

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-4	0.63	0.30	0.60	0.23	0.23	0.05	0.37	0.18	11.2-11.2
4-8	0.39	0	0.37	0	0.60	0.05	0	0	11.2-11.2
8-24	0	0	0	0	0.39	0.04	0.21	0.01	11.2-11.1
24-32	0.22	0	0.21	0	0.60	0.04	0	0	11.1-11.1
32-48	0	0	0	0	0.60	0.04	0	0	11.1-11.1
Total	1.24	0.30	1.18	0.23	0.60	0.04	0.58	0.19	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 1.82
CaO : 0.60

Metallurgical Results

Product	Amount	Assays mg/L, g/t				% Dist. Au
		CNS	Au	CN(F)	CN(T)	
1. 48h Preg. Solution	450 mL	178	20.8	615	1005	71.5
2. 48h Wash Solution	1045 mL	-	2.62	-	-	20.9
3. 48h Cy. Residue	318.9 g	-	3.11	-	-	7.6
Head (Calc.)	318.9 g	-	41.1	-	-	100.0

Calculated Grades and Recoveries

Products 1 and 2	1495 mL	-	8.09	-	-	92.4
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OVERALL RESULTS:

Product	Amount	Assays mg/L,g/t Au	% Distribution Au
1. 48h Preg Solution	450 mL	20.8	68.6
2. 48h Wash Solution	1045 mL	2.62	20.1
3. Cyanide Residue	318.9 g	3.11	7.2
4. Rougher Tailing	1677.8 g	0.33	4.1
Head (Calc.)	1996.7 g	6.83	100.0

Calculated Grades and Recoveries

Products 1 and 2	1495 mL	8.09	88.7
Products 1 to 3	318.9 g	41.1	95.9

Test No. 39

Purpose: To prepare a rougher concentrate for the settling test.
Procedure: Flotation as below, followed by a settling test.
Feed: 2 kg minus 10 mesh composite
Grind: 60 minutes per 2 kg sample in a lab ball mill at 65 % solids.
Conditions:

Stage	Reagents Added, grams/tonne		Time, minutes		pH
	AX350	MIBC	Cond.	Froth	
Rougher 1	20	10	2	3	8.1
2	10	5	1	3	-
3	5	5	1	3	-

Stage Rougher
Flotation Cell 1000 g D-1
Speed rpm 1800

SETTLING TEST REPORTS:

Test No. 39-S1

Purpose: To investigate the settling characteristics of a flotation rougher concentrate as is.

Feed: Flotation rougher concentrate from composite.

pH: 8.0

Pulp Volume: 2000 mL

Pulp Weight: 2242.9 g

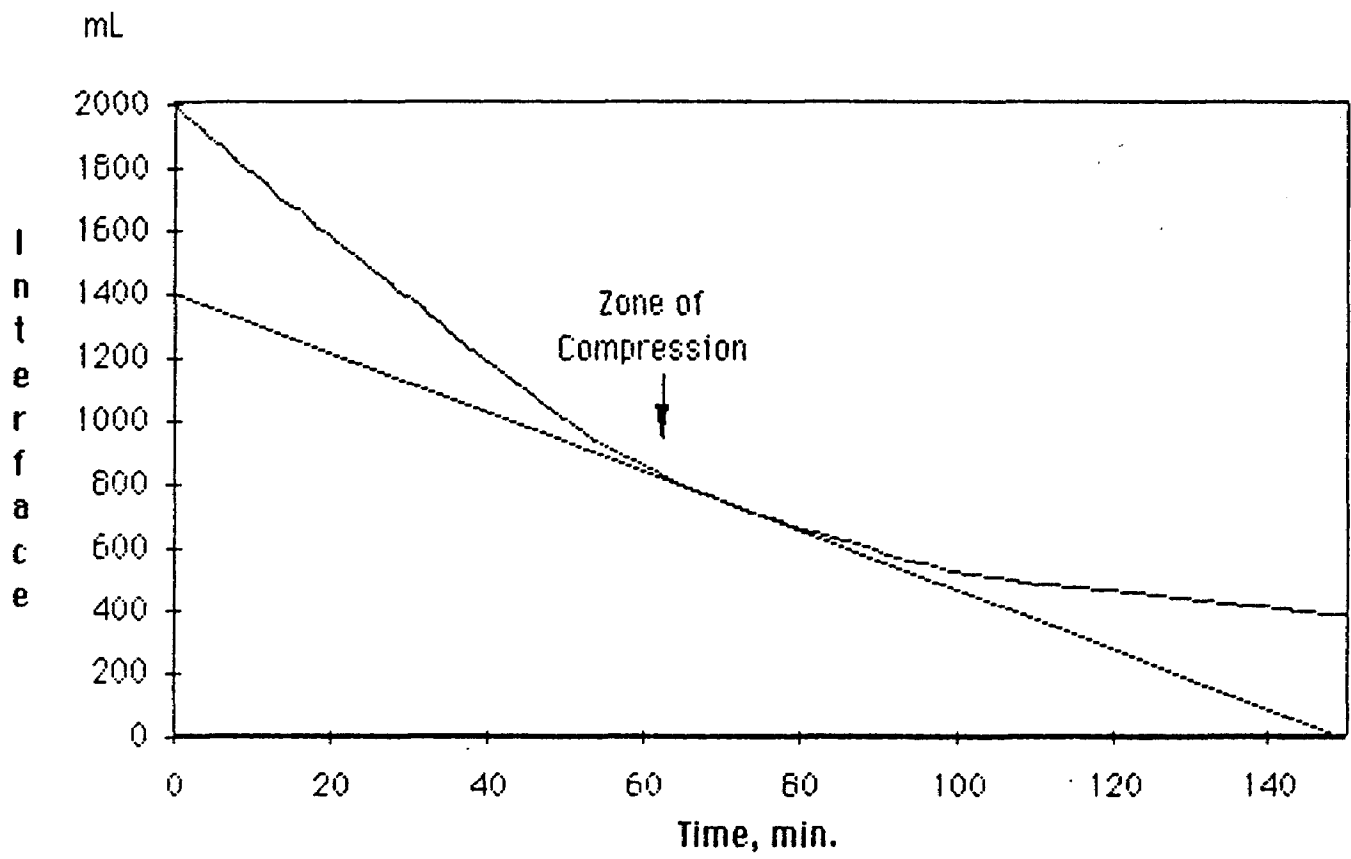
Specific Gravity of Dry Solids: 3.59

Height of Cylinder: 40 cm

Weight of Dry Solids: 354.6 g

Settling Time Minutes	Mudline mL	Settling Time Minutes	Mudline mL	Settling Time Minutes	Mudline mL
0	2000	26	1470	70	750
2	1950	28	1430	74	710
4	1910	30	1390	78	680
6	1870	32	1350	82	650
8	1825	34	1310	86	620
10	1785	38	1230	90	590
12	1745	42	1155	94	560
14	1700	46	1080	98	540
16	1670	50	1010	102	315
18	1620	54	940	108	490
20	1590	58	885	123	455
22	1550	62	835	138	410
24	1510	66	790	143	400
				158	385

Settling Test No. 1



Test No. 39-S1 - Continued

Thickener Area Requirement Calculations

Feed Concentration Zone

Initial pulp density: 1121 g/L

Initial percent solids: 15.8

$$F = 84.2 / 15.8 = 5.33$$

Final pulp density: 1631 g/L

Final percent solids: 56.5

$$D = 43.5 / 56.5 = 0.77$$

R = 0.243 meter per hour

$$A = 0.042(5.33 - 0.77)/0.243$$

= 0.79 square meter/tonne of dry solids/24 hours thickener area required
(no safety factor applied)

Entrance to Compression Zone

Initial pulp density: 1197 g/L

Initial percent solids: 24.1

$$F = 75.9 / 24.1 = 3.15$$

Final pulp density: 1631 g/L

Final percent solids: 56.5

$$D = 43.5 / 56.5 = 0.77$$

R = 0.086 meter per hour

$$A = 0.042(3.15 - 0.77)/0.086$$

= 1.16 square meter/tonne of dry solids/24 hours thickener area required
(no safety factor applied)

Test No. 39-S2

Purpose: To investigate the settling characteristics of a flotation rougher concentrate at pH 11.

Feed: flotation rougher concentrate

Lime: 960 g/t

pH: 11.2

Pulp Volume: 2000 mL

Pulp Weight: 2250.1 g

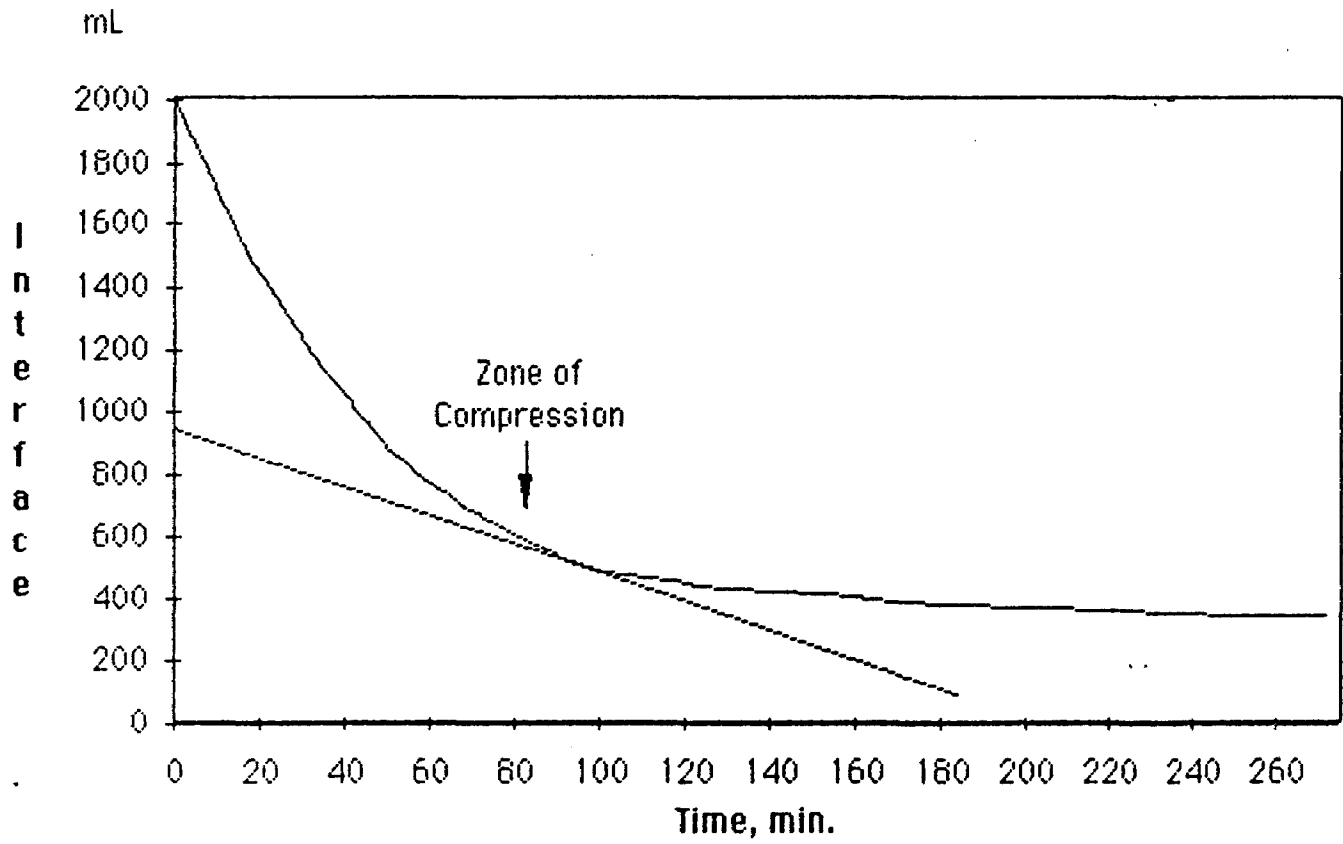
Specific Gravity of Dry Solids: 3.59

Height of Cylinder: 40 cm

Weight of Dry Solids: 354.6

Settling Time Minutes	Mudline mL	Settling Time Minutes	Mudline mL
0	2000	72	670
2	1945	76	640
6	1830	80	605
10	1720	90	540
14	1605	94	520
18	1490	98	500
22	1410	102	480
26	1320	122	440
30	1235	142	420
34	1155	162	400
42	1020	182	380
46	960	202	370
50	890	222	360
54	855	252	340
58	800	272	335
64	745	24h	315
68	695		

Settling Test No. 2



Test No. 39-S2 - Continued

Thickener Area Requirement Calculations

Feed Concentration Zone

Initial pulp density: 1125 g/L

Initial percent solids: 15.8

$$F = 84.2 / 15.8 = 5.33$$

Final pulp density: 1794 g/L

Final percent solids: 62.8

$$D = 37.2 / 62.8 = 0.59$$

R = 3.013 meter per hour

$$A = 0.042(5.33 - 0.59)/3.013$$

= 0.07 square meter/tonne of dry solids/24 hours thickener area required
(no safety factor applied)

Entrance to Compression Zone

Initial pulp density: 1263 g/L

Initial percent solids: 29.6

$$F = 70.4 / 29.6 = 2.38$$

Final pulp density: 1794 g/L

Final percent solids: 62.8

$$D = 37.2 / 62.8 = 0.59$$

R = 0.613 meter per hour

$$A = 0.042(2.38 - 0.59)/0.613$$

= 0.12 square meter/tonne of dry solids/24 hours thickener area required
(no safety factor applied)

Test No. 40

Purpose: To prepare a pregnant solution for Zn precipitate test.

Procedure: The sample was pulped with water in a 12 liter pail. NaCN and lime were added and the cyanidation was carried out in a pail in one 24 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 6000 g of composite

Solution Volume: 6000 mL Pulp Density 50 % solids

Solution Composition: 0.5 gpL NaCN

pH: 11 with Ca(OH)₂

Grind: 2 kg sample ground in the lab ball mill for 50 minutes at 65 % solids. *20/1*

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-4	3.16	1.50	3.0	1.14	0.60	0.15	2.40	0.99	11.0-10.4
4-8	2.53	0.50	2.40	0.38	2.25	0.18	0.75	0.35	11.0-10.6
8-24	0.79	0.50	0.75	0.38	2.04	0.20	0.96	0.36	11.0-10.8
Total	6.48	2.50	6.15	1.9	2.04	0.20	4.11	1.70	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.68
CaO : 0.28

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
1. 24h Preg Solution	3340 mL	6.85	53.3
2. 24h Wash Solution	5580 mL	3.14	40.8
3. 24h Cy. Residue	5994.5 g	0.42	5.9
Head (Calc.)	5994.5 g	7.16	100.0

Calculated Grades and Recoveries

Products 1 and 2	8920 mL	4.53	94.1
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Test No. 40 - Zn Dust Precipitation

Purpose: To investigate the precipitation of gold from the pregnant solution from Test 40 adding zinc dust at 100 times theoretical.

Procedure: The cyanide solution strength was made up to 0.5 g/L and poured into a separatory funnel. Nitrogen gas was introduced into the solution. A de-aeration time was set until the oxygen level in the solution was 1.7 ppm. Lead nitrate and zinc dust were added. The reagents were mixed with nitrogen for a required contact time. The solution was then filtered through a micropore filter.

Feed: 3 x 1000 mL pregnant cyanide solution (from Test 40).

Conditions:

De-aeration Time:	60 minutes
Contact Time:	30 minutes
Zn Dust :	100 x theoretical
Pb(NO ₃) ₂ :	0.25 x Zn

pH of solution before test - 11.0
Free NaCN before test - 0.5 g/L

Calculations:

Zn Dust: $1.0 \times 6.85 \text{ g/L Au} \times 0.332 \text{ g} \times 100$
 $= 0.23 \text{ grams Zn Dust}$

Pb(NO₃)₂ = $0.25 \times 0.23 \text{ g}$
 $= 0.06 \text{ g Pb(NO}_3)_2$

Results:

Solution	Assays mg/L, %								
	Au	Cu	Zn	As	Hg	Fe	CN(T)	CN(F)	CNS
Pregnant Sol'n	6.85	-	-	-	-	-	-	-	-
Barren Sol'n	0.016	39.0	40.0	0.091	<0.001	84.8	527	275	88.1

% of gold precipitated by the zinc dust = 99.8 %

Test No. 40 - Continued

Semi-Quantitative Scan - Cyanide Barren Solution

<u>Element</u>	<u>Concentration (mg/L)</u>
Cu	42
Pb	0.08
Zn	52
Fe	82
As	0.1
Cd	0.02
Ni	2
Cr	<0.02
Co	0.1
Al	5
Mo	0.3
Mn	<0.01
Ba	<0.02
Sb	<0.05
Se	<0.20
Te	<0.05
Sn	<0.10
S	80
P	0.1

Test No. 41 - Flotation

Purpose: Same as Test 38 with a higher cyanide strength in the cyanidation stage.

Procedure: Flotation as below, followed by the cyanidation of the rougher concentrate.

Feed: 2 kg minus 10 mesh composite.

Grind: 60 minutes per 2 kg sample in a lab ball mill at 65 % solids.

Conditions:

Stage	Reagents Added, grams/tonne		Time, minutes		pH
	AX350	MIBC	Cond.	Froth	
Rougher 1	20	10	2	3	8.1
Rougher 2	10	5	1	3	-
Rougher 3	5	5	1	3	-

Stage Rougher
 Flotation Cell 1000 g D-1
 Speed rpm 1800

Metallurgical Results

Product	Weight %	Assays g/t Au	% Distribution Au
1. Rougher Conc.	17.17	41.9	95.1
2. Rougher Tail.	82.83	0.45	4.9
Head (Calc.)	100.00	7.56	100.0

Test No. 41 - Continued

OVERALL RESULTS:

Product	Amount	Assays g/t Au	% Dist. Au
1. 36h Preg Solution	420 mL	24.0	66.5
2. 36h Wash Solution	1070 mL	3.19	22.5
3. Cyanide Residue	344.1 g	2.65	6.1
4. Rougher Tailing	1659.6 g	0.45	4.9
Head (Calc.)	2003.7 g	7.56	100.0

Calculated Grades and Recoveries

Products 1 and 2	1490 mL	9.06	89.0
Products 1 to 3	344.1 g	41.9	95.1

Test No. 42

Purpose: To prepare a cyanide pulp for filtration and cyanidation test.

Procedure: The sample was pulped with water in a 10 liter pail. NaCN and lime were added and the cyanidation was carried out on rolls in one 24 hour stage. The pulp was filtered and the residue washed three times with water.

Feed: 8000 g minus 10 mesh composite (for filtration test)

Solution Volume: 8000 mL Pulp Density 50 % solids

Solution Composition: 0.5 g/L NaCN

pH: 10.5 with Ca(OH)₂

Grind: 2 kg ground in the lab ball mill for 50 minutes at 65 % solids.

Reagent Balance:

Time Hours	Added, grams				Residual		Consumed		pH
	Actual		Equivalent		Grams		Grams		
	NaCN	Ca(OH) ₂	NaCN	CaO	NaCN	CaO	NaCN	CaO	
0-4	4.21	2.0	4.0	1.52	0.80	0.12	3.20	1.40	10.8-10.4
4-7	3.37	0.30	3.20	0.23	2.80	0.16	1.20	0.19	10.6-10.6
7-24	1.26	0	1.20	0	2.40	0.12	1.60	0.04	10.6-10.4
Total	8.84	2.30	8.40	1.75	2.40	0.12	6.0	1.63	-

Reagent Consumption (kg/t of cyanide feed) NaCN : 0.75
CaO : 0.20

Metallurgical Results

Product	Amount	Assays mg/L, g/t Au	% Distribution Au
1. 24h Preg Solution	420 mL	6.48	51.3
2. 24h Wash Solution	1800 mL	1.27	42.6
3. 24h Cy. Residue	800 g	0.41	6.1
Head (Calc.)	800 g	6.72	100.0

Calculated Grades and Recoveries

Products 1 and 2	2220 mL	2.27	93.9
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Test No. 43A - Cyanide Destruction

Purpose: To investigate the destruction of cyanide by alkaline chlorination from barren solution Test 40.

Procedure: 500 mLs of barren solution was placed into a one liter beaker and was agitated gently with a magnetic stirrer. Chlorine was added as NaOCl in two minute periods. The emf versus NaOCl addition was plotted. Lime was used to maintain the pH at 11 throughout the test. At the duration of the test the barren solution was filtered by a micropore filter.

Feed: 500 mL Barren solution (Test 40)

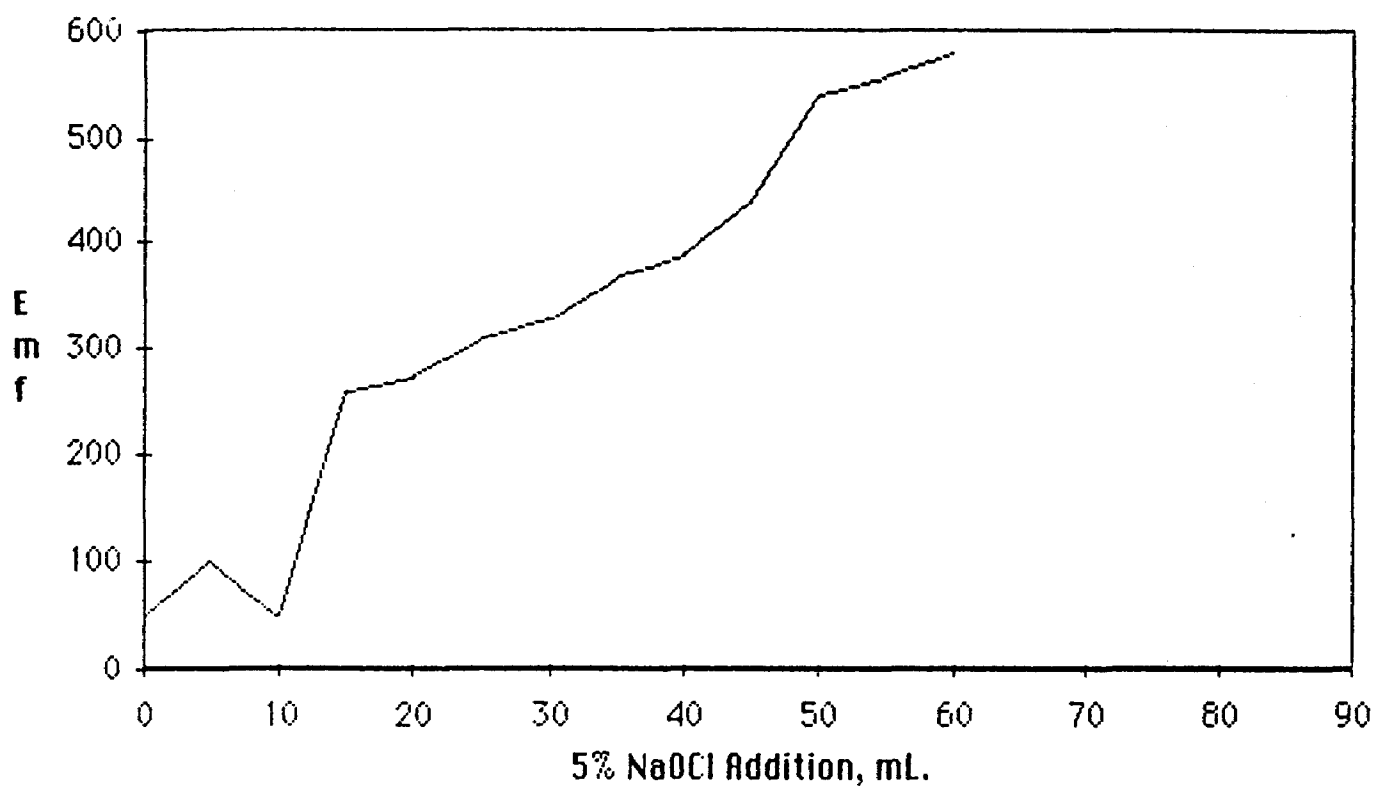
Conditions: NaOCl - 5 %
pH - maintained at 11
25 minutes

Data: Initial pH - 11.5
emf - +50
0.10 grams of Ca(OH)₂ was used to maintain pH 11.0
0.238 grams of Cl₂ was used
CN:Cl = 1:6

Metallurgical Results

Product	Assays mg/L, g/t						
	CN(T)	CN(F)	CNS	Cu	Fe	Zn	As
Feed Solution	527	275	88.1	39.0	84.8	40.0	0.091
Alkaline Chlorination A Barren	138	<1	33.9	0.03	70.8	0.11	0.050

3121 test no. 43



Test No. 43B

Purpose: Same as Test 43A with a longer retention time.

Procedure: Same as Test 43A but extend the retention time for one hour after the emf of the solution reaches 550 mV.

Feed: 500 mL Barren Solution obtained from Test 40.

Conditions: 5 % NaOCl solution
pH 11
Time: 85 minutes
Initial emf: 50 mV
Final emf: 750 mV

Metallurgical Results

Product	Assays mg/L						
	CN(T)	CN(F)	CNS	Cu	Fe	Zn	As
Feed	527	275	88.1	39.0	84.8	40.0	0.091
Effluent	138	<1	33.9	0.03	70.8	0.11	0.050

Test No. 44 - Cyanide Destruction Test

Purpose: To investigate the destruction of cyanide using SO₂ on Test 40 barren solution.

Procedure: 500 mL of barren solution was placed into a baffled beaker, agitation was provided by a mechanical stirrer. The pH was maintained using a Radiometer pH 82 pH meter in conjunction with a titrator connected to a magnetic valve controlling the flow of lime slurry. The SO₂/air mixture was controlled by a Matheson flowmeter. After a 60 minutes batch test the solution was filtered through a 0.45 μm micropore filter.

Feed: 500 mL of test 40 barren solution

Feed Analysis: 527 mg/L CN(T)
39.0 mg/L Cu
84.8 mg/L Fe

Conditions: pH 8.5 maintained using a 2 % Ca(OH)₂ slurry
SO₂:CN(T) ratio = 10:1
Cu:Fe ratio = 1:2.17
Retention Time: 60 minutes

CALCULATIONS:

Cu Addition

Batch Procedure:

$$\begin{aligned} \text{Cu Required} &: (2 \times \text{Fe} - \text{Cu} + 50) \text{ mg/L} \times 0.5 \text{ L} \\ &= (2 \times 84.8 - 39.0 + 50) \text{ mg/L} \times 0.5 \text{ L} \\ &= 90.3 \text{ mg Cu} \\ &90.3 \text{ mg Cu} \times 3.93 = 354.88 \text{ mg CuSO}_4 \cdot 5\text{H}_2\text{O} \\ &3.55 \text{ mL } 10 \% \text{ CuSO}_4 \cdot 5\text{H}_2\text{O} \end{aligned}$$

SO₂ Addition

$$\begin{aligned} \text{SO}_2 \text{ Required} &: \text{For SO}_2:\text{CN(T)} = 10/1 \text{ weight ratio} \\ &10 \times 527 \text{ mg/L CN(T)} = 5270 \text{ mg SO}_2/\text{L feed} \end{aligned}$$

$$\begin{aligned} \text{Volume SO}_2 &: 5.27 \text{ g SO}_2 \times \frac{22.4 \text{ L/mole}}{64 \text{ g/mole}} \times \frac{293^\circ\text{C}}{273^\circ\text{C}} \\ &= 1.979 \text{ L SO}_2 \text{ at NTP/L feed} \end{aligned}$$

$$\begin{aligned} \text{Gas Mixture Required:} & \text{ Mixtures contains } 1.5 \% \text{ SO}_2 \text{ in air} \\ &1.979 \text{ L SO}_2 \times \frac{100}{1.5} = 131.975 \text{ L mixture/L feed} \end{aligned}$$

$$\text{Gas Flowrate: } \frac{1.979 \text{ L mixture}}{\text{L feed}} \times \frac{0.5 \text{ L feed}}{60 \text{ minutes}} = 1.10 = \text{Gas Flow } 1100 \text{ cc/min}$$

Test No. 44 - Continued

Data:

Procedure	Time min.	Feed Rate mL/min	1.5% SO ₂ /Air mL/min	Cu Add'n mg/min	pH	emf mV
Batch test	0	500	-	-	11.07	+200
	0	-	1100	354.88	9.2	+400
	5	-	-	-	8.5	+200
	10	-	-	-	8.5	+240
	15	-	-	-	8.6	+300
	20	-	-	-	8.5	+300
	25	-	-	-	8.5	+300
	30	-	-	-	8.5	+300
	35	-	-	-	-	-
	40	-	-	-	8.6	+280
	45	-	-	-	8.5	+280
	50	-	-	-	8.5	+280
	55	-	-	-	8.5	+280
	60	-	-	-	8.5	+280

Solution Colour: red-brown

Ca(OH)₂ at 2 % : 176 mL

Results:

Solution	Analyses mg/L					
	CN(T)	Cu	Fe	CNS	CN(F)	Zn
CND Barren Sol'n	0.12	0.15	0.06	52.9	<1	0.06

PART 6

ENVIRONMENTAL

6.1 INTRODUCTION

This part of the report provides an overview of environmental conditions associated with possible development of the Mirado Property.

Site work to date has been of a preliminary nature, but is nevertheless sufficient to define environmental concerns, to provide backup information to be used for permit applications, and to provide information needed for site planning. Included in the latter category is information relating to: tailings, the availability of construction materials, water quality, etc.

During initial site visits, contacts were made with District and Regional offices of Provincial Ministries. Follow up contacts were made by telephone to fill in data gaps.

Investigations to date have identified no environmental constraints which would prevent development of the Mirado Property.

6.2 REGIONAL SETTING

6.2.1 HUMAN ENVIRONMENT

On a regional basis, most of the population resides in organized municipalities. The largest of these is Kirkland Lake (1981, population of 12,219). Other centres include New Liskard (5,551), Larder Lake (1,084) and Englehart (1,689). Since 1961, there has been a continuing decline in the regional population (MNR 1981). Reductions in population, are largely attributable to closure of mining operations, small railway settlements, logging operations and marginal farms.

Mining and refining continues to be economically important to Kirland Lake, Black River, Matheson, Virginatown and Larder Lake. Forest operations and related industries are active throughout the region. Saw milling is the significant forest based industry, however, local operators also supply wood chips, pulpwood, veneer and saw logs to industries located outside of the region. Small businesses, trades, tourism and public services generate the balance of the region's employment opportunities.

6.2.2 NATURAL ENVIRONMENT

Terrain in the Kirkland Lake area is characterized by moderately broken uplands in the area of the town itself, and in areas west and southwest of the community. Areas east and north of Kirkland Lake exhibit a more rolling terrain. A 300 to 500 m height of land passes roughly through the middle of the region forming a divide between the Arctic and Atlantic watersheds.

Sand and clay are the predominant soils within the region, with depths ranging from shallow to moderately deep. As a rule, deeper deposits tend to be associated with old lake bottoms and river valleys.

Climatic conditions are characterized by long, cold winters and short cool summers. Fall rains and spring snow melt create pronounced seasonal run-off regimes, with low flow conditions in late winter and again in mid to late summer.

Wildlife and fish communities are typical of those which occur in southern sections of the boreal forest. Moose are the dominant ungulate. White tail deer are present locally. Fur bearers including beaver, martin, lynx, otter, mink and muskrat are fairly abundant. Wetlands and marshy lake-river shorelines support a variety of waterfowl during both nesting and migration seasons. Major local breeding and staging grounds, however, are lacking.

Fish communities are dominated by cool-water forms including walleye, northern pike, white fish, lake herring, yellow perch and small mouth bass. Cold water forms: brook trout, lake trout and rainbow trout are scattered throughout the region wherever suitable habitats are present. Large lake systems support the most diverse and productive fish communities, primarily because of the variety and quality of associated habitats.

Water quality is generally good in most lakes and rivers. However, concentrations of a specific metal ions (such as copper and iron may be elevated in watersheds associated with areas of high mineral content.

Forest stands in the Kirland Lake region are predominately coniferous or mixed and have frequently been either burned or cutover such that existing forests are primarily immature to semi-mature. Principal tree species are: black spruce, balsam fir, jack pine, trembling aspen, and white birch. White cedar, tamarack, white spruce, white pine and large tooth aspen are common associates.


6.3 LAND USE

6.3.1 INTRODUCTION

This section discusses land tenure and land uses in close proximity to the Mirado Gold Property. The land use study area outlined in Figure 6-1 includes portions of Boston, McElroy, Catherine and Pacaud Townships. This study area is sparsely populated, but includes the small hamlet of Boston Creek. The Ministry of Natural Resources general land use plan for the area provides for resource extraction activities.

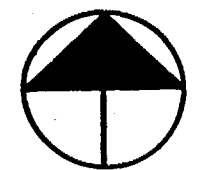
FIGURE 6-1
LAND TENURE

LEGEND

- PATENTED LAND
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- SAND AND GRAVEL
- ROAD
-  MIRADO MINE SITE
- POWER LINE OVER CROWN LAND

SOURCE:
M.N.R. - KIRKLAND LAKE; LANDS SECTION MAPS G-3214, M336 AND M380.

LAND USE MAPPING



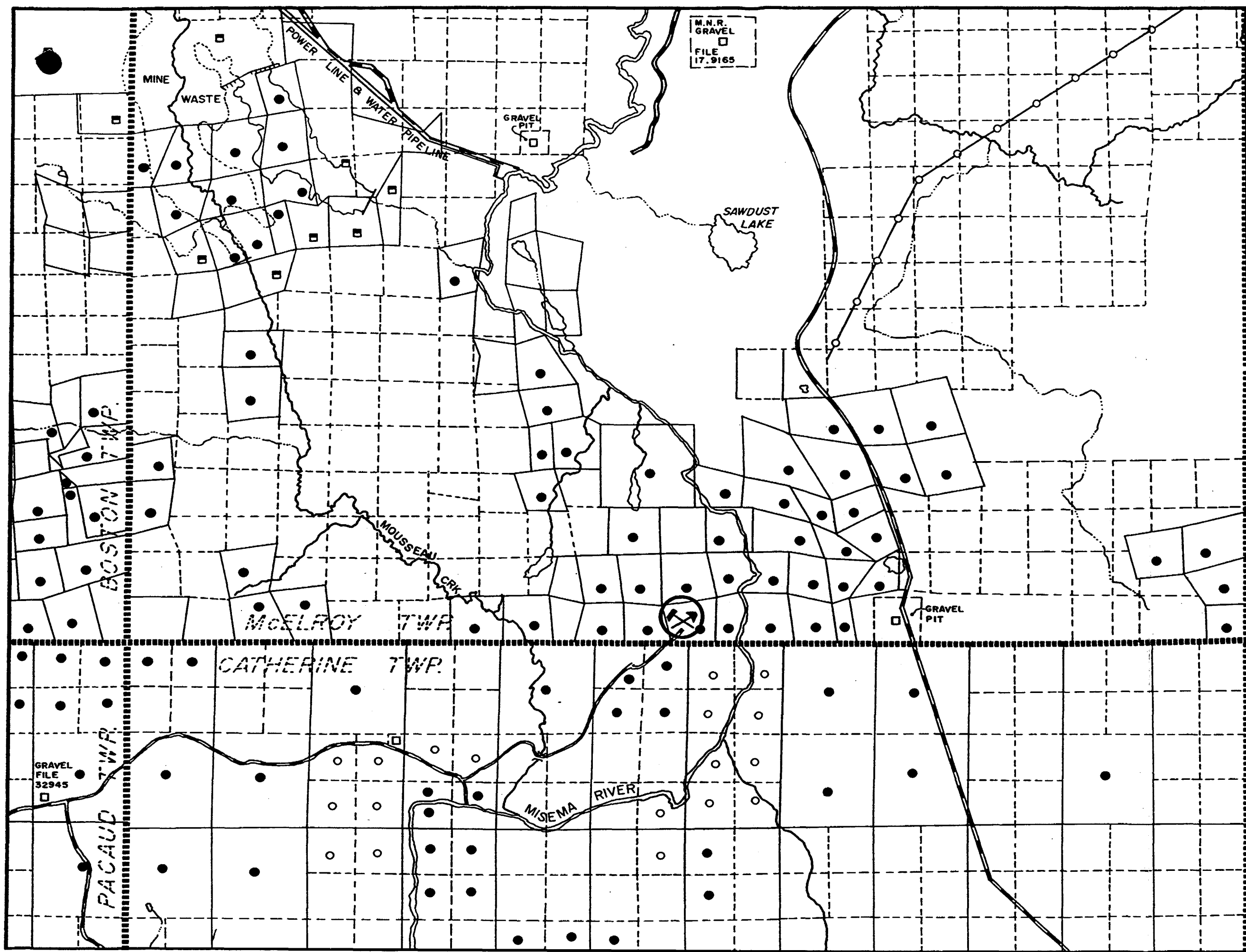
GOLDEN SHIELD RESOURCES
MIRADO MINE SITE

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6.3.2 LAND OWNERSHIP

Basically there are four forms of land tenure:

- (1) Land use permits
- (2) Licence of occupation
- (3) Crown lease and
- (4) Patented lands

Each of these forms of ownership is subject to provincial statutes, policies, programs and land use requirements. However, control over patented lands tends to be indirect, with provincial agencies such as the Ministry of Natural Resources encouraging private land users to manage their lands in a manner which is compatible, to the extent possible, with regional and district planning objectives.

Land tenure in the immediate vicinity of the Mirado Gold property is discussed below.

.1 Forms of Tenure

.12 Land Use Permit

A land use permit allows an applicant to use crown lands for a specific purpose. Land use permits issued by the crown cannot be registered and are issued for a specific period of time. As a rule, land use permits are expected to be of short duration -- for example, an outpost camp, winter road or trapper's cabin. At this time there are no land use permits for the study area.

.12 Licence of Occupation

A licence of occupation allows an applicant to use a certain area of crown land for an unspecified length of time. This form of tenure is applicable when time requirements for a given land use cannot be readily ascertained. Examples of this type of land disposition include power dams, microwave towers, timber camps and pipelines. Licences of occupation are not registered documents. There are no licences of occupation in the Figure 6-1 map area.

.13 Crown Leases

Crown leases are registered documents which allow occupation of crown land for a specified purpose for a given period of time. Leases must be surveyed by a registered Ontario land surveyor, and are most commonly issued for commercial development, mining purposes and cottaging. Leases are second only to patented lands with respect to legal stature. Extensive areas have been leased in the area as indicated in Figure 6-1.

.14 Patented Lands

Patented lands are registered titles to parcels of land separate from the crown lands, and are of three types:

- (1) surface rights
- (2) mineral rights
- (3) timber rights and/or combinations thereof.

As with leases, all patented lands must be accompanied by a registered survey which accurately describes the area involved. Areas of patented land are marked on Figure 6-1.

6.3.3 LAND USE PLANS

Responsibility for land use plans in the Kirkland Lake region lies with the Ministry of Natural Resources. The Kirkland Lake District Plan released in 1983 identifies resource extraction as the principal land use within the study area. Recreational use of crown land is to be a secondary use, including canoeing, hunting, fishing and snowmobiling.

6.3.4 MINING

Mineral resources within the land use study area are regarded as having a high potential. In recognition of this potential, the 1983 MNR District Land Use Plan encourages mineral exploration within the land use study area and identifies recreational land uses as being of secondary importance.

Mining and mineral exploration historically has been active in the study area and at the present time Dofasco Ltd. owns and operates the Adams Iron Ore Mine in Boston Township, 6 miles southwest of Kirkland Lake (extreme northwest corner of Figure 6-1). This mine started production in 1964, and has an ore body averaging 22% iron. The entire mine production is shipped by rail to Dofasco Steel Works in Hamilton, Ontario.

6.3.5 FORESTRY

Logging operations within the land use study area are managed by the Kirkland Lake District MNR Office on a long term basis, to provide wood supplies for both local and regional industries. Cutting allocations for McElroy and Catharine Townships for the period 1979-1989 are presented in Figure 6-2. These stands are harvested by independent, local operators who market their wood products regionally. Wood stands not included in the current cutting allocations are scheduled by MNR for future harvest.

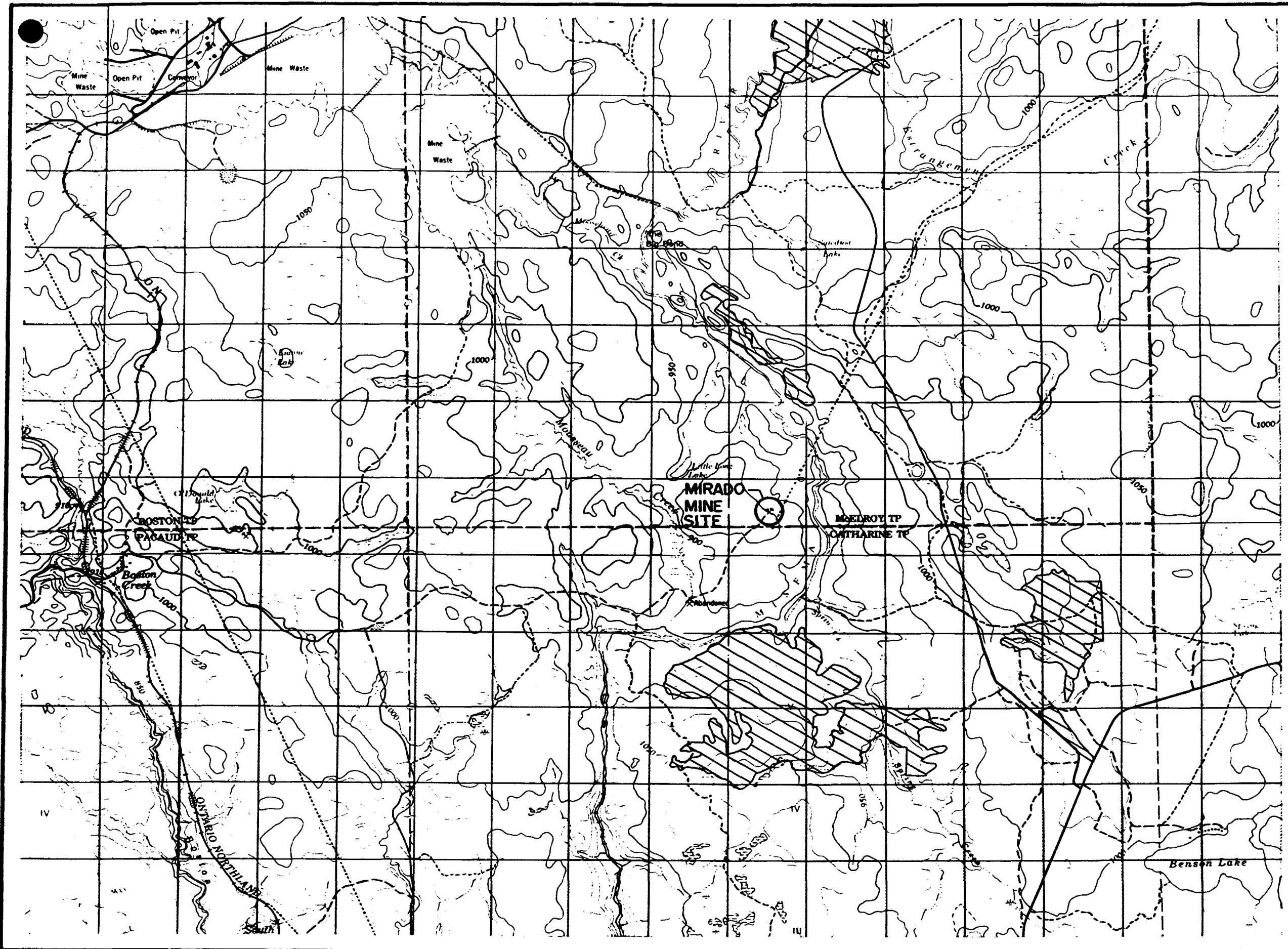
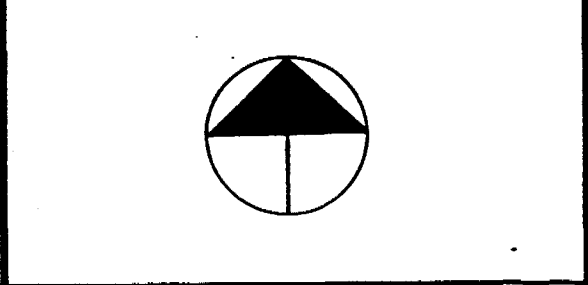


FIGURE 6-2
DISTRICT
CUTTING LICENCES
CATHERINE and McELROY
TOWNSHIPS
FIRST DECADE ALLOCATIONS
(1979 - 1989)

LAND USE
MAPPING



GOLDEN SHIELD
RESOURCES
MIRADO MINE SITE

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6.3.6 RECREATION

Recreation is not an important land use for the study area. Limitations for recreational development reflect the area's restricted and often difficult road access. Presently, there are no commercial recreational establishments, cottages, provincial parks or park reserves in immediate proximity to the mine site. Headwater reaches of the Misema River are used extensively by canoeists. However, the lower reaches are not as well used. Constraints for canoeing in the study area include poor road access, limited camping sites and a generally hazardous route. Hunting, fishing, snowmobiling, and possibly cross-country skiing, are minor recreational land uses, largely due to the area's remoteness.

Notwithstanding the above, MNR regards the Misema River system as an important recreational area for fishing, and canoeing, and for providing winter habitat for deer. MNR would therefore likely impose a 120 m, no development, protection zone along both banks of the river (Bob Walroth, Kirkland Lake District, personal communications). MNR would also be very concerned about any significant water quality changes to the river, within the context of the health of the recreational fishery.

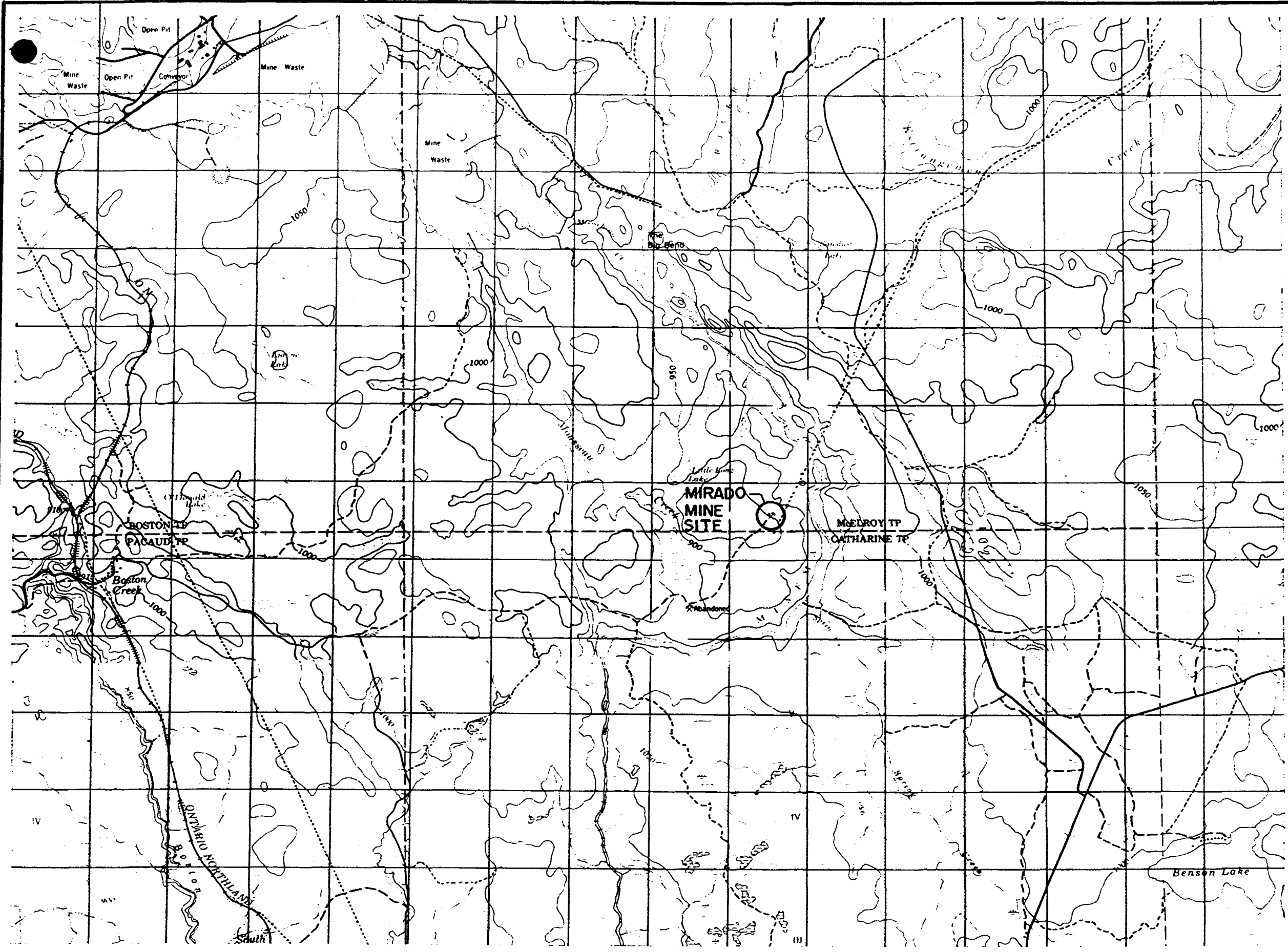
6.3.7 TRANSPORTATION AND UTILITY LINES

The Mirado Mine Site is accessed by a 10 km gravel exploration road running east from the hamlet of Boston Creek. From Boston Creek, access to local and regional municipalities is gained by an extensive network of secondary and provincial highways. Distances by highway to selected Ontario centres are shown in Table 6-1.

Table 6-1
 Travel Routes and Distances Between the
 Mirado Property and Selected Ontario Centres

Centre	Route	Approximate Distances (kms)
Kirkland Lake	Hwys 564, 112, 66	30
Englehart	Hwys 564, 112, 11	30
Sudbury	Hwys 564, 112, 11, 17	328
Norands Rouyn	Hwys 564, 112, 66, 59	75
North Bay	Hwys 564, 112, 11	220
Matheson	Hwys 564, 112, 11, 101	80
Toronto	Hwys 564, 112, 11, 400	575

Figure 6-3 illustrates road access and the location of utility lines in the vicinity of the Mirado Mine site.

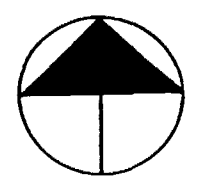


**TRANSPORTATION
AND UTILITY LINES
FIGURE 6-3**

LEGEND

- ROAD (All Weather)
- - - ROAD (Dry Weather)
- · - ROAD (Winter)
- · · TRAIL
- + + + RAILWAY
- · · POWER LINE

**LAND USE
MAPPING**



**GOLDEN SHIELD
RESOURCES**

MIRADO MINE SITE

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6.4 CLIMATE

The Mirado gold property is located about 20 km southeast of Kirkland Lake and north of Englehart. The climate in this region is influenced by exposure to cold air masses in the summer. A pattern of relatively low winter and high summer precipitation prevails in response to the prevalence of air-mass types. Cold arctic air, producing dry, clear weather, persists for a high proportion of the time in winter. In summer, a continuing succession of cyclonic storms sweeps over the area and warm, humid air masses alternate with cooler and drier air from the north to give typically two or three days of fine weather followed by rain for a day or two.

The closest climatic station is located at Kirkland Lake, and precipitation is also recorded at Englehart. For most parameters, the records at Kirkland Lake are used to characterize the climate in the vicinity of the project site. Ancillary observations at other climate stations, usually at Earleton and Englehart, are used when they provide additional information not available for Kirkland Lake.

6.4.1 TEMPERATURE AND PRECIPITATION

The temperature and precipitation normals for Kirkland Lake are provided in Table 6-2. Monthly average temperatures range from -17.2°C in January to 17.4°C in July. Diurnal temperature range is greatest in late winter (13°C) and least during fall (about 8°C). Daily temperature minima reach -23.3°C on average during January and attain average maxima of 23.4°C in July. Extremes of -43.3°C in January and February and 38.9°C in July have been recorded over the period of record. Mean daily temperatures are

most variable in the winter period and least variable during July and August as indicated by the daily temperature standard deviation. The mean annual temperature at Kirkland Lake is 0.6°C, compared with 1.1°C at Timmins, 1.0°C at Iroquois Falls, and 2.0°C at Earlton.

Normal annual precipitation at Kirkland Lake is 855.8 mm compared with 851.8 mm at Timmins, 779.0 mm at Iroquois Falls, and 892.3 mm at Englehart. In general, precipitation increases northward and southward from the Kirkland Lake area. In view of this trend, the annual precipitation at the project site might be somewhat higher than at Kirkland Lake, but Kirkland Lake statistics remain the best estimate of the precipitation regime at the project site. There is a distinct summer maximum of precipitation and a winter season minimum. During June through September, monthly precipitation exceeds 85 mm, while February's snowfall is only 46.6 mm (water equivalent).

Table 6-3 provides frequencies of monthly precipitation amounts and dry and wet precipitation years on record at Kirkland Lake. The precipitation record includes many incomplete years, thus percentiles of extreme values are not provided in the table. The largest monthly rainfall, over the 30-year period 1950-1980, was 222 mm during June, 1957.

Table 6-3
Monthly and Annual Precipitation Variation (mm)

Month	Normal	Dry Year (1963)	Wet Year (1967)	Percentiles		
				95%	50%	5%
Jan.	58.8	67.3	125.7	114.2	50.6	25.8
Feb.	46.6	57.2	55.4	95.1	39.7	13.2
Mar.	57.4	27.9	57.7	124.4	54.0	8.9
Apr.	50.7	38.1	95.3	100.3	50.3	6.0
May	68.9	64.8	67.3	141.8	66.6	18.2
June	97.7	47.5	90.7	207.9	92.7	22.0
July	85.7	91.7	63.2	143.2	88.6	41.5
Aug.	87.6	127.3	118.4	140.1	89.3	39.9
Sept.	102.6	65.0	50.0	170.8	95.3	50.1
Oct.	66.8	17.8	103.9	150.6	62.7	18.3
Nov.	71.5	19.6	105.9	145.3	69.3	20.2
Dec.	61.5	63.2	34.8	100.5	61.5	21.5
Year	855.8	687.4	968.3	M	872.2	M

M = missing

Source: Atmospheric Environment Service Climatic Abstracts

Extreme values and return periods for short duration rainfall (24 hours or less) are provided in Table 6-4 for the region. The greatest rainfall in 24 hours recorded at Kirkland Lake (Table 6-2) was 96.5 mm, which is intermediate for a 20 to 50 year storm.

Table 6-4
Extreme Rainfall (mm) in Kirkland Lake Region

Duration (hrs)	Return Period (years)					
	2	5	10	20	50	100
1	21	26	32	37	43	48
2	26	31	37	42	48	53
6	42	49	56	62	71	78
12	49	55	63	71	81	89
24	58	69	81	92	107	118

Source: Rainfall Frequency Atlas of Canada, 1985

6.4.2 SNOW COVER AND SNOW MELT

Snow depths at Earlton are provided in Table 6-5. Maximum snow depth of 51 cm is reached by the end of February. The snow cover season normally extends from mid-November through late April.

Table 6-5
Snow Cover at End of Month for Earlton (cm)

	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Median Value	0	0	8	23	41	51	33	85	0

Source: Snow Cover, Potter (1965)

Rainfall and snowmelt intensities compiled by the Atmospheric Environment Service, using Earlton temperature and Englehart precipitation, are provided in Table 6-6. The mean extreme 30-day melt is 225 mm and the 10-day melt is 136 mm. The 100-year return period 30-day snow melt, plus rainfall is estimated to be 463 mm.

Table 6-6
Rainfall and Snowmelt* Intensity, Duration and Frequency (mm)
Duration (days)

	1-day	2-day	5-day	10-day	20-day	30-day
Mean Extreme	29.9	47.1	87.5	135-7	199.9	236.6
Return Period (years)						
2	28.8	45.2	83.5	129.6	189.9	224.7
5	34.7	55.4	105.0	162.8	243.8	288.5
10	38.5	62.2	119.3	184.9	279.6	330.9
25	43.4	70.7	137.2	212.8	324.7	384.3
50	47.0	77.1	150.6	233.4	358.2	423.9
100	50.6	83.4	1063.8	253.9	391.5	463.3

*-calculated according to $SM = 0.039.7 (TA-27.6)$ (in/day) where TA is the mean daily air temperature

Source: Atmospheric Environment Service based on Englehart precipitation and Earlton Temperature

6.4.3 FREEZE-UP AND BREAK-UP

Data on river ice break-up and freeze-up for the Mattagami River near Timmins are provided in Table 6-7. It is expected that the ice regime of rivers in the project site area will be similar to that of the Mattagami River. Complete freeze-over of ice will normally be complete by the beginning of December and the first deterioration will occur by the end of March or early April. Mean maximum ice thickness will depend on the site specific characteristics of the river-reach.

Table 6-7
Freeze-up and Break-up of Ice
Mattagami River Near Timmins

	First Permanent Ice	Complete Freeze Over	First Deterior- ation of Ice	Water Clear of Ice
Mean Date	Nov.16	Nov. 30	Mar. 30	Apr. 6

Source: Freeze-up, break-up and Ice Thickness in Canada, Allen (1977)

6.4.4 EVAPORATION

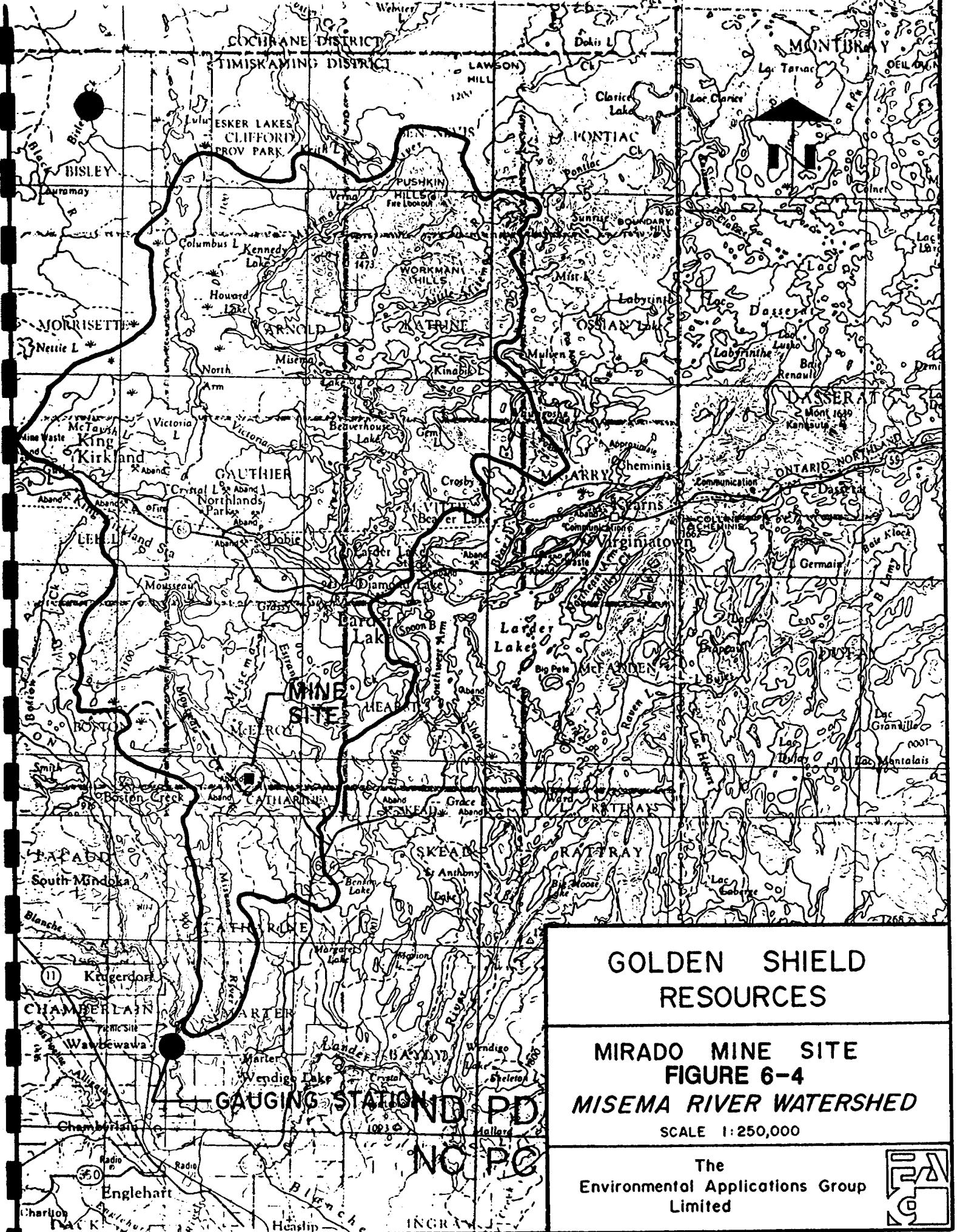
Actual evapotranspiration in the region is about 400 mm (Hydrological Atlas of Canada, 1978). There are no class A pan evaporation measurements in the region. The closest stations are located at Moosonee and Amos, Quebec. Calculated lake evaporation at these two locations range from 352 mm at Moosonee to 516 mm at Amos (Canadian Climate Normals 1951-80. Volume 9).

6.5 HYDROLOGY

The Mirado Gold property is located in the lower portion of the Misema River basin, a tributary of the Blanche River which flows southward to Lake Timiskaming.

Discharge readings are available for the Blanche River above Englehart (Figure 6-4) and the Blanche River at Swastika. Flows in the Blanche River typically exhibit a May peak largely in response to spring, snowmelt runoff. Flows diminish from the spring peak until the end of summer. In the fall, with decreased evapotranspiration, flows again increase until winter when runoff is reduced by subfreezing temperatures. Minimum flows usually occur in February but comparable flows are not uncommon in late summer.

The mean monthly flows at the two gauging stations on the Blanche River are provided in Table 6-8. The records for the Blanche River at Englehart are more complete than those at Swastika and are considered to be more representative of the normal flows in the Misema River.



**GOLDEN SHIELD
RESOURCES**

**MIRADO MINE SITE
FIGURE 6-4
MISEMA RIVER WATERSHED**

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Table 6-8
 Monthly and Annual Discharge on
 The Blanche River

Month	Blanche River at Swastika Discharge (m ³ /s)	Blanche River at Englehart Discharge (m ³ /s)
January	1.21	7.39
February	0.887	5.83
March	0.956	8.28
April	5.94	61.7
May	10.7	72.4
June	4.71	29.8
July	2.41	15.7
August	1.03	7.98
September	0.860	8.17
October	1.76	16.3
November	3.12	20.1
December	2.29	14.1
Annual	2.96	22.2
Period of Record	1968-1978 1975-1978	1968-1984
Mean Annual Runoff (mm)	372	393
Basin Area (km ²)	251	1780
Source: Water Survey of Canada, 1985		

The Misema River drains a watershed of approximately 675 km². The basin area of the Misema above the Mirado gold property is 603 km² (refer to Figure 6-4). The mean monthly flows for the Misema River sub-basin are provide in Table 6-9 based on prorated Blanche River (above Englehart) discharges.

Table 6-9
Estimated Misema River Sub-Basin
Mean Monthly Discharges

	Discharge (m ³ /s)
January	2.50
February	1.98
March	2.81
April	20.9
May	24.5
June	10.1
July	5.32
August	2.70
September	2.77
October	5.52
November	6.81
December	4.78
Annual	7.52

Extreme value analysis of annual minimum monthly and daily flows on the Blanche River provides the basis for estimates of low flows on the Misema River sub-basin. Minimum flows occur either in winter or late summer.

The return periods and associated discharge values for the Misema are provided in the following:

Return Period (yrs)	Monthly Minimum Discharge (m ³ /s)	Daily Minimum Discharge (m ³ /s)
2	1.5	1.2
5	1.2	0.9
10	1.1	0.7
25	0.9	0.5

These estimates must be considered tentative and subject to a large range of uncertainty since the original data are from another watershed and the period of record is relatively small.

Extreme peak flows resulting from rainfall were estimated for the Misema River sub-basin using annual daily peak flows on the Blanche River. The return periods and peak flows estimated for the Misema sub-basin are provided in the following:

Return Period (yrs)	Daily Maximum Discharge (m ³ /s)
2	60
5	76
10	87
25	100

Maximum daily flows usually occur from late April to early May during the snowmelt period.

6.6 TERRAIN

6.6.1 TOPOGRAPHY

The project site is situated in an area of irregular terrain. Elevations in the project development area range from 260 to 300 m above sea level. Over horizontal distances of 300-500 m, topography rises up to 20 m. Local relief is primarily bedrock controlled, but in places, drift is sufficiently deep to obscure bedrock topography. In the immediate development zone, the best examples of such uplands occur to the east and west of the proposed tailings pond (Figure 6-6).

The eastern half of map area (Figure 6-5) is bisected by the Munro Esker complex which provides relief to over 335 m. The esker forms a narrow sharp-crest ridge with drift thickness exceeding 30 m at some locations. Along the southern portion of the map area (Figure 6-5) the drift is much thinner (3-6 m), exposed and outcropping is common to frequent.

6.6.2 SURFICIAL GEOLOGY

Five physiographically distinct units occur within the terrain map area (Figure 6-5). Of these, lacustrine deposits of clay and silt are predominant. Deep lacustrine deposits (map unit 4) are associated with valleys and depressional areas, particularly where these are surrounded by high hills. Generally these deposits are confined to elevations below 320 m. Shallow lacustrine deposits (map unit 5) are found adjacent to esker from which silty or coarse sand layers have been redeposited. Organic impermeable deposits (map unit 8) have developed over clay or rock; while alluvium deposits (map unit 9) are commonly associated with streams flowing through lacustrine deposits. Ice contact

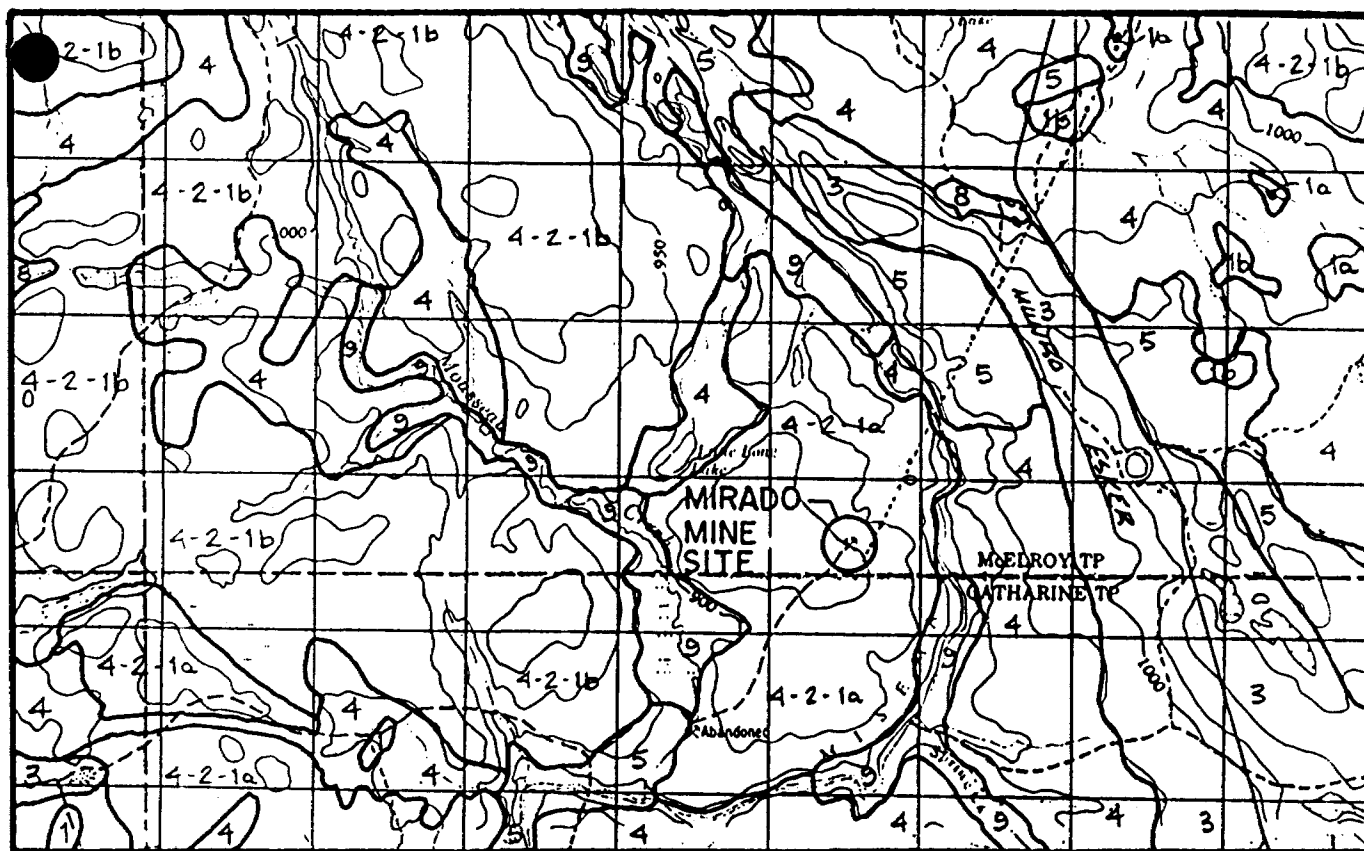


FIGURE 6-5
SURFICIAL GEOLOGY

LEGEND

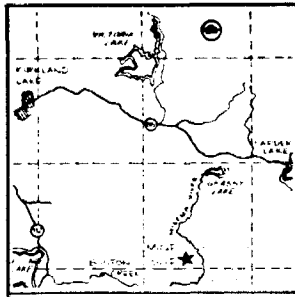
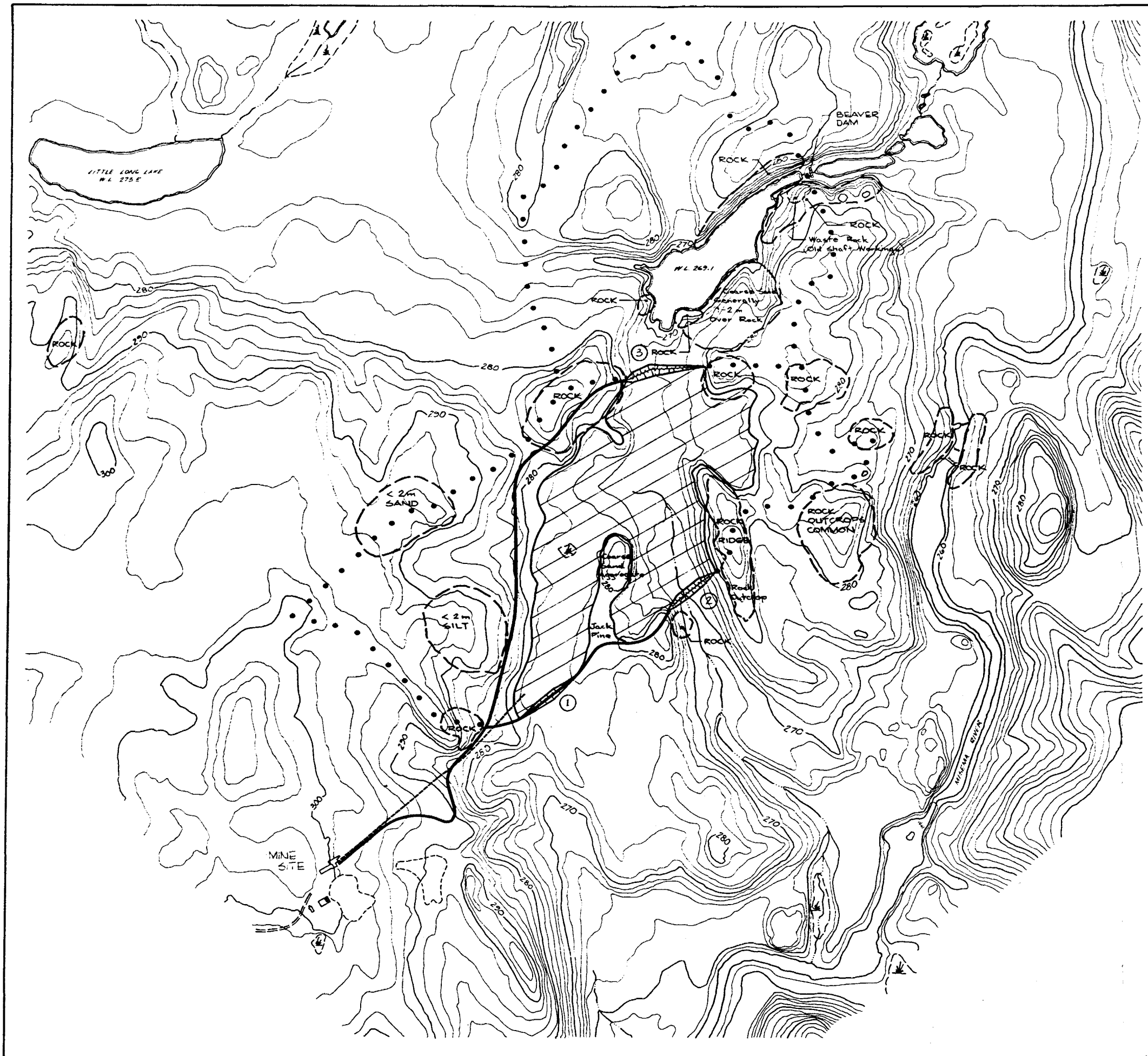
1. Bedrock Drift : 1a. Abundant bedrock exposure with thin drift cover.
1b. Extensive but discontinuous drift cover, thick enough to subdue bedrock topography.
2. Till : Stony, silty, sand till as a distinct terrain unit.
3. Ice-Contact deposits : Sand, gravelly sand, gravel, eskers, kames, kame moraines, crevasses, fillings
4. Glaciolacustrine deep water deposits : Clay, varied clay, silt
- 4-2-1a. Deepwater Lacustrine Clay and Silt : Overlying till-bedrock complex, abundant rock exposure,
- 4-2-1b. Deepwater Lacustrine Clay and Silt : Extensive overlying till, bedrock complex
5. Glaciolacustrine Shallow Water Deposits : Sand with minor gravel.
8. Swamp Deposits : Mud, muck, peat.
9. Alluvial Deposits : Mainly sand and silt with minor gravel.



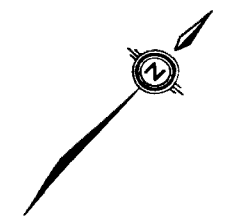
**GOLDEN SHIELD
RESOURCES**

**MIRADO
MINE SITE**

Scale 1:50,000
The Environmental Applications Group
Limited



KEY PLAN 1:250,000



LEGEND

- Tailings Pond
- Dam
- Access Road
- Tailings Pipe
- Drainage Basin Boundary

GOLDEN SHIELD
RESOURCES

MIRADO MINE SITE
FIGURE 6-6
PROPOSED
TAILINGS
POND

The Environmental Applications
Group Limited

CONTOUR INTERVAL: 2 m
SCALE: 1:2500
DATE: AUG. 20, 1986
JOB NO: 539

deposits (sands and gravel) are shown as map unit 3. The largest of these, the Munro Esker passes in a northwest-southeast direction, near to the east bank of the Misema river. This esker complex forms a narrow sharp crested ridge with drift thickness exceeding 30 m. Bedrock drift complexes (map unit 1), occur most frequently in the northeast corner of the map area.

Detailed topography and selected site area overburden conditions are illustrated in Figure 6-6. Proposed development features relating to tailings disposal are retained in the figure, as the potential use of sand and silt deposits relates to tailings area construction needs. It is clear from the distribution of features in Figure 6-6 that the general terrain types as defined in Figure 6-5 should be interpreted with caution. In traversing the area, it was abundantly clear that original clay silt materials have been extensively eroded from upland knobs and ridges, and frequently are no longer present.

The deep sand ridge lying between dam positions 1 and 2, is of particular note as this material, in conjunction with mine waste rock, and the mapped silt deposit could be used for dam construction. Sand deposits, adjacent to dam 3 are also of interest in this regard. Should a dam be required at the outlet from the beaver pond (Figure 6-6), locally available waste rock and sands would suffice for construction. The small waste rock pile, perhaps totalling 500 m³, is located adjacent to an old handwork shaft.

Bedrock outcrop areas are highlighted primarily within the context of development limitations for road construction.

6.6.3 VEGETATION

Forest descriptions for the development area have been prepared on the basis of site visits and air photo interpretation. Vegetation development within the area has been controlled to a great extent by past fires and logging. The abundance of jack pine, a fire development species and white birch and trembling aspen, also dependent on either fires or logging for continued propagation, bear evidence to this fact.

Species composition of the forest is mixed; including aspen birch, black spruce and jack pine. Distributions of these stands are often contiguous reflecting variations in local soil conditions and drainage. Better drained sites are occupied by either jack pine communities or by stands of white birch and/or trembling aspen. Sites exhibiting intermediate drainage tend to support more heterogenous community types in which black spruce, jack pine, trembling aspen and white birch are well represented. Black spruce communities, as well as, alder, sedge and willow thickets are associated with valley deposits of Mousseau Creek and the Misema River. Throughout most of the development area there is a heavy understory of shrubs and herbaceous growth.

The only higher quality forest stand in the development area is a jack pine stand growing on the ridge between the positions of tailings dams 1 and 2. Current logging operations are discussed in Section 6.3.5.

6.7

WATER QUALITY

During May 1986, water sample collections were carried out at four locations in proximity to the Golden Shield exploration site. Water quality monitoring was conducted for three reasons:

- (1) To provide an initial indication of local water quality.
- (2) Provide baseline data for permit applications.
- (3) To assist with interpretation of fishery and aquatic biology information for area waters.

Sampling locations are shown in Figure 6-7. Water quality data are presented in Table 6-10 along with Drinking Water Standards and Provincial Water Quality Objectives for the Protection of Aquatic Life.

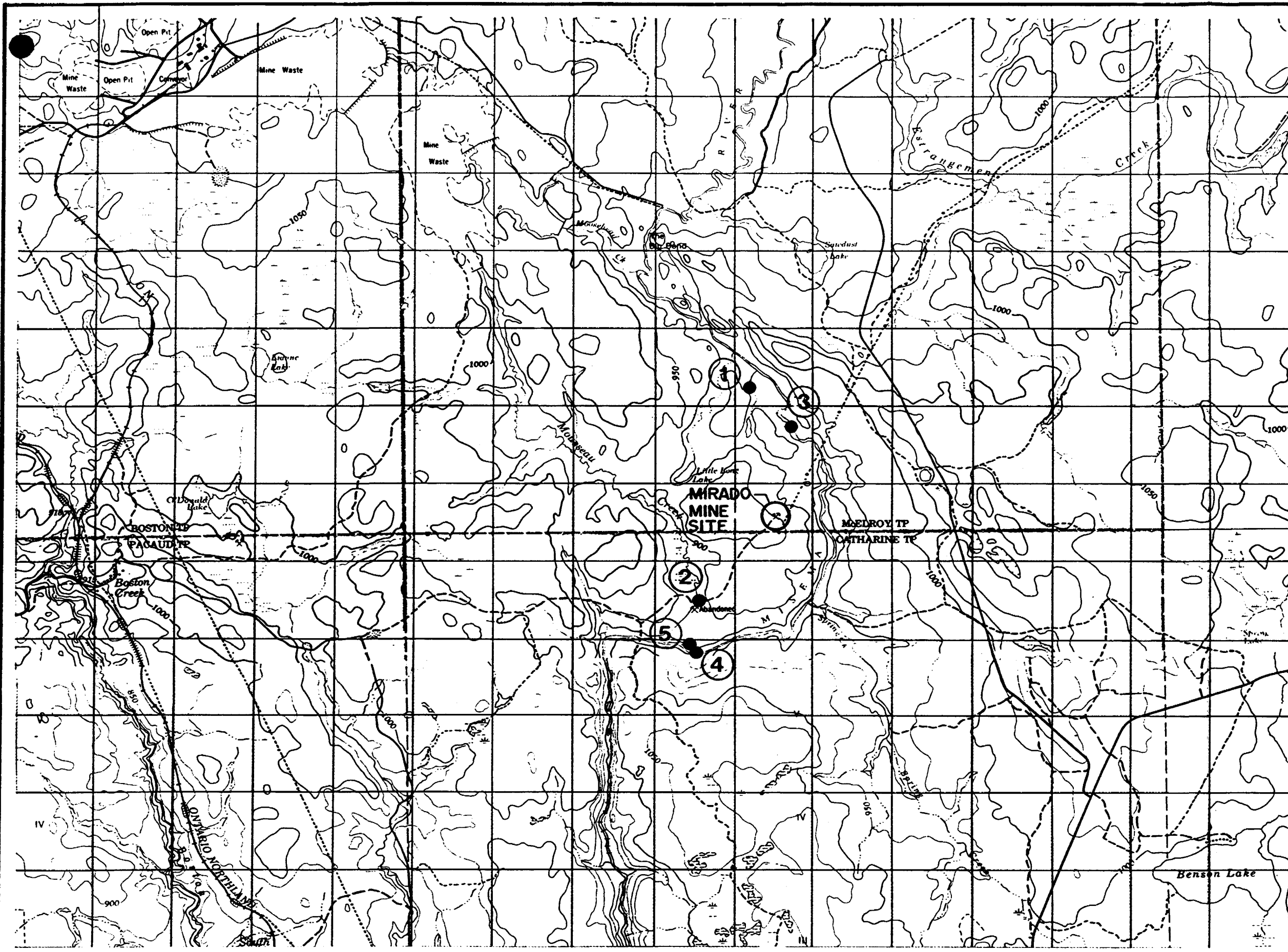
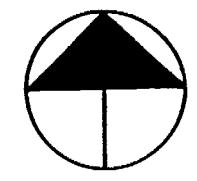


FIGURE 6-7
WATER SAMPLING
LOCATIONS
 MAY 1986

- ① Beaver Pond Draining into The Misema River
- ② Mousseau Creek
- ③ Misema River, Upstream Sample
- ④ Misema River, Downstream Sample
- ⑤ Misema River, Downstream - Sept., 1986



GOLDEN SHIELD
RESOURCES

MIRADO MINE SITE

The Environmental Applications Group
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SCALE : 1:50,000

JOB N^o

DATE: JULY, 1986

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Table 6-10
 Water Quality Summary - May and September 1986
 Collection - Mirado Property

		Objectives	Objectives	Beaver	Mousseau	Misema	Misema	Misema
		Protection	Drinking	Pond	Creek	River	River	River
		Aquatic Life	Water	#1	#2	Upstream	Downstream	Sept.29/86
	Units					#3	#4	
Arsenic	mg/L	0.1	.05	0.001	0.001	0.001	0.001	0.001
Copper	mg/L	.005	1.0	0.005	0.005	0.026	0.007	.005
Iron	mg/L	0.3	0.3	0.053	0.119	0.206	0.205	.197
Lead	mg/L	0.25	0.5	0.003	0.002	0.009	0.005	.005
Zinc	mg/L	0.03	5.0	0.005	0.005	0.007	0.004	.008
Manganese	mg/L	N/A	0.05	0.004	0.015	0.022	0.021	0.005
Nickel	mg/L	.025	N/A	0.002	0.003	0.003	0.003	0.004
pH	units	6.5-8.5	6.5-8.5	7.02	7.18	7.04	6.87	7.49
Hardness	mg/L as CaCO ₃	N/A	80-100	33.1	54.6	55.9	50.0	68.2
Suspended Solids	mg/L	N/A	N/A	10	8	6	10	2

All four water quality stations exhibited moderate hardness (33.1 to 55.9 mg.L⁻¹). pH values were near neutral at all sites (6.87 - 7.18). Metal determinations indicate that zinc, nickel, lead, iron and arsenic concentrations were below provincial drinking water objectives and water quality objectives for the protection of aquatic life. Copper concentrations, on the other hand, either exceeded or reached the protection of aquatic life objectives (0.005 mg.L⁻¹) at the four stations. The copper value of .026 mg/L for the upstream Misema River station (site 3) is decidedly higher than that measured at other locations. It is difficult to draw conclusions from a single sample, but the lower copper reading downstream suggests that the .026 reading may be anomalous. Manganese concentrations are somewhat higher in the Misema River than in either the beaver pond or Mousseau Creek, concentrations of this element are well below drinking water guidelines.

On September 29, 1986, a single water sample was taken from the Misema River. Laboratory analyses for this sample are presented in Table 6-10 along with May 1986 water quality data. In September, both a pH (7.49) and hardness (62.2 mg/l⁻¹) were slightly higher than reported for May. Suspended solids, on the other hand, were considerably lower (2.0 mg/L⁻¹). With respect to metal concentrations, all metals except for copper were below drinking water guidelines and protection of aquatic life objectives. Copper concentrations in Misema, although lower in September 1986, still reached the protection of aquatic life objectives of 0.005 mg/L⁻¹. Also of note, was the substantial drop in manganese concentrations.

In summary, local water quality, with the exception of copper, appears to be generally quite good with respect to provincial guidelines and objectives. Higher copper concentrations may provide grounds for regarding the Misema River as constituting Policy 2 waters. Restrictions placed by MOE on the use (including discharge to) of Policy 2 waters are less than those placed on Policy 1 waters. Waters of the latter type meet all Provincial water quality objective guidelines.

6.8 FISHERIES AND AQUATIC RESOURCES

6.8.1 REGIONAL CHARACTERISTICS

The Mirado Gold property is situated close to the boundary of McElroy and Catharine townships between the Misema River and Mousseau Creek. Mousseau Creek joins the Misema River approximately 0.5 km below the exploration road crossing. The Misema River is a large drainage, with its headwater arising some 30 kms to the north in Ben Nevis township. Fish communities inhabiting this river vary considerably in response to changes in aquatic habitats.

Regionally, the sport fishery can be broken down into cool and cold water species. The cool water fishery includes walleye, northern pike, small mouth bass, and yellow perch. Brook trout, rainbow trout and lake trout comprise the cold water fishery. Non-game species associated with the above sport fish include lake white fish, lake herring, burbot, various suckers and a variety of minnows.

Assessments of Kirkland Lake District fish potential (MNR 1981) indicate that the Misema River watershed (2JC-7) is capable of sustaining on an annual basis, a sport fish harvest of approximately 6,200 kg. This figure represents about 6% of the District total (105,688 kgs). The Misema River ranks 7th (of 34 district watersheds) in terms of its potential sport fish yield.

Angling is a major outdoor recreational activity, and a principle attraction for regional tourism. Brook trout and lake trout are the preferred species, however the bulk of the angling is directed towards cool water species, particularly walleye and northern pike. The sport fish harvest for the Misema River (MNR 1981) is estimated to be 9,482 kg, which is considerably larger than the sustainable yield estimate of 6,280 kg. Either the harvest or the sustainable yield estimate is in error, otherwise the fishery is currently being over harvested.

It should be pointed out that the angling effort is directed primarily towards lakes, or sections of the river with the best access. Accordingly, sections of the Misema River in the vicinity of the Mirado gold property receive in comparison, very little angling pressure.

There is no commercial food fishing in the Kirkland Lake MNR District, however, bait fishing is quite active. Harvested bait fish species include suckers and a variety of "minnows" (dace, shiners, fatheads and chubs). Generally, licensed bait fishing effort is determined by ease of access, productivity of waters and distance from selling points. For these reasons, bait fishing is not an important activity within the study area.

6.8.2 MISEMA RIVER

Fisheries and aquatic resources of the Misema River are reviewed for sections of the Misema River between Grassy Lake and the Catharine Township boundary. The Mirado Gold property is situated approximately 0.5 km to the west of the river, close to the McElroy Township border. Given the mine site's close proximity, it is quite likely that the Misema River would be used either as a water source or receiving water for mine-mill waste if the Mirado Project were to begin production.

Between Grassy Lake and Catharine Township, width of the Misema River varies from 10 to 60 m, with wider sections being associated with meander loops and pools situated at the bases of rapids. The river banks are generally low lying and vegetated to the water's edge. Shoreline vegetation is predominantly alder, with scattered black spruce, cedar and tamarack. Width of this vegetation zone varies from 15 to 150 m depending upon valley width and relief.

River banks and substrates are predominantly fine grained sand, silts, and clay. Bedrock outcroppings and boulder-cobble substrates are present in the vicinity of small waterfalls and rapids.

Water depths in Misema River range from 1 to 4 m, with deeper sections being associated with pools located from rapids. These pools vary in width from 40 to 60 m and reach lengths of over 100m.

The fish community in this stretch of the Misema River is predominantly a cool water assemblage dominated by northern pike, walleye and smallmouth bass. There is a remote chance that rainbow trout may reside in the Misema River, since they were stocked in the headwaters in the late 1960's (Bob Walroth, District Biologist, personal communication). To date, the Ministry of Natural Resources has not surveyed this river. As a result, it is not known if rainbow trout still reside in the river.

Habitats within the study area appear reasonably productive for northern pike, walleye and smallmouth bass. Northern pike would spawn along the flooded shoreline of the river, whereas smallmouth bass and walleye would utilize the rapid or fast water sections of the river. Although adult and juvenile game fish forage throughout the river, slightly larger concentrations of these fish may be present either below rapid areas or in the vicinity of creek mouths. Generally, these environments are more productive and therefore are attractive to fish.

6.8.3 MOUSSEAU CREEK

Mousseau Creek is a small, shallow bog drainage passing approximately 1 km to the west of the Mirado Gold Property. Headwaters of this creek have been incorporated into the tailings system for the Adams, mine, situated 5 kms to the north. The creek is generally narrow (1 - 2 m) and shallow (0.5 - 1.0m). Stream banks are low lying and covered with thick alders. Substrates range from coarse sands to fine silts and organic muds. The Mousseau Creek fish community likely includes typical boggy water species, such as fathead minnows, finescale dace and northern redbelly dace. Brook trout are reported by MNR to reside in nearby Boston Creek and Spring Creek (Figure 6-1). It is possible that trout may also be present in Mousseau Creek, however, habitats appear marginal for this species. Northern pike and white sucker may venture into the lower sections of Mousseau Creek from the Misema River to spawn or feed.

6.9 WILDLIFE

6.9.1 MOOSE AND DEER

The moose is the dominant ungulate of the study area. Populations of this animal are fairly large, primarily as a result of an abundance of disturbed habitats which provide preferred browse species such as white birch, trembling aspen and young shrubs. Moose winter in increased numbers in the north-central portions of Boston and McElroy Township (MNR 1981).

Deer are less common (MNR 1981), primarily because of their inability to tolerate severe winters particularly the deep snowfalls, which characterize this region. Larger populations of deer are found to the south near Englehart where agricultural land provides less severe winter habitats and more abundant food supplies. More locally, lesser numbers of whitetail deer are known to winter along the flood plain of portions of the Misema River (Bob Walroth personal communication). At the present time, there is no hunting season for whitetail deer in the study area.

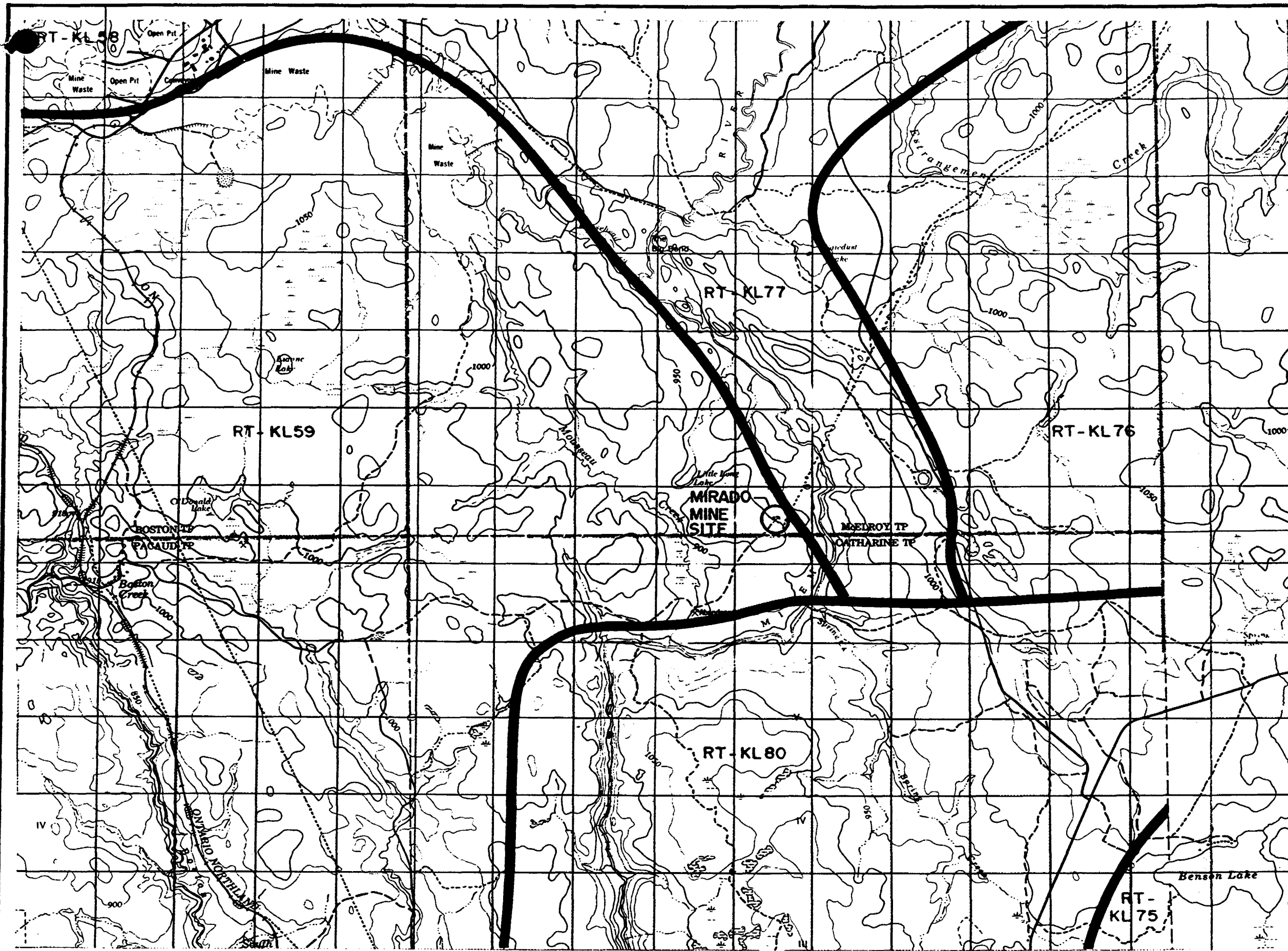
6.9.2 FURBEARERS

Beaver, martin, otter, fox, minx, lynx and muskrat are the most important furbearers in the area. Secondary species include squirrel, weasel, wolf and coyote. Habitats are generally quite good for beaver, otter and martin, however muskrat are probably limited by the absence of sizeable cattail marshes.

Registered traplines within the land use study area are illustrated in Figure 6-8.

6.9.3 UNUSUAL OR RARE SPECIES

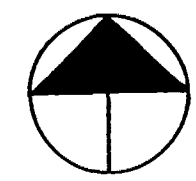
No rare or unusual wildlife species are reported in the study area (MNR 1981). Sensitive species which may reside or pass through include the osprey, bald eagle, a variety of hawks and the great blue heron. Specific information is lacking for these species within the study area.



**FIGURE 6-8
REGISTERED
TRAPLINES**

**CATHERINE, McELROY
and BOSTON TOWNSHIPS**

**LAND USE
MAPPING**



**GOLDEN SHIELD
RESOURCES**

MIRADO MINE SITE

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GOLDEN SHIELD RESOURCES LTD.

MIRADO MINE PROJECT:

SUMMARY REPORT ON 1986 DIAMOND DRILLING

McELROY & CATHARINE TWP.S

LARDRE LAKE MINING DIVISION,

ONTARIO.

IN SUPPORT OF O.M.E.P. GRANT NO. 86 OM-6-P-101

MAY 30, 1987

BRYAN WILSON & ASSOCIATES LTD.

OM 86-6-P-101



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APPENDIX 1:

LISTING OF DIAMOND DRILL HOLES GIVING:

- 1) DEPTH OF HOLES AND,
- 2) THE NUMBER OF ASSAYS.

APPENDIX 2:

DIAMOND DRILL LOGS FOR THE 1986 UNDERGROUND DRILLING

MAP POCKET

- 1) LOCATION PLAN OF THE UNDERGROUND DIAMOND DRILL HOLES ON THE 4TH LEVEL OF THE MIRADO MINE
- 2) LOCATION PLAN OF THE UNDERGROUND DIAMOND DRILL HOLES ON THE 2NDLEVEL OF THE MIRADO MINE
- 3) LOCATION PLAN OF THE SURFACE DIAMOND DRILL HOLES OF THE MIRADO MINE

VOLUME 2

APPENDIX 3:

- 1) DIAMOND DRILL LOGS FOR THE 1986 SURFACE DRILLING

MAP POCKET

- 1) LOCATION PLAN OF THE SURFACE DIAMOND DRILL HOLES OF THE MIRADO MINE

INTRODUCTION

In August 1985 Golden Shield Resources Ltd. entered into an option agreement with Mirado Nickel Mines Ltd. and Royado Mines Ltd. in which Golden Shield would acquire a 100% interest in Mirado's Cathroy-Larder gold property in the Larder Lake Mining Division of Ontario. This property covering 12 claims, has easy access to all the required mining infrastructure of the Kirkland Lake - Larder Lake area.

The deposit has two separate areas of gold mineralization. The North Zones (A,B,C) consists of a series of quartz-carbonate-sulphides veins in narrow vertical structures. These veins have been found to have a relatively consistent vertical continuity from the the surface through the 250 foot level to the 500 foot level. Although they are generally very narrow from several inches to a few feet in width, they could provide a limited high grade tonnage to a future mining operation.

Of significance to this report is the South Zone (D,E,F,G) which has been the focus of the exploration activity over the past 30 years. During this period the South Zone has been drilled in five different directions in three or four different drill campaigns. The resulting collage of diamond drill data and complex geology, made correlation from one section to the next and, from from one set of drilling sections to the next a most difficult task. A previous reserve estimate calculated by Baker and later modified by Segsworth (1963) and had been conservatively set at 435,000 tons grading 0.233 ounces per ton.

The surface diamond drilling undertaken by Golden Shield Resources in 1985 was designed to test the 1963 reserve estimates reported by Mirado. The best drill hole result obtained from the first drilling campaign by golden Shield was 0.55 oz. Au / 91.0 feet for an apparent true width of 45 feet. Further, other drill holes substantiate this grade and apparent width of the herein designated D-Zone.

This report comprising two volumes was prepared at the request of Golden Shield Resources Ltd., and summarizes the results of diamond drilling that has been carried out on the Mirado Mine property during the period January 14 1986 and December 20 1986. Eighty-six surface holes were drilled for an total footage of 13,753, and 51 underground holes were drilled for a total footage of 9887 feet were drilled during this period. The aggregate footage covered in this report is 23,640 feet.

Assaying of split core is represented on the accompanying logs with the number of assays totaling 2683. All logs were entered into the "LOGG II" system program of Markham Data Inc. from which print out in various formats is possible as well, plans and sections in numerous combinations are possible.

Geologists that were involved in the logging of the drill core, in order of contribution were, Danjo McCormack, Robert Dues, and Don Hawke.

PROPERTY DESCRIPTION

The property described on Table 1 and illustrated on Figure 2, consists of 12 contiguous patented mining claims, one contiguous unpatented mining claim. Work carried out on the unpatented claim is sufficient to maintain this claim in good standing for a period of 5 years, after which time it can be brought to lease.

FIGURE 1
LOCATION MAP

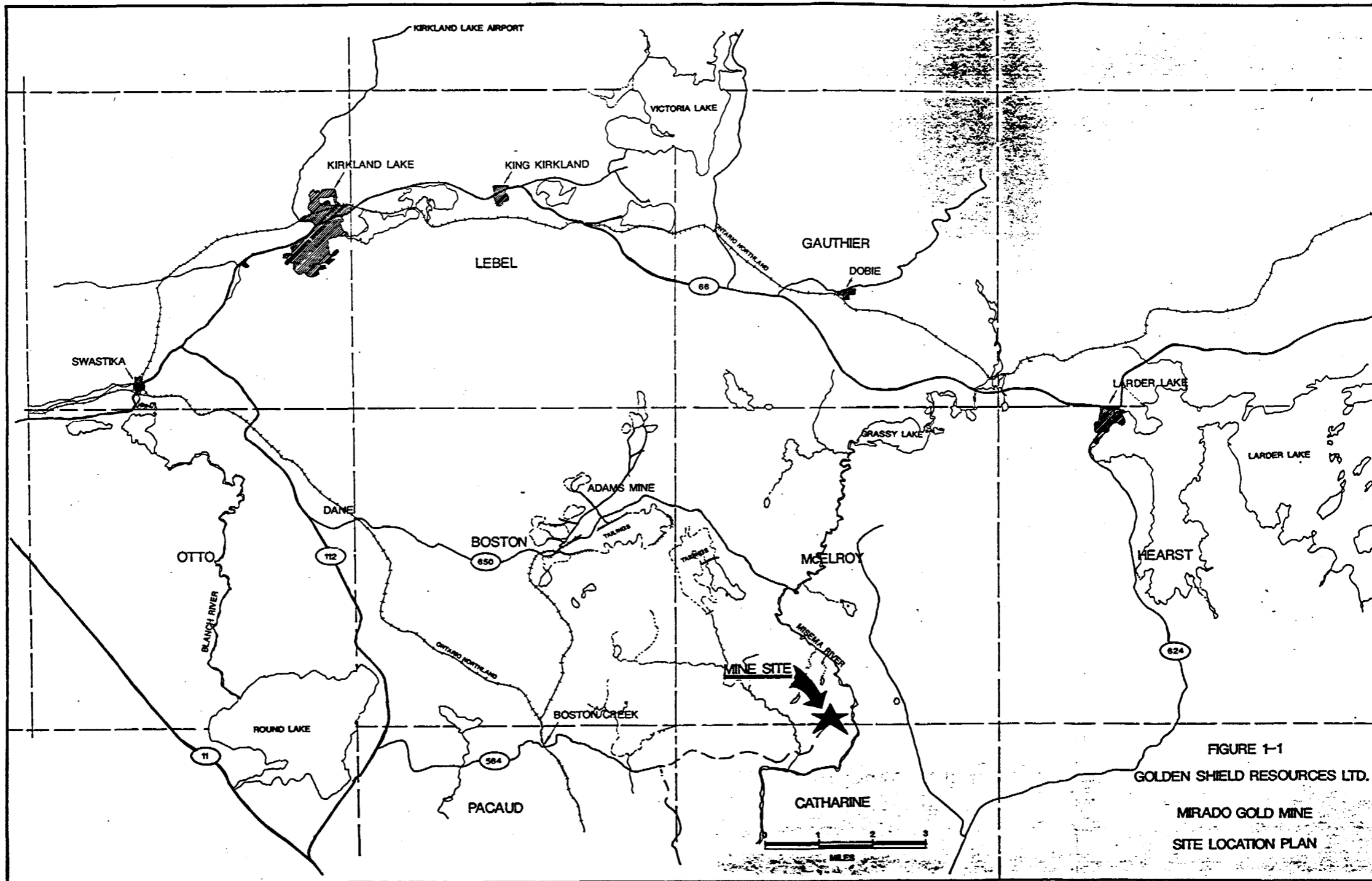


FIGURE 1-1
GOLDEN SHIELD RESOURCES LTD.

MIRADO GOLD MINE
SITE LOCATION PLAN

Table 1Description of the Property

<u>Township</u>	<u>Claim No.</u>	<u>Acres</u>	<u>Type</u>	<u>Status</u>
Catharine	L. 24960	40.00	patented	IGS
	L. 24961	40.00	patented	IGS
	L. 34750	40.00	patented	IGS
	L. 34751	40.00	patented	IGS
McElroy	L. 26272	38.14	patented	IGS
	L. 26273	46.18	patented	IGS
	L. 27303	26.50	patented	IGS
	L. 31238	26.35	patented	IGS
	L. 31257	37.54	patented	IGS
	L. 31749	29.75	patented	IGS
	L. 31377	35.69	patented	IGS
	L. 31378	32.37	patented	IGS
	L. 842560		unpatented	IGS
TOTAL		432.52		

SCOPE OF THE DRILLING PROGRAM**Project Concept**

The main objectives of the work program carried out todate by Golden Shield Resources were as follows:

- 1) Verify the existence of significant gold mineralization and substantiate the 1964 mineral inventory calculation of J. Baker modified by Segsworth (1963), of 400,000 tons grading 0.23 ozs. gold per ton or better.
- 2) Explore and delineate the known gold bearing structures from surface to the 4th level (500 ft. below surface) of the mine workings in order to develop additional tonnage
- 3) Demonstrate the potential of other indicated gold zones on the property.

WORK PROGRAM

Golden Shield commenced workon the property in October, 1985 with a surface diamond drilling program totaling 4,999 ft. The results of this work (summarized in table 2) confirmed the grade and continuity of the gold mineralization and validated the previous reserve estimations.

TABLE 2
1985 EXPLORATION DRILLING RESULTS

Drill Hole	From	To	Result
85-1	170.0	209.0	0.141 / 47.0'
85-5	248.3	281.4	0.242 / 31.7'
	412.7	422.7	0.247 / 10.0'
85-6	140.0	231.0	0.550 / 91.0'
85-9	263.5	329.0	0.210 / 22.5'
		Or	0.120 / 65.5'
85-15	231.5	283.0	0.540 / 50.0'

In light of these positive results an underground exploration program (the subject of this summary report) was deemed to be warranted. The dewatering process commenced in late January 1986 and was completed on March 10th, 1986. The shaft was rehabilitated and a temporary head frame plus a single drum Canadian Ingersoll Rand, SE-2 hoist was installed. The underground workings were inspected and found to be in good repair. Preparations were made for the remainder of the exploration program.

The diamond drilling was carried out on the Mirado Mine property to follow up on the encouraging results obtained in the 1985 drilling program. The purpose of the 1986 drilling programs was to give better definition to and to further explore the D,E,F,G and zones in the south area of the mine. The drilling was carried out from both the surface and underground. The surface drilling of 13,753 feet was undertaken in two phases, one commencing on Jan 15th and the second commencing on July 4th. The underground diamond drilling which was carried out on both the 250 and 500 foot level, commenced April 1, 1987 and terminated (approximately) the end of July.

The first phase of the surface diamond drilling was performed by Heath and Sherwood Drilling of Kirkland Lake while all other drilling on the property was performed by Morrisette Drilling of Hailybury Ontario.

Assaying of diamond drill core was performed largely by Swastika Laboratories and Bell White Laboratories.

Appendix 1 lists the lengths of the holes drilled and the number of assays per hole.

GENERAL PROPERTY GEOLOGY

The Mirado Project area lies within the Abitibi province of the Precambrian Shield. The general geology of the southern portion of McElroy township and northern Catherine township is characterized by a series of mafic to felsic flows. The regional strike of the underlying bedrock is NNW-ESE and dips are generally steep ranging between 75° and 85° to the northeast.

The bedrock geology of the property has been divided by the previous operators into two major units (see Table 3). The contact between these units is generally characterized by interformational sulphide-oxide iron formation which consisting of interbedded lenses of pyrite and magnetite.

The major rock units in the mine area is the Skead Pyroclastic Group. This unit is composed of pyroclastic volcanic rocks consisting intercalated flows of agglomerate, lapilli tuff, tuff and crystal tuff, and rhyolite porphyry. The Skead Pyroclastic Group is the host all the known gold bearing structures on the property.

The overlaying Catherine Group is found in the northern portion of the property. It is composed mainly of intermediate to mafic flows with minor intercalated felsic flows and sediments. Minor intercalated rhyolite flows and sediments are found within the this generally mafic unit. The lower contact of this group is marked by a series of discontinuous lenses of interbedded sulphide and oxide iron formation.

Both rock groups are cut by numerous dikes of feldspar porphyry (+/-) quartz porphyry, syenite and diorite gabbro. Both groups are variably sheared, carbonitized, chloritized and sericitized. The regional metamorphic grade is Greenschist facies; however in the immediate vicinity of the mine area this has been obscured by strong metasomatic (Si,Ca,Mg,Na?,K?) overprinting.

DESCRIPTION OF ROCK UNITS ON THE MIRADO MINE PROPERTY

Andesite: (Rock code 1 on accompanying plans and sections)

This rock unit is medium to dark green in colour and has a fine grained matrix. Chloritic (mafic) phenocrysts are often present with an epidote or silicious alteration halo. The matrix is generally hard, and usually contains 1-3% disseminated pyrite along with the random occurrence of carbonate stringers.

Pyroclastic Conglomerate: (Rock code 2)

This fragmental unit consists of Lapilli to Agglomerate sized, subrounded to subangular chloritic fragments in a light green silicious matrix. The matrix is fairly hard unless sericite is present. Usually 3-5% pyrite is present as disseminated grains and in stringers accompanied by carbonate, quartz and chlorite.

Table 2Table of Formations**QUATERNARY**

Pleistocene - Clay, sand, gravel and muskeg.

PRECAMBRIAN

- syenite, lamprophyre

intrusive contact

- Diorite

intrusive contact

-Timiskaming Group- Greywacke, Arkose, Quartzite, Slate, Conglomerate.

unconformity

- Catherine Group - intermediate to mafic flows, felsic flows, sediments, oxide-sulphide iron formation.

- Skead Group - felsic to intermediate volcanoclastics, felsic to intermediate flows

Felsic Tuff (Rock code 3)

Medium to fine grained light grey silicious rock with occasional 0.1 to 0.3 inch long laths of white to pink feldspar. Pyrite is present as disseminated grains (1% to 3%) with higher concentrations found near the contact with the Pyroclastic Conglomerate. Pyrite up to 50 % in volume is also present as in 1 to 3 inch thick, sometimes gold bearing veins.

Intermediate Tuff: (Rock code 4)

This rock unit is similar to the Felsic tuff except that the matrix is medium grey in colour and may contain slightly more chlorite.

Mafic Tuff: (Rock code 5)

This rock unit is similar to the Intermediate Tuff except that the matrix is dark grey in colour.

Rhyolite & Altered Rhyolite: (Rock code 6)

The rhyolite is a medium to dark grey fine grained hard rock unit. It has a massive appearance with 1-3% disseminated pyrite grains and stringers. Secondary quartz-carbonate stringers are prevalent throughout.

Qtz./Feldspar Porphyry: (Rock code 7)

This unit is similar to and distinguished from the Rhyolite above by the presence of prominent feldspar phenocrysts in a hard light grey/green matrix. It is massive in appearance with 1-3% disseminated pyrite grains and stringers. Secondary quartz-carbonate stringers are prevalent throughout.

Metadiorite: (Rock code 8)

Medium to dark green in colour this variably soft to hard rock has a fine grained matrix and blocky appearing. The grain size grades from fine to coarse toward the centre of the dike. The whole unit is carbonitized and chloritized with feldspar phenocrysts being variably present. Hematite is often present on joint surfaces.

Syenite: (Rock code 10)

This pink rock unit contains 80% feldspar and 5% mafic phenocrysts. There is less than 1% disseminated pyrite and minor carbonate and quartz veins are found throughout.

Lamprophyre/Amphibolite Dike: (Rock code 11)

The chloritic phenocrysts in this unit appear to be biotite however on close examination they resemble amphibole. The over all appearance of the rock is dark in colour and it has a coarse grained matrix. It is strongly carbonitized.

DESCRIPTION OF THE GOLD MINERALIZATION

The 'south area' of the mine is located about 1200 feet south of the shaft, and has been the focus of most exploration activity during the past 30 years. The host rocks are comprised essentially of felsic to intermediate tuffs, lapilli tuffs and agglomerate (mine term pyroclastic conglomerate) plus intercalated intermediate flows. They have been intruded by diorite, syenite and lamprophyre dikes plus a rhyolite feldspar +/- quartz porphyry intrusion that apexes at about the 250 foot level in the mine.

All rocks have been variably silicified, chloritized, carbonitized and sericitized. Mineralization consists of disseminations and irregular discontinuous veinlets (no preferred orientation) of pyrite with minor chalcopyrite and medium to coarse visible gold.

Four separate zones (D,E,G,F) of gold mineralization have been outlined in the south area of the mine.

The D-Zone is a irregular in shape. The host pyroclastic conglomerate (agglomerate) and lapilli tuff have been moderately to highly chloritized and silicified. The distribution of gold mineralization in this zone appears, in part, to be spatially related to the contact between the rhyolite-feldspar porphyry and the enclosing pyroclastics and, is directly proportional to the amount of disseminated and discontinuous stringer-type pyrite. The limits of the D zone are thought to be a function of the porosity and permeability of the host rock since the intensity of pyrite and gold mineralization diminishes rapidly in the more massive rhyolite porphyry.

The E-Zone lies approximately 150 feet south of the D-Zone. It trends at about 070° and dips 60° to the northeast. This zone has been traced over a strike length of about 400 feet and down dip from about the 125 foot level to the 500 foot level. The E-Zone consists of a carbonate-quartz-sulphide (pyrite, chalcopyrite, sphalerite) vein from 1" to 6" thick flanked by highly irregular areas of disseminated pyrite in the wall rock. The vein grades up to 2.00 ounces of gold per ton (averaging 0.55 ounce of gold per ton over a 5.0 foot width from 1963 back sampling data) while the wall rocks generally assay less than 0.05 ounce of gold per ton.


The G and F-Zones are both lithologically and mineralogically very similar. Both are generally north trending, steep easterly dipping, 1" to 3" thick pyrite vein complexes, having drill indicated strike lengths of 250 and 600 feet respectively. They are composed of moderately to highly altered (silicified, carbonitized, chloritized, sericitized) felsic to intermediate tuffs, lapilli tuffs and agglomerate containing disseminated and stringer type pyrite plus visible gold. Contacts between these veins and the surrounding rocks are sharp. The G-Zone vein complex aggregate width ranges up to 25 feet while the F-Zone is up to 80 feet wide. Gold values are not persistent across the entire width of these alteration zones.

DECLARATION

I, Bryan Hugh Wilson, of 33 Knotty Pine Trail, Thornhill, Ontario, do hereby declare that;

- 1) I am a graduate of the University of Waterloo and hold a degree of Bachelor of Science with a Major in Earth Science,
- 2) I have practiced as a geologist full time for 12 years since graduation,
- 3) The work performed and described herein was performed by geologists Danjo McCormack, Robert Dues, employed by Bryan Wilson & Associates Ltd. under the supervision Donald Hawke an associate of the firm, during the period January 15, 1986 to December 20, 1986.

MAY 30, 1987


.....
BRYAN WILSON

APPENDIX 1:

LISTING OF DIAMOND DRILL HOLES GIVING:

- 1) DEPTH OF HOLES AND,**
- 2) THE NUMBER OF ASSAYS.**

SURFACE DRILLING

HOLE NUMBER (PREFACED 86-)	FOOTAGE	NUMBER OF ASSAYS
1	350	29
2	307	27
3	157	30
4	257	27
5	327	40
6	250	20
7	477	44
8	257	18
9	257	20
10	257	36
11	427	66
12	207	31
13	300	29
14	257	27
15	200	24
16	134	21
17	137	31
18	137	25
19	227	47
20	297	58
21	217	26
22	227	31
23	302	44
24	247	44
25	187	29
26	217	38
27	377	50
28	257	10
29	303	35
30	394	57
31	407	
32	150	40
33	140	20
34	150	29
35	150	38
36	150	28
37	152	26
38	547	56
39	450	18
40	450	58
41	500	52
42	467	45
43	467	47
44	486	22
45	477	22

SURFACE DRILLING

HOLE NUMBER (PREFACED 86-)	FOOTAGE	NUMBER OF ASSAYS
46	507	31
47	500	21
48	301	10
49	307	43
50	301	64
51	501	53
52	477	7
53	507	39
54	501	56
55	601	24
56	157	35
57	167	22
58	147	24
59	147	19
60	147	22
61	107	12
62	157	41
63	137	
64	167	15
65	127	18
66	150	39
67	117	19
68	127	15
69	156	20
70	155	6
71	156	2
72	156	17
73	155	10
74	145	18
75	106	14
76	156	
77	155	5
78	156	8
79	186	19
80	155	16
81	156	13
82	156	13
83	156	
84	136	
85	156	
86	156	2

TOTAL SURFACE 13753 1548

TOTAL FOOTAGE 23640

TOTAL ASSAYS 2683

UNDERGROUND DRILLING

HOLE NUMBER (PREFACED U86- & 500-)	FOOTAGE	NUMBER OF ASSAYS
1	176	26
2	170	27
3	153	26
4	169	25
5	164	24
6	153	28
7	198	36
8	102	17
9	102	15
10	50	14
11	49	11
12	102	4
13	151	20
14	145	24
15	155	24
16	148	29
17	153	25
18	160	22
19	161	33
20	159	29
21	89	21
22	169	33
23	205	29
24	31	6
25	243	47
26	242	36
27	241	34
28	209	36
29	278	46
30	265	48
31	104	14
32	108	9
33	115	5
34	145	15
35	99	10
36	102	
37	96	
38	157	21
39	152	18
40	150	24
41	109	12
42	99	16
43	98	20
500-1	314	17
500-2	456	14

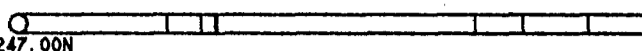
UNDERGROUND DRILLING

HOLE NUMBER (PREFACED U86- & 500-)	FOOTAGE	NUMBER OF ASSAYS
500-3	360	13
500-4	254	13
500-5	252	6
500-6	250	15
500-7	417	14
500-8	350	51
500-9	202	13
500-10	202	20
500-11	504	

TOTAL U.G.	9887	1135
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2U8601

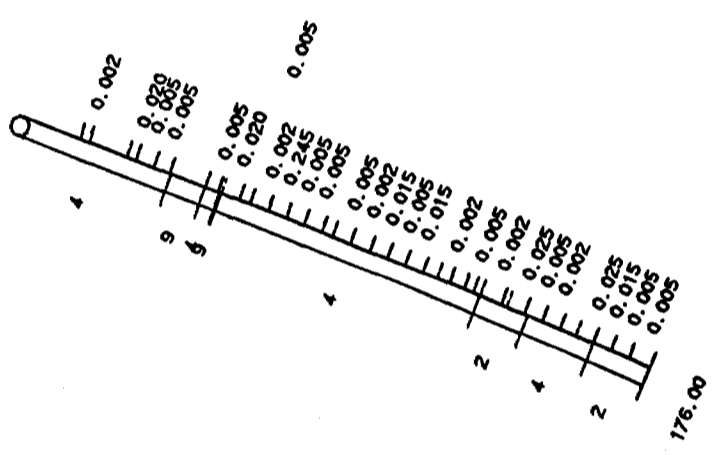
1247.00N
3614.00E



PLAN VIEW

4900
4800
4700
4600
4500
4400

4900
4800
4700
4600



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 2U8601	
E 3614	AZIMUTH 235
N 1247	DIP -20
Scale 1" = 50'	

Golden Shield Resources Ltd.

HOLE NO.: 2U8601

Page: 1

Coords: 1247.0N 3614.0E

Azimuth: 235.0

Mirado Project

Dip: -20.0

Elevation: 4761.0

Length: 176.0

Dip Tests

176.00 235.0 -23.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	41.5	INTERMEDIATE TUFF (4)	601	16.0	18.5	2.5	0.002	n/a
			602	29.0	31.5	2.5	0.020	n/a
			603	31.5	36.5	5.0	0.005	n/a
			604	36.5	41.0	4.5	0.005	n/a
41.5	51.0	CHLORIC DYKE (9)						
51.0	55.0	INTERMEDIATE TUFF (4)	605	51.0	54.5	3.5	0.005	n/a
55.0	55.5	CHLORIC DYKE (9)						
55.5	128.0	INTERMEDIATE TUFF (4)	606	55.5	60.5	5.0	0.020	n/a
			607	60.5	63.5	3.0	0.005	n/a
			608	63.5	68.5	5.0	0.002	n/a
			609	68.5	73.5	5.0	0.245	n/a
			610	73.5	78.5	5.0	0.005	n/a

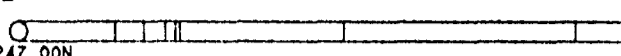
Golden Shield Resources Ltd.

Page: 2

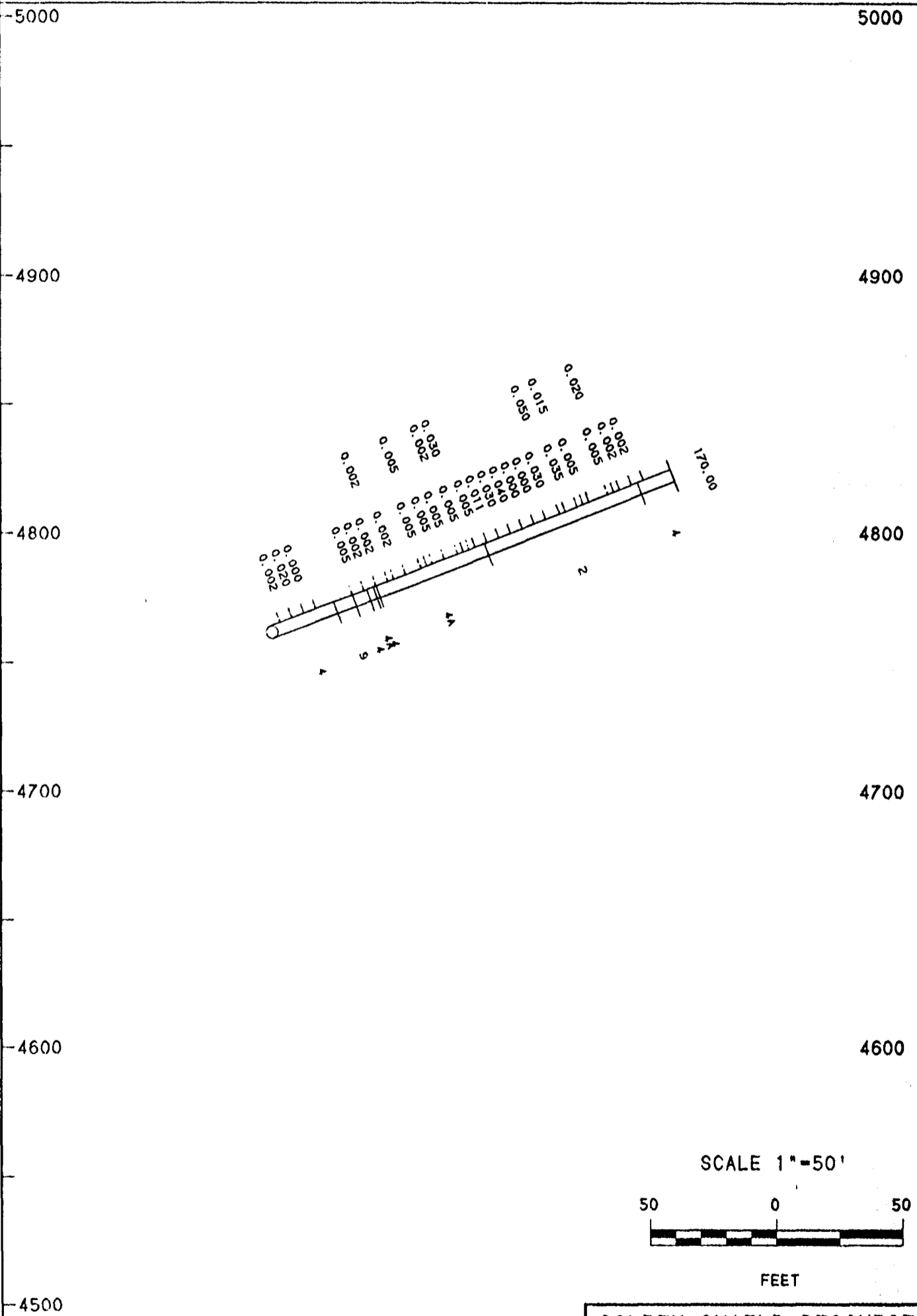
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			611	78.5	83.5	5.0	0.005	n/a
			612	86.5	91.5	5.0	0.005	n/a
			613	91.5	97.0	5.5	0.002	n/a
			614	97.0	102.0	5.0	0.015	n/a
			615	102.0	107.0	5.0	0.005	n/a
			616	107.0	112.0	5.0	0.015	n/a
			617	116.0	119.5	3.5	0.002	n/a
			618	123.5	126.0	2.5	0.005	n/a
128.0	141.5	PYROCLASTIC CONGLOMERATE (2)						
			619	128.0	134.0	6.0	0.002	n/a
			620	135.5	140.5	5.0	0.025	n/a
			621	140.5	145.5	5.0	0.005	n/a
141.5	160.0	INTERMEDIATE TUFF (4)						
			622	145.5	150.5	5.0	0.002	n/a
			623	155.0	160.0	5.0	0.025	n/a
160.0	176.0	PYROCLASTIC CONGLOMERATE (2)						
			624	160.0	165.0	5.0	0.015	n/a
			625	165.0	170.0	5.0	0.005	n/a
			626	170.0	176.0	6.0	0.005	n/a

U862

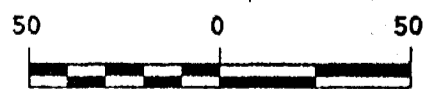
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3614.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE U862	
E 3614 N 1247	AZIMUTH 240 DIP 20
Scale 1" = 50'	

Coords: 1247.0N 3614.0E

HOLE NO.: U862

Azimuth: 240.0

Mirado Project

Dip: 20.0

Elevation: 4761.0

Length: 170.0

Rip Tests

170.00 240.0 22.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	27.0	INTERMEDIATE TUFF (4)	627	4.2	9.2	5.0	0.002	n/a
			628	9.5	14.5	5.0	0.020	n/a
			629	14.5	19.5	5.0	0.000	n/a
27.0	35.0	CHLORIC DYKE (9)						
35.0	41.0	INTERMEDIATE TUFF (4)	630	35.0	40.0	5.0	0.005	n/a
			631	40.0	45.0	5.0	0.002	n/a
41.0	43.8	INTERMEDIATE TUFF +/- LAPILLI (4A)						
43.8	45.0	INTERMEDIATE TUFF (4)						
45.0	91.0	INTERMEDIATE TUFF +/- LAPILLI (4A)	632	45.0	50.0	5.0	0.002	n/a
			633	50.0	52.5	2.5	0.002	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	-----Description-----	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			634	52.5	57.5	5.0	0.002	n/a
			635	64.0	66.5	2.5	0.005	n/a
			636	66.5	69.0	2.5	0.005	n/a
			637	69.0	74.0	5.0	0.005	n/a
			638	74.0	79.7	5.7	0.005	n/a
			639	79.7	82.0	2.3	0.002	n/a
			640	82.0	84.5	2.5	0.005	n/a
			641	84.5	87.0	2.5	0.030	n/a
			642	87.0	92.0	5.0	0.005	n/a
91.0	156.0	PYROCLASTIC CONGLOMERATE (2)						
			643	92.0	97.0	5.0	0.010	n/a
			644	97.0	102.0	5.0	0.030	n/a
			645	102.0	107.0	5.0	0.040	n/a
			646A	107.0	112.0	5.0	0.000	n/a
			646B	112.0	117.0	5.0	0.000	n/a
			647	117.0	123.0	6.0	0.030	n/a
			648	123.0	125.5	2.5	0.050	n/a
			649	125.5	130.5	5.0	0.035	n/a
			650	130.5	133.0	2.5	0.015	n/a
			651	133.0	135.5	2.5	0.005	n/a
			652	143.5	146.0	2.5	0.005	n/a
			653	146.0	148.5	2.5	0.020	n/a
			654	148.5	153.5	5.0	0.002	n/a
			655	153.5	158.5	5.0	0.002	n/a
156.0	170.0	INTERMEDIATE TUFF (4)						

5000
4900
4800
4700
4600
4500
4400

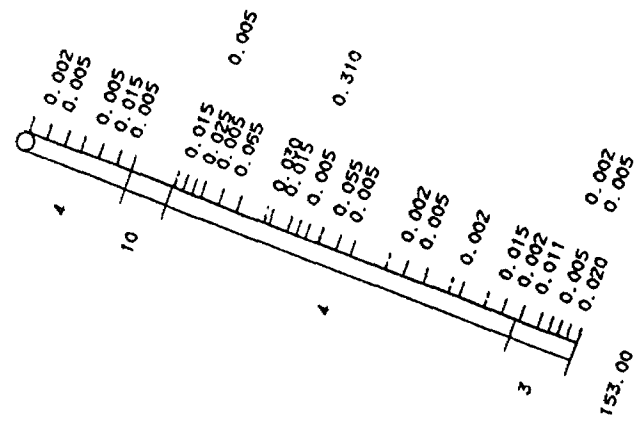
U863

1242.00N
3619.00E

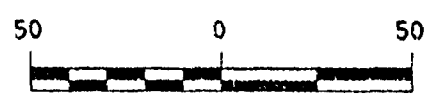
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PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE U863	
E 3619 N 1242	AZIMUTH 180 DIP -20
Scale 1" = 50'	

Golden Shield Resources Ltd.

HOLE NO.: U863

Page: 1

Coords: 1242.0N 3619.0E

Azimuth: 180.0

Mirado Project

Dip: -20.0

Elevation: 4761.0

Length: 153.0

Dip Tests

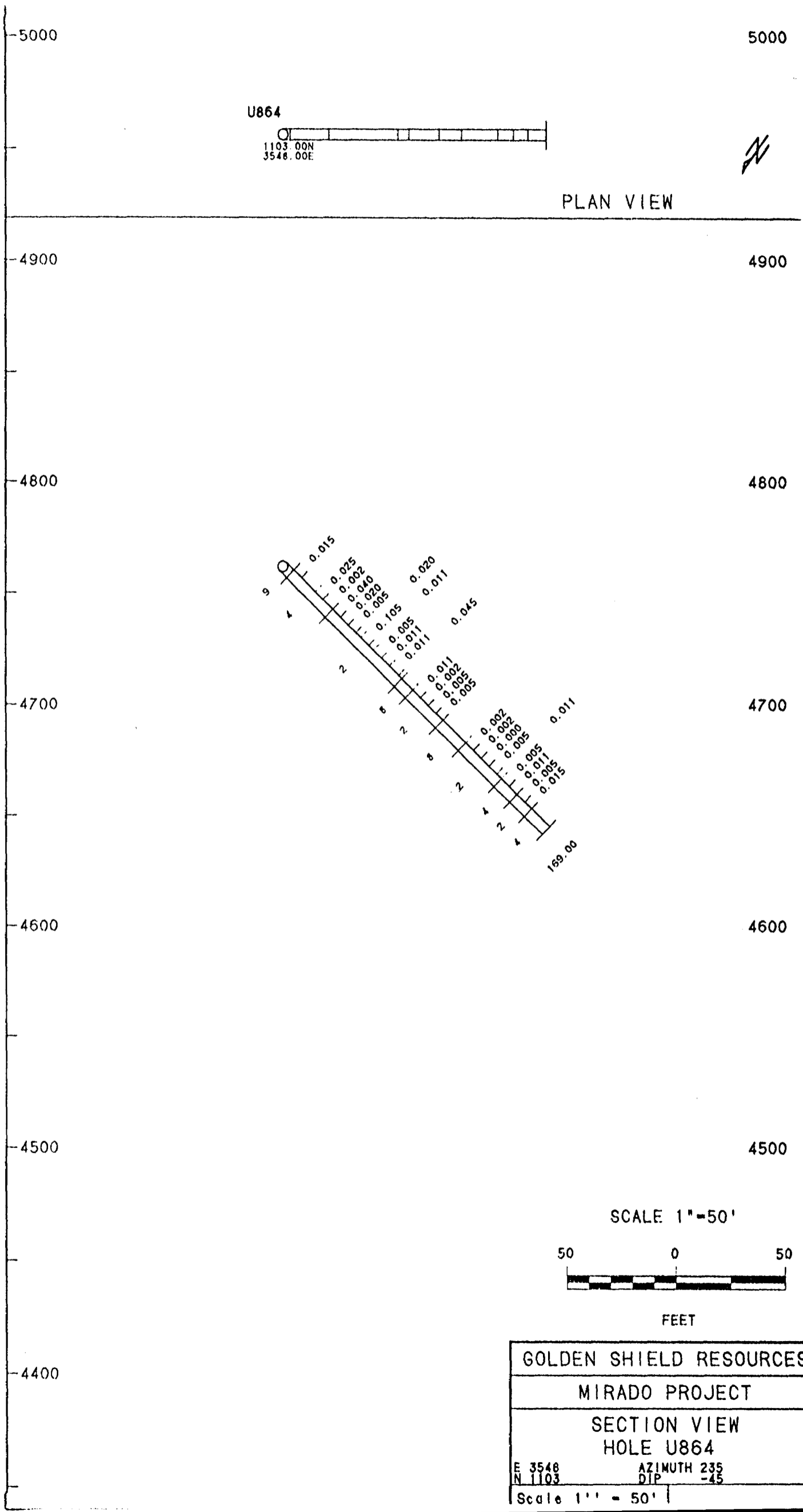
153.00 180.0 -21.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	28.5	INTERMEDIATE TUFF (4)	656	0.0	5.0	5.0	0.002	n/a
			657	5.0	10.0	5.0	0.005	n/a
			658	14.5	19.5	5.0	0.005	n/a
			659	19.5	24.5	5.0	0.015	n/a
			660	24.5	28.5	4.0	0.005	n/a
28.5	40.0	SYENITE (10)						
40.0	136.0	INTERMEDIATE TUFF (4)	661	40.5	43.0	2.5	0.015	n/a
			662	43.0	45.5	2.5	0.005	n/a
			663	45.5	48.0	2.5	0.025	n/a
			664	48.0	53.0	5.0	0.005	n/a
			665	53.0	58.0	5.0	0.065	n/a
			666	65.5	67.0	1.5	0.030	n/a
			21623	67.0	72.0	5.0	0.015	n/a
			667	72.0	74.5	2.5	0.310	n/a
			668	74.5	77.0	2.5	0.005	n/a
			669	80.7	85.7	5.0	0.055	n/a
			670	85.7	89.7	4.0	0.005	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			671	99.5	104.5	5.0	0.002	n/a
			672	104.5	110.0	5.5	0.005	n/a
			673	117.0	120.0	3.0	0.002	n/a
			674	127.0	132.0	5.0	0.015	n/a
			675	132.0	137.0	5.0	0.002	n/a
136.0	153.0	FELSIC TUFF (3)	676	137.0	142.0	5.0	0.010	n/a
			677	142.0	145.0	3.0	0.002	n/a
			678	145.0	147.5	2.5	0.005	n/a
			679	147.5	150.0	2.5	0.005	n/a
			680	150.0	153.0	3.0	0.020	n/a



U864

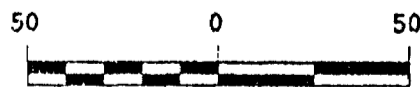
1103.00N
3548.00E

PLAN VIEW

5000
4900
4800
4700
4600
4500
4400

5000
4900
4800
4700
4600
4500

SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE U864	
E 3548	AZIMUTH 235
N 1103	DIP -45
Scale 1" = 50'	

Coords: 1103.0N 3548.0E

Golden Shield Resources Ltd.

HOLE NO.: US64

Page: 1

Azimuth: 235.0

Mirado Project

Dip: -45.0

Elevation: 4761.0

Length: 169.0

Dip Tests

169.00 235.0 -44.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	4.5	CHLORIC DYKE (9)						
4.5	29.6	INTERMEDIATE TUFF (4)						
			681	4.5	9.5	5.0	0.015	n/a
			682	18.3	23.3	5.0	0.025	n/a
			683	23.3	29.6	6.3	0.002	n/a
29.6	74.0	PYROCLASTIC CONGLOMERATE (2)						
			684	29.6	34.6	5.0	0.040	n/a
			685	34.6	39.6	5.0	0.020	n/a
			686	39.6	44.6	5.0	0.005	n/a
			687	44.6	47.6	3.0	0.020	n/a
			688	47.6	52.8	5.2	0.105	n/a
			689	52.8	55.8	3.0	0.010	n/a
			690	55.8	61.0	5.2	0.005	n/a
			691	61.0	66.0	5.0	0.010	n/a
			692	66.0	72.0	6.0	0.010	n/a
			693	72.0	74.0	2.0	0.045	n/a
74.0	81.0	METADIORITE (8)						

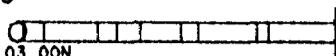
Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
81.0	100.5	PYROCLASTIC CONGLOMERATE (2)	694	81.0	86.0	5.0	0.010	n/a
			695	86.0	91.0	5.0	0.002	n/a
			696	91.0	96.0	5.0	0.005	n/a
			697	96.0	100.5	4.5	0.005	n/a
100.5	115.0	METADIORITE (8)						
115.0	138.0	PYROCLASTIC CONGLOMERATE (2)	698	115.0	120.0	5.0	0.002	n/a
			699	120.0	125.0	5.0	0.002	n/a
			500	125.0	130.0	5.0	0.000	n/a
			501	130.0	135.0	5.0	0.005	n/a
			502	135.0	138.0	3.0	0.010	n/a
138.0	148.0	INTERMEDIATE TUFF (4)	503	138.0	143.0	5.0	0.005	n/a
			504	143.0	148.0	5.0	0.010	n/a
148.0	157.4	PYROCLASTIC CONGLOMERATE (2)	505	148.0	153.0	5.0	0.005	n/a
			506	153.0	157.4	4.4	0.015	n/a
157.4	169.0	INTERMEDIATE TUFF (4)						

U865

1103.00N
3548.00E



PLAN VIEW

4900

4900

4800

4800

4700

4700

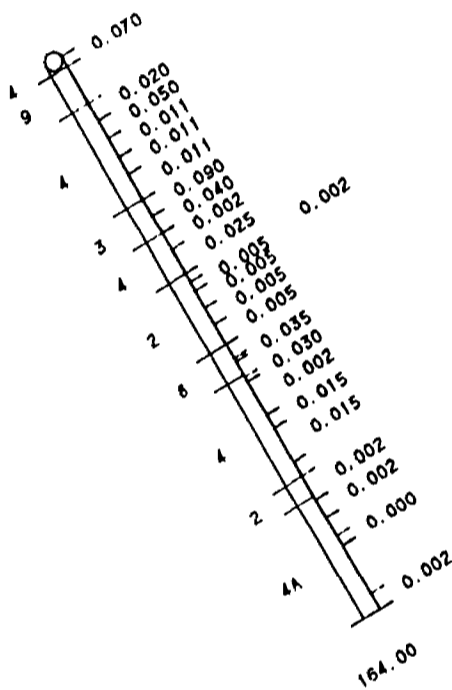
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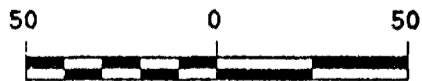
4500

4500

4400



SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW

HOLE U865

E 3548

AZIMUTH 240

N 1103

DIP -60

Scale 1" = 50'

Golden Shield Resources Ltd.

HOLE NO.: U865

Page: 1

Coords: 1103.0N 3548.0E

Azimuth: 240.0

Mirado Project

Dip: -60.0

Elevation: 4761.0

Length: 164.0

Dip Tests

164.00 240.0 -59.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	3.0	INTERMEDIATE TUFF (4)	507	0.0	3.0	3.0	0.070	n/a
3.0	13.8	CHLORIC DYKE (9)						
13.8	42.0	INTERMEDIATE TUFF (4)	508	13.8	18.8	5.0	0.020	n/a
			509	18.8	24.0	5.2	0.050	n/a
			510	24.0	29.5	5.5	0.010	n/a
			511	29.5	34.5	5.0	0.010	n/a
			512	34.5	42.0	7.5	0.010	n/a
42.0	52.0	FELSIC TUFF (3)	513	42.0	47.0	5.0	0.090	n/a
			514	47.0	52.0	5.0	0.040	n/a
52.0	64.0	INTERMEDIATE TUFF (4)	515	52.0	57.0	5.0	0.002	n/a
			516	57.0	64.0	7.0	0.025	n/a

Golden Shield Resources Ltd.

Page: 2

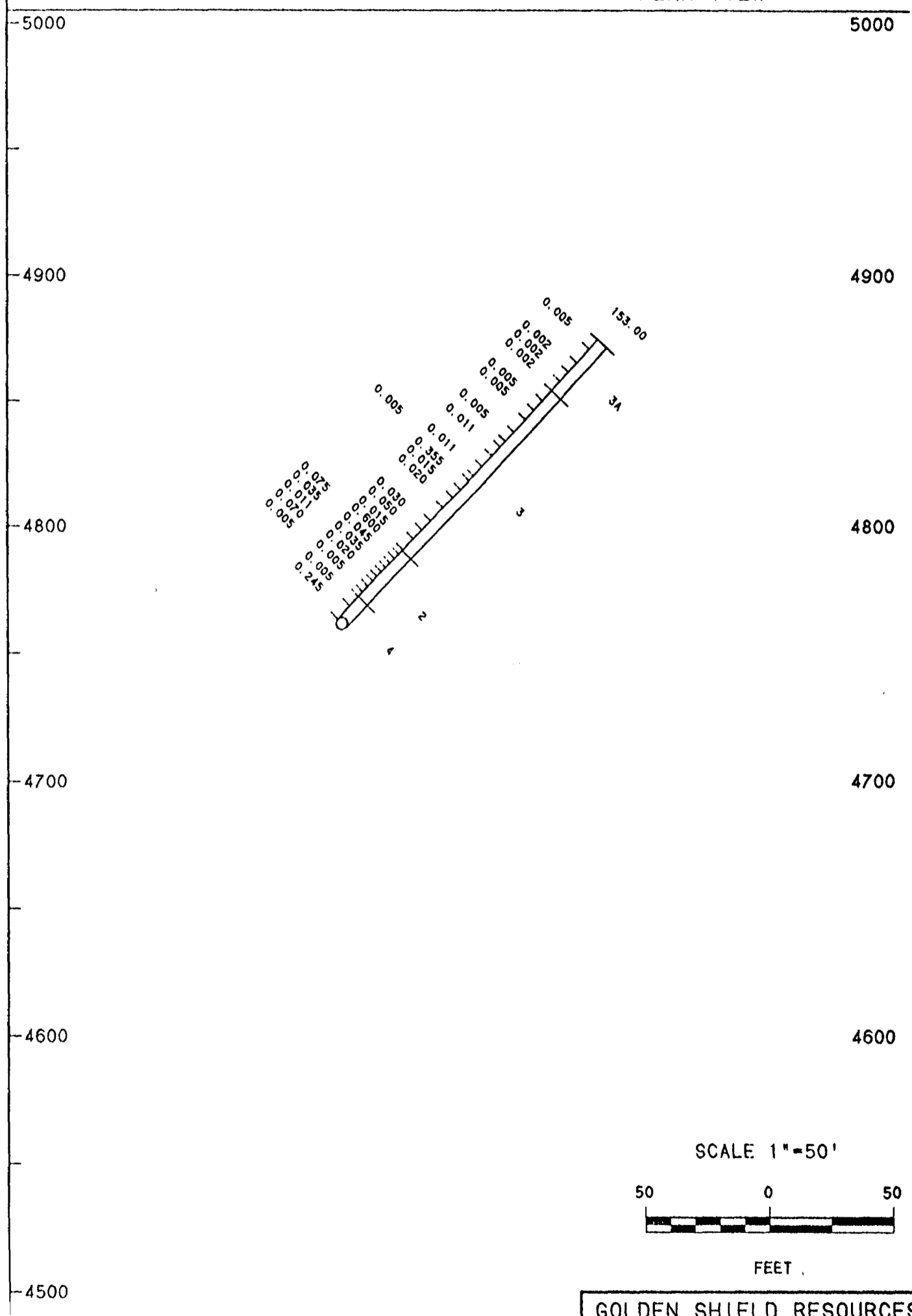
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
64.0	85.0	PYROCLASTIC CONGLOMERATE (2)	517	64.0	66.5	2.5	0.002	n/a
			518	66.5	69.0	2.5	0.005	n/a
			519	69.0	74.0	5.0	0.005	n/a
			520	74.0	79.0	5.0	0.005	n/a
			521	79.0	85.0	6.0	0.005	n/a
85.0	94.0	METADIORITE (8)	522	89.0	90.0	1.0	0.035	n/a
94.0	124.0	INTERMEDIATE TUFF (4)	523	94.5	96.0	1.5	0.030	n/a
			524	96.0	106.0	10.0	0.002	n/a
			525	106.0	110.0	4.0	0.015	n/a
			526	110.0	120.0	10.0	0.015	n/a
124.0	130.0	PYROCLASTIC CONGLOMERATE (2)	527	124.0	131.0	7.0	0.002	n/a
130.0	164.0	INTERMEDIATE TUFF +/- LAPILLI (4A)	528	131.0	136.5	5.5	0.002	n/a
			529	142.0	145.0	3.0	0.000	n/a
			530	159.2	164.0	4.8	0.002	n/a

U866

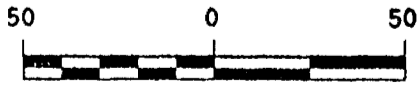
1107.00N
3556.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE U866	
E 3556	AZIMUTH 62
N 1107	DIP 45
Scale 1" = 50'	

Golden Shield Resources Ltd.

HOLE NO.: U866

Page: 1

Coords: 1107.0N 3556.0E

Azimuth: 62.0

Mirado Project

Dip: 45.0

Elevation: 4761.0

Length: 153.0

Dip Tests

153.00 62.0 48.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	12.2	INTERMEDIATE TUFF (4)						
			531	0.0	7.0	7.0	0.245	n/a
			532	7.0	12.0	5.0	0.005	n/a
			533	12.0	14.5	2.5	0.005	n/a
12.2	37.5	PYROCLASTIC CONGLOMERATE (2)						
			534	14.5	17.5	3.0	0.005	n/a
			535	17.5	20.5	3.0	0.070	n/a
			536	20.5	23.0	2.5	0.020	n/a
			537	23.0	25.5	2.5	0.010	n/a
			538	25.5	28.0	2.5	0.035	n/a
			539	28.0	30.5	2.5	0.035	n/a
			540	30.5	33.0	2.5	0.045	n/a
			541	33.0	35.5	2.5	0.075	n/a
			542	35.5	38.0	2.5	0.600	n/a
37.5	125.5	FELSIC TUFF (3)						
			543	38.0	44.0	6.0	0.015	n/a
			544	44.0	49.0	5.0	0.050	n/a
			545	49.0	54.0	5.0	0.030	n/a
			546	61.3	67.0	5.7	0.020	n/a

Golden Shield Resources Ltd.

Page: 2

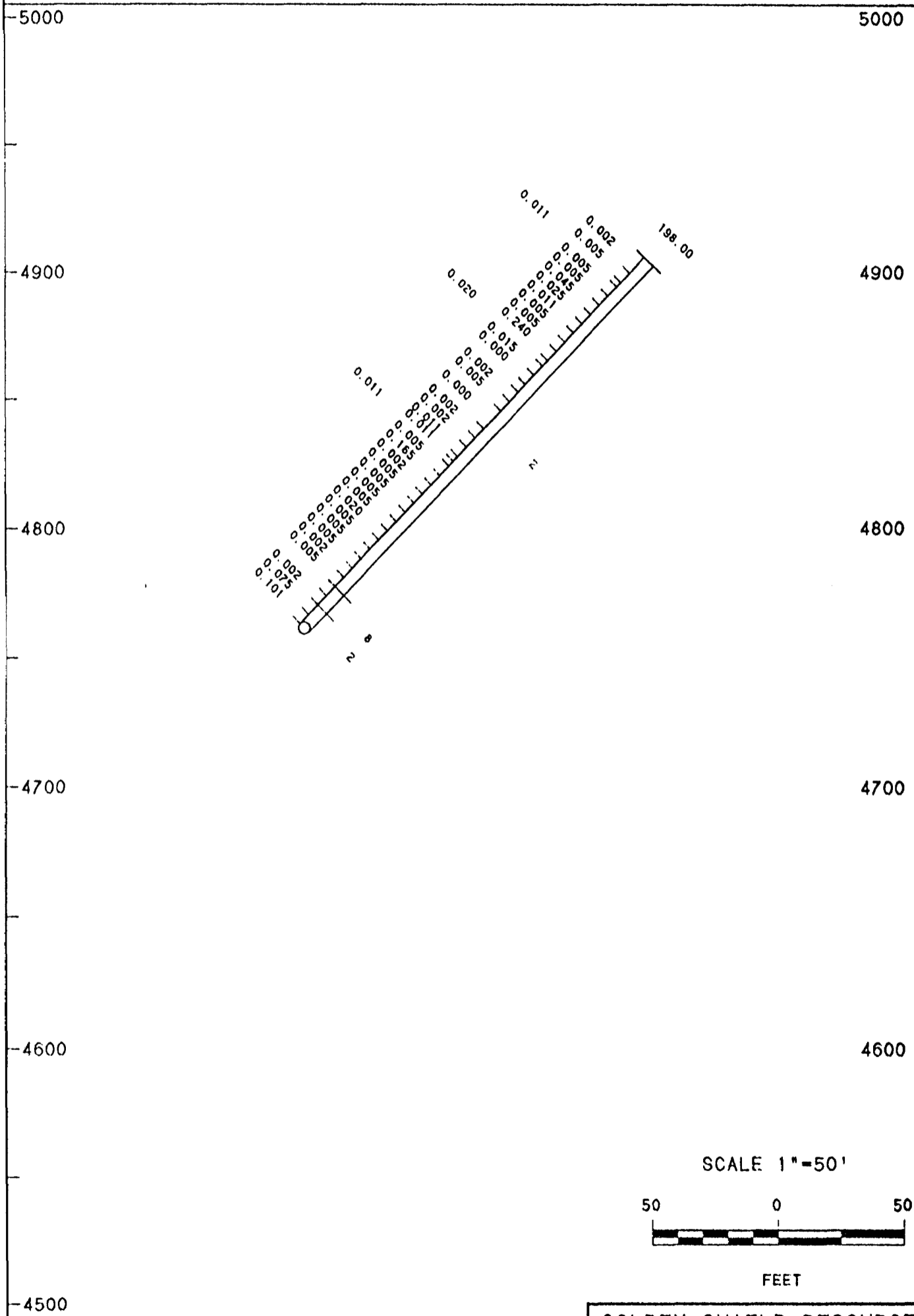
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			21424	67.0	71.5	4.5	0.015	n/a
			547	71.5	76.5	5.0	0.355	n/a
			548	76.5	79.0	2.5	0.005	n/a
			549	79.0	84.0	5.0	0.010	n/a
			550	90.0	95.0	5.0	0.010	n/a
			551	98.0	103.0	5.0	0.005	n/a
			552	110.0	115.0	5.0	0.005	n/a
			553	115.0	120.0	5.0	0.005	n/a
125.5	153.0	FELSIC TUFF +/- LAPILLI (3A)						
			554	125.5	130.5	5.0	0.002	n/a
			555	130.5	135.5	5.0	0.002	n/a
			556	135.5	140.5	5.0	0.002	n/a
			557	148.0	153.0	5.0	0.005	n/a

U867

1102.00N
3549.00E



PLAN VIEW



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE U867	
E 3549	AZIMUTH 195
N 1102	DIP 45
Scale 1" = 50'	

Coords: 1102.0N 3549.0E

Azimuth: 195.0

Mirado Project

Dip: 45.0

Elevation: 4761.0

Length: 198.0

Dip Tests

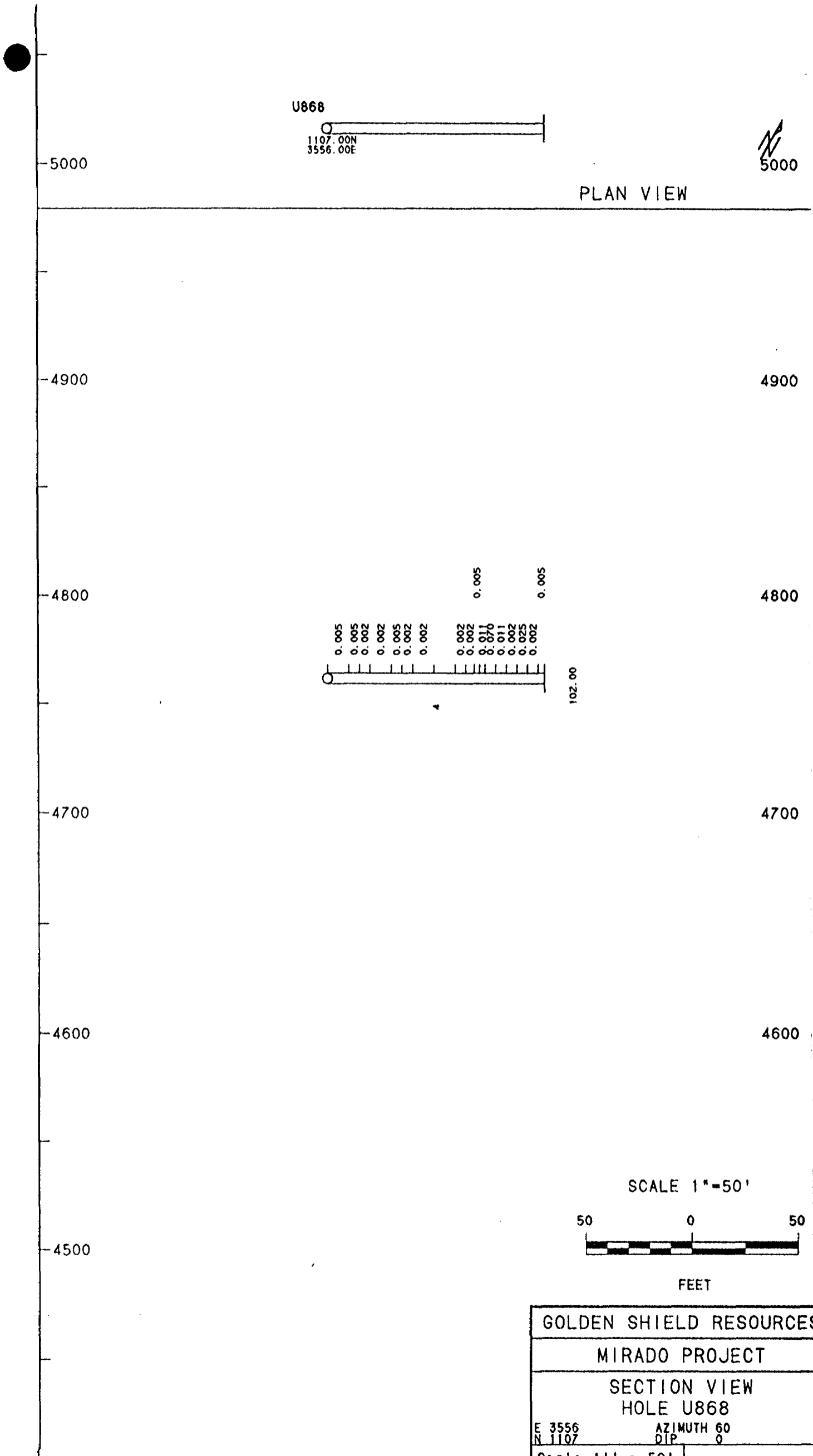
198.00 195.0 47.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	10.2	PYROCLASTIC CONGLOMERATE (2)	558	0.0	5.0	5.0	0.100	n/a
			559	5.0	10.2	5.2	0.075	n/a
10.2	20.0	METADIORITE (8)	560	10.2	15.0	4.8	0.002	n/a
20.0	198.0	PYROCLASTIC CONGLOMERATE (2)	561	20.0	25.0	5.0	0.005	n/a
			562	25.0	30.0	5.0	0.002	n/a
			563	30.0	35.0	5.0	0.005	n/a
			564	35.0	40.0	5.0	0.005	n/a
			565	40.0	45.0	5.0	0.005	n/a
			566	45.0	50.0	5.0	0.020	n/a
			567	50.0	55.0	5.0	0.005	n/a
			568	55.0	60.0	5.0	0.005	n/a
			569	60.0	65.0	5.0	0.005	n/a
			570	65.0	70.0	5.0	0.005	n/a
			571	70.0	75.0	5.0	0.002	n/a
			572	75.0	80.0	5.0	0.185	n/a
			573	80.0	85.0	5.0	0.005	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			574	85.0	87.5	2.5	0.010	n/a
			575	87.5	90.0	2.5	0.010	n/a
			576	90.0	95.0	5.0	0.010	n/a
			577	95.0	100.0	5.0	0.002	n/a
			578	100.0	105.0	5.0	0.002	n/a
			579	105.0	115.0	10.0	0.000	n/a
			580	115.0	120.0	5.0	0.005	n/a
			581	120.0	125.0	5.0	0.002	n/a
			582	129.0	134.0	5.0	0.000	n/a
			583	134.0	139.0	5.0	0.015	n/a
			584	139.0	142.0	3.0	0.020	n/a
			585	142.0	147.0	5.0	0.240	n/a
			586	147.0	152.0	5.0	0.005	n/a
			587	152.0	157.0	5.0	0.005	n/a
			588	157.0	162.0	5.0	0.010	n/a
			589	162.0	167.0	5.0	0.025	n/a
			590	167.0	172.0	5.0	0.045	n/a
			591	172.0	177.0	5.0	0.005	n/a
			592	177.0	182.0	5.0	0.005	n/a
			593	182.0	184.5	2.5	0.010	n/a
			594	184.5	189.5	5.0	0.005	n/a
			595	189.5	198.0	8.5	0.002	n/a



U868

1107.00N
3556.00E



5000

PLAN VIEW

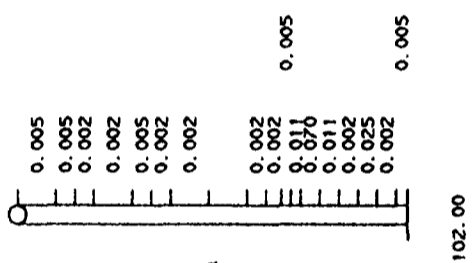
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4900

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4700

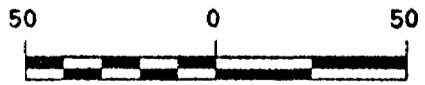
4700

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SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE U868	
E 3556	AZIMUTH 60
N 1107	DIP 0
Scale 1" = 50'	

Coords: 1107.0N 3556.0E

Azimuth: 60.0

Mirado Project

Dip: 0.0

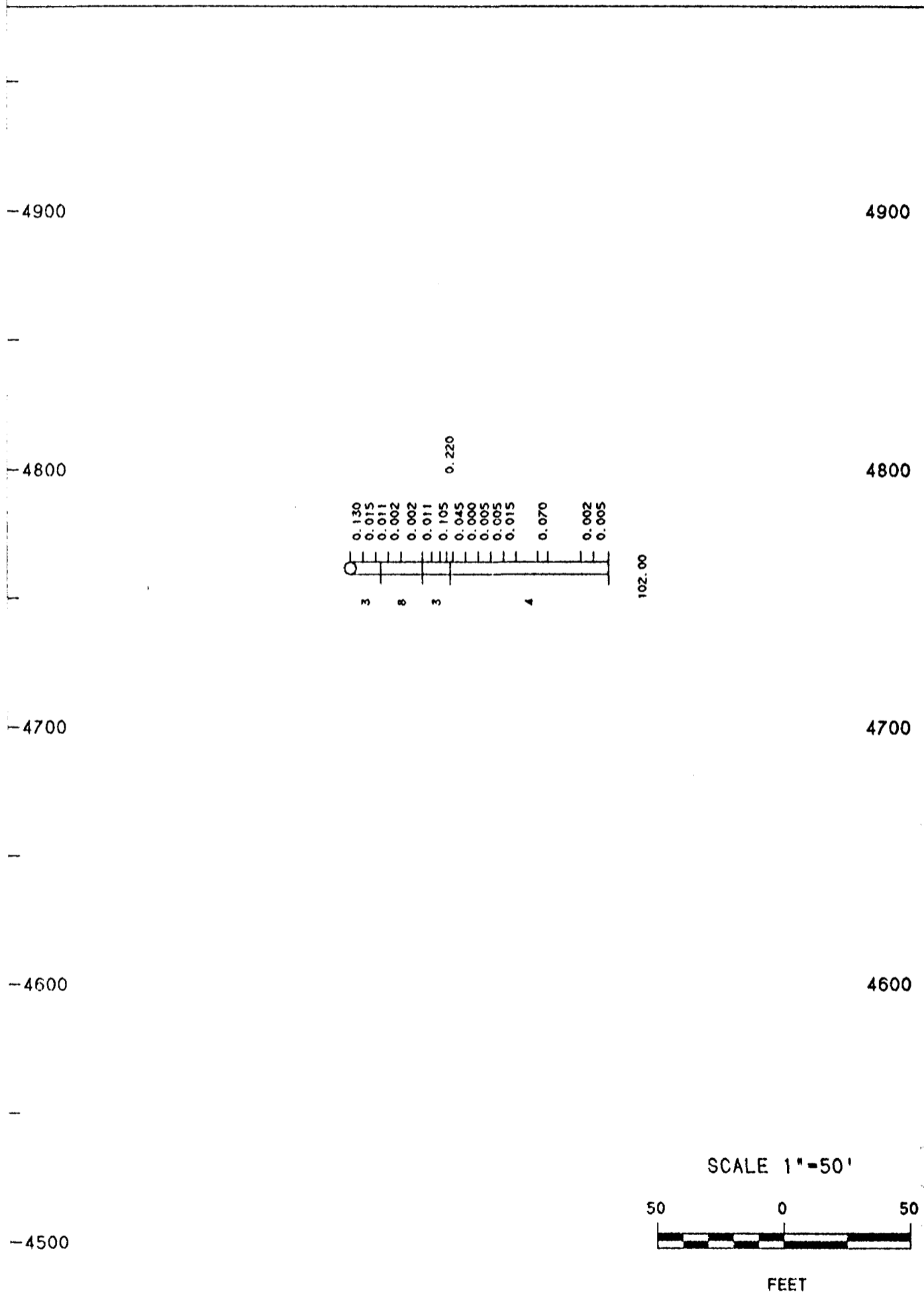
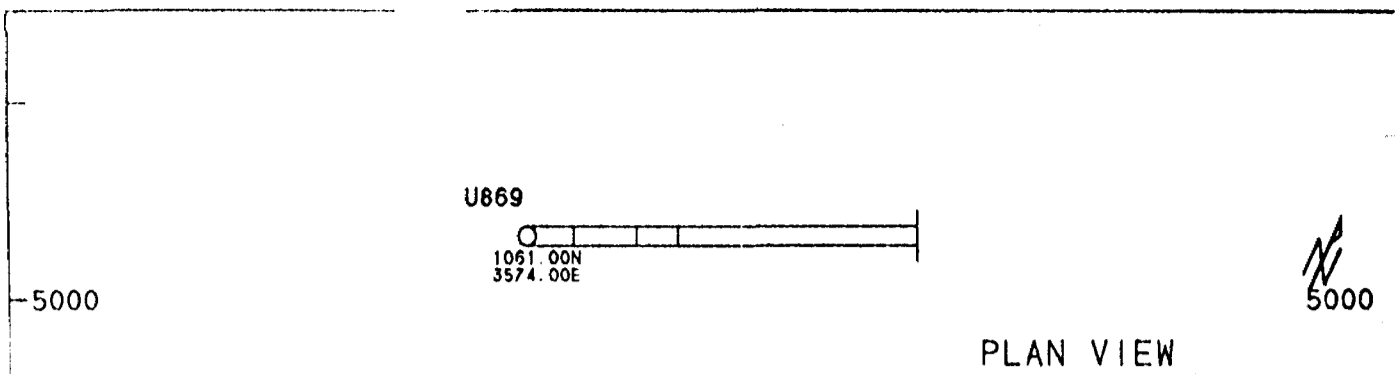
Elevation: 4761.0

Length: 102.0

Dip Tests

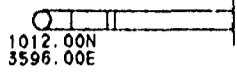
102.00 60.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	102.0	INTERMEDIATE TUFF (4)						
			596	0.0	10.0	10.0	0.005	n/a
			597	10.0	15.0	5.0	0.005	n/a
			598	15.0	20.0	5.0	0.002	n/a
			599	20.0	30.0	10.0	0.002	n/a
			600	30.0	35.0	5.0	0.005	n/a
			3501	35.0	40.0	5.0	0.002	n/a
			3502	40.0	50.0	10.0	0.002	n/a
			3503	60.0	65.0	5.0	0.002	n/a
			3504	65.0	69.0	4.0	0.002	n/a
			3505	69.0	71.5	2.5	0.005	n/a
			3506	71.5	74.0	2.5	0.010	n/a
			3507	74.0	79.0	5.0	0.070	n/a
			3508	79.0	84.0	5.0	0.010	n/a
			3509	84.0	89.0	5.0	0.002	n/a
			3510	89.0	94.0	5.0	0.025	n/a
			3511	94.0	99.0	5.0	0.002	n/a
			3512	99.0	102.0	3.0	0.005	n/a



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE U869	
E 3574 N 1061	AZIMUTH 65 DIP 0
Scale 1" = 50'	

U8610



5000

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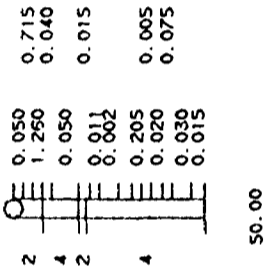
PLAN VIEW

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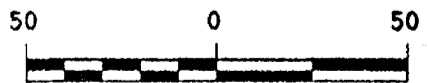
4700

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SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE U8610

E 3596
N 1012

AZIMUTH 60
DIP 0

Scale 1" = 50'

Coords: 1012.0N 3596.0E

HOLE NO.: U8610

Azimuth: 60.0

Mirado Project

Dip: 0.0

Elevation: 4761.0

Lensth: 50.0

Dip Tests

50.00 60.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	lensth (ft)	Au oz	Check oz
0.0	7.5	PYROCLASTIC CONGLOMERATE (2)	3529	0.0	2.5	2.5	0.050	n/a
			3530	2.5	5.0	2.5	0.715	n/a
			3531	5.0	7.5	2.5	1.260	n/a
7.5	17.0	INTERMEDIATE TUFF (4)	3532	7.5	10.0	2.5	0.040	n/a
			3533	10.0	17.0	7.0	0.050	n/a
17.0	19.0	PYROCLASTIC CONGLOMERATE (2)	3534	17.0	20.0	3.0	0.015	n/a
19.0	50.0	INTERMEDIATE TUFF (4)	3535	20.0	22.5	2.5	0.010	n/a
			3536	22.5	27.5	5.0	0.002	n/a
			3537	31.0	33.5	2.5	0.205	n/a
			3538	33.5	36.0	2.5	0.005	n/a
			3539	36.0	39.0	3.0	0.020	n/a
			3540	39.0	41.5	2.5	0.075	n/a
			3541	41.5	46.5	5.0	0.030	n/a

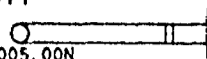
Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			3542	46.5	50.0	3.5	0.015	n/a

U8611

1005.00N
3500.00E



5000

5000

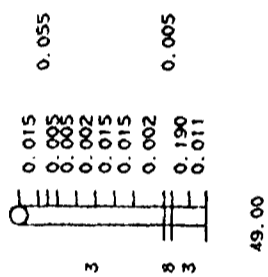
PLAN VIEW

4900

4900

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49.00

4700

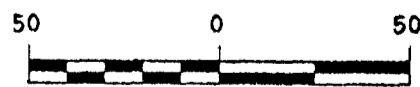
4700

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SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE U8611

E 3600
N 1005

AZIMUTH 130
DIP 0

Scale 1" = 50'

Coords: 1005.0N 3600.0E

HOLE NO.: U8611

Azimuth: 130.0

Mirado Project

Dip: 0.0

Elevation: 4761.0

Length: 49.0

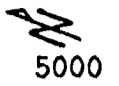
Dip Tests

49.00 130.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	38.0	FELSIC TUFF (3)	3543	0.0	5.0	5.0	0.015	n/a
			3544	5.0	7.5	2.5	0.055	n/a
			3545	7.5	10.0	2.5	0.005	n/a
			3546	10.0	15.0	5.0	0.005	n/a
			3547	15.0	20.0	5.0	0.002	n/a
			3548	20.0	25.0	5.0	0.015	n/a
			3549	25.0	30.0	5.0	0.015	n/a
			3550	30.0	38.0	8.0	0.002	n/a
38.0	40.0	METADIORITE (8)	3551	38.0	40.0	2.0	0.005	n/a
40.0	49.0	FELSIC TUFF (3)	3552	40.0	44.5	4.5	0.190	n/a
			3553	44.5	49.0	4.5	0.010	n/a

U8612

979.00N
3575.00E



5000

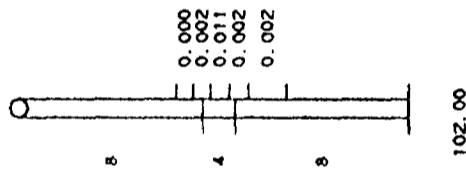
PLAN VIEW

4900

4900

4800

4800



4700

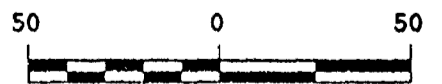
4700

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4600

4500

SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW

HOLE U8612

E 3575
N 979

AZIMUTH 160
DIP 0

Scale 1" = 50'

Coords: 979.0N 3575.0E

Azimuth: 160.0

Mirado Project

Dip: 0.0

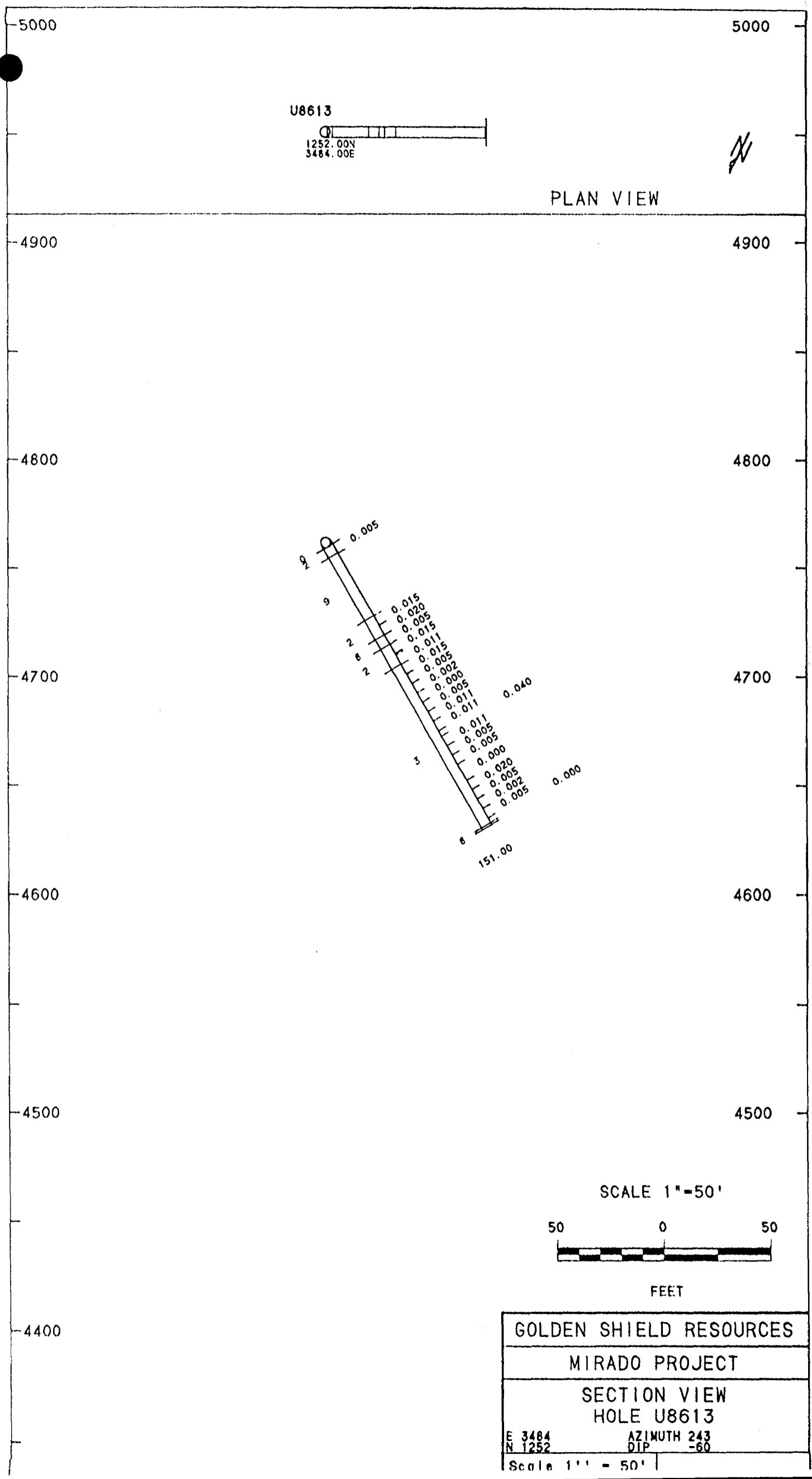
Elevation: 4761.0

Length: 102.0

Dip Tests

102.00 160.0 0.0

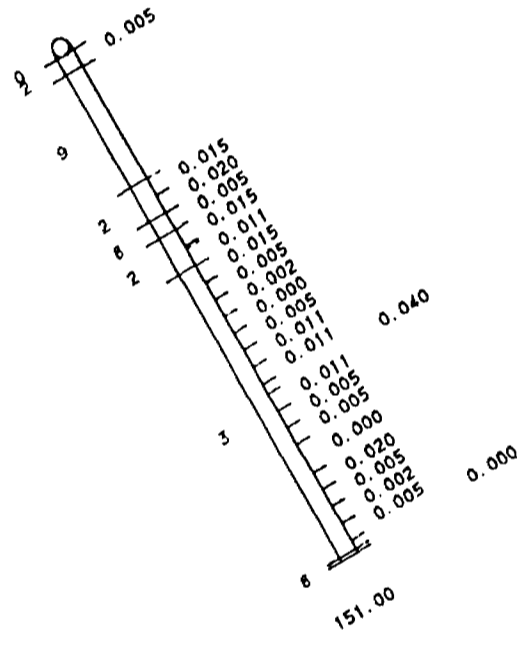
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	48.0	METADIORITE (8)	3577	41.0	45.5	4.5	0.000	n/a
			3578	45.5	50.0	4.5	0.002	n/a
48.0	56.5	INTERMEDIATE TUFF (4)	3579	50.0	55.0	5.0	0.010	n/a
			3580	55.0	60.0	5.0	0.002	n/a
56.5	102.0	METADIORITE (8)	3581A	60.0	70.0	10.0	0.002	n/a



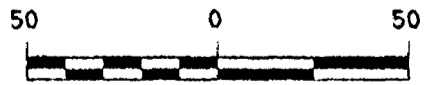
U8613

1252.00N
3484.00E

PLAN VIEW



SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE U8613	
E 3484 N 1252	AZIMUTH 243 DIP -60
Scale 1" = 50'	

Coords: 1252.0N 3484.0E

HOLE NO.: U8613

Azimuth: 243.0

Mirado Project

Dip: -60.0

Elevation: 4761.0

Length: 151.0

Dip Tests

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	2.0	OVERBURDEN (0)						
2.0	6.8	PYROCLASTIC CONGLOMERATE (2)	3554	2.0	7.0	5.0	0.005	n/a
6.8	40.5	CHLORIC DYKE (9)						
40.5	50.5	PYROCLASTIC CONGLOMERATE (2)	3555	40.5	45.5	5.0	0.015	n/a
			3556	45.5	50.5	5.0	0.020	n/a
50.5	55.5	METADIORITE (8)	3557	50.5	55.5	5.0	0.005	n/a
55.5	66.0	PYROCLASTIC CONGLOMERATE (2)	3558	55.5	60.5	5.0	0.015	n/a
			3559	61.2	66.2	5.0	0.010	n/a

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Page: 2

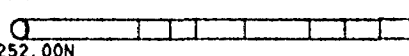
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
66.0	150.0	FELSIC TUFF (3)						
			3560	66.2	71.2	5.0	0.015	n/a
			3561	71.2	76.2	5.0	0.005	n/a
			3562	76.2	81.2	5.0	0.002	n/a
			3563	81.2	86.2	5.0	0.000	n/a
			3564	86.2	91.2	5.0	0.005	n/a
			3565	91.2	96.2	5.0	0.010	n/a
			3566	96.2	101.2	5.0	0.010	n/a
			3567	101.2	104.0	2.8	0.040	n/a
			3568	104.0	109.0	5.0	0.010	n/a
			3569	109.0	114.0	5.0	0.005	n/a
			3570	114.0	119.0	5.0	0.005	n/a
			3571	119.0	127.5	8.5	0.000	n/a
			3572	127.5	132.5	5.0	0.020	n/a
			3573	132.5	137.5	5.0	0.005	n/a
			3574	137.5	142.5	5.0	0.002	n/a
			3575	142.5	147.5	5.0	0.005	n/a
			3576	147.5	150.0	2.5	0.000	n/a
150.0	151.0	METADIORITE (8)						

5000

5000

U8614

1252.00N
3484.00E



PLAN VIEW

4900

4900

4800

4800

4700

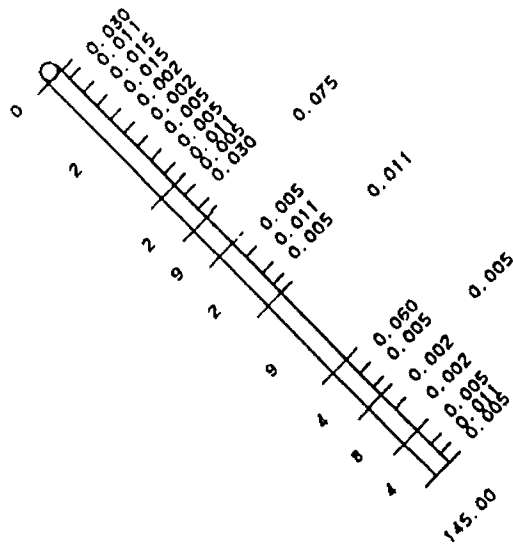
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4600

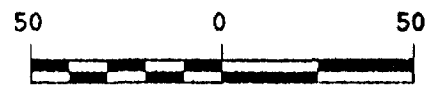
4600

4500

4400



SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE U8614	
E 3484 N 1252	AZIMUTH 243 DIP -45
Scale 1" = 50'	

Coords: 1252.0N 3484.0E

HOLE NO.: U8614

Azimuth: 243.0

Mirado Project

Dip: -45.0

Elevation: 4761.0

Length: 145.0

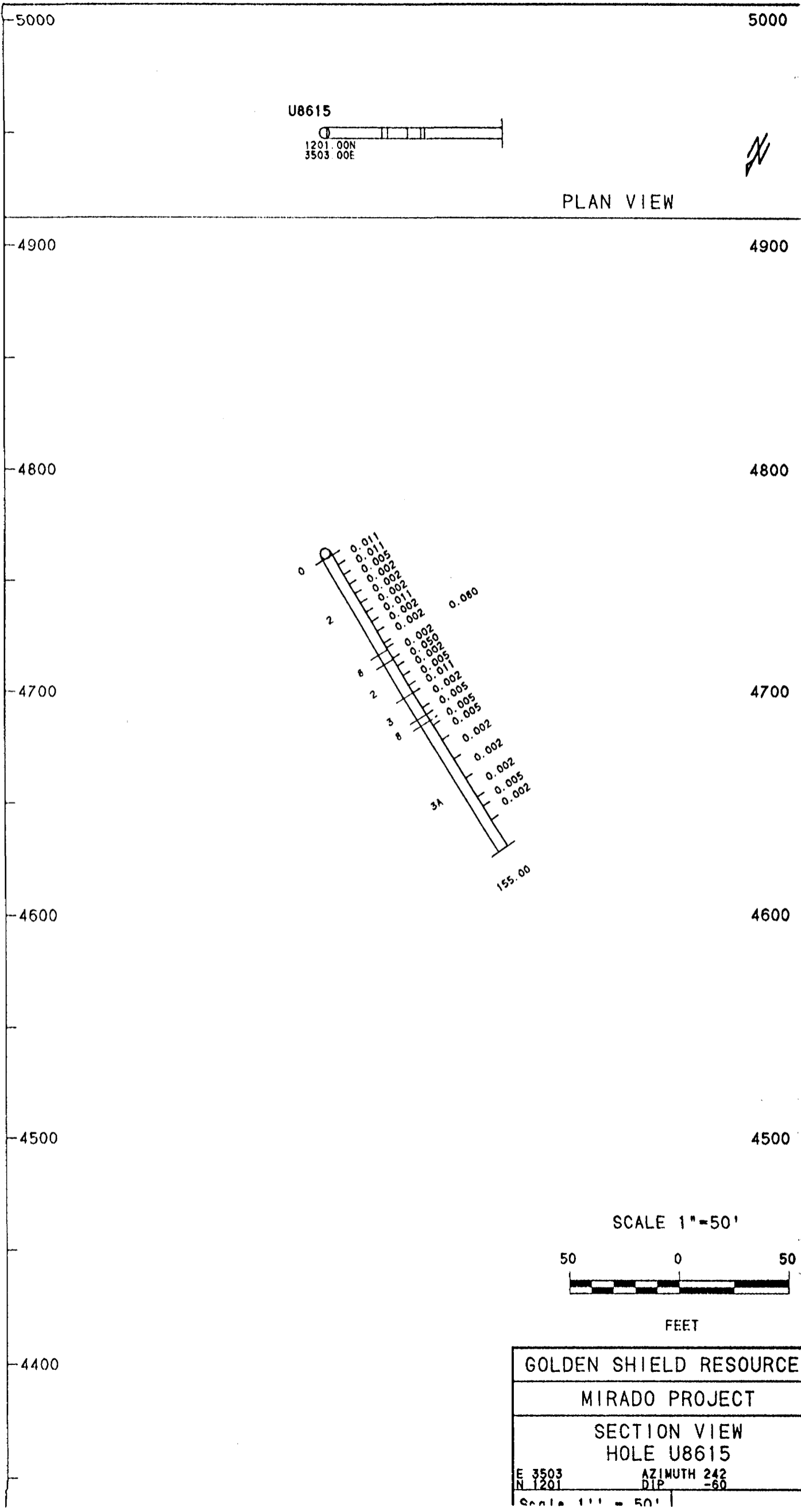
Rip Tests

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	2.0	OVERBURDEN (0)						
2.0	43.8	PYROCLASTIC CONGLOMERATE (2)						
			3581B	2.0	5.0	3.0	0.030	n/a
			3582	5.0	10.0	5.0	0.010	n/a
			3583	10.0	15.0	5.0	0.015	n/a
			3584	15.0	20.0	5.0	0.015	n/a
			3585	20.0	25.0	5.0	0.002	n/a
			3586	25.0	30.0	5.0	0.002	n/a
			3587	30.0	35.0	5.0	0.005	n/a
			3588	35.0	40.0	5.0	0.005	n/a
			3589	40.0	43.8	3.8	0.010	n/a
43.8	55.5	PYROCLASTIC CONGLOMERATE (2)						
			3590	43.8	47.5	3.7	0.005	n/a
			3591	47.5	52.5	5.0	0.030	n/a
			3592	52.5	55.5	3.0	0.075	n/a
55.5	65.0	CHLORIC DYKE (9)						

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
65.0	83.0	PYROCLASTIC CONGLOMERATE (2)						
			3593	65.0	70.0	5.0	0.005	n/a
			3594	70.0	76.0	6.0	0.010	n/a
			3595	76.0	80.0	4.0	0.005	n/a
			3596	80.0	83.0	3.0	0.010	n/a
83.0	107.0	CHLORIC DYKE (9)						
107.0	120.0	INTERMEDIATE TUFF (4)						
			3597	107.0	112.0	5.0	0.060	n/a
			3598	112.0	117.0	5.0	0.005	n/a
			3599	117.0	120.0	3.0	0.005	n/a
120.0	133.0	METADIORITE (8)						
			3600	120.0	125.0	5.0	0.002	n/a
			3601	125.0	133.0	8.0	0.002	n/a
133.0	145.0	INTERMEDIATE TUFF (4)						
			3602	133.0	138.0	5.0	0.005	n/a
			3603	138.0	141.5	3.5	0.010	n/a
			3604	141.5	145.0	3.5	0.005	n/a



U8615

1201.00N
3503.00E

PLAN VIEW

5000
4900
4800
4700
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4500
4400

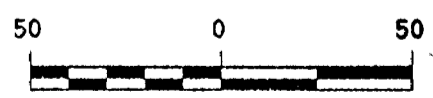
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4900
4800
4700
4600
4500

0
2
8
2
3
8
3A
155.00

0.011
0.011
0.003
0.002
0.011
0.002
0.002
0.002
0.002
0.050
0.005
0.011
0.002
0.005
0.005
0.002
0.002
0.002
0.005
0.002

0.080

SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE U8615	
E 3503 N 1201	AZIMUTH 242 DIP -60
Scale 1" = 50'	

Coords: 1201.0N 3503.0E

HOLE NO.: U8615

Azimuth: 242.0

Mirado Project

Dip: -60.0

Elevation: 4761.0

Length: 155.0

Dip Tests

155.00 242.0 -57.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	2.0	OVERBURDEN (0)						
2.0	51.5	PYROCLASTIC CONGLOMERATE (2)						
			3605	2.0	7.0	5.0	0.010	n/a
			3606	7.0	12.0	5.0	0.010	n/a
			3607	12.0	17.0	5.0	0.005	n/a
			3608	17.0	22.0	5.0	0.002	n/a
			3609	22.0	27.0	5.0	0.002	n/a
			3610	27.0	32.0	5.0	0.002	n/a
			3611	32.0	37.0	5.0	0.010	n/a
			3612	37.0	42.0	5.0	0.002	n/a
			3613	42.0	48.0	6.0	0.002	n/a
			3614	48.0	50.5	2.5	0.080	n/a
			3615	50.5	56.0	5.5	0.002	n/a
51.5	56.5	METADIORITE (8)						
			3616	56.0	60.0	4.0	0.050	n/a
56.5	74.0	PYROCLASTIC CONGLOMERATE (2)						
			3617	60.0	65.0	5.0	0.002	n/a

Golden Shield Resources Ltd.

Page: 2

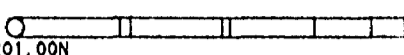
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			3618	65.0	70.0	5.0	0.005	n/a
			3619	70.0	74.0	4.0	0.010	n/a
74.0	85.5	FELSIC TUFF (3)						
			3620	74.0	82.0	8.0	0.002	n/a
			3621	82.0	85.5	3.5	0.005	n/a
85.5	88.7	METADIORITE (8)						
88.7	155.0	FELSIC TUFF +/- LAPILLI (3A)						
			3622	88.7	91.3	2.6	0.005	n/a
			3623	91.3	99.0	7.7	0.005	n/a
			3624	99.0	109.0	10.0	0.002	n/a
			3625	109.0	119.0	10.0	0.002	n/a
			3626	119.0	129.0	10.0	0.002	n/a
			3627	129.0	134.0	5.0	0.005	n/a
			3628	134.0	141.0	7.0	0.002	n/a

-5000

5000

U8616

1201.00N
3503.00E



PLAN VIEW

4900

4900

4800

4800

4700

4700

4600

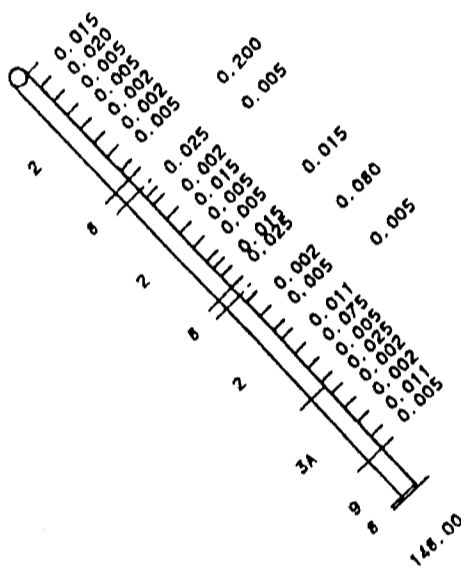
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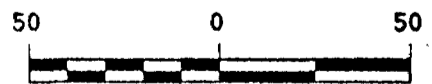
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4400

4400



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE U8616

E 3503
N 1201

AZIMUTH 242
DIP -45

Scale 1" = 50'

Coords: 1201.0N 3503.0E

HOLE NO.: U8616

Azimuth: 242.0

Mirado Project

Dip: -45.0

Elevation: 4761.0

Length: 148.0

Dip Tests

148.00 242.0 -47.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	39.0	PYROCLASTIC CONGLOMERATE (2)	3629	1.0	6.0	5.0	0.015	n/a
			3630	6.0	11.0	5.0	0.020	n/a
			3631	11.0	16.0	5.0	0.005	n/a
			3632	16.0	21.0	5.0	0.005	n/a
			3633	21.0	26.0	5.0	0.002	n/a
			3634	26.0	31.0	5.0	0.002	n/a
			3635	31.0	36.0	5.0	0.005	n/a
			3636	36.0	39.0	3.0	0.200	n/a
39.0	43.0	METADIORITE (8)						
43.0	77.5	PYROCLASTIC CONGLOMERATE (2)	3637	43.0	45.5	2.5	0.025	n/a
			3638	45.5	48.0	2.5	0.005	n/a
			3639	48.0	53.0	5.0	0.002	n/a
			3640	53.0	58.0	5.0	0.015	n/a
			3641	58.0	63.0	5.0	0.005	n/a
			3642	63.0	68.0	5.0	0.005	n/a
			3643	68.0	70.5	2.5	0.015	n/a
			3644	70.5	73.5	3.0	0.015	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			3645	73.5	77.5	4.0	0.025	n/a
77.5	80.4	METADIORITE (8)						
80.4	112.5	PYROCLASTIC CONGLOMERATE (2)						
			3646	80.4	82.9	2.5	0.080	n/a
			3647	82.9	88.0	5.1	0.002	n/a
			3648	88.0	93.0	5.0	0.005	n/a
			3649	93.0	96.0	3.0	0.005	n/a
			3650	96.0	101.0	5.0	0.010	n/a
			3651	101.0	106.0	5.0	0.075	n/a
			3652	106.0	111.0	5.0	0.005	n/a
			3653	111.0	115.0	4.0	0.025	n/a
112.5	134.2	FELSIC TUFF +/- LAPILLI (3A)						
			3654	115.0	120.0	5.0	0.002	n/a
			3655	120.0	125.0	5.0	0.002	n/a
			3656	125.0	130.0	5.0	0.010	n/a
			3657	130.0	134.2	4.2	0.005	n/a
134.2	147.0	CHLORIC DYKE (9)						
147.0	148.0	METADIORITE (8)						

Golden Shield Resources Ltd.

Page: 1

Coords: 1155.0N 3525.0E

HOLE NO.: U8617

Azimuth: 235.0

Mirado Project

Dip: -60.0

Elevation: 4761.0

Length: 153.0

Dip Tests

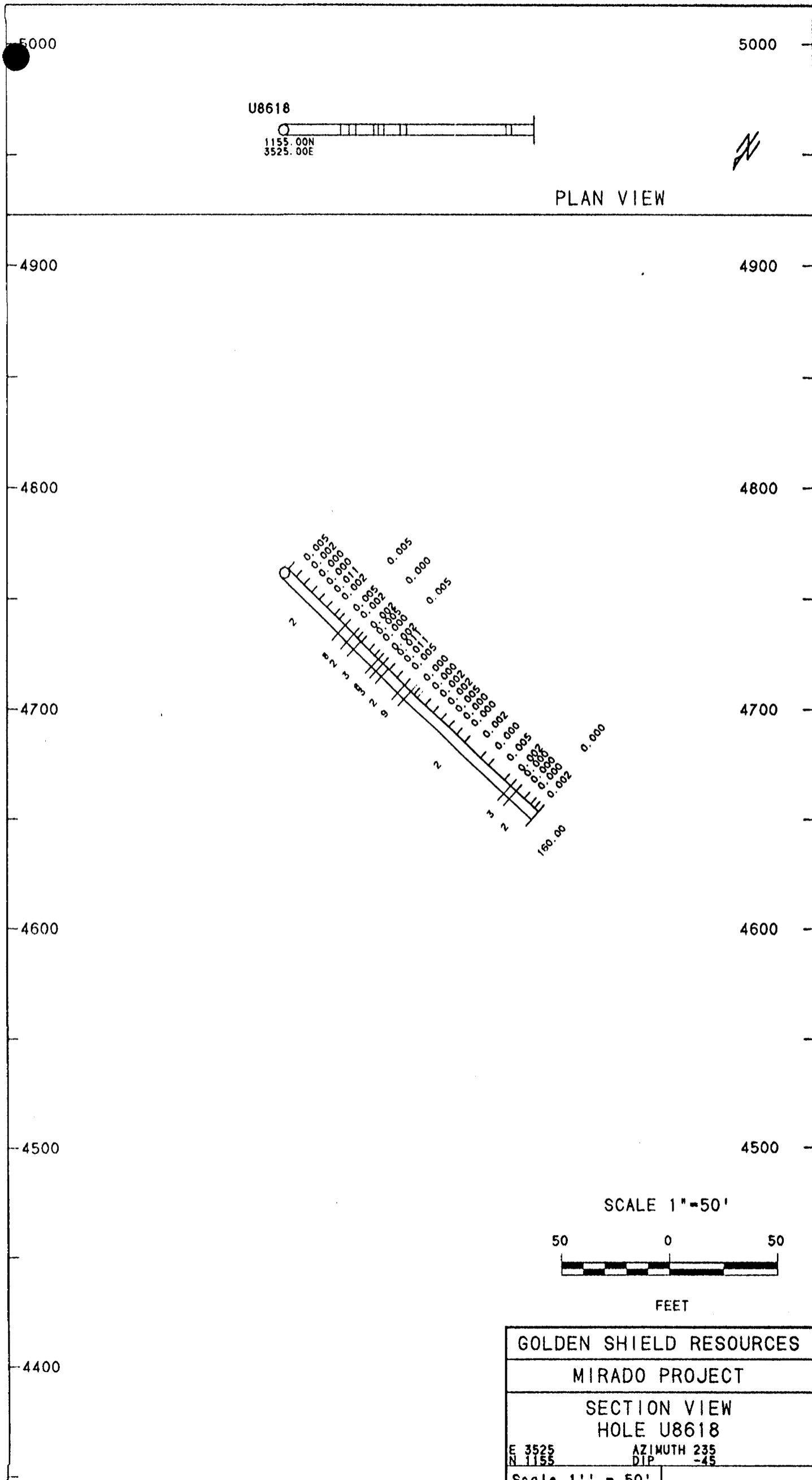
153.00 235.0 -58.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	2.0	OVERBURDEN (0)						
2.0	43.0	FELSIC TUFF (3)						
			3658	2.0	12.0	10.0	0.005	n/a
			3659	12.0	14.5	2.5	0.002	n/a
			3660	14.5	18.0	3.5	0.005	n/a
			3661	18.0	23.0	5.0	0.005	n/a
			3662	23.0	28.0	5.0	0.002	n/a
			3663	28.0	33.0	5.0	0.002	n/a
			3664	33.0	43.0	10.0	0.002	n/a
43.0	47.0	METADIORITE (8)						
47.0	75.0	FELSIC TUFF (3)						
			3665	47.0	50.0	3.0	0.002	n/a
			3666	50.0	55.0	5.0	0.005	n/a
			3667	55.0	60.0	5.0	0.002	n/a
			3668	60.0	65.0	5.0	0.005	n/a
			3669	65.0	70.0	5.0	0.015	n/a
			3670	70.0	72.5	2.5	0.025	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			3671	72.5	75.0	2.5	0.015	n/a
75.0	83.5	METADIORITE (8)						
83.5	95.5	PYROCLASTIC CONGLOMERATE (2)	3672	83.5	86.0	2.5	0.030	n/a
			3673	86.0	88.5	2.5	0.025	n/a
			3674	88.5	91.5	3.0	0.002	n/a
			3675	91.5	95.5	4.0	0.010	n/a
95.5	115.0	FELSIC TUFF (3)	3676	95.5	104.0	8.5	0.002	n/a
			3677	104.0	115.0	11.0	0.010	n/a
115.0	124.0	CHLORIC DYKE (9)						
124.0	153.0	FELSIC TUFF (3)	3678	124.0	129.0	5.0	0.002	n/a
			3679	129.0	134.0	5.0	0.002	n/a
			3680	134.0	139.0	5.0	0.005	n/a
			3681	139.0	144.0	5.0	0.005	n/a
			3682	144.0	149.0	5.0	0.005	n/a
			3683	149.0	153.0	4.0	0.002	n/a



Coords: 1155.0N 3525.0E

HOLE NO.: U8618

Azimuth: 235.0

Mirado Project

Dip: -45.0

Elevation: 4761.0

Length: 160.0

Dip Tests

160.00 235.0 -42.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	37.0	PYROCLASTIC CONGLOMERATE (2)	3684	0.0	5.0	5.0	0.005	n/a
			3685	5.0	10.0	5.0	0.002	n/a
			3686	10.0	15.0	5.0	0.000	n/a
			3687	15.0	20.0	5.0	0.000	n/a
			3688	20.0	25.0	5.0	0.010	n/a
			3689	25.0	30.0	5.0	0.002	n/a
			3690	30.0	33.0	3.0	0.005	n/a
			3691	33.0	37.0	4.0	0.005	n/a
37.0	42.5	METADIORITE (8)	3692	37.0	42.5	5.5	0.002	n/a
42.5	47.0	PYROCLASTIC CONGLOMERATE (2)	3693	42.5	45.0	2.5	0.000	n/a
			3694	45.0	47.5	2.5	0.002	n/a
47.0	58.5	FELSIC TUFF (3)	3695	47.5	52.5	5.0	0.005	n/a
			3696	52.5	56.0	3.5	0.000	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			3697	56.0	58.5	2.5	0.005	n/a
58.5	61.5	METADIORITE (8)	3698	58.5	61.5	3.0	0.002	n/a
61.5	65.0	FELSIC TUFF (3)	3699	61.5	65.5	4.0	0.010	n/a
65.0	75.5	PYROCLASTIC CONGLOMERATE (2)	3700	65.5	70.5	5.0	0.010	n/a
			7501	70.5	75.5	5.0	0.005	n/a
75.5	79.5	CHLORIC DYKE (9)						
79.5	142.5	PYROCLASTIC CONGLOMERATE (2)	7	79.5	81.5	2.0	0.000	n/a
			7503	83.5	88.5	5.0	0.000	n/a
			7504	88.5	93.5	5.0	0.002	n/a
			7505	93.5	98.5	5.0	0.002	n/a
			7506	98.5	103.5	5.0	0.005	n/a
			7507	103.5	108.5	5.0	0.000	n/a
			7508	108.5	113.5	5.0	0.000	n/a
			7509	113.5	123.5	10.0	0.002	n/a
			7510	123.5	128.5	5.0	0.000	n/a
			7511	128.5	138.5	10.0	0.005	n/a
			7512	138.5	142.5	4.0	0.002	n/a
142.5	146.0	FELSIC TUFF (3)	7513	142.5	146.0	3.5	0.000	n/a
146.0	160.0	PYROCLASTIC CONGLOMERATE (2)	7514	146.0	151.0	5.0	0.000	n/a
			7515	151.0	155.0	4.0	0.000	n/a
			7516	155.0	157.5	2.5	0.000	n/a

Golden Shield Resources Ltd.

Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7517	157.5	160.0	2.5	0.002	n/a

Golden Shield Resources Ltd.

Page: 1

Coords: 1055.0N 3567.0E

HOLE NO.: U8619

Azimuth: 235.0

Mirado Project

Dip: 20.0

Elevation: 4761.0

Length: 161.0

Dip Tests

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
11.2	13.2	FELSIC TUFF (3)	7562	13.0	15.5	2.5	0.020	n/a
13.2	37.5	PYROCLASTIC CONGLOMERATE (2)	7563	15.5	19.0	3.5	0.040	n/a
			7564	19.0	20.5	1.5	0.002	n/a
			3950	20.5	21.0	0.5	46.230	n/a
			7565	21.0	23.5	2.5	0.010	n/a
			7566	23.5	26.0	2.5	0.040	n/a
			7567	26.0	29.0	3.0	0.010	n/a
			7568	29.0	31.5	2.5	0.005	n/a
			7569	31.5	37.5	6.0	0.000	n/a
37.5	41.5	METADIORITE (8)						
41.5	80.0	FELSIC TUFF (3)	7570	41.5	49.0	7.5	0.005	n/a
			7571	49.0	54.0	5.0	0.000	n/a
			7572	54.0	59.0	5.0	0.045	n/a
			7573	59.0	64.0	5.0	0.010	n/a
			7574	64.0	69.0	5.0	0.005	n/a

Golden Shield Resources Ltd.

Page: 2

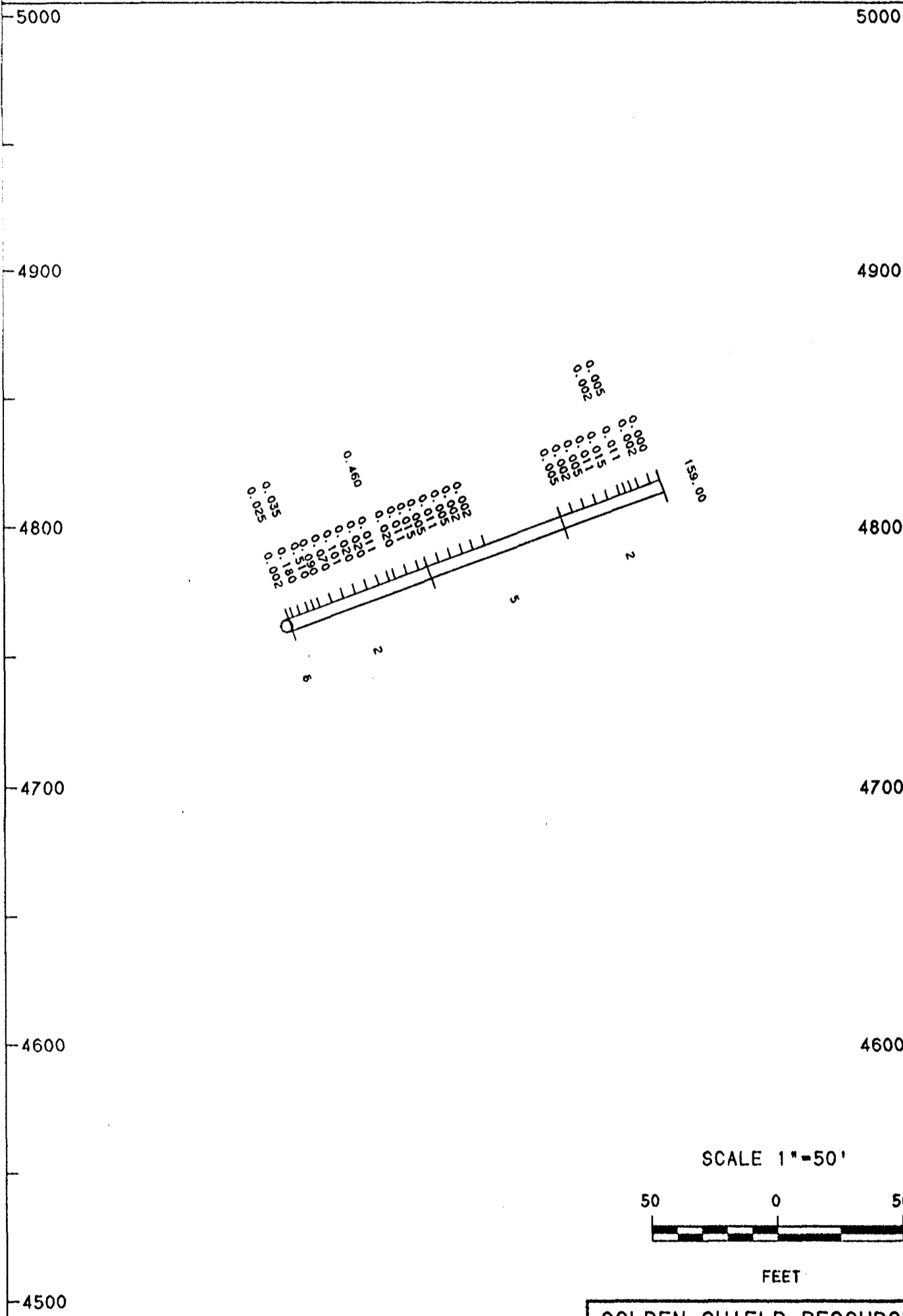
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7575	69.0	76.5	7.5	0.005	n/a
			7576	76.5	78.5	2.0	0.010	n/a
			7577	78.5	80.0	1.5	0.002	n/a
80.0	161.0	PYROCLASTIC CONGLOMERATE (2)						
			7578	80.0	85.0	5.0	0.005	n/a
			7579	85.0	90.0	5.0	0.005	n/a
			7580	90.0	95.0	5.0	0.025	n/a
			7581	95.0	100.0	5.0	0.010	n/a
			7582	100.0	105.0	5.0	0.010	n/a
			7583	105.0	110.0	5.0	0.040	n/a
			7584	110.0	113.0	3.0	0.010	n/a
			7585	113.0	115.0	2.0	0.002	n/a
			7586	115.0	120.0	5.0	0.015	n/a
			7587	120.0	125.0	5.0	0.020	n/a
			7588	125.0	130.0	5.0	0.010	n/a
			7589	130.0	135.0	5.0	0.020	n/a
			7590	135.0	137.0	2.0	0.005	n/a
			7591	137.0	140.5	3.5	0.035	n/a
			7592	140.5	145.0	4.5	0.055	n/a
			7593	145.0	150.0	5.0	0.055	n/a
			7594	150.0	155.0	5.0	0.070	n/a
			7595	155.0	161.0	6.0	0.015	n/a

U8620

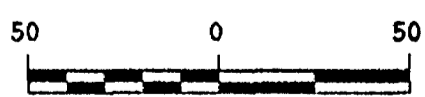
1007.00N
3580.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE U8620	
E 3580 N 1007	AZIMUTH 235 DIP 20
Scale 1" = 50'	

Coords: 1007.0N 3580.0E

HOLE NO.: U8620

Azimuth: 235.0

Mirado Project

Dip: 20.0

Elevation: 4761.0

Length: 159.0

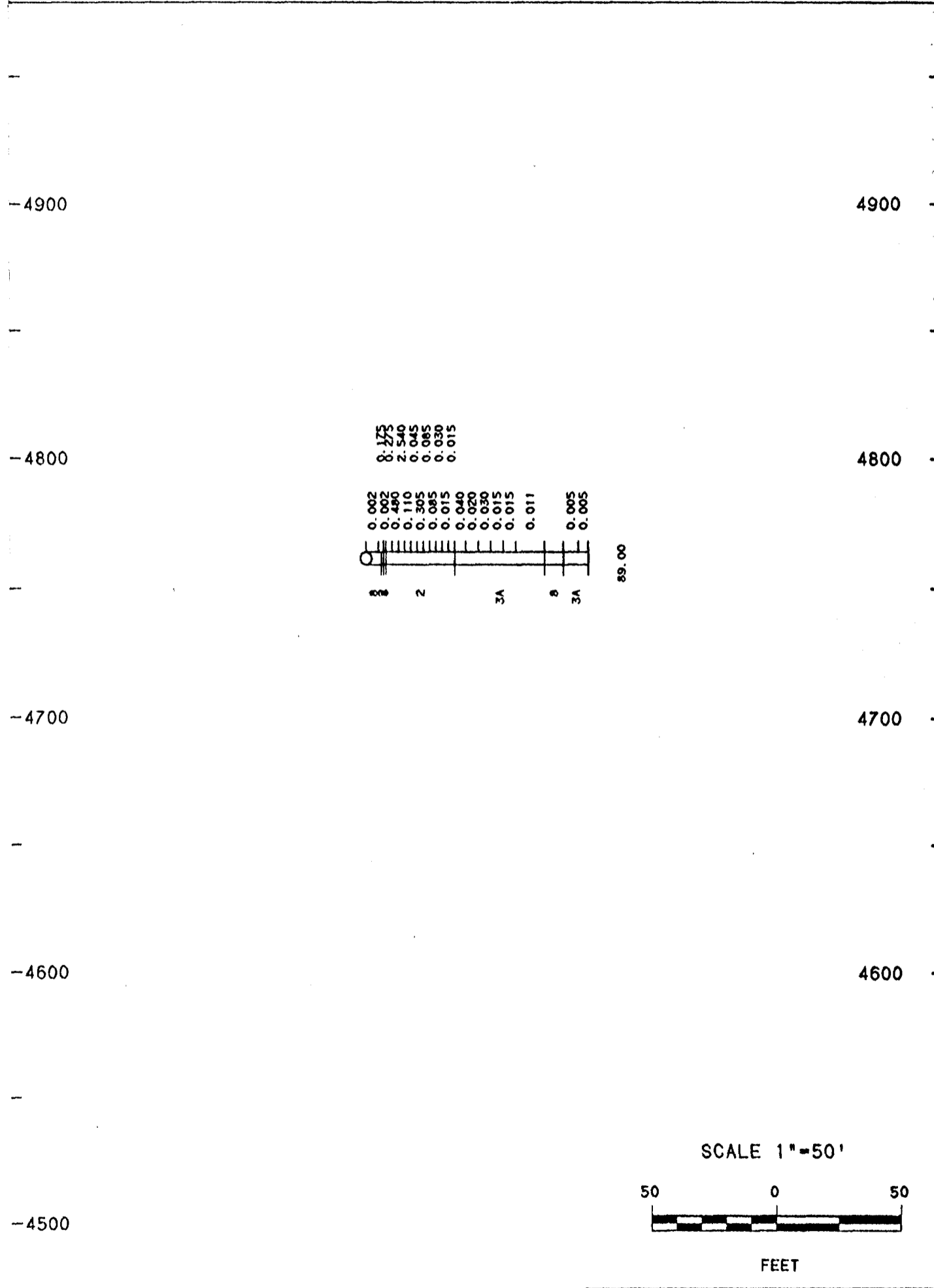
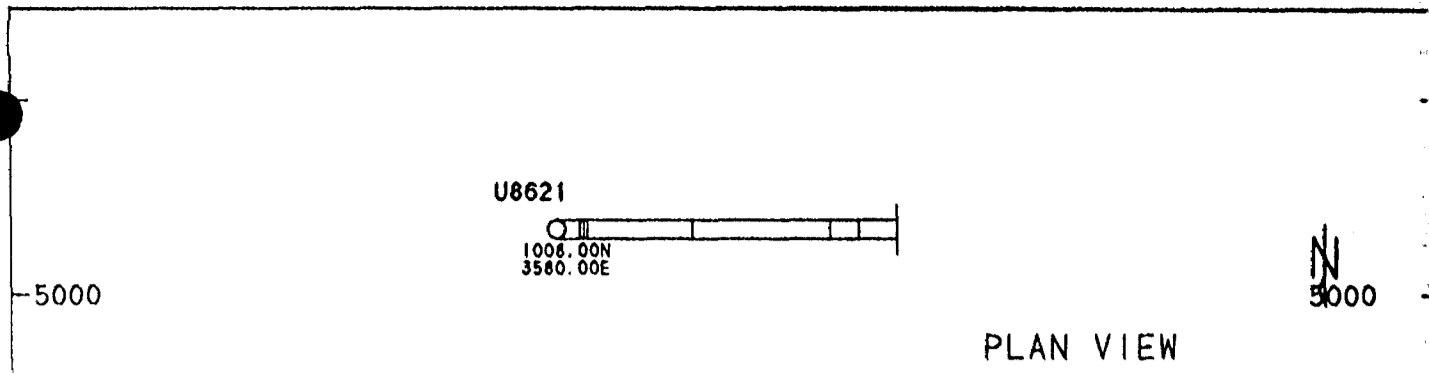
Dip Tests

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	1.5	METADIORITE (8)						
1.5	60.5	PYROCLASTIC CONGLOMERATE (2)						
			7596	1.5	3.5	2.0	0.002	n/a
			7597	3.5	6.5	3.0	0.025	n/a
			7598	6.5	10.0	3.5	0.180	n/a
			7599	10.0	12.5	2.5	0.035	n/a
			7600	12.5	15.0	2.5	0.510	n/a
			7601	15.0	20.0	5.0	0.090	n/a
			7602	20.0	25.0	5.0	0.070	n/a
			7603	25.0	30.0	5.0	0.100	n/a
			7604	30.0	35.0	5.0	0.020	n/a
			7605	35.0	40.0	5.0	0.020	n/a
			7606	40.0	44.5	4.5	0.010	n/a
			7607	44.5	47.0	2.5	0.460	n/a
			7608	47.0	52.0	5.0	0.020	n/a
			7609	52.0	57.0	5.0	0.010	n/a
			7610	57.0	60.5	3.5	0.015	n/a
60.5	117.0	MAFIC TUFF (5)						
			7611	60.5	65.5	5.0	0.005	n/a
			7612	65.5	70.5	5.0	0.010	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7613	70.5	75.5	5.0	0.005	n/a
			7614	75.5	80.0	4.5	0.002	n/a
			7615	80.0	85.0	5.0	0.002	n/a
117.0	159.0	PYROCLASTIC CONGLOMERATE (2)						
			7616	117.0	122.0	5.0	0.005	n/a
			7617	122.0	127.0	5.0	0.002	n/a
			7618	127.0	132.0	5.0	0.005	n/a
			7619	132.0	137.0	5.0	0.010	n/a
			7620	137.0	142.0	5.0	0.015	n/a
			7621	142.0	144.5	2.5	0.002	n/a
			7622	144.5	147.0	2.5	0.010	n/a
			7623	147.0	150.0	3.0	0.005	n/a
			7624	150.0	155.0	5.0	0.002	n/a
			7625	155.0	159.0	4.0	0.000	n/a



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE U8621	
E 3580 N 1008	AZIMUTH 270 DIP 0
Scale 1" = 50'	

Golden Shield Resources Ltd.

HOLE NO.: U8621

Page: 1

Coords: 1008.0N 3580.0E

Azimuth: 270.0

Mirado Project

Dip: 0.0

Elevation: 4761.0

Length: 89.0

Dip Tests

89.00 270.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	6.0	METADIORITE (8)	7774	0.0	5.0	5.0	0.002	n/a
			7775	5.0	7.0	2.0	0.175	n/a
6.0	7.0	PYROCLASTIC CONGLOMERATE (2)						
7.0	8.0	METADIORITE (8)	7776	7.0	8.0	1.0	0.002	n/a
8.0	35.5	PYROCLASTIC CONGLOMERATE (2)	7777	8.0	10.5	2.5	0.275	n/a
			7778	10.5	13.0	2.5	0.480	n/a
			7779	13.0	15.5	2.5	2.540	n/a
			7780	15.5	18.0	2.5	0.110	n/a
			7781	18.0	20.5	2.5	0.045	n/a
			7782	20.5	23.0	2.5	0.305	n/a
			7783	23.0	25.5	2.5	0.085	n/a
			7784	25.5	28.0	2.5	0.085	n/a
			7785	28.0	30.5	2.5	0.030	n/a
			7786	30.5	33.0	2.5	0.015	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7787	33.0	35.5	2.5	0.015	n/a
35.5	71.5	FELSIC TUFF +/- LAPILLI (3A)						
			7788	35.5	40.0	4.5	0.040	n/a
			7789	40.0	45.0	5.0	0.020	n/a
			7790	45.0	50.0	5.0	0.030	n/a
			7791	50.0	55.0	5.0	0.015	n/a
			7792	55.0	60.0	5.0	0.015	n/a
			7793	60.0	71.5	11.5	0.010	n/a
71.5	79.0	METADIORITE (8)						
79.0	89.0	FELSIC TUFF +/- LAPILLI (3A)						
			7794	79.0	85.0	6.0	0.005	n/a
			7795	83.0	89.0	4.0	0.005	n/a

Coords: 1008.0N 3580.0E
 Azimuth: 270.0
 Dip: 20.0
 Elevation: 4761.0
 Length: 169.0

Mirado Project

Dip Tests

169.00 270.0 23.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	5.5	METADIORITE (8)						
5.5	25.0	PYROCLASTIC CONGLOMERATE (2)						
			7749	5.5	8.0	2.5	0.060	n/a
			7750	8.0	10.5	2.5	0.115	n/a
			7751	10.5	13.0	2.5	0.050	n/a
			7752	13.0	16.5	3.5	1.100	n/a
			7753	16.5	20.0	3.5	8.860	n/a
			7754	20.0	22.5	2.5	0.270	n/a
			7755	22.5	25.0	2.5	0.030	n/a
25.0	48.0	METADIORITE (8)						
48.0	77.0	FELSIC TUFF +/- LAPILLI (3A)						
			7756	48.0	53.0	5.0	0.050	n/a
			7757	53.0	58.0	5.0	0.015	n/a
			7758	58.0	63.0	5.0	0.002	n/a
			7759	63.0	68.0	5.0	0.030	n/a
			7760	68.0	77.0	9.0	0.010	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
77.0	169.0	PYROCLASTIC CONGLOMERATE (2)						
			7761	77.0	82.0	5.0	0.010	n/a
			7762	82.0	87.0	5.0	0.002	n/a
			7763	87.0	92.0	5.0	0.010	n/a
			7764	92.0	97.0	5.0	0.002	n/a
			7765	97.0	102.0	5.0	0.002	n/a
			7766	102.0	107.0	5.0	0.005	n/a
			7767	107.0	112.0	5.0	0.002	n/a
			7768	112.0	115.0	3.0	0.010	n/a
			7769	115.0	117.5	2.5	0.040	n/a
			7770	117.5	122.5	5.0	0.010	n/a
			7771	122.5	127.5	5.0	0.010	n/a
			7772	127.5	132.5	5.0	0.005	n/a
			7773	133.5	138.5	5.0	0.005	n/a
			7539	138.5	141.0	2.5	0.020	n/a
			7540	141.0	145.6	4.6	0.005	n/a
			3949	145.6	146.0	0.4	476.270	n/a
			7541	146.0	148.5	2.5	0.030	n/a
			7542	148.5	152.5	4.0	0.002	n/a
			7543	155.0	160.0	5.0	0.005	n/a
			7544	160.0	165.0	5.0	0.002	n/a
			7545	165.0	169.0	4.0	0.010	n/a

U8623

1192.00N
3414.00E

5000

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PLAN VIEW

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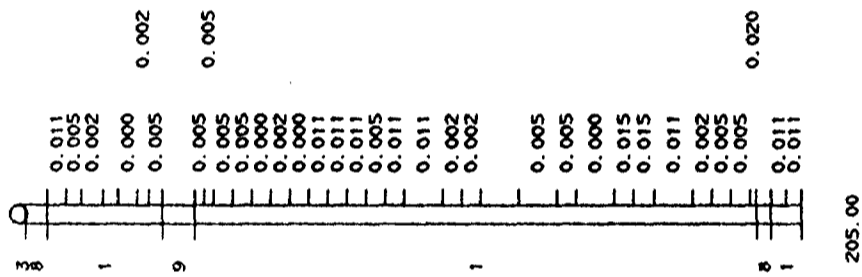
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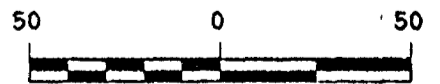
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SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW

HOLE U8623

E 3414
N 1192

AZIMUTH 240
DIP 0

Coords: 1192.0N 3414.0E

HOLE NO.: U8623

Azimuth: 240.0

Mirado Project

Dip: 0.0

Elevation: 4761.0

Length: 205.0

Dip Tests

205.00 240.0 0.0

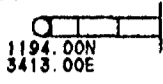
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
	121.0	131.0				0.002		
0.0		1.5 FELSIC TUFF (3)						
1.5		7.3 METADIORITE (8)						
7.3		37.5 ANDESITE / DACITE (1)						
			7518	7.3	12.3	5.0	0.010	n/a
			7519	12.3	16.3	4.0	0.005	n/a
			7520	16.3	22.0	5.7	0.002	n/a
			7521	26.0	31.0	5.0	0.000	n/a
			7522	31.0	34.0	3.0	0.002	n/a
			7523	34.0	37.5	3.5	0.005	n/a
37.5		46.0 CHLORIC DYKE (9)						
46.0		193.3 ANDESITE / DACITE (1)						
			7524	46.0	48.5	2.5	0.005	n/a
			7525	48.5	51.0	2.5	0.005	n/a
			7526	51.0	56.0	5.0	0.005	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7527	56.0	61.0	5.0	0.005	n/a
			7528	61.0	66.0	5.0	0.000	n/a
			7529	66.0	71.0	5.0	0.002	n/a
			7530	71.0	76.0	5.0	0.000	n/a
			7531	76.0	81.0	5.0	0.010	n/a
			7532	81.0	86.0	5.0	0.010	n/a
			7533	86.0	91.0	5.0	0.010	n/a
			7534	91.0	96.0	5.0	0.005	n/a
			7535	96.0	101.0	5.0	0.010	n/a
			7536	101.0	111.0	10.0	0.010	n/a
			7537	111.0	116.0	5.0	0.002	n/a
			7538	116.0	121.0	5.0	0.002	n/a
			7547	131.0	141.0	10.0	0.005	n/a
			7548	141.0	146.0	5.0	0.005	n/a
			7549	146.0	156.0	10.0	0.000	n/a
			7550	156.0	161.0	5.0	0.015	n/a
			7551	161.0	166.5	5.5	0.015	n/a
			7552	166.5	176.5	10.0	0.010	n/a
			7553	176.5	181.5	5.0	0.002	n/a
			7554	181.5	186.5	5.0	0.005	n/a
			7555	186.5	191.5	5.0	0.005	n/a
			7556	191.5	193.0	1.5	0.020	n/a
193.3	197.0	METADIORITE (8)						
197.0	205.0	ANDESITE / DACITE (1)						
			7557	197.0	201.0	4.0	0.010	n/a
			7558	201.0	205.0	4.0	0.010	n/a

U8624



N
5000

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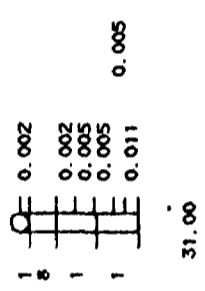
PLAN VIEW

4900

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SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE U8624	
E 3413	AZIMUTH 270
N 1194	DIP 0
Scale 1" = 50'	

Coords: 1194.0N 3413.0E

Golden Shield Resources Ltd.

HOLE NO.: U8624

Page: 1

Azimuth: 270.0

Mirado Project

Dip: 0.0

Elevation: 4761.0

Length: 31.0

Dip Tests

31.00 270.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	2.5	ANDESITE / DACITE (1)	21567	0.0	2.5	2.5	0.002	n/s
2.5	9.5	METADIORITE (8)						
9.5	20.0	ANDESITE / DACITE (1)	21568	9.5	14.5	5.0	0.002	n/s
			21569	14.5	19.5	5.0	0.005	n/s
			21570	19.5	24.5	5.0	0.005	n/s
20.0	31.0	ANDESITE / DACITE (1)	21571	24.5	27.5	3.0	0.005	n/s
			21572	27.5	31.0	3.5	0.010	n/s

Coords: 1194.0N 3413.0E

HOLE NO.: U8625

Azimuth: 264.0

Mirado Project

Rip: 20.0

Elevation: 4761.0

Lensth: 243.0

Rip Tests

243.00 264.0 23.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	lensth (ft)	Au oz	Check oz
0.0	5.0	ANDESITE / DACITE (1)	7626	0.0	4.0	4.0	0.005	n/a
5.0	12.0	METADIORITE (8)						
12.0	53.5	ANDESITE / DACITE (1)	7627	12.0	14.5	2.5	0.005	n/a
			7628	14.5	17.0	2.5	0.010	n/a
			7629	17.0	21.0	4.0	0.430	n/a
			7630	21.0	26.0	5.0	0.010	n/a
			7631	26.0	31.0	5.0	0.005	n/a
			7632	31.0	36.0	5.0	0.005	n/a
			7633	36.0	46.0	10.0	0.002	n/a
			7634	46.0	50.0	4.0	0.005	n/a
			7635	50.0	53.5	3.5	0.002	n/a
53.5	66.0	CHLORIC DYKE (9)						
66.0	243.0	ANDESITE / DACITE (1)						

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7636	66.0	69.0	3.0	0.005	n/a
			7637	69.0	71.5	2.5	0.005	n/a
			3758	73.5	73.8	0.3	63.660	n/a
			7639	75.0	79.0	4.0	0.005	n/a
			7640	79.0	84.0	5.0	0.005	n/a
			7641	84.0	89.0	5.0	0.010	n/a
			7642	89.0	94.0	5.0	0.005	n/a
			7643	94.0	101.0	7.0	0.010	n/a
			7644	101.0	106.0	5.0	0.002	n/a
			7645	106.0	116.0	10.0	0.002	n/a
			7646	116.0	126.0	10.0	0.035	n/a
			7647	126.0	131.0	5.0	0.005	n/a
			7648	131.0	134.0	3.0	0.002	n/a
			7649	134.0	138.5	4.5	0.005	n/a
			7950	138.5	141.0	2.5	0.005	n/a
			7951	141.0	146.0	5.0	0.000	n/a
			7952	146.0	151.0	5.0	0.002	n/a
			7953	151.0	156.0	5.0	0.002	n/a
			7954	156.0	161.0	5.0	0.005	n/a
			7955	161.0	166.0	5.0	0.000	n/a
			7956	166.0	171.0	5.0	0.002	n/a
			7957	171.0	176.0	5.0	0.002	n/a
			7958	176.0	181.0	5.0	0.005	n/a
			7959	181.0	186.0	5.0	0.010	n/a
			7960	186.0	191.5	5.5	0.002	n/a
			7961	191.5	194.5	3.0	0.010	n/a
			7962	195.0	196.5	1.5	0.010	n/a
			7963	196.5	201.5	5.0	0.020	n/a
			7964	201.5	206.5	5.0	0.010	n/a
			7965	206.5	211.5	5.0	0.005	n/a
			7966	211.5	217.0	5.5	0.002	n/a
			7967	217.0	222.0	5.0	0.002	n/a
			7968	222.0	224.5	2.5	0.010	n/a
			7969	224.5	227.0	2.5	0.005	n/a
			7970	227.0	229.5	2.5	0.002	n/a
			7971	229.5	232.0	2.5	0.002	n/a
			7972	232.0	234.5	2.5	0.010	n/a
			7973	234.5	237.5	3.0	0.060	n/a
			7974	237.5	243.0	5.5	0.145	n/a

U8626

1052.00N
3452.00E

N
5000

PLAN VIEW

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242.00

1 2 5 1 2 5 1 3A 11 3A 1

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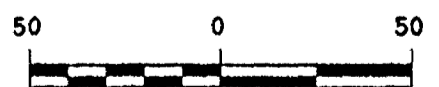
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SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW

HOLE U8626

E 3452
N 1052

AZIMUTH 243
DIP 0

Scale 1" = 50'

Coords: 1052.0N 3452.0E

HOLE NO.: U8626

Azimuth: 243.0

Mirado Project

Dip: 0.0

Elevation: 4761.0

Length: 242.0

Dip Tests

242.00 243.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	23.0	ANDESITE / DACITE (1)	7713	20.0	22.5	2.5	0.005	n/a
			7714	22.5	25.0	2.5	0.015	n/a
23.0	35.0	PYROCLASTIC CONGLOMERATE (2)	7715	25.0	27.5	2.5	0.020	n/a
			7716	27.5	30.0	2.5	0.005	n/a
			7717	30.0	32.5	2.5	0.020	n/a
			7718	32.5	35.0	2.5	0.030	n/a
35.0	45.5	RHYOLITE (+/- MASSIVE) (6)	7719	35.0	37.5	2.5	0.010	n/a
			7720	37.5	40.0	2.5	0.002	n/a
			7721	40.0	45.5	5.5	0.002	n/a
45.5	51.0	ANDESITE / DACITE (1)						
51.0	65.0	PYROCLASTIC CONGLOMERATE (2)	7722	51.0	56.0	5.0	0.005	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7723	56.0	61.0	5.0	0.005	n/a
			7724	61.0	65.0	4.0	0.005	n/a
65.0	76.5	RHYOLITE (+/- MASSIVE) (6)						
			7725	65.0	70.0	5.0	0.005	n/a
			7726	70.0	76.5	6.5	0.005	n/a
76.5	131.0	ANDESITE / DACITE (1)						
			7727	102.0	106.0	4.0	0.002	n/a
131.0	139.5	FELSIC TUFF +/- LAPILLI (3A)						
			7728	131.0	135.5	4.5	0.002	n/a
			7729	135.5	139.5	4.0	0.005	n/a
139.5	150.0	LAMPROPHYRE (11)						
			7730	149.5	154.5	5.0	0.002	n/a
150.0	160.0	FELSIC TUFF +/- LAPILLI (3A)						
			7731	154.5	160.0	5.5	0.050	n/a
160.0	242.0	ANDESITE / DACITE (1)						
			7732	160.0	165.0	5.0	0.005	n/a
			7733	165.0	170.0	5.0	0.020	n/a
			7734	170.0	175.0	5.0	0.005	n/a
			7735	175.0	180.0	5.0	0.002	n/a
			7736	180.0	185.0	5.0	0.010	n/a
			7737	185.0	187.5	2.5	0.010	n/a
			7738	187.5	190.0	2.5	0.002	n/a
			7739	190.0	195.0	5.0	0.005	n/a
			7740	195.0	197.5	2.5	0.005	n/a
			7741	197.5	202.5	5.0	0.005	n/a
			7742	202.5	207.5	5.0	0.010	n/a
			7743	207.5	212.5	5.0	0.005	n/a
			7744	212.5	219.0	6.5	0.002	n/a
			7745	221.0	226.0	5.0	0.002	n/a

Golden Shield Resources Ltd.

Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7746	226.0	231.0	5.0	0.010	n/a
			7747	231.0	237.0	6.0	0.020	n/a
			7748	237.0	242.0	5.0	0.002	n/a

Coords: 1052.0N 3452.0E

Azimuth: 243.0

Mirado Project

Dip: 20.0

Elevation: 4761.0

Length: 241.0

Dip Tests

241.00 243.0 22.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	10.0	METADIORITE (8)						
10.0	30.0	PYROCLASTIC CONGLOMERATE (2)						
			7675	10.0	13.0	3.0	0.005	n/a
			7676	14.5	19.5	5.0	0.125	n/a
			7677	19.5	24.5	5.0	0.030	n/a
			7678	24.5	30.0	5.5	0.020	n/a
30.0	62.5	ANDESITE / DACITE (1)						
			7679	33.5	35.5	2.0	0.010	n/a
62.5	81.5	PYROCLASTIC CONGLOMERATE (2)						
			7680	62.5	67.5	5.0	0.002	n/a
			7681	67.5	70.0	2.5	0.015	n/a
			7682	70.0	75.0	5.0	0.015	n/a
			7683	75.0	81.5	6.5	0.015	n/a
81.5	85.0	METADIORITE (8)						

Golden Shield Resources Ltd.

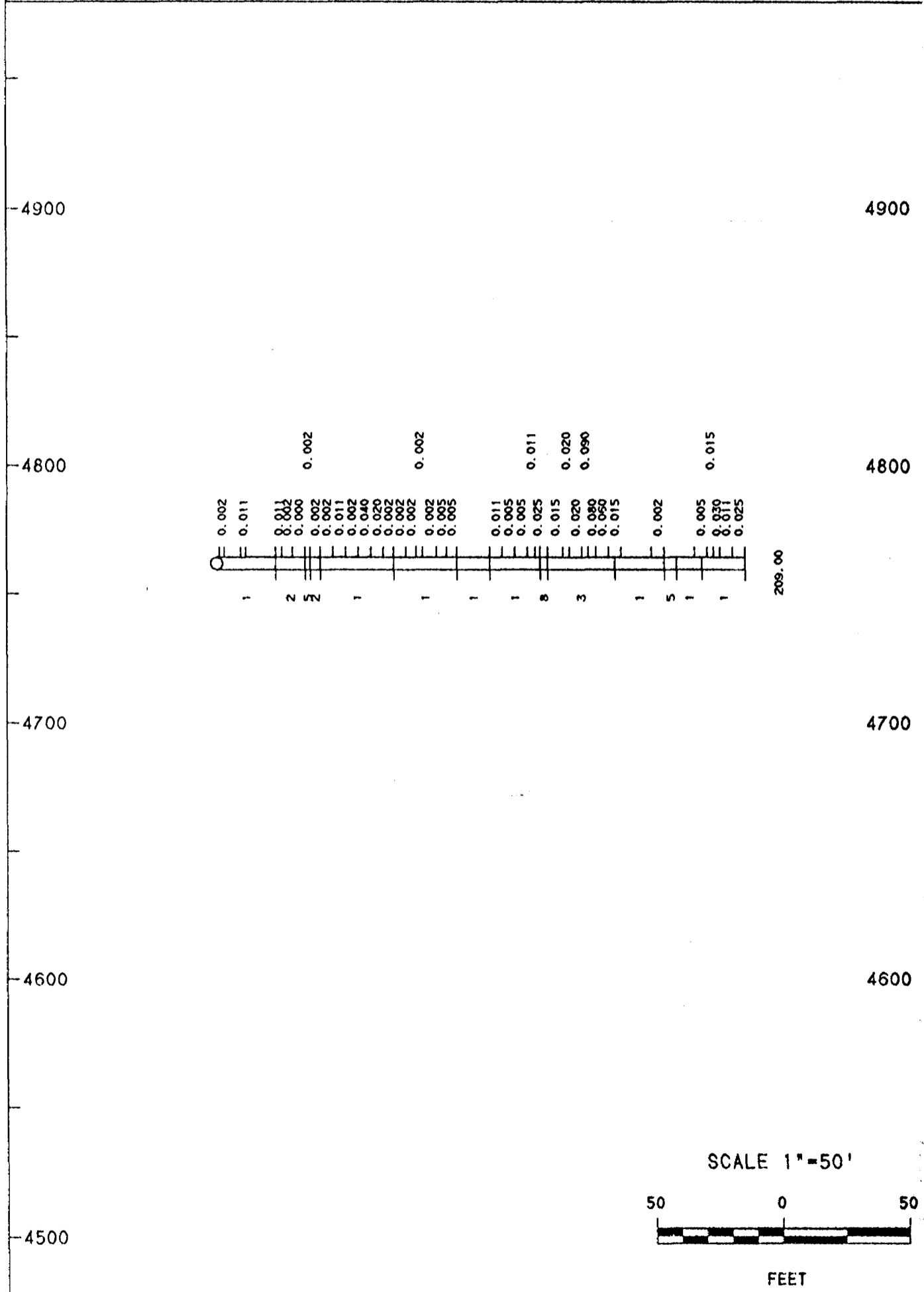
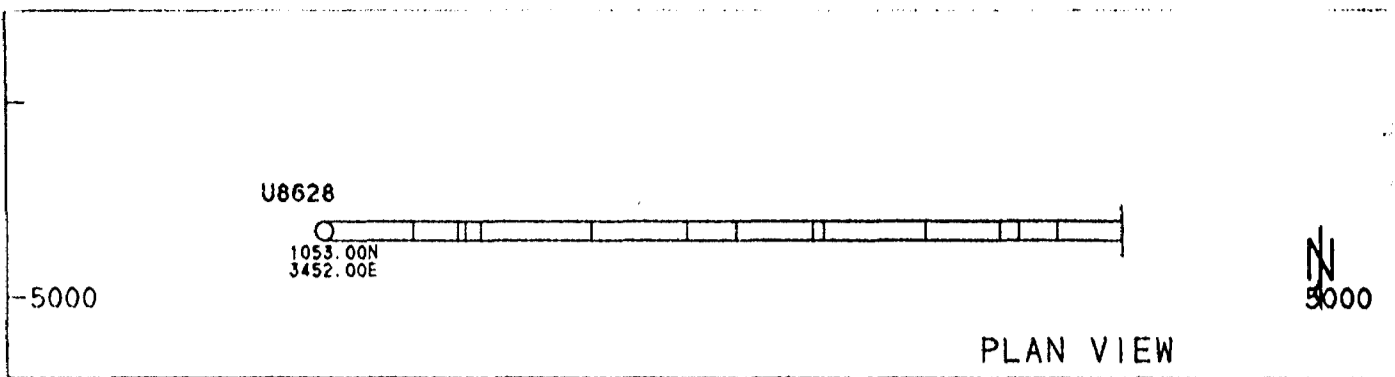
Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
85.0	152.0	FELSIC TUFF WITH PYROCLASTS (3/2)	7684	85.0	90.0	5.0	0.010	n/a
			7685	90.0	95.0	5.0	0.120	n/a
			7686	95.0	98.0	3.0	0.025	n/a
			7687	99.0	104.0	5.0	0.010	n/a
			7688	104.0	109.0	5.0	0.010	n/a
			7689	109.0	114.0	5.0	0.010	n/a
			7690	114.0	119.0	5.0	0.010	n/a
			7691	119.0	124.0	5.0	0.035	n/a
			7692	124.0	129.0	5.0	0.005	n/a
			7693	129.0	131.5	2.5	0.010	n/a
			7694	131.5	134.0	2.5	0.020	n/a
			7695	134.0	139.0	5.0	0.015	n/a
			7696	139.0	144.0	5.0	0.002	n/a
			7697	144.0	149.0	5.0	0.005	n/a
			7698	149.0	152.0	3.0	0.005	n/a
152.0	165.5	LAMPROPHYRE (11)						
165.5	230.5	FELSIC TUFF +/- LAPILLI (3A)	7699	165.5	170.0	4.5	0.005	n/a
			7700	170.0	175.0	5.0	0.002	n/a
			7701	175.0	180.0	5.0	0.005	n/a
			7702	180.0	185.0	5.0	0.002	n/a
			7703	185.0	190.0	5.0	0.002	n/a
			7704	190.0	195.0	5.0	0.002	n/a
			7705	195.0	200.0	5.0	0.000	n/a
			7706	200.0	205.0	5.0	0.000	n/a
			7707	205.0	210.0	5.0	0.000	n/a
			7708	210.0	215.0	5.0	0.002	n/a
			7709	215.0	220.0	5.0	0.020	n/a
			7710	220.0	225.0	5.0	0.000	n/a
			7711	225.0	230.5	5.5	0.002	n/a
230.5	233.0	MAFIC TUFF (5)						

Golden Shield Resources Ltd.

Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
233.0	235.0	FELSIC TUFF +/- LAPILLI (3A)	7712	233.0	235.0	2.0	0.002	n/a
235.0	241.0	MAFIC TUFF +/- LAPILLI (5A)						



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE U8628	
E 3452 N 1053	AZIMUTH 270 DIP 0
Scale 1" = 50'	

Coords: 1053.0N 3452.0E

HOLE NO.: U8628

Azimuth: 270.0

Mirado Project

Dip: 0.0

Elevation: 4761.0

Lensth: 209.0

Dip Tests

209.00 270.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	23.3	ANDESITE / DACITE (1)	7796	1.0	3.0	2.0	0.002	n/a
			7797	9.5	11.5	2.0	0.010	n/a
23.3	35.0	PYROCLASTIC CONGLOMERATE (2)	7798	23.3	25.8	2.5	0.010	n/a
			7799	25.8	30.0	4.2	0.002	n/a
			7800	30.0	35.0	5.0	0.000	n/a
35.0	37.0	MAFIC TUFF (5)	7801	35.0	37.0	2.0	0.002	n/a
37.0	41.0	PYROCLASTIC CONGLOMERATE (2)	7802	37.0	41.0	4.0	0.002	n/a
41.0	70.0	ANDESITE / DACITE (1)	7803	41.0	46.0	5.0	0.002	n/a
			7804	46.0	51.0	5.0	0.010	n/a
			7805	51.0	56.0	5.0	0.002	n/a

Golden Shield Resources Ltd.

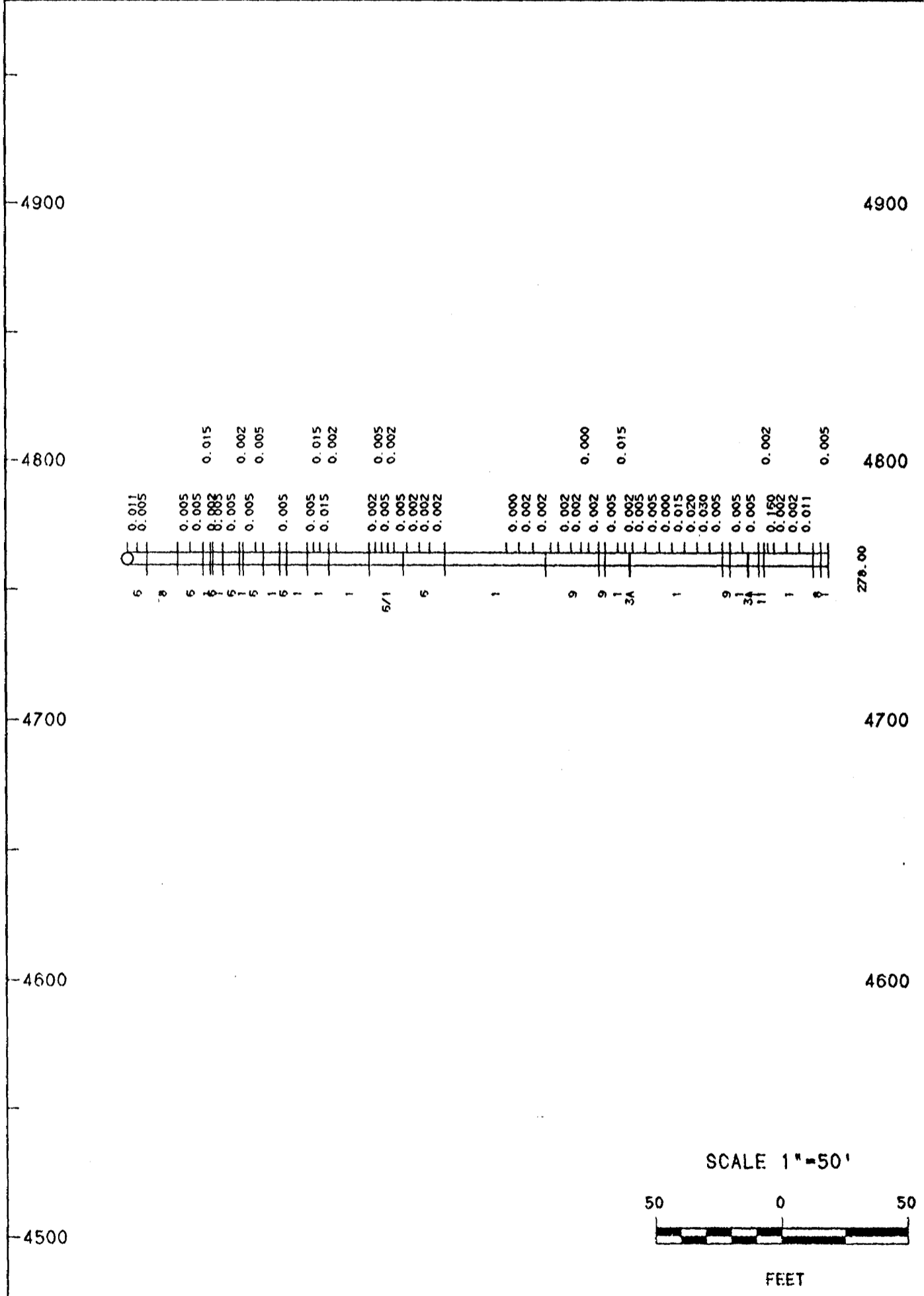
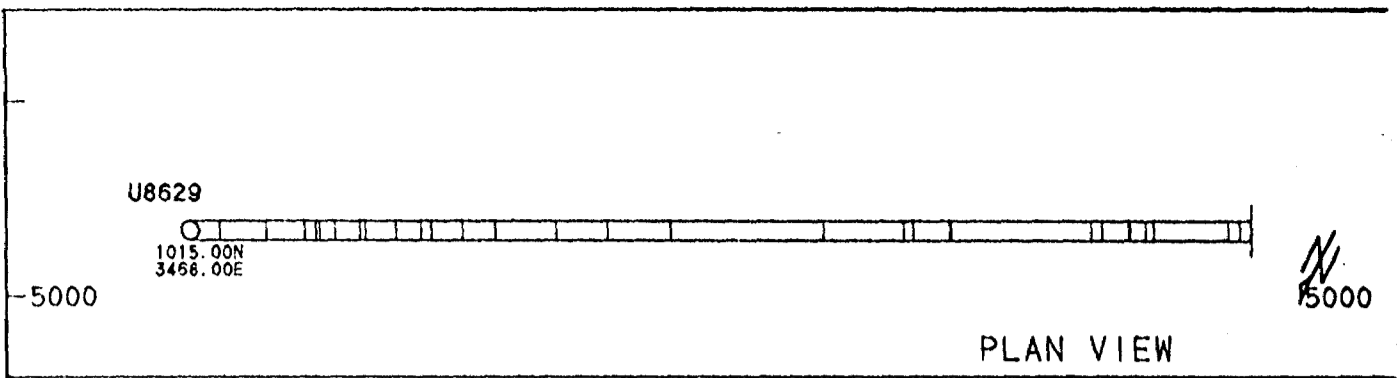
Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7806	56.0	61.0	5.0	0.040	n/a
			7807	61.0	66.0	5.0	0.020	n/a
			7808	66.0	70.0	4.0	0.002	n/a
70.0	95.0	ANDESITE / DACITE (1)						
			7809	70.0	75.0	5.0	0.002	n/a
			7810	75.0	79.0	4.0	0.002	n/a
			7811	79.0	81.5	2.5	0.002	n/a
			7812	81.5	87.0	5.5	0.002	n/a
			7813	87.0	91.0	4.0	0.005	n/a
			7814	91.0	95.0	4.0	0.005	n/a
95.0	108.0	ANDESITE / DACITE (1)						
108.0	128.0	ANDESITE / DACITE (1)						
			7815	108.0	113.0	5.0	0.010	n/a
			7816	113.0	118.0	5.0	0.005	n/a
			7817	118.0	123.0	5.0	0.005	n/a
			7818	123.0	126.0	3.0	0.010	n/a
			7819	126.0	128.0	2.0	0.025	n/a
128.0	131.0	METADIORITE (8)						
131.0	157.5	FELSIC TUFF (3)						
			7820	131.0	137.0	6.0	0.015	n/a
			7821	137.0	139.5	2.5	0.020	n/a
			7822	139.5	144.5	5.0	0.020	n/a
			7823	144.5	147.0	2.5	0.090	n/a
			7824	147.0	150.0	3.0	0.080	n/a
			7825	150.0	155.0	5.0	0.060	n/a
			7826	155.0	160.0	5.0	0.015	n/a
157.5	177.0	ANDESITE / DACITE (1)						
			7827	172.0	177.0	5.0	0.002	n/a

Golden Shield Resources Ltd.

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from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
177.0	182.0	MAFIC TUFF (5)						
182.0	192.0	ANDESITE / DACITE (1)	7828	189.0	194.0	5.0	0.005	n/a
192.0	209.0	ANDESITE / DACITE (1)	7829	194.0	196.5	2.5	0.015	n/a
			7830	196.5	199.0	2.5	0.030	n/a
			7831	199.0	204.0	5.0	0.010	n/a
			7832	204.0	209.0	5.0	0.025	n/a



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE U8629	
E 3466 N 1015	AZIMUTH 243 DIP 0
Scale 1" = 50'	

Coords: 1015.0N 3468.0E
 Azimuth: 243.0
 Dip: 0.0
 Elevation: 4761.0
 Length: 278.0

Mirado Project

Dip Tests

278.00 243.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	7.8	RHYOLITE (+/- MASSIVE) (6)	7833	0.0	4.0	4.0	0.010	n/a
			7834	4.0	7.8	3.8	0.005	n/a
7.8	20.0	METADIORITE (8)						
20.0	30.0	RHYOLITE (+/- MASSIVE) (6)	7835	20.0	25.0	5.0	0.005	n/a
			7836	25.0	30.2	5.2	0.005	n/a
30.0	33.0	ANDESITE / DACITE (1)	7837	30.2	33.0	2.8	0.015	n/a
33.0	34.0	RHYOLITE (+/- MASSIVE) (6)	7838	33.0	34.0	1.0	0.002	n/a
34.0	38.0	ANDESITE / DACITE (1)	7839	34.0	38.0	4.0	0.005	n/a

Golden Shield Resources Ltd.

Page: 2

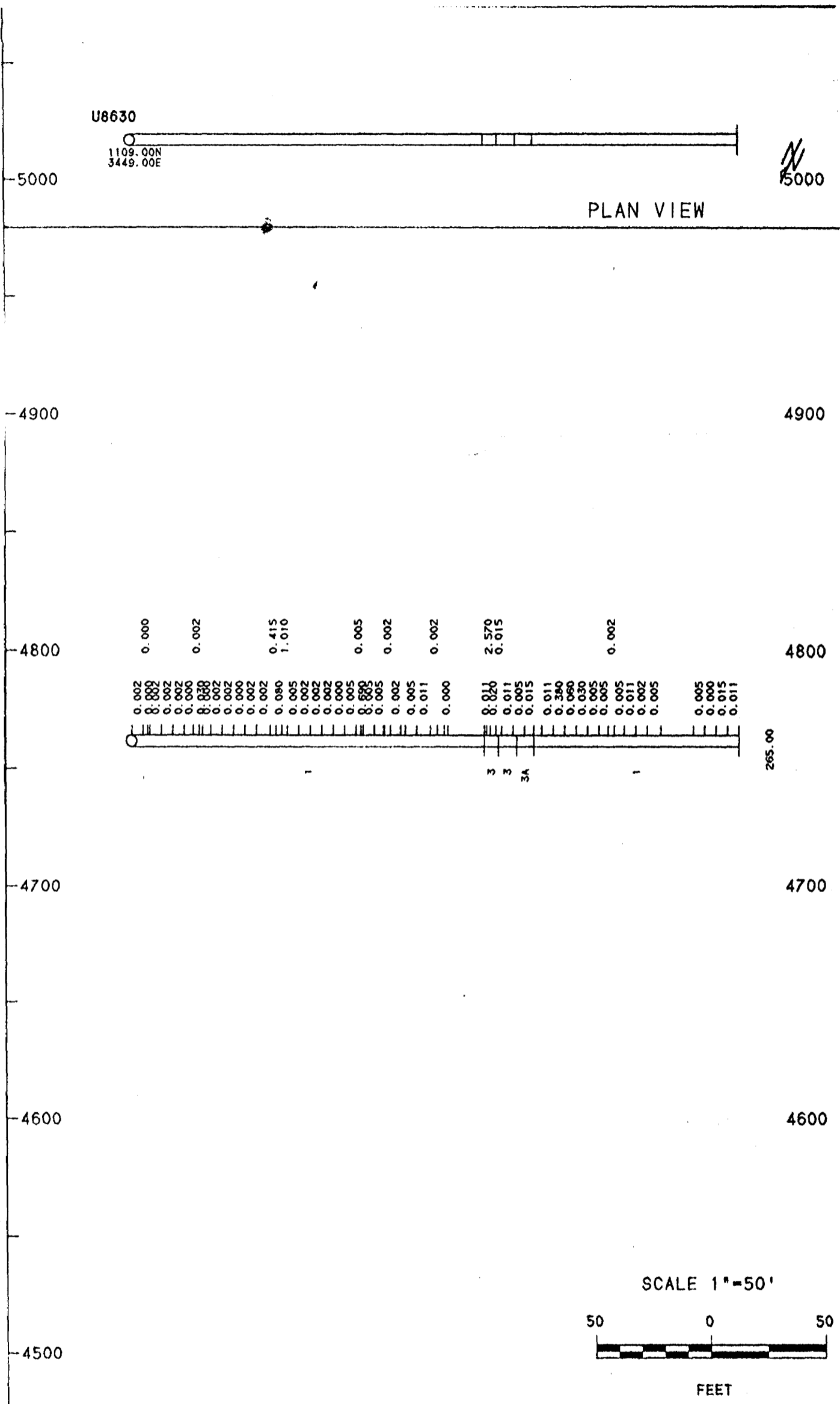
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
38.0	44.5	RHYOLITE (+/- MASSIVE) (6)	7840	38.0	44.5	6.5	0.005	n/a
44.5	46.0	ANDESITE / DACITE (1)	7841	44.5	46.0	1.5	0.002	n/a
46.0	54.0	RHYOLITE (+/- MASSIVE) (6)	7842 7843	46.0 51.0	51.0 54.0	5.0 3.0	0.005 0.005	n/a n/a
54.0	60.5	ANDESITE / DACITE (1)						
60.5	63.3	RHYOLITE (+/- MASSIVE) (6)	7844	60.5	63.3	2.8	0.005	n/a
63.3	71.5	ANDESITE / DACITE (1)						
71.5	80.0	ANDESITE / DACITE (1)	7845 7846 7847	71.5 74.0 76.5	74.0 76.5 80.0	2.5 2.5 3.5	0.005 0.015 0.015	n/a n/a n/a
80.0	96.0	ANDESITE / DACITE (1)	7848	80.0	83.0	3.0	0.002	n/a
96.0	109.5	RHYOLITE (+/- MASSIVE) / ANDESITE / DACITE (6/1)	7849 7850 7851 7852 7853	96.0 98.5 101.0 103.5 106.0	98.5 101.0 103.5 106.0 111.0	2.5 2.5 2.5 2.5 5.0	0.002 0.005 0.005 0.002 0.005	n/a n/a n/a n/a n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
109.5	126.0	RHYOLITE (+/- MASSIVE) (6)	7854	111.0	116.0	5.0	0.002	n/a
			7855	116.0	120.0	4.0	0.002	n/a
			7856	120.0	126.0	6.0	0.002	n/a
126.0	166.0	ANDESITE / DACITE (1)	7857	150.5	155.5	5.0	0.000	n/a
			7858	155.5	161.0	5.5	0.002	n/a
			7859	161.0	168.0	7.0	0.002	n/a
166.0	187.0	CHLORIC DYKE (9)	7860	171.0	176.0	5.0	0.002	n/a
			7861	176.0	180.0	4.0	0.002	n/a
			7862	180.0	183.0	3.0	0.000	n/a
			7863	183.0	187.0	4.0	0.002	n/a
187.0	189.5	CHLORIC DYKE (9)						
189.5	199.0	ANDESITE / DACITE (1)	7864	189.5	194.5	5.0	0.005	n/a
			7865	194.5	197.5	3.0	0.015	n/a
			7866	197.5	200.5	3.0	0.002	n/a
199.0	199.5	FELSIC TUFF +/- LAPILLI (3A)						
199.5	236.0	ANDESITE / DACITE (1)	7867	200.5	205.5	5.0	0.005	n/a
			7868	205.5	211.0	5.5	0.005	n/a
			7869	211.0	216.0	5.0	0.000	n/a
			7870	216.0	221.0	5.0	0.015	n/a
			7871	221.0	226.0	5.0	0.020	n/a
			7872	226.0	231.0	5.0	0.030	n/a
			7873	231.0	236.0	5.0	0.005	n/a

Golden Shield Resources Ltd.

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from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
236.0	239.0	CHLORIC DYKE (9)						
239.0	246.0	ANDESITE / DACITE (1)						
			7874	239.0	244.0	5.0	0.005	n/a
			7875	244.0	250.4	6.4	0.005	n/a
246.0	246.4	FELSIC TUFF +/- LAPILLI (3A)						
246.4	250.4	ANDESITE / DACITE (1)						
250.4	252.5	LAMPROPHYRE (11)						
252.5	272.0	ANDESITE / DACITE (1)						
			7876	252.5	254.0	1.5	0.002	n/a
			7877	254.0	256.5	2.5	0.160	n/a
			7878	256.5	261.5	5.0	0.002	n/a
			7879	261.5	266.5	5.0	0.002	n/a
			7880	266.5	272.0	5.5	0.010	n/a
272.0	275.0	METADIORITE (8)						
275.0	278.0	ANDESITE / DACITE (1)						
			7881	275.0	278.0	3.0	0.005	n/a



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE U8630	
E 3449	AZIMUTH 243
N 1109	DIP 0
Scale 1" = 50'	

Coords: 1109.0N 3449.0E

HOLE NO.: U8630

Azimuth: 243.0

Mirado Project

Dip: 0.0

Elevation: 4761.0

Length: 265.0

Dip Tests

265.00 243.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	153.8	ANDESITE / DACITE (1)						
			7887	0.0	5.0	5.0	0.002	n/a
			7888A	5.0	7.0	2.0	0.000	n/a
			7888B	7.0	8.0	1.0	0.000	n/a
			7889	8.0	13.0	5.0	0.002	n/a
			7890	13.0	18.0	5.0	0.002	n/a
			7891	18.0	23.0	5.0	0.002	n/a
			7892	23.0	27.0	4.0	0.000	n/a
			7893	27.0	29.5	2.5	0.002	n/a
			7894	29.5	31.0	1.5	0.030	n/a
			7895	31.0	34.5	3.5	0.000	n/a
			7896	34.5	39.5	5.0	0.002	n/a
			7897	39.5	44.5	5.0	0.002	n/a
			7898	44.5	49.5	5.0	0.000	n/a
			7899	49.5	54.5	5.0	0.002	n/a
			7900	54.5	60.5	6.0	0.002	n/a
			7901	60.5	63.0	2.5	0.415	n/a
			7902	63.0	65.5	2.5	0.080	n/a
			7903	65.5	68.0	2.5	1.010	n/a
			7904	68.0	73.0	5.0	0.005	n/a
			7905	73.0	78.0	5.0	0.002	n/a
			7906	78.0	83.0	5.0	0.002	n/a
			7907	83.0	88.0	5.0	0.002	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7908	88.0	93.0	5.0	0.000	n/a
			7909	93.0	98.0	5.0	0.005	n/a
			7910	98.0	100.0	2.0	0.005	n/a
			21214	100.0	101.0	1.0	0.690	n/a
			7911	101.0	106.0	5.0	0.005	n/a
			7912	106.0	110.0	4.0	0.005	n/a
			7913	110.5	113.0	2.5	0.002	n/a
			7914	113.0	117.5	4.5	0.002	n/a
			7915	119.5	124.5	5.0	0.005	n/a
			7916	124.5	130.5	6.0	0.010	n/a
			7917	130.5	133.5	3.0	0.002	n/a
			7918	136.5	138.0	1.5	0.000	n/a
153.8	160.0	FELSIC TUFF (3)						
			7919	154.0	155.0	1.0	0.010	n/a
			21215	155.0	156.5	1.5	2.570	n/a
			7920	156.5	159.0	2.5	0.020	n/a
			7921	159.0	161.5	2.5	0.015	n/a
160.0	168.0	FELSIC TUFF (3)						
			7922	161.5	166.5	5.0	0.010	n/a
			7923	166.5	171.5	5.0	0.005	n/a
168.0	175.5	FELSIC TUFF +/- LAPILLI (3A)						
			7924	171.5	175.5	4.0	0.015	n/a
175.5	265.0	ANDESITE / DACITE (1)						
			7925	179.0	184.0	5.0	0.010	n/a
			7926	184.0	189.0	5.0	0.380	n/a
			7927	189.0	194.0	5.0	0.060	n/a
			7928	194.0	199.0	5.0	0.030	n/a
			7929	199.0	204.0	5.0	0.005	n/a
			7930	204.0	208.0	4.0	0.005	n/a
			7931	208.0	210.7	2.7	0.002	n/a
			7932	210.7	215.0	4.3	0.005	n/a
			7933	215.0	220.0	5.0	0.010	n/a
			7938	220.0	225.0	5.0	0.002	n/a

Golden Shield Resources Ltd.

Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7939	225.0	231.0	6.0	0.005	n/a
			7940	245.0	250.0	5.0	0.005	n/a
			7941	250.0	255.0	5.0	0.000	n/a
			7942	255.0	260.0	5.0	0.015	n/a
			7943	260.0	265.0	5.0	0.010	n/a

U8631

1103.00N
3548.00E



PLAN VIEW

5000

5000

4900

4900

4800

4800

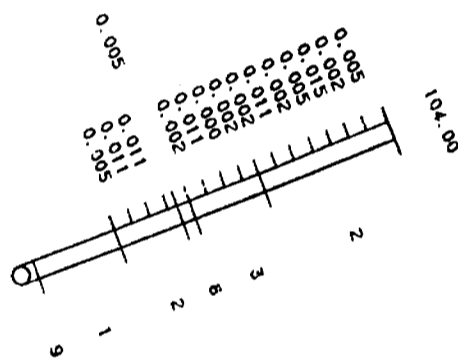
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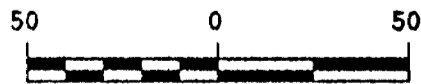
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4600

4500



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE U8631

E 3548
N 1103

AZIMUTH 235
DIP 20

Scale 1" = 50'

Coords: 1103.0N 3548.0E

HOLE NO.: U8631

Azimuth: 235.0

Mirado Project

Dip: 20.0

Elevation: 4761.0

Length: 104.0

Dip Tests

104.00 235.0 22.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	4.0	CHLORIC DYKE (9)						
4.0	27.0	ANDESITE / DACITE (1)						
27.0	44.5	PYROCLASTIC CONGLOMERATE (2)						
			7934	27.0	32.0	5.0	0.005	n/a
			7935	32.0	37.0	5.0	0.010	n/a
			7936	37.0	42.0	5.0	0.010	n/a
			7937	42.0	44.5	2.5	0.005	n/a
44.5	48.0	METADIORITE (8)						
48.0	67.5	FELSIC TUFF (3)						
			7944	48.0	53.0	5.0	0.002	n/a
			7945	53.0	58.0	5.0	0.010	n/a
			7946	58.0	63.0	5.0	0.000	n/a
			7947	63.0	67.5	4.5	0.002	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
67.5	104.0	PYROCLASTIC CONGLOMERATE (2)						
			7948	67.5	72.5	5.0	0.002	n/a
			7949	72.5	77.5	5.0	0.010	n/a
			7950	77.5	83.0	5.5	0.002	n/a
			7951	83.0	88.0	5.0	0.005	n/a
			7952	88.0	93.0	5.0	0.015	n/a
			7953	93.0	98.0	5.0	0.002	n/a
			7954	98.0	104.0	6.0	0.005	n/a

U8632

1155.00N
3525.00E

PLAN VIEW

-5000

5000

-4900

4900

-4800

4800

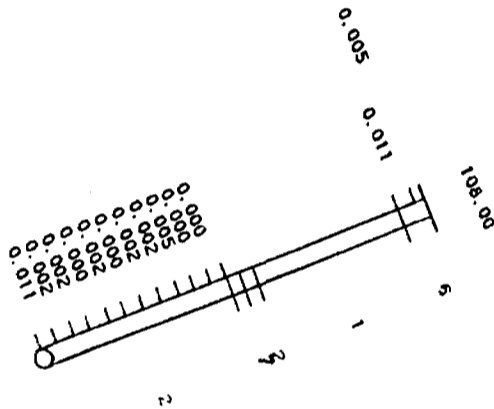
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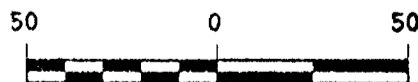
-4600

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-4500



SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE U8632	
E 3525	AZIMUTH 235
N 1155	DIP 20
Scale 1" = 50'	

Coords: 1155.0N 3525.0E

HOLE NO.: U8632

Azimuth: 235.0

Mirado Project

Dip: 20.0

Elevation: 4761.0

Length: 108.0

Dip Tests

108.00 235.0 22.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	52.2	52.2 PYROCLASTIC CONGLOMERATE (2)	7955	0.0	4.5	4.5	0.010	n/a
			7956	4.5	9.5	5.0	0.002	n/a
			7957	9.5	14.0	4.5	0.002	n/a
			7958	14.0	19.5	5.5	0.000	n/a
			7959	19.5	24.0	4.5	0.002	n/a
			7960	24.0	29.0	5.0	0.000	n/a
			7961	29.0	34.0	5.0	0.002	n/a
			7962	34.0	39.0	5.0	0.002	n/a
			7963	39.0	43.2	4.2	0.005	n/a
			7964	43.2	47.8	4.6	0.000	n/a
			7965	47.8	52.0	4.2	0.000	n/a
52.2	55.7	55.7 QUARTZ-FELDSPAR PORPHYRY (7)						
55.7	59.5	59.5 PYROCLASTIC CONGLOMERATE (2)						
59.5	100.5	100.5 ANDESITE / DACITE (1)						

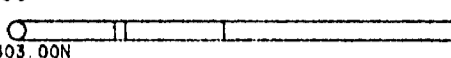
Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
100.5	108.0	RHYOLITE (+/- MASSIVE) (6)	7966	100.5	105.3	4.8	0.010	n/a
			7967	105.3	108.0	2.7	0.005	n/a

U8633

1303.00N
3308.00E



N
5000

PLAN VIEW

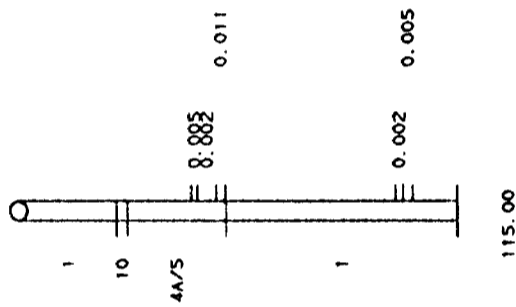
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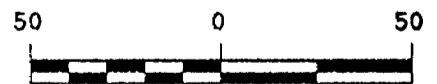
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SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE U8633	
E 3308 N 1303	AZIMUTH 225 DIP 0
Scale 1" = 50'	

Golden Shield Resources Ltd.

HOLE NO.: US633

Page: 1

Coords: 1303.0N 3308.0E

Azimuth: 225.0

Mirado Project

Dip: 0.0

Elevation: 4761.0

Length: 115.0

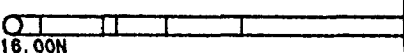
Dip Tests

115.00 225.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	25.6	ANDESITE / DACITE (1)						
25.6	28.5	SYENITE (10)						
28.5	54.2	INTERMEDIATE TO MAFIC TUFF +/- LAPILLI (4A/5)						
			7882	45.2	46.8	1.6	0.005	n/a
			7883	46.8	51.7	4.9	0.002	n/a
			7884	51.7	54.1	2.4	0.010	n/a
54.2	115.0	ANDESITE / DACITE (1)						
			7885	98.7	100.7	2.0	0.002	n/a
			7886	100.7	103.3	2.6	0.005	n/a

U250-34

1016.00N
3474.00E



PLAN VIEW

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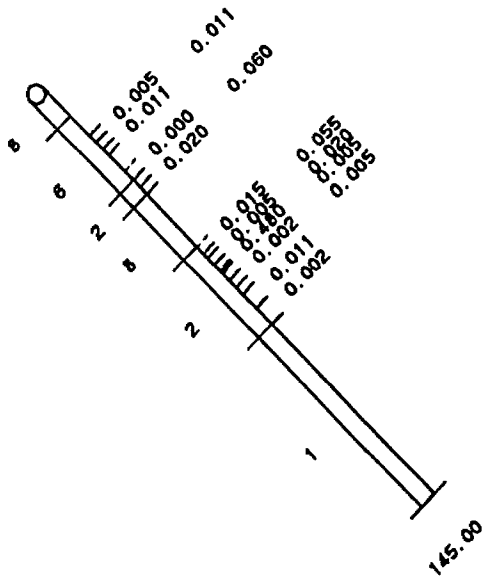
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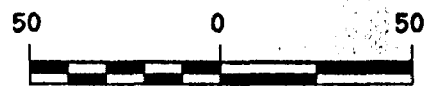
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SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE U250-34

E 3474
N 1016

AZIMUTH 76
DIP -45

Scale 1" = 50'

Coords: 1016.0N 3474.0E
 Azimuth: 76.0
 Dip: -45.0
 Elevation: 4760.0
 Length: 145.0

HOLE NO.: U250-34

Mirado Project

Dip Tests

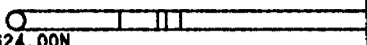
145.00 76.0 -45.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	10.3	METADIORITE (8) Dark green with chloritic fragments, high carbonate content lower contact.						
10.3	33.5	RHYOLITE (+/- MASSIVE) (6) A light green/grey siliceous unit with 'ghostlike' chloritic fragments throughout, quartz/carbonate stringers appear randomly 2-4% disseminated pyrite gradational contact.	30022 30023 30024 30025	17.3 19.8 22.3 30.2	19.8 22.3 24.3 33.5	2.5 2.5 2.0 3.3	0.005 0.010 0.010 0.000	n/a n/a n/a n/a
33.5	38.5	PYROCLASTIC CONGLOMERATE (2) Mottled conglomerate fragments (light green alteration on dark green chloritic fragments) in a siliceous light green matrix 3-5% fine to medium disseminated pyrite sharp irregular lower contact.	30026 30027	33.5 36.0	36.0 38.5	2.5 2.5	0.060 0.020	n/a n/a
38.5	57.0	METADIORITE (8) Same as 0.00 to 10.3 lower contact.						

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
57.0	84.8	PYROCLASTIC CONGLOMERATE (2) Same as 10.3 to 33.5 but fragments are more 'pronounced' and minor appearances of chalcocopyrite randomly occur in small clots and narrow seams -- @65.7 to 65.9 a 2.0 ins wide section with Qtz/carb seams and clots, 5-7% pyrite, minor chalcocopyrite -- @82.7 to 83.0 fault -- mylonite (fault, souze) subtle contact.	30028 30029 30030 30031 30032 30033 30034 30035 30036 30037	57.0 59.5 61.0 63.5 65.5 66.5 69.0 71.5 74.0 79.0	59.5 61.0 63.5 65.5 66.0 69.0 71.5 74.0 79.0 84.8	2.5 1.5 2.5 2.0 0.5 2.5 2.5 2.5 5.0 5.8	0.015 0.055 0.005 0.020 0.480 0.005 0.005 0.005 0.010 0.002	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a
84.8	145.0	ANDESITE / DACITE (1) Light green/grey fine grained matrix with small chloritic flecks 1-2% disseminated pyrite (fine to medium, euhedral) -- @138.0 to 145.0 unit becomes more 'dacitic looking'.						

U2-35

624.00N
3269.00E



PLAN VIEW

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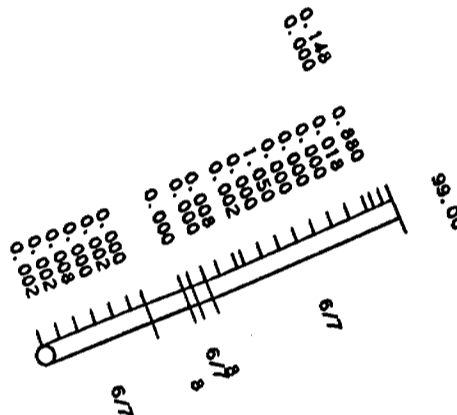
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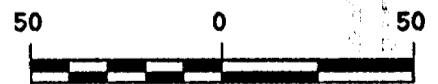
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SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE U2-35

E 3269
N 624

AZIMUTH 76
DIP 20

Scale 1" = 50'

Coords: 624.0N 3269.0E

HOLE NO.: U2-35

Azimuth: 76.0 Mirado Project

Dip: 20.0

Elevation: 4760.0

Length: 99.0

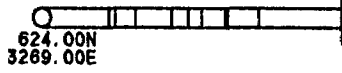
Rip Tests

99.00 76.0 24.0

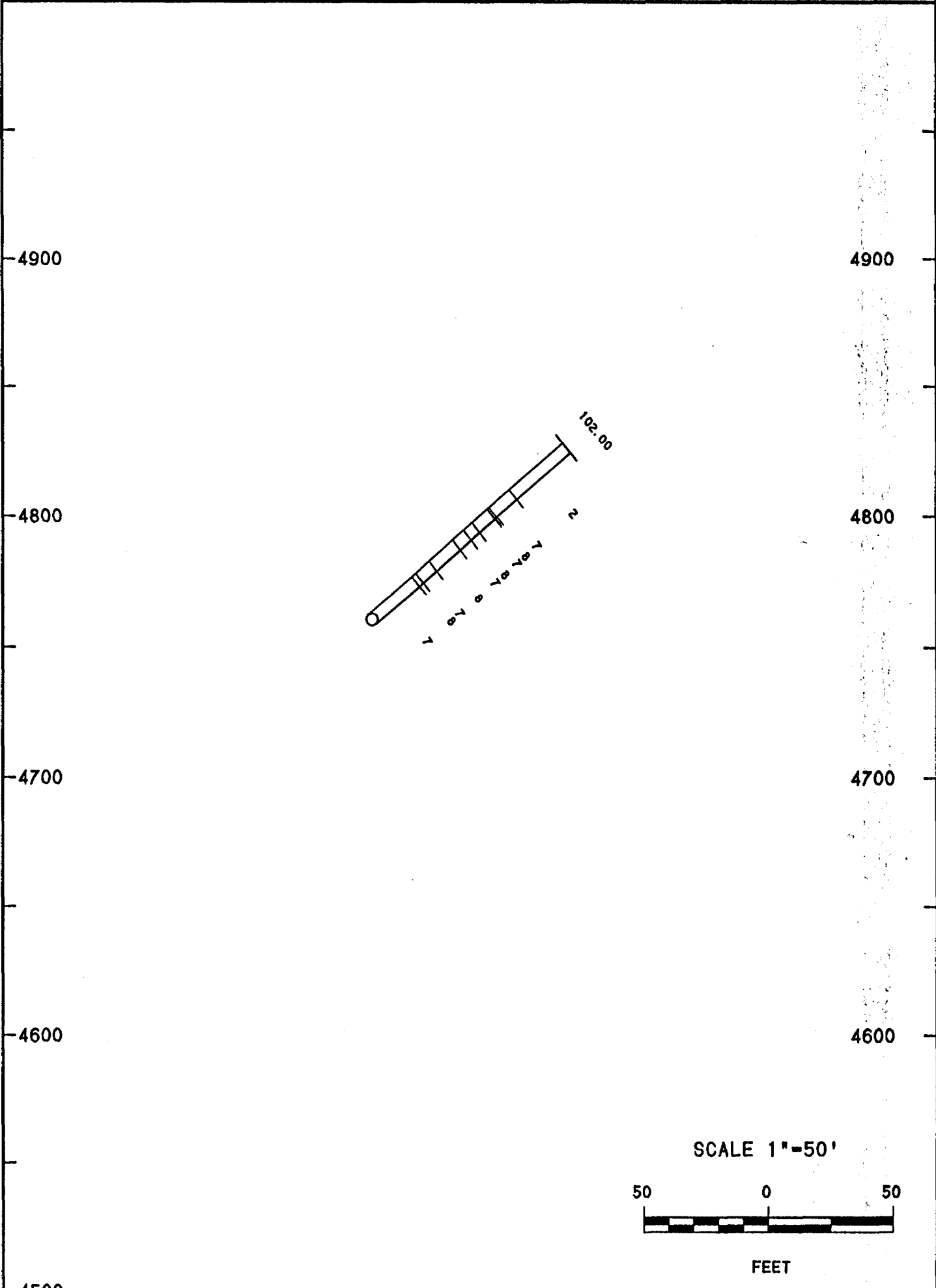
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	29.0	RHYOLITE (+/- MASSIVE) / QUARTZ-FELDSPAR PORPHYRY (6/7)	33704	0.0	5.0	5.0	0.002	n/a
			33705	5.0	10.0	5.0	0.002	n/a
			33706	10.0	15.0	5.0	0.008	n/a
			33707	15.0	20.0	5.0	0.000	n/a
			33708	20.0	25.0	5.0	0.002	n/a
			33709	25.0	29.0	4.0	0.000	n/a
29.0	39.6	METADIORITE (8)						
39.6	42.0	RHYOLITE (+/- MASSIVE) / QUARTZ-FELDSPAR PORPHYRY (6/7)	33710	39.6	42.0	2.4	0.000	n/a
42.0	46.0	METADIORITE (8)						
46.0	99.0	RHYOLITE (+/- MASSIVE) / QUARTZ-FELDSPAR PORPHYRY (6/7)	33711	46.0	50.0	4.0	0.000	n/a
			33712	50.0	55.0	5.0	0.008	n/a
			33713	57.0	62.0	5.0	0.002	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			33714	62.0	67.0	5.0	0.000	n/a
			33715	67.0	72.0	5.0	1.050	n/a
			33716	72.0	77.0	5.0	0.000	n/a
			33717	77.0	82.0	5.0	0.000	n/a
			33718	82.0	87.0	5.0	0.000	n/a
			33719	87.0	92.0	5.0	0.018	n/a
			33720	92.0	94.0	2.0	0.000	n/a
			33721	94.0	96.5	2.5	0.880	n/a
			33722	96.5	99.0	2.5	0.148	n/a

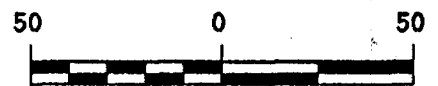
U2-36



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE U2-36

E 3269
N 624

AZIMUTH 76
DIP 40

Scale 1" = 50'

Coords: 624.0N 3269.0E
 Azimuth: 76.0
 Dip: 40.0
 Elevation: 4760.0
 Length: 102.0

Mirado Project

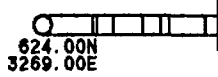
Rip Tests

102.00 76.0 40.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	23.0	QUARTZ-FELDSPAR PORPHYRY (7)						
23.0	25.0	METADIORITE (8)						
25.0	32.0	QUARTZ-FELDSPAR PORPHYRY (7)						
32.0	44.3	METADIORITE (8)						
44.3	50.0	QUARTZ-FELDSPAR PORPHYRY (7)						
50.0	54.4	METADIORITE (8)						
54.4	62.5	QUARTZ-FELDSPAR PORPHYRY (7)						
62.5	63.5	METADIORITE (8)						

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
63.5	74.0	QUARTZ-FELDSPAR PORPHYRY (7)						
74.0	102.0	PYROCLASTIC CONGLOMERATE (2)						

U2-37



PLAN VIEW

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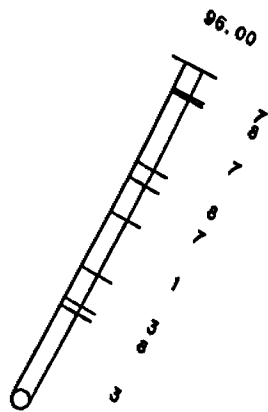
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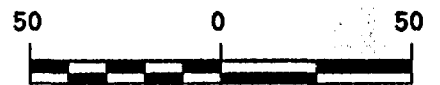
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SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE U2-37

E 3269
N 624

AZIMUTH 76
DIP 60

Scale 1" = 50'

Coords: 624.0N 3269.0E
 Azimuth: 76.0
 Dip: 60.0
 Elevation: 4760.0
 Lensth: 96.0

HOLE NO.: U2-37

Mirado Project

Dip Tests

96.00 76.0 63.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	26.3	FELSIC TUFF (3)						
26.3	28.5	METADIORITE (8)						
28.5	37.5	FELSIC TUFF (3)						
37.5	53.5	ANDESITE / DACITE (1)						
53.5	63.5	QUARTZ-FELDSPAR PORPHYRY (7)						
63.5	68.0	METADIORITE (8)						
68.0	88.0	QUARTZ-FELDSPAR PORPHYRY (7)						
88.0	88.9	METADIORITE (8)						

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
88.9	96.0	QUARTZ-FELDSPAR PORPHYRY (7)						

U2-38

1017.00N
3474.00E



PLAN VIEW

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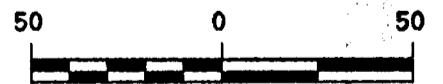
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SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW

HOLE U2-38

E 3474
N 1017

AZIMUTH 76
DIP -20

Scale 1" = 50'

Coords: 1017.0N 3474.0E
 Azimuth: 76.0
 Dip: -20.0
 Elevation: 4760.0
 Length: 157.0

HOLE NO.: U2-38

Mirado Project

Dip Tests

157.00 76.0 -22.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	3.8	RHYOLITE (+/- MASSIVE) / QUARTZ-FELDSPAR PORPHYRY (6/7)	43451	0.0	3.8	3.8	0.122	n/a
3.8	7.0	METADIORITE (8)	43452	3.8	7.0	3.2	0.024	n/a
7.0	43.5	RHYOLITE (+/- MASSIVE) / QUARTZ-FELDSPAR PORPHYRY (6/7)	43453	7.0	12.6	5.6	0.012	n/a
			43454	12.6	14.6	2.0	0.030	n/a
			43456	14.6	20.2	5.6	0.002	n/a
			43457	20.2	25.2	5.0	0.028	n/a
			43458	25.2	28.6	3.4	0.018	n/a
			43459	28.6	33.6	5.0	0.002	n/a
			43460	33.6	38.6	5.0	0.002	n/a
			43461	38.6	43.5	4.9	0.002	n/a
43.5	53.0	METADIORITE (8)						
53.0	78.0	PYROCLASTIC CONGLOMERATE (2)						

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			43462	53.0	54.0	1.0	0.006	n/a
			43463	54.0	59.0	5.0	0.010	n/a
			43464	59.0	64.0	5.0	0.228	n/a
			43465	64.0	69.0	5.0	0.000	n/a
			43466	69.0	74.0	5.0	0.008	n/a
			43467	74.0	78.0	4.0	0.014	n/a
78.0	106.3	METADIORITE (8)						
			43468	78.0	81.0	3.0	0.002	n/a
106.3	155.0	RHYOLITE (+/- MASSIVE) (6)						
			43469	113.0	118.0	5.0	0.000	n/a
			43470	118.0	123.0	5.0	0.002	n/a
			43471	123.0	128.0	5.0	0.002	n/a
			43472	128.0	132.5	4.5	0.002	n/a
			43473	145.0	150.0	5.0	0.014	n/a
			43474	150.0	155.0	5.0	0.114	n/a
155.0	157.0	SYENITE (10)						

Coords: 1016.0N 3474.0E
 Azimuth: 98.0
 Dip: -20.0
 Elevation: 4760.0
 Length: 152.0

Mirado Project

Dip Tests

152.00 98.0 -20.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	44.5	RHYOLITE (+/- MASSIVE) / QUARTZ-FELDSPAR PORPHYRY (6/7)	43475	0.0	5.0	5.0	0.002	n/a
			43476	5.0	10.0	5.0	0.008	n/a
			43477	10.0	12.5	2.5	0.024	n/a
			43478	12.5	14.3	1.8	0.026	n/a
			43479	14.3	18.7	4.4	0.000	n/a
			43480	18.7	23.7	5.0	0.034	n/a
			43481	23.7	30.0	6.3	0.010	n/a
			43482	30.0	35.0	5.0	0.002	n/a
			43483	35.0	40.0	5.0	0.000	n/a
			43484	40.0	44.5	4.5	0.008	n/a
44.5	67.6	METADIORITE (8)						
67.6	74.0	PYROCLASTIC CONGLOMERATE (2)	43485	67.6	70.0	2.4	0.002	n/a
			43486	70.0	74.0	4.0	0.000	n/a
74.0	89.5	METADIORITE (8)						

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
89.5	152.0	RHYOLITE (+/- MASSIVE) / QUARTZ-FELDSPAR PORPHYRY (6/7)						
			43487	89.5	94.5	5.0	0.002	n/a
			43488	94.5	99.5	5.0	0.000	n/a
			43489	99.5	104.5	5.0	0.002	n/a
			43490	104.5	107.0	2.5	0.008	n/a
			43491	107.0	109.5	2.5	0.020	n/a
			43492	109.5	114.5	5.0	0.000	n/a
			43493	114.5	118.0	3.5	0.018	n/a
			43494	118.0	123.0	5.0	0.002	n/a
			43495	123.0	127.0	4.0	0.002	n/a
			43496	127.0	132.0	5.0	0.000	n/a
			43497	132.0	137.0	5.0	0.000	n/a
			43498	137.0	142.0	5.0	0.000	n/a
			43499	142.0	147.0	5.0	0.010	n/a
			43500	147.0	152.0	5.0	0.002	n/a

Coords: 1051.0N 3467.0E

HOLE NO.: U86-40

Azimuth: 76.0

Mirado Project

Dip: -20.0

Elevation: 4760.0

Lensth: 150.0

Dip Tests

150.00 76.0 -20.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	2.0	PYROCLASTIC CONGLOMERATE (2)	43401	0.0	2.0	2.0	0.142	n/a
2.0	12.0	METADIORITE (8)	43402	2.0	7.0	5.0	0.002	n/a
			43403	7.0	12.0	5.0	0.002	n/a
12.0	36.0	RHYOLITE (+/- MASSIVE) / QUARTZ-FELDSPAR PORPHYRY (6/7)	43404	12.0	17.0	5.0	0.012	n/a
			43405	17.0	22.0	5.0	0.002	n/a
			43406	22.0	27.0	5.0	0.002	n/a
			43407	27.0	32.0	5.0	0.010	n/a
			43408	32.0	34.5	2.5	0.000	n/a
			43409	34.5	37.0	2.5	0.008	n/a
36.0	76.0	PYROCLASTIC CONGLOMERATE (2)	43410	37.0	42.0	5.0	0.002	n/a
			43411	42.0	47.0	5.0	0.000	n/a
			43412	47.0	52.0	5.0	0.054	n/a
			43413	52.0	57.0	5.0	0.115	n/a

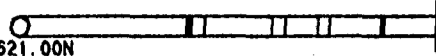
Golden Shield Resources Ltd.

Page: 2

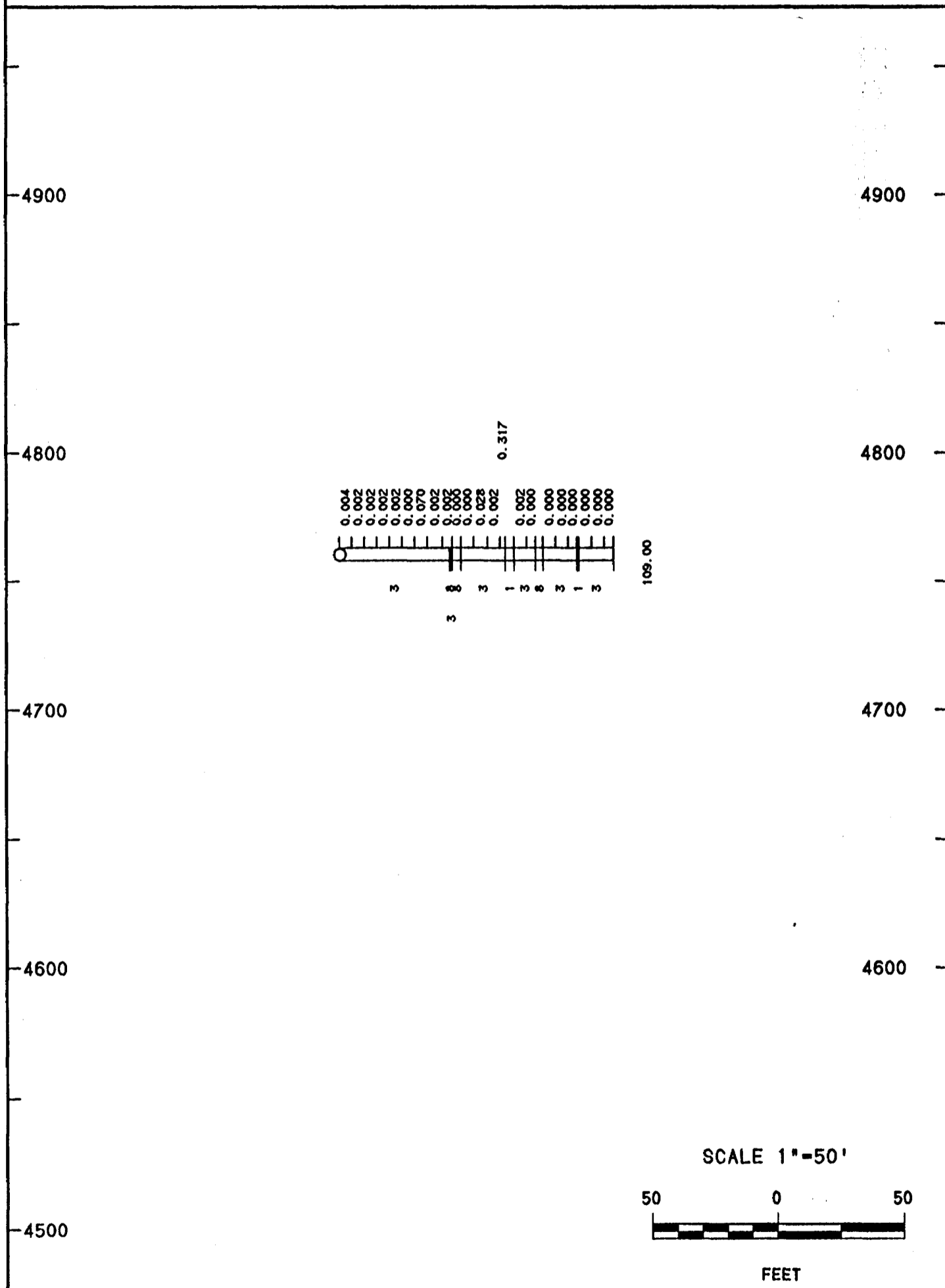
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			43414	57.0	62.0	5.0	0.010	n/a
			43415	62.0	67.0	5.0	0.002	n/a
			43416	67.0	71.0	4.0	0.002	n/a
			43417	71.0	76.0	5.0	0.002	n/a
76.0	98.0	ANDESITE / DACITE (1)						
			43418	76.0	81.0	5.0	0.002	n/a
			43419	81.0	86.0	5.0	0.002	n/a
			43420	86.0	91.0	5.0	0.006	n/a
			43421	91.0	96.0	5.0	0.002	n/a
			43422	96.0	101.0	5.0	0.000	n/a
98.0	121.0	RHYDLITE (+/- MASSIVE) (6)						
			43423	101.0	106.0	5.0	0.002	n/a
			43424	106.0	111.0	5.0	0.000	n/a
			43425	111.0	116.0	5.0	0.000	n/a
			43426	116.0	121.0	5.0	0.000	n/a
121.0	125.0	ANDESITE / DACITE (1)						
125.0	126.6	ANDESITE / DACITE (1)						
126.6	129.6	SYENITE (10)						
129.6	150.0	ANDESITE / DACITE (1)						
			43427	130.0	135.0	5.0	0.002	n/a
			43428	135.0	138.5	3.5	0.020	n/a
			43429	138.5	143.5	5.0	0.002	n/a
			43430	143.5	150.0	6.5	0.014	n/a

U86-41

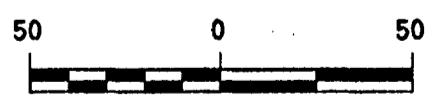
621.00N
3255.00E



PLAN VIEW



SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE U86-41	
E 3255 N 621	AZIMUTH 256 DIP 0
Scale 1" = 50'	

Coords: 621.0N 3255.0E

HOLE NO.: US6-41

Azimuth: 256.0

Mirado Project

Dip: 0.0

Elevation: 4760.0

Length: 109.0

Dip Tests

109.00 256.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	43.7	FELSIC TUFF (3)	33761	0.0	5.0	5.0	0.004	n/a
			33762	5.0	10.0	5.0	0.002	n/a
			33763	10.0	15.0	5.0	0.002	n/a
			33764	15.0	20.0	5.0	0.002	n/a
			33765	20.0	25.0	5.0	0.002	n/a
			33766	25.0	30.0	5.0	0.000	n/a
			33767	30.0	35.0	5.0	0.070	n/a
			33768	35.0	41.0	6.0	0.002	n/a
			33769	41.0	45.0	4.0	0.002	n/a
43.7	44.3	METADIORITE (8)						
44.3	45.0	FELSIC TUFF (3)						
45.0	48.5	METADIORITE (8)	33770	45.0	48.5	3.5	0.000	n/a
48.5	66.0	FELSIC TUFF (3)						

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			33771	48.5	53.5	5.0	0.000	n/a
			33772	53.5	59.0	5.5	0.028	n/a
			33773	59.0	64.0	5.0	0.002	n/a
			33774	64.0	66.0	2.0	0.317	n/a
66.0	69.5	ANDESITE / DACITE (1)						
69.5	78.0	FELSIC TUFF (3)						
			33775	69.5	74.5	5.0	0.002	n/a
			33776	74.5	78.0	3.5	0.000	n/a
78.0	81.0	METADIORITE (8)						
81.0	94.5	FELSIC TUFF (3)						
			33777	81.0	86.0	5.0	0.000	n/a
			33778	86.0	91.0	5.0	0.000	n/a
			33779	91.0	94.5	3.5	0.000	n/a
94.5	95.3	ANDESITE / DACITE (1)						
95.3	109.0	FELSIC TUFF (3)						
			33780	95.3	100.3	5.0	0.000	n/a
			33781	100.3	105.3	5.0	0.000	n/a
			33782	105.3	109.0	3.7	0.000	n/a

Coords: 621.0N 3255.0E

HOLE NO.: U86-42

Azimuth: 256.0

Mirado Project

Dip: 20.0

Elevation: 4760.0

Length: 99.0

Dip Tests

99.00 256.0 21.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	85.6	FELSIC TUFF (3)						
			33783	0.0	5.0	5.0	0.002	n/a
			33784	5.0	10.0	5.0	0.004	n/a
			33785	10.0	15.0	5.0	0.486	n/a
			33786	15.0	20.0	5.0	0.157	n/a
			33787	20.0	25.0	5.0	0.028	n/a
			33788	25.0	30.0	5.0	0.002	n/a
			33789	30.0	35.0	5.0	0.006	n/a
			33790	35.0	40.0	5.0	0.018	n/a
			33791	40.0	42.0	2.0	0.002	n/a
			33792	42.0	45.0	3.0	0.018	n/a
			33793	45.0	48.0	3.0	0.042	n/a
			33794	48.0	53.0	5.0	0.006	n/a
			33795	53.0	58.0	5.0	0.002	n/a
			33796	58.0	61.0	3.0	0.004	n/a
			33797	61.0	64.5	3.5	0.008	n/a
			33798	64.5	69.5	5.0	0.000	n/a
			33799	69.5	74.0	4.5	0.024	n/a
			33800	74.0	79.0	5.0	0.000	n/a
			49001	79.0	84.0	5.0	0.000	n/a
			49002	84.0	89.0	5.0	0.000	n/a

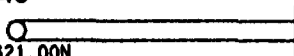
Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
85.6	86.8	METADIORITE (8)						
86.8	99.0	FELSIC TUFF (3)						
			49003	89.0	94.0	5.0	0.000	n/a
			49004	94.0	99.0	5.0	0.000	n/a

U86-43

821.00N
3255.00E



PLAN VIEW

4900

4900

4800

4800

4700

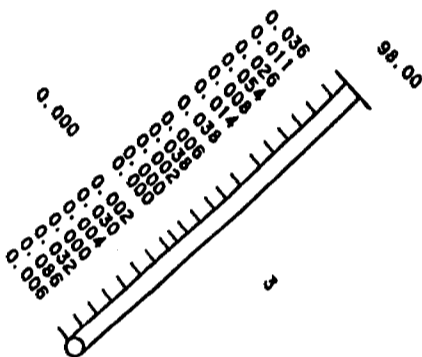
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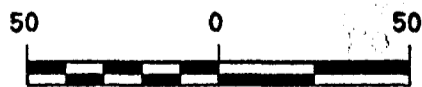
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SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE U86-43

E 3255
N 821

AZIMUTH 256
DIP 40

Scale 1" = 50'

Coords: 621.0N 3255.0E

HOLE NO.: U86-43

Azimuth: 256.0

Mirado Project

Dip: 40.0

Elevation: 4760.0

Length: 98.0

Dip Tests

98.00 256.0 44.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	98.0	FELSIC TUFF (3)						
			49016	0.0	5.0	5.0	0.006	n/a
			49017	5.0	10.0	5.0	0.086	n/a
			49018	10.0	15.0	5.0	0.032	n/a
			49019	15.0	20.0	5.0	0.000	n/a
			49020	20.0	25.0	5.0	0.004	n/a
			49021	25.0	30.0	5.0	0.030	n/a
			49022	30.0	35.0	5.0	0.002	n/a
			49023	35.0	38.0	3.0	0.000	n/a
			49024	38.0	41.5	3.5	0.000	n/a
			49025	41.5	46.0	4.5	0.000	n/a
			49026	46.0	51.0	5.0	0.002	n/a
			49027	51.0	55.0	4.0	0.038	n/a
			49028	55.0	60.0	5.0	0.006	n/a
			49029	60.0	67.0	7.0	0.038	n/a
			49030	67.0	72.0	5.0	0.014	n/a
			49031	72.0	77.0	5.0	0.008	n/a
			49032	77.0	82.0	5.0	0.054	n/a
			49033	82.0	87.0	5.0	0.026	n/a
			49034	87.0	93.0	6.0	0.010	n/a
			49035	93.0	98.0	5.0	0.036	n/a

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Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			43108	131.0	136.0	5.0	0.002	n/a
			43109	136.0	141.0	5.0	0.008	n/a
			43110	141.0	146.0	5.0	0.002	n/a
			43111	146.0	151.0	5.0	0.000	n/a
			43112	151.0	156.0	5.0	0.002	n/a

Coords: 1061.0N 3574.0E

HOLE NO.: U869

Azimuth: 65.0

Mirado Project

Dip: 0.0

Elevation: 4761.0

Length: 102.0

Dip Tests

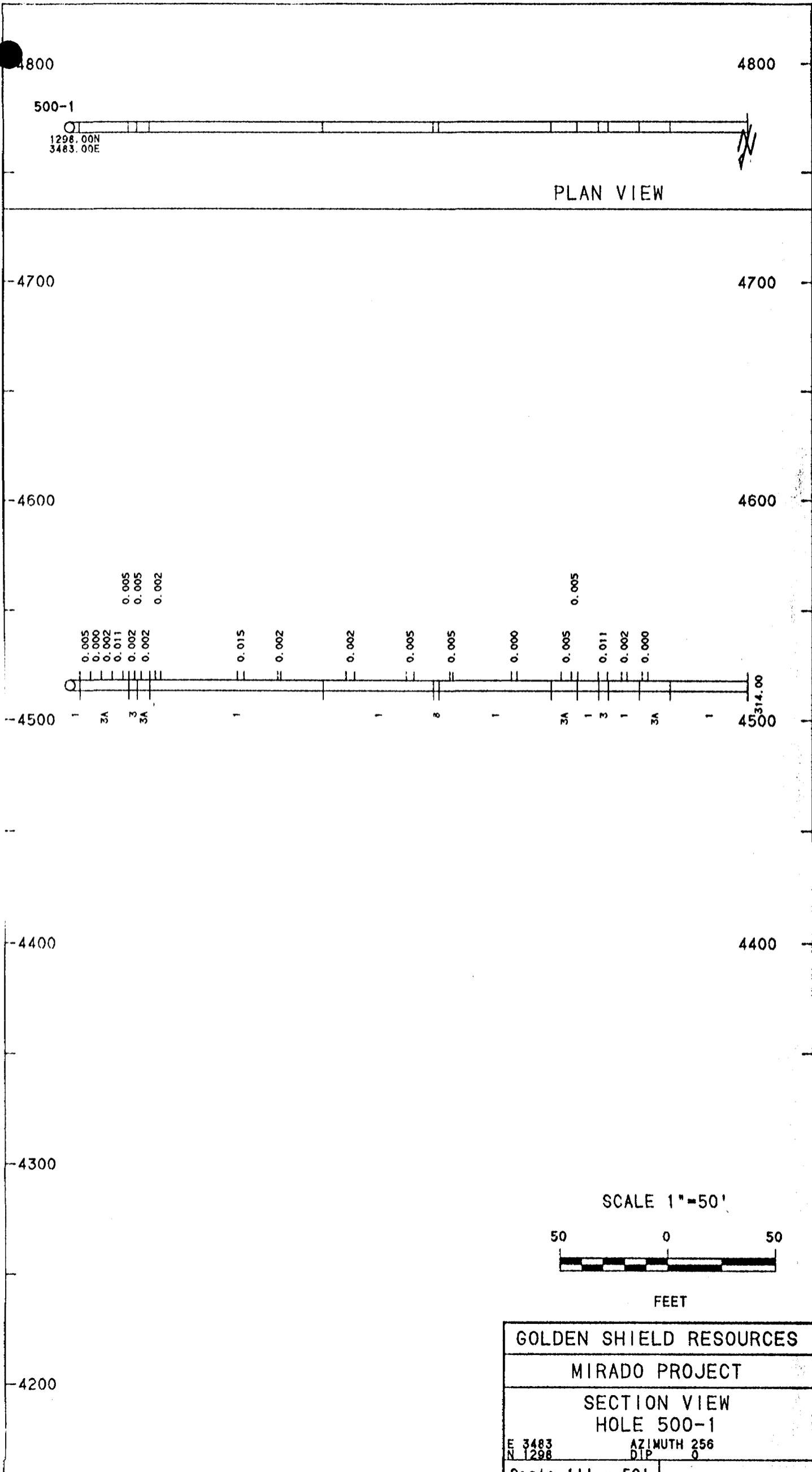
102.00 65.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	12.0	FELSIC TUFF (3)	3513	0.0	5.0	5.0	0.130	n/a
			3514	5.0	10.0	5.0	0.015	n/a
			3515	10.0	15.0	5.0	0.010	n/a
12.0	28.5	METADIORITE (8)	3516	15.0	20.0	5.0	0.002	n/a
			3517	20.0	28.5	8.5	0.002	n/a
28.5	39.5	FELSIC TUFF (3)	3518	28.5	32.2	3.7	0.010	n/a
			3819	35.5	38.0	2.5	0.105	n/a
			3820	38.0	40.5	2.5	0.220	n/a
39.5	102.0	INTERMEDIATE TUFF (4)	3521	40.5	45.5	5.0	0.045	n/a
			3522	45.5	50.5	5.0	0.000	n/a
			3523	50.5	55.5	5.0	0.005	n/a
			3524	55.5	60.5	5.0	0.005	n/a
			3525	60.5	65.5	5.0	0.015	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			3526	74.0	78.0	4.0	0.070	n/a
			3527	91.0	96.0	5.0	0.002	n/a
			3528	96.0	102.0	6.0	0.005	n/a



Coords: 1298.0N 3483.0E

HOLE NO.: 500-1

Azimuth: 256.0

Mirado Project

Dip: 0.0

Elevation: 4515.0

Length: 314.0

Dip Tests

314.00 256.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	4.5	ANDESITE / DACITE (1)						
4.5	27.2	FELSIC TUFF +/- LAPILLI (3A)						
			7968	4.5	9.5	5.0	0.005	n/a
			7969	9.5	14.5	5.0	0.000	n/a
			7970	14.5	19.5	5.0	0.002	n/a
			7971	19.5	24.5	5.0	0.010	n/a
			7972	24.5	27.3	2.8	0.005	n/a
27.2	31.2	FELSIC TUFF (3)						
			7973	27.3	30.0	2.7	0.002	n/a
			7974	30.0	33.0	3.0	0.005	n/a
31.2	37.0	FELSIC TUFF +/- LAPILLI (3A)						
			7975	33.0	37.0	4.0	0.002	n/a
37.0	117.4	ANDESITE / DACITE (1)						
			7976	39.6	42.1	2.5	0.002	n/a
			7977	77.7	80.7	3.0	0.015	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7978	96.3	97.8	1.5	0.002	n/a
117.4	168.5	ANDESITE / DACITE (1)	7979	128.0	132.0	4.0	0.002	n/a
			7980	155.8	159.4	3.6	0.005	n/a
168.5	171.0	METADIORITE (8)						
171.0	223.0	ANDESITE / DACITE (1)	7981	176.0	177.4	1.4	0.005	n/a
			7982	204.5	207.0	2.5	0.000	n/a
223.0	235.0	FELSIC TUFF +/- LAPILLI (3A)	7983	227.5	232.2	4.7	0.005	n/a
			7984	232.2	235.2	3.0	0.005	n/a
235.0	245.0	ANDESITE / DACITE (1)	7985	244.7	249.0	4.3	0.010	n/a
245.0	249.5	FELSIC TUFF (3)						
249.5	263.8	ANDESITE / DACITE (1)	7986	255.5	258.0	2.5	0.002	n/a
263.8	278.0	FELSIC TUFF +/- LAPILLI (3A)	21217	265.0	267.7	2.7	0.000	n/a
278.0	314.0	ANDESITE / DACITE (1)						

500-2

1142.00N
3582.00E



PLAN VIEW

5000

5000

4800

4800

4600

4600

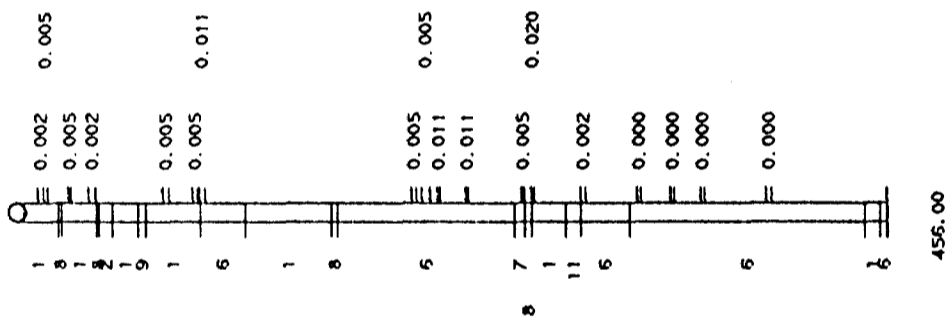
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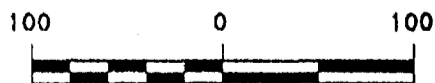
4200

4200

4000



SCALE 1"=100'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE 500-2

E 3582
N 1142

AZIMUTH 256
DIP 0

Coords: 1142.0N 3582.0E

HOLE NO.: 500-2

Azimuth: 256.0

Mirado Project

Dip: 0.0

Elevation: 4515.0

Length: 456.0

Dip Tests

450.00 256.0 0.0

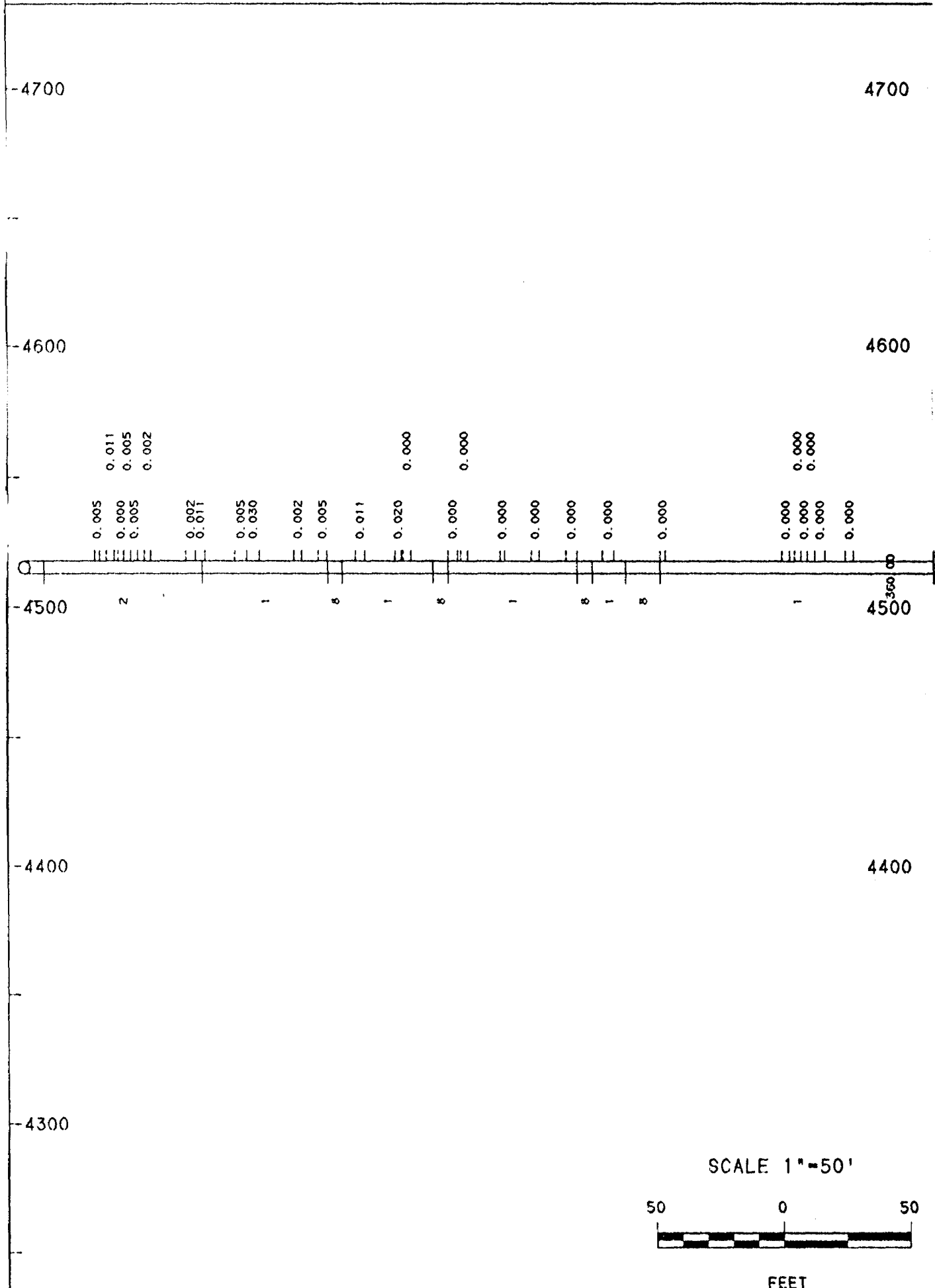
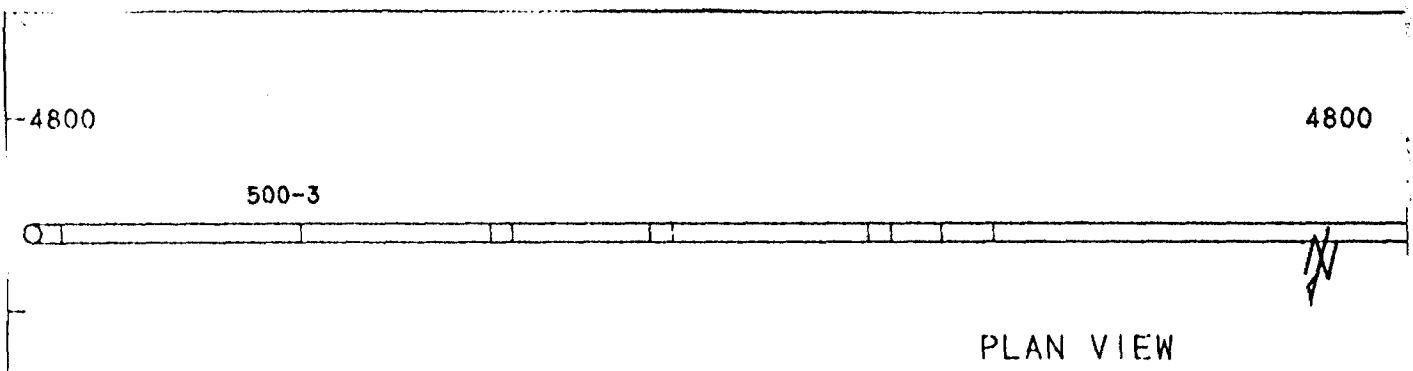
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	21.5	ANDESITE / DACITE (1)	21238	10.9	14.0	3.1	0.002	n/a
			21239	14.0	16.3	2.3	0.005	n/a
21.5	23.3	METADIORITE (8)						
23.3	41.5	ANDESITE / DACITE (1)	21240	27.1	28.7	1.6	0.005	n/a
			21241	37.7	41.5	3.8	0.002	n/a
41.5	43.1	METADIORITE (8)						
43.1	50.0	PYROCLASTIC CONGLOMERATE (2)						
50.0	63.3	ANDESITE / DACITE (1)						
63.3	67.6	CHLORIC DYKE (9)						

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
67.6	96.0	ANDESITE / DACITE (1)	21275	76.6	80.0	3.4	0.005	n/a
			21276	92.3	95.0	2.7	0.005	n/a
96.0	119.6	RHYOLITE (+/- MASSIVE) (6)	21277	96.0	99.0	3.0	0.010	n/a
119.6	165.0	ANDESITE / DACITE (1)						
165.0	168.0	METADIORITE (8)						
168.0	261.0	RHYOLITE (+/- MASSIVE) (6)	21278	207.0	209.6	2.6	0.005	n/a
			21279	212.3	216.8	4.5	0.005	n/a
			21280	220.5	222.0	1.5	0.010	n/a
			21622	235.5	236.9	1.4	0.010	n/a
261.0	266.3	QUARTZ-FELDSPAR PORPHYRY (7)	21281	264.6	266.3	1.7	0.005	n/a
266.3	269.8	METADIORITE (8)						
269.8	287.8	ANDESITE / DACITE (1)	21282	269.8	271.5	1.7	0.020	n/a
287.8	295.5	LAMPORPHYRE (11)						
295.5	321.0	RHYOLITE (+/- MASSIVE) (6)	21283	295.5	298.2	2.7	0.002	n/a

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Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
321.0	444.0	RHYOLITE (+/- MASSIVE) (6)	21284	325.0	327.2	2.2	0.000	n/a
			21285	342.7	344.7	2.0	0.000	n/a
			21286	358.3	360.5	2.2	0.000	n/a
			21287	392.6	395.6	3.0	0.000	n/a
444.0	452.2	ANDESITE / DACITE (1)						
452.2	456.0	RHYOLITE (+/- MASSIVE) (6)						



GOLDEN SHIELD RESOURCES
 MIRADO PROJECT
 SECTION VIEW
 HOLE 500-3
 E 3504 AZIMUTH 256
 N 1260 DIP 0
 Scale 1" = 50'

Coords: 1260.0N 3504.0E

HOLE NO.: 500-3

Azimuth: 256.0

Mirado Project

Dip: 0.0

Elevation: 4515.0

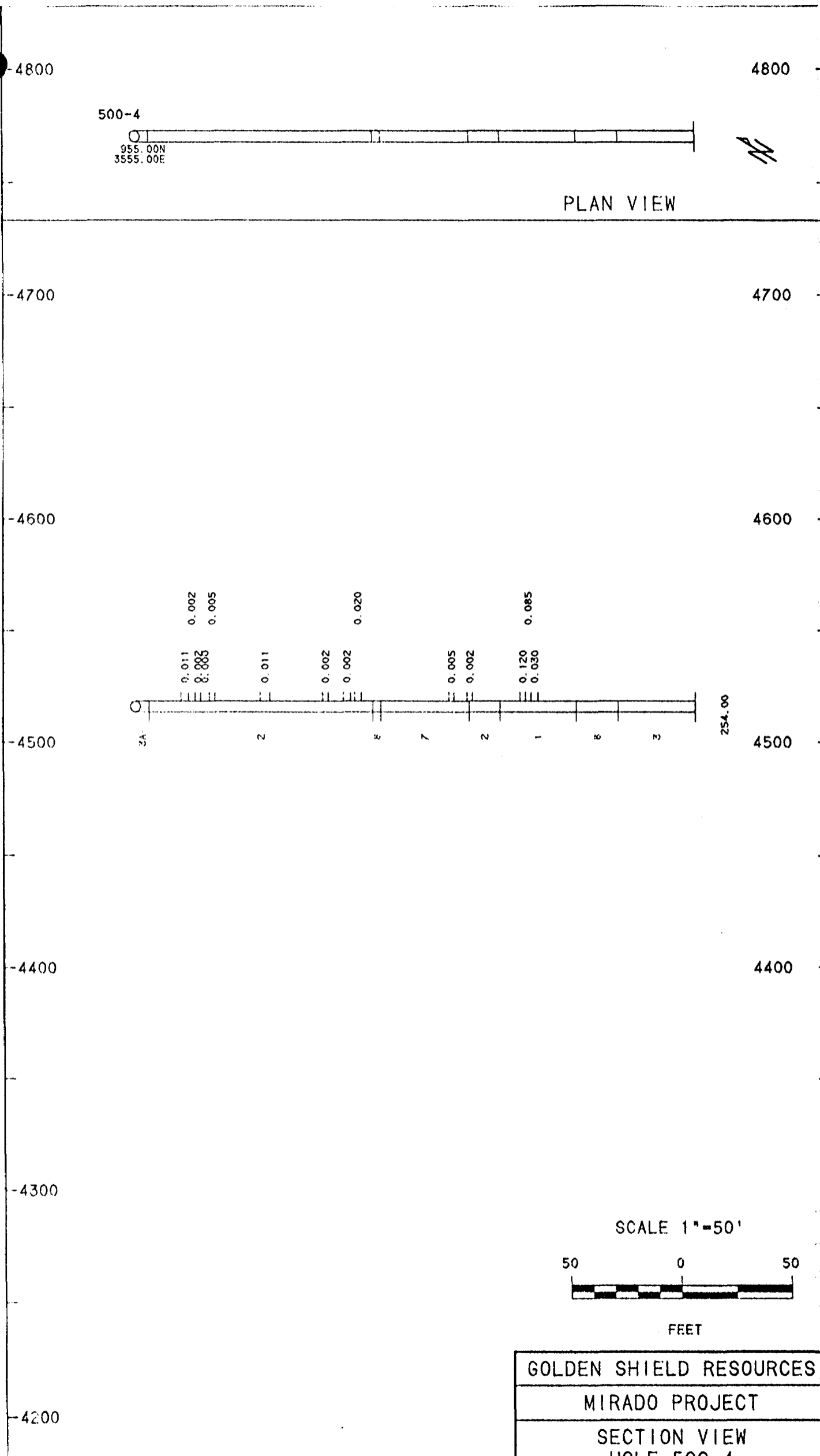
Length: 360.0

Dip Tests

360.00 256.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	7.5	ANDESITE / DACITE (1)						
7.5	70.5	PYROCLASTIC CONGLOMERATE (2)						
			7987	27.7	29.7	2.0	0.005	n/a
			7988	32.4	35.5	3.1	0.010	n/a
			7989	37.0	39.3	2.3	0.000	n/a
			7990	39.3	42.1	2.8	0.005	n/a
			7991	42.1	44.8	2.7	0.005	n/a
			7992	47.5	50.0	2.5	0.002	n/a
			7993	64.0	67.8	3.8	0.002	n/a
			7994	67.8	71.6	3.8	0.010	n/a
70.5	120.3	ANDESITE / DACITE (1)						
			7995	83.4	88.2	4.8	0.005	n/a
			7996	88.2	93.2	5.0	0.030	n/a
			7997	107.0	110.0	3.0	0.002	n/a
			7998	116.5	120.0	3.5	0.005	n/a
120.3	126.0	METADIORITE (8)						

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
126.0	162.0	ANDESITE / DACITE (1)	7999	131.3	135.0	3.7	0.010	n/a
			8000	147.0	149.5	2.5	0.020	n/a
			21201	150.3	153.3	3.0	0.000	n/a
162.0	168.0	METADIORITE (8)						
168.0	219.0	ANDESITE / DACITE (1)	21202	168.0	171.7	3.7	0.000	n/a
			21203	173.0	175.7	2.7	0.000	n/a
			21204	188.6	190.3	1.7	0.000	n/a
			21205	201.0	204.0	3.0	0.000	n/a
			21206	214.6	219.0	4.4	0.000	n/a
219.0	225.0	METADIORITE (8)						
225.0	238.2	ANDESITE / DACITE (1)	21207	229.0	233.5	4.5	0.000	n/a
238.2	251.8	METADIORITE (8)						
251.8	360.0	ANDESITE / DACITE (1)	21208	251.8	253.8	2.0	0.000	n/a
			21209	300.0	303.0	3.0	0.000	n/a
			21210	305.0	307.5	2.5	0.000	n/a
			21211	307.5	310.0	2.5	0.000	n/a
			21212	310.0	313.0	3.0	0.000	n/a
			21213	313.0	317.0	4.0	0.000	n/a
			21216	325.0	328.2	3.2	0.000	n/a



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 500-4	
E 3555	AZIMUTH 150
N 955	DIP 0
Scale 1" = 50'	

Coords: 955.0N 3555.0E HOLE NO.: 500-4
 Azimuth: 150.0 Mirado Project
 Dip: 0.0
 Elevation: 4515.0
 Length: 254.0

Dip Tests

254.00 150.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	6.0	FELSIC TUFF +/- LAPILLI (3A)						
6.0	107.8	PYROCLASTIC CONGLOMERATE (2)						
			21218	20.5	24.0	3.5	0.010	n/a
			21219	24.0	27.0	3.0	0.002	n/a
			21220	27.0	29.5	2.5	0.002	n/a
			21221	29.5	33.5	4.0	0.000	n/a
			21222	33.5	36.0	2.5	0.005	n/a
			21223	56.5	61.0	4.5	0.010	n/a
			21224	85.0	87.5	2.5	0.002	n/a
			21225	94.3	97.6	3.3	0.002	n/a
			21226	99.5	102.5	3.0	0.020	n/a
107.8	111.4	METADIORITE (8)						
111.4	151.5	QUARTZ-FELDSPAR PORPHYRY (7)						
			21227	142.3	144.5	2.2	0.005	n/a
			21228	150.5	153.0	2.5	0.002	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
151.5	165.5	PYROCLASTIC CONGLOMERATE (2)						
165.5	200.0	ANDESITE / DACITE (1)						
			21229	174.5	177.0	2.5	0.120	n/a
			21230	177.0	179.5	2.5	0.085	n/a
			21231	179.5	182.7	3.2	0.030	n/a
200.0	219.0	METADIORITE (8)						
219.0	254.0	FELSIC TUFF (3)						

-4800 4800

500-5

955.00N
3553.00E



PLAN VIEW

-4700 4700

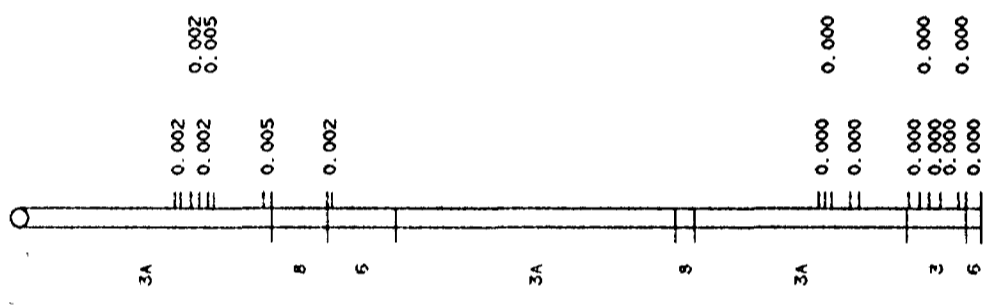
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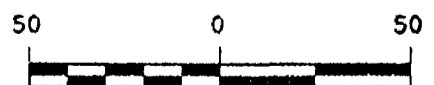
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-4300

-4200



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE 500-5	
E 3553 N 955	AZIMUTH 175 DIP 0
Scale 1" = 50'	

Coords: 955.0N 3553.0E

HOLE NO.: 500-5

Azimuth: 175.0

Mirado Project

Dip: 0.0

Elevation: 4515.0

Length: 252.0

Dip Tests

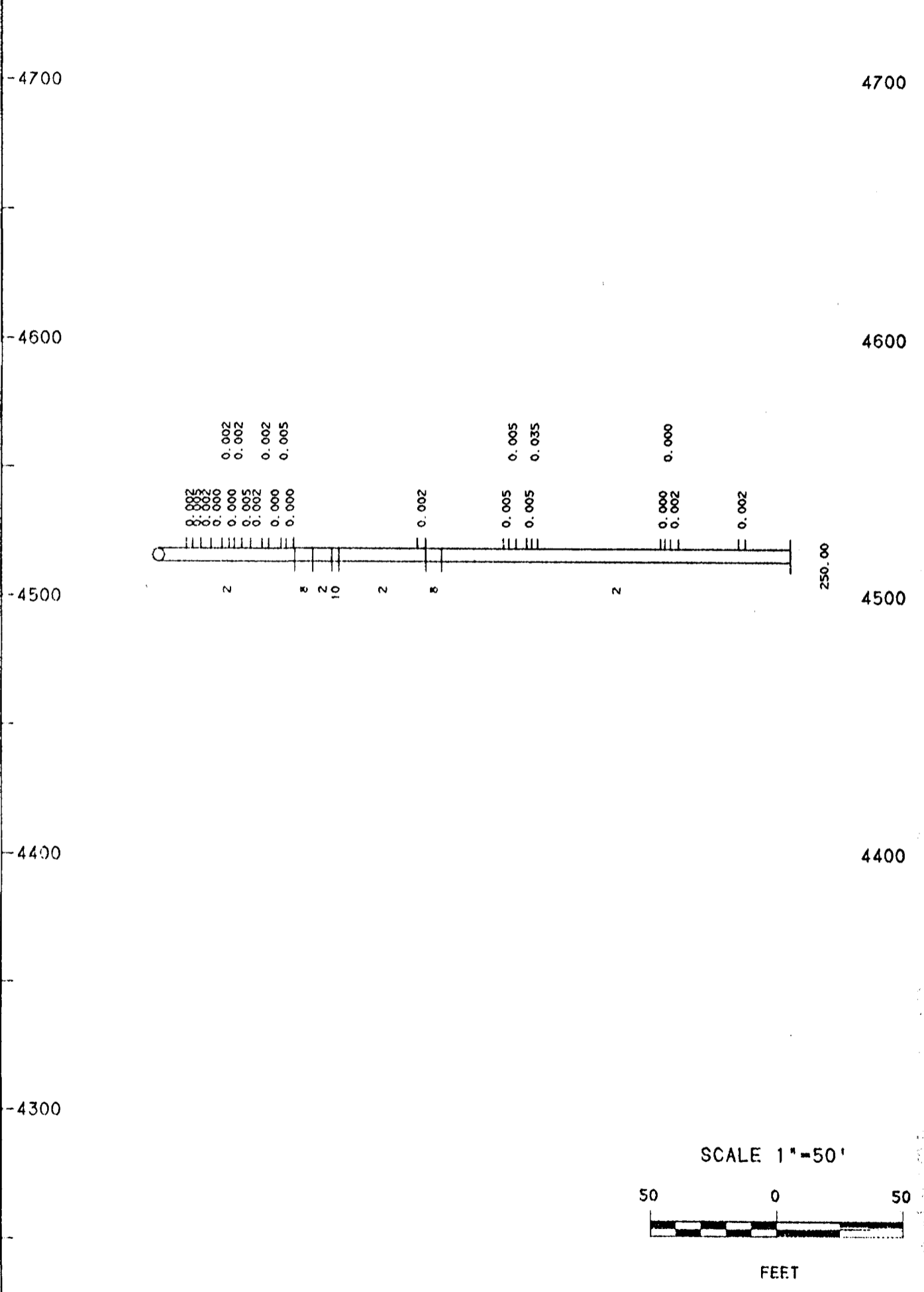
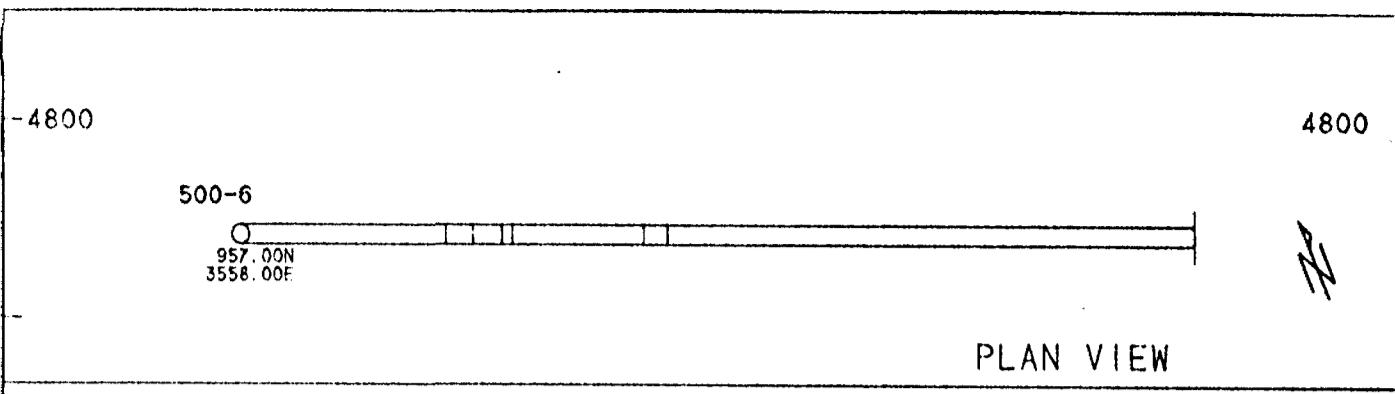
252.00 175.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	66.1	FELSIC TUFF +/- LAPILLI (3A)						
			21232	40.8	42.3	1.5	0.002	n/a
			21233	45.0	47.2	2.2	0.002	n/a
			21234	47.2	49.5	2.3	0.002	n/a
			21235	49.5	51.0	1.5	0.005	n/a
			21236	64.0	66.1	2.1	0.005	n/a
66.1	80.8	METADIORITE (8)						
80.8	98.7	RHYOLITE (+/- MASSIVE) (6)						
			21237	80.8	82.0	1.2	0.002	n/a
98.7	172.0	FELSIC TUFF +/- LAPILLI (3A)						
172.0	177.0	METADIORITE (8)						
177.0	232.5	FELSIC TUFF +/- LAPILLI (3A)						
			7	209.5	211.1	1.6	0.000	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			8	211.1	212.8	1.7	0.000	n/a
			9	217.7	220.0	2.3	0.000	n/a
232.5	248.0	FELSIC TUFF (3)						
			10	233.0	235.8	2.8	0.000	n/a
			11	235.8	238.3	2.5	0.000	n/a
			12	238.3	241.3	3.0	0.000	n/a
			13	241.3	246.0	4.7	0.000	n/a
			14	246.0	248.0	2.0	0.000	n/a
248.0	252.0	RHYOLITE (+/- MASSIVE) (6)						
			15	248.0	252.0	4.0	0.000	n/a



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 500-6	
E 3558	AZIMUTH 113
N 957	DIP 0
Scale 1" = 50'	

Coords: 957.0N 3558.0E

HOLE NO.: 500-6

Azimuth: 113.0

Mirado Project

Dip: 0.0

Elevation: 4515.0

Length: 250.0

Dip Tests

250.00 113.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	53.8	PYROCLASTIC CONGLOMERATE (2)	21288	11.0	13.5	2.5	0.002	n/a
			21289	13.5	16.8	3.3	0.005	n/a
			21290	16.8	20.8	4.0	0.002	n/a
			21291	20.8	25.2	4.4	0.000	n/a
			21292	25.2	28.0	2.8	0.002	n/a
			21293	28.0	30.0	2.0	0.000	n/a
			21294	30.0	33.0	3.0	0.002	n/a
			21295	33.0	36.5	3.5	0.005	n/a
			21296	36.5	41.0	4.5	0.002	n/a
			21297	41.0	43.7	2.7	0.002	n/a
			21298	43.7	48.5	4.8	0.000	n/a
			21299	48.5	50.5	2.0	0.005	n/a
			21300	50.5	53.5	3.0	0.000	n/a
53.8	61.0	METADIORITE (8)						
61.0	68.6	PYROCLASTIC CONGLOMERATE (2)						
68.6	71.4	SYENITE (10)						

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
71.4	105.8	PYROCLASTIC CONGLOMERATE (2)	21501	102.5	105.8	3.3	0.002	n/a
105.8	112.0	METADIORITE (8)						
112.0	250.0	PYROCLASTIC CONGLOMERATE (2)	21502	136.5	138.7	2.2	0.005	n/a
			21503	138.7	141.5	2.8	0.005	n/a
			21504	145.7	147.7	2.0	0.005	n/a
			21505	147.7	150.0	2.3	0.035	n/a
			21506	198.6	200.3	1.7	0.000	n/a
			21507	200.3	202.5	2.2	0.000	n/a
			21508	202.5	205.7	3.2	0.002	n/a
			21509	229.4	232.0	2.6	0.002	n/a

500-7

1040.00N
3573.00E



PLAN VIEW

5000

5000

4800

4800

4600

4600

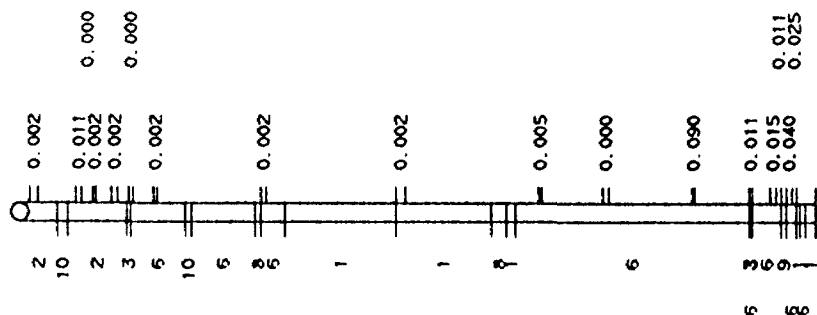
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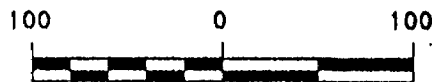
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4000



SCALE 1"=100'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE 500-7

E 3573
N 1040

AZIMUTH 256
DIP 0

Coords: 1040.0N 3573.0E

HOLE NO.: 500-7

Azimuth: 256.0

Mirado Project

Dip: 0.0

Elevation: 4515.0

Length: 417.0

Dip Tests

417.00 256.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	19.6	PYROCLASTIC CONGLOMERATE (2)	21537	5.0	9.5	4.5	0.002	n/a
19.6	25.0	SYENITE (10)						
25.0	56.0	PYROCLASTIC CONGLOMERATE (2)	21538	29.3	32.4	3.1	0.010	n/a
			21539	32.4	38.4	6.0	0.000	n/a
			21540	38.4	40.0	1.6	0.002	n/a
			21541	48.0	51.3	3.3	0.002	n/a
56.0	58.0	FELSIC TUFF (3)	21542	57.0	59.3	2.3	0.000	n/a
58.0	86.6	RHYOLITE (+/- MASSIVE) (6)	21543	70.0	72.0	2.0	0.002	n/a
86.6	90.0	SYENITE (10)						

Golden Shield Resources Ltd.

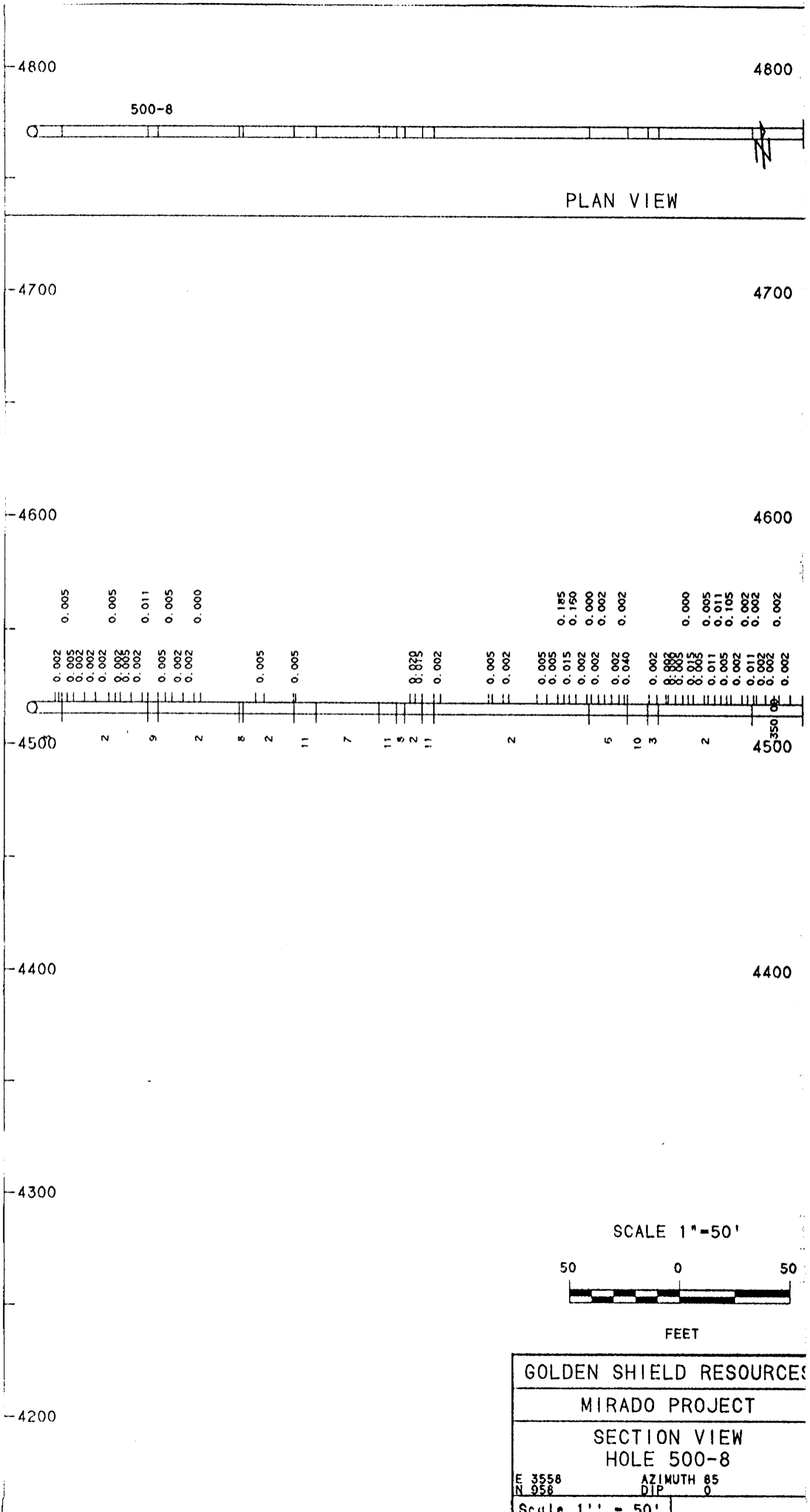
Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
90.0	123.2	RHYOLITE (+/- MASSIVE) (6)						
123.2	126.5	METADIORITE (8)						
126.5	139.0	RHYOLITE (+/- MASSIVE) (6)	21544	126.5	129.2	2.7	0.002	n/a
139.0	197.0	ANDESITE / DACITE (1)						
197.0	247.0	ANDESITE / DACITE (1)	21545	197.0	202.0	5.0	0.002	n/a
247.0	255.0	METADIORITE (8)						
255.0	259.7	ANDESITE / DACITE (1)						
259.7	382.0	RHYOLITE (+/- MASSIVE) (6)	21546	271.8	273.5	1.7	0.005	n/a
			21547	305.5	308.5	3.0	0.000	n/a
			21548	352.1	353.5	1.4	0.090	n/a
382.0	382.5	FELSIC TUFF (3)	21549	382.0	383.7	1.7	0.010	n/a
382.5	383.0	RHYOLITE (+/- MASSIVE) (6)						
383.0	383.8	FELSIC TUFF (3)						

Golden Shield Resources Ltd.

Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
383.8	398.7	RHYOLITE (+/- MASSIVE) (6)	21550	393.0	396.0	3.0	0.015	n/a
			21551	396.0	398.7	2.7	0.010	n/a
398.7	401.5	CHLORIC DYKE (9)						
401.5	406.8	RHYOLITE (+/- MASSIVE) (6)	21552	401.5	404.4	2.9	0.040	n/a
			21553	404.4	406.8	2.4	0.025	n/a
406.8	408.7	ANDESITE / DACITE (1)						
408.7	411.5	RHYOLITE (+/- MASSIVE) (6)						
411.5	417.0	ANDESITE / DACITE (1)						



Coords: 958.0N 3558.0E

HOLE NO.: 500-8

Azimuth: 85.0

Mirado Project

Dip: 0.0

Elevation: 4515.0

Length: 350.0

Dip Tests

350.00 85.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	13.5	FELSIC TUFF (3)	21242	10.3	12.0	1.7	0.002	n/a
13.5	52.5	PYROCLASTIC CONGLOMERATE (2)	21243	13.5	16.0	2.5	0.005	n/a
			21244	16.0	18.8	2.8	0.005	n/a
			21245	18.8	23.8	5.0	0.002	n/a
			21246	23.8	28.8	5.0	0.002	n/a
			21247	28.8	34.8	6.0	0.002	n/a
			21248	34.8	37.8	3.0	0.005	n/a
			21249	37.8	40.0	2.2	0.002	n/a
			21250	40.0	45.0	5.0	0.005	n/a
			21251	45.0	50.0	5.0	0.002	n/a
			21252	50.0	52.5	2.5	0.010	n/a
52.5	57.2	CHLORIC DYKE (9)						
57.2	94.0	PYROCLASTIC CONGLOMERATE (2)	21253	57.2	60.5	3.3	0.005	n/a
			21254	60.5	63.5	3.0	0.005	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			21255	63.5	68.5	5.0	0.002	n/a
			21256	68.5	73.5	5.0	0.002	n/a
			21257	73.5	76.5	3.0	0.000	n/a
94.0	95.8	METADIORITE (8)						
95.8	118.9	PYROCLASTIC CONGLOMERATE (2)						
			21258	101.5	105.3	3.8	0.005	n/a
			21259	118.7	119.7	1.0	0.005	n/a
118.9	129.0	LAMPROPHYRE (11)						
129.0	157.5	QUARTZ-FELDSPAR PORPHYRY (7)						
157.5	165.5	LAMPROPHYRE (11)						
165.5	169.2	METADIORITE (8)						
169.2	177.2	PYROCLASTIC CONGLOMERATE (2)						
			21260	171.6	174.0	2.4	0.020	n/a
			21261	174.0	177.2	3.2	0.015	n/a
177.2	182.5	LAMPROPHYRE (11)						
182.5	253.0	PYROCLASTIC CONGLOMERATE (2)						
			21262	182.5	185.5	3.0	0.002	n/a
			21263	207.3	209.0	1.7	0.005	n/a
			21264	214.0	216.5	2.5	0.002	n/a
			21265	229.3	233.8	4.5	0.005	n/a
			21266	233.8	238.8	5.0	0.005	n/a
			21267	238.8	241.6	2.8	0.185	n/a
			21268	241.6	244.0	2.4	0.015	n/a

Golden Shield Resources Ltd.

Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			21269	244.0	247.0	3.0	0.160	n/a
			21270	247.0	252.0	5.0	0.002	n/a
			21271	252.0	254.0	2.0	0.000	n/a
253.0	270.4	RHYOLITE (+/- MASSIVE) (6)						
			21272	254.0	257.3	3.3	0.002	n/a
			21273	257.3	260.0	2.7	0.002	n/a
			21274	263.2	266.6	3.4	0.002	n/a
			21523	266.6	269.0	2.4	0.002	n/a
			21524	269.0	270.4	1.4	0.040	n/a
270.4	279.7	SYENITE (10)						
279.7	284.5	FELSIC TUFF (3)						
			21525	280.3	283.8	3.5	0.002	n/a
284.5	327.0	PYROCLASTIC CONGLOMERATE (2)						
			21554	288.0	289.0	1.0	0.002	n/a
			21555	289.0	292.3	3.3	0.000	n/a
			21526	292.3	295.6	3.3	0.005	n/a
			21527	295.6	298.0	2.4	0.000	n/a
			21528	298.0	300.3	2.3	0.015	n/a
			21529	300.3	305.3	5.0	0.005	n/a
			21530	305.3	307.1	1.8	0.005	n/a
			21531	307.1	310.1	3.0	0.010	n/a
			21532	310.1	312.9	2.8	0.010	n/a
			21533	312.9	315.5	2.6	0.005	n/a
			21534	315.5	317.5	2.0	0.105	n/a
			21556	317.5	322.5	5.0	0.002	n/a
			21557	322.5	325.0	2.5	0.002	n/a
			21535	325.0	327.7	2.7	0.010	n/a
327.0	350.0	ANDESITE / DACITE (1)						
			21558	327.7	329.0	1.3	0.002	n/a
			21559	329.0	333.1	4.1	0.002	n/a
			21560	333.1	337.0	3.9	0.002	n/a

Golden Shield Resources Ltd.

Page: 4

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			21536	337.0	339.3	2.3	0.002	n/a
			21561	339.3	344.3	5.0	0.002	n/a

Coords: 1144.0N 3587.0E

Golden Shield Resources Ltd.

HOLE NO.: 500-9

Page: 1

Azimuth: 76.0

Mirado Project

Dip: 0.0

Elevation: 4515.0

Lensth: 202.0

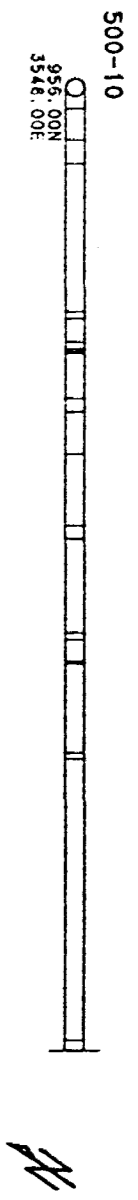
Dip Tests

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
	202.00				76.0			
						0.0		
0.0	16.5	16.5 PYROCLASTIC CONGLOMERATE (2)	21510	0.5	3.0	2.5	0.010	n/a
16.5	23.5	23.5 METADIORITE (8)						
23.5	77.5	77.5 PYROCLASTIC CONGLOMERATE (2)	21511	33.0	37.0	4.0	0.025	n/a
			21512	41.9	44.6	2.7	0.025	n/a
			21513	62.0	64.5	2.5	0.025	n/a
77.5	157.0	157.0 INTERMEDIATE TUFF +/- LAPILLI (4A)	21514	83.2	85.8	2.6	0.005	n/a
			21515	85.8	89.5	3.7	0.005	n/a
			21516	89.5	92.7	3.2	0.025	n/a
			21517	92.7	96.0	3.3	0.020	n/a
			21518	96.0	100.0	4.0	0.015	n/a
			21519	129.5	132.0	2.5	0.020	n/a
			21520	132.0	136.0	4.0	0.015	n/a

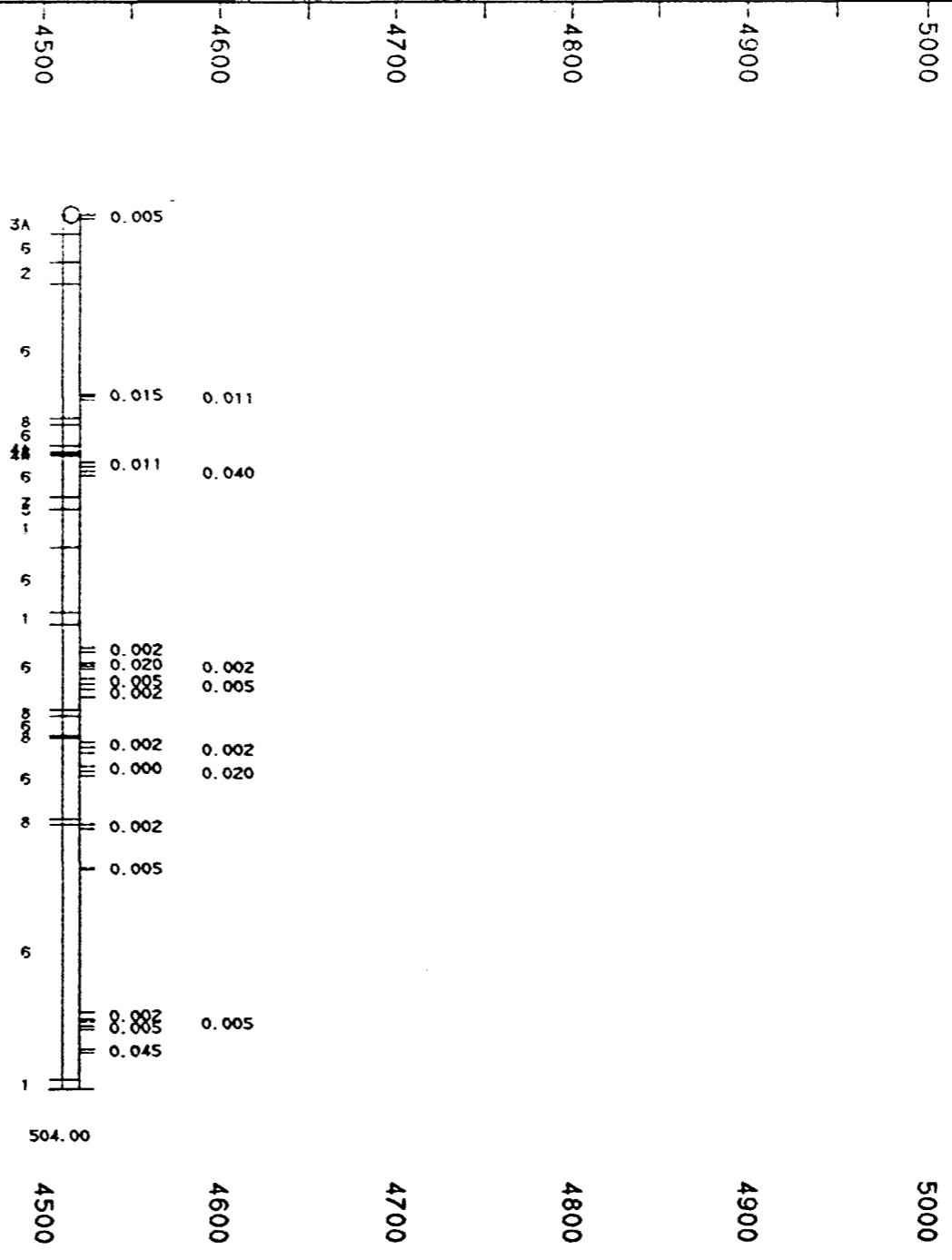
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Page: 2

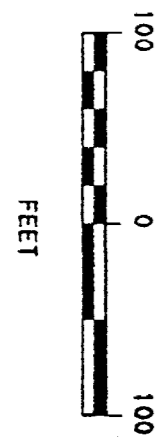
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
157.0	160.0	PYROCLASTIC CONGLOMERATE (2)						
160.0	170.3	FELSIC TUFF +/- LAPILLI (3A)						
			21521	164.0	168.0	4.0	0.030	n/a
			21522	168.0	170.3	2.3	0.005	n/a
170.3	202.0	ANDESITE / DACITE (1)						



PLAN VIEW



SCALE 1"=100'



GOLDEN SHIELD RESOURCES
 MIRADO PROJECT
 SECTION VIEW
 HOLE 500-10
 AZIMUTH 235
 DIP 0

Coords: 956.0N 3548.0E

HOLE NO.: 500-10

Azimuth: 235.0

Mirado Project

Dip: 0.0

Elevation: 4515.0

Length: 504.0

Dip Tests

504.00 235.0 0.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	11.0	FELSIC TUFF +/- LAPILLI (3A)	21562	0.0	2.5	2.5	0.005	n/a
11.0	27.5	RHYOLITE (+/- MASSIVE) (6)						
27.5	40.0	PYROCLASTIC CONGLOMERATE (2)						
40.0	117.5	RHYOLITE (+/- MASSIVE) (6)	21563	103.8	105.0	1.2	0.015	n/a
			21564	105.0	107.0	2.0	0.010	n/a
117.5	121.3	METADIORITE (8)						
121.3	133.5	RHYOLITE (+/- MASSIVE) (6)						
133.5	137.0	INTERMEDIATE TUFF +/- LAPILLI (4A)						

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
137.0	138.4	FELSIC TUFF (3)						
138.4	139.5	INTERMEDIATE TUFF +/- LAPILLI (4A)						
139.5	163.0	RHYOLITE (+/- MASSIVE) (6)						
			21565	143.0	145.5	2.5	0.010	n/a
			21566	148.0	150.7	2.7	0.040	n/a
163.0	170.0	QUARTZ-FELDSPAR PORPHYRY (7)						
170.0	170.2	FELSIC TUFF (3)						
170.2	192.0	ANDESITE / DACITE (1)						
192.0	229.5	RHYOLITE (+/- MASSIVE) (6)						
229.5	236.3	ANDESITE / DACITE (1)						
236.3	285.5	RHYOLITE (+/- MASSIVE) (6)						
			21573	249.6	252.2	2.6	0.002	n/a
			21574	258.5	260.3	1.8	0.020	n/a
			21575	260.3	262.0	1.7	0.002	n/a
			21576	267.5	270.7	3.2	0.005	n/a
			21577	270.7	273.7	3.0	0.005	n/a
			21578	273.7	278.2	4.5	0.002	n/a
285.5	289.2	METADIORITE (8)						
289.2	300.5	RHYOLITE (+/- MASSIVE) (6)						

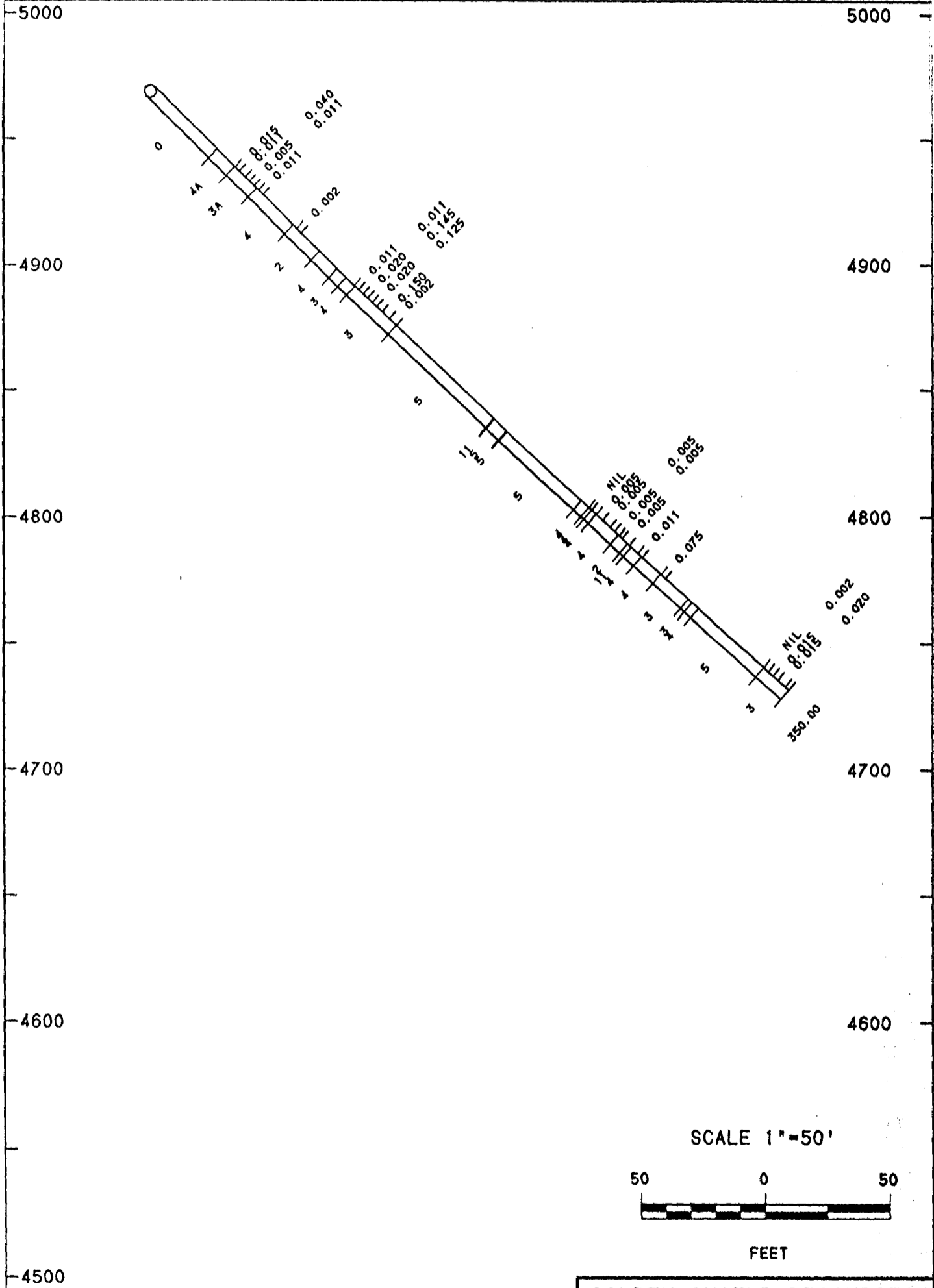
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
300.5	302.0	METADIORITE (8)						
302.0	348.4	RHYOLITE (+/- MASSIVE) (6)						
			21579	304.0	307.2	3.2	0.002	n/a
			21580	307.2	310.3	3.1	0.002	n/a
			21581	318.0	320.7	2.7	0.000	n/a
			21582	320.7	323.5	2.8	0.020	n/a
348.4	351.5	METADIORITE (8)						
351.5	498.5	RHYOLITE (+/- MASSIVE) (6)						
			21583	351.5	354.0	2.5	0.002	n/a
			21625	376.5	377.6	1.1	0.005	n/a
			21626	459.6	463.6	4.0	0.002	n/a
			21627	465.0	467.5	2.5	0.005	n/a
			21628	467.5	469.6	2.1	0.005	n/a
			21629	481.0	483.0	2.0	0.045	n/a
498.5	504.0	ANDESITE / DACITE (1)						

86-01

1140.00N
3335.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW

HOLE 86-01

E 3335
N 1140

AZIMUTH 180
DIP -45

Scale 1" = 50'

Coords: 1140.0N 3335.0E

HOLE NO.: 86-01

Azimuth: 180.0

Mirado Project

Dip: -45.0

Elevation: 4968.0

Length: 350.0

Dip Tests

350.00 -41.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	35.0	OVERBURDEN (0) Overburden.						
35.0	45.0	INTERMEDIATE TUFF +/- LAPILLI (4A) Tuff/Lapilli tuff (intermediate) medium dark green matrix with light green fragments (mottled appearance) 1-2% sulphides.						
45.0	57.5	FELSIC TUFF +/- LAPILLI (3A) Altered (silicified/chloritized/epidotized) tuff/lapilli tuff gradational change medium green to light green matrix towards bottom of section. Chloritized mafic and tuff fragments 1-3% sulphides (pyrite, disseminated) @ 51.0 contact between zones (more siliceous on bottom) 3-5% pyrite >5% pyrite in fractures (pyrite entrainment associated with siliceous replacement) @ 52.0 intense pyrite in fracture @ 57.0 epidotization prominent.	0814 0815 0816 0817 0818	45.0 47.5 51.0 53.5 56.0	47.5 51.0 53.5 56.0 58.5	2.5 3.5 2.5 2.5 2.5	0.015 0.010 0.040 0.005 0.010	n/a n/a 0.060 n/a n/a
57.5	78.0	INTERMEDIATE TUFF (4) Intermediate tuff upper contact light green matrix	0819	58.5	61.0	2.5	0.010	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
		with mafic and felsic fragments 1%-2% fine disseminated pyrite minor quartz stringers.						
78.0	93.0	PYROCLASTIC CONGLOMERATE (2) Pyroclastic conglomerate medium to dark green matrix with tuff fragments 1%-2% disseminated pyrite.	0820	80.0	82.5	2.5	0.002	n/a
93.0	103.0	INTERMEDIATE TUFF (4) Tuff/lapilli tuff (intermediate) same as section at beginning of hole.						
103.0	108.0	FELSIC TUFF (3) Tuff (silicified) 1%-3% fine disseminated pyrite @ 107.0 3%-5% fine disseminated pyrite.						
108.0	113.0	INTERMEDIATE TUFF (4) Intermediate tuff 1%-3% fine disseminated pyrite, pyrite entrainment in minor fragments.	0821	112.5	115.0	2.5	0.010	n/a
113.0	136.0	FELSIC TUFF (3) Silicified tuff light green matrix with mafic fragments 3%-5% disseminated pyrite @ 113.5 -115.0 ->5% disseminated pyrite @ 125.0 epidotized fracture @ 127.0 fragments showing fabric (subtle) pyrite replacement in fractures.	0822 0823 0824 0825 0826 0827 0828	115.0 117.5 120.0 122.5 125.0 128.0 132.0 136.0	117.5 120.0 122.5 125.0 128.0 132.0 136.0	2.5 2.5 2.5 2.5 3.0 4.0 4.0	0.010 0.020 0.145 0.020 0.125 0.150 0.002	n/a n/a 0.190 n/a n/a 0.165 n/a
136.0	190.0	MAFIC TUFF (5) Mafic tuff upper contact (fracture) dark green matrix with dark green fragments @ 150.5 section epidotized sulphides - nil minor quartz stringers 150.0 - 159.0 core broken up 166.0 - 170.0 core broken up.						

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
190.0	190.5	LAMPROPHYRE (11) Ultramafic dyke broken section.						
190.5	197.0	MAFIC TUFF (5) Mafic tuff.						
197.0	197.5	MAFIC TUFF (5) Splintery texture, elongated rectangular dark green minerals (striated), possibly chloritized.						
197.5	238.0	MAFIC TUFF (5) Mafic tuff @ 202.0 epidote patch quartz stringers (minor) throughout.						
238.0	242.0	INTERMEDIATE TUFF (4) Intermediate tuff medium green matrix with dark fragments 3%-5% very fine disseminated pyrite @ 238.5 silicified fracture zone.						
242.0	243.5	INTERMEDIATE TUFF (4) Altered tuff silicified, chloritized 1%-3% disseminated fine pyrite 243.5 lower contact.	0829	242.0	243.5	1.5	Nil	n/a
243.5	246.0	INTERMEDIATE TUFF (4)						
246.0	258.0	INTERMEDIATE TUFF (4) Intermediate tuff 3%-5% very fine disseminated pyrite, fragments show fabric Altered tuff sharp undulating upper contact silicified, chloritized 3%-5% disseminated fine pyrite.	0830 0831 0832 0833	246.0 249.5 253.5 256.0	249.5 253.5 256.0 258.5	3.5 4.0 2.5 2.5	0.005 0.005 0.005 0.005	n/a n/a n/a n/a
258.0	263.0	PYROCLASTIC CONGLOMERATE (2)						

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			0834	258.5	260.0	1.5	0.005	n/a
			0835	260.0	264.0	4.0	0.005	n/a
263.0	265.0	LAMPROPHYRE (11) Pyroclastic conglomerate (silicified) subtle change from above unit tuff and minor mafic fragments in light green matrix Lamprophyre dyke.						
265.0	270.5	INTERMEDIATE TUFF (4)	0836	268.5	271.0	2.5	0.010	n/a
270.5	281.0	INTERMEDIATE TUFF (4) Tuff/lapilli tuff (silicified) light green matrix, dark green fragments 5%-8% disseminated pyrite (fine) Intermediate tuff, upper contact 45 dss. medium green matrix, dark green fragments silicified fragments with minor calcite content < 10% sulphides.						
281.0	296.0	FELSIC TUFF (3) Siliceous tuff , upper contact (chloritized) light grey matrix, dark green/grey fragments 281.0 - 283.0 intense sulphides, coarse disseminated pyrite (euhedral) 5%-8%.	0797	281.0	283.5	2.5	0.075	0.080
296.0	298.0	FELSIC TUFF (3) Felsic tuff.						
298.0	301.5	INTERMEDIATE TUFF (4) Intermediate tu / lapilli tuff upper contact @ 30 - 35 dss felsic fragments in medium green matrix 3% - 5% fine disseminated pyrite.						
301.5	336.5	MAFIC TUFF (5)						

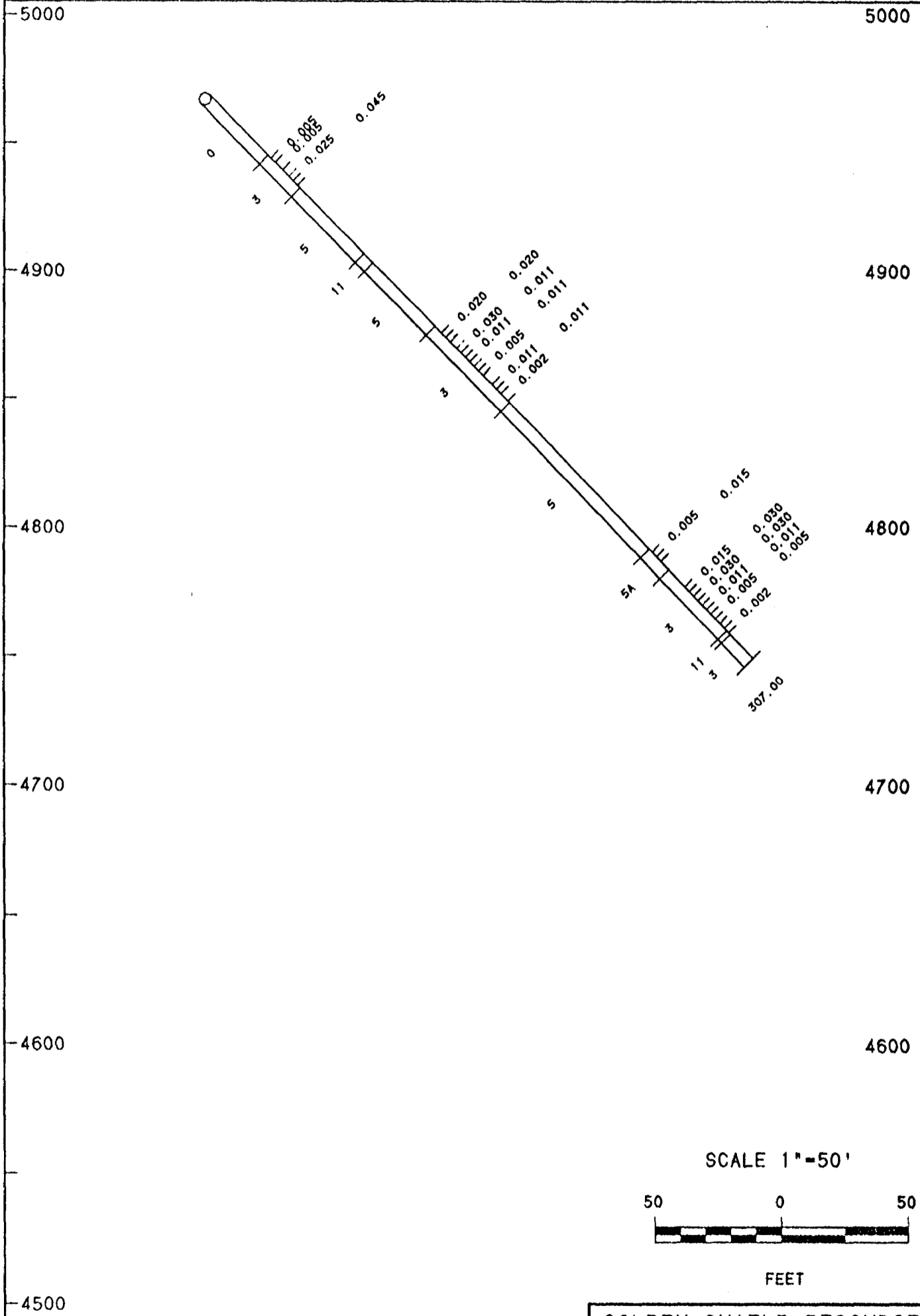
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
336.5	350.0	FELSIC TUFF (3)						
		Mafic tuff upper contact @ 45 - 50 dss 1% - 3%	0798	336.5	339.0	2.5	Nil	n/a
		disseminated pyrite, quartz stringers @ 330.0 - 335.0	0799	339.0	341.5	2.5	0.002	n/a
		highly fractured, siliceous replacement Siliceous tuff	0800	341.5	344.0	2.5	0.015	n/a
		/ lapilli tuff light green matrix, dark green fragments	0801	344.0	348.0	4.0	0.015	n/a
		1% - 3% fine disseminated pyrite throughout intense	0802	348.0	350.0	2.0	0.020	n/a
		mineralization in fractures (entrainment) minor						
		silicified fracture @ 348.0 intense sulphide						
		entrainment in fractures 0 - 45 dss @ 349.0 - 350.0						
		intense pyrite in silicified fracture (vuggy - calcite						
		content) pyrite is coarse - fine disseminated.						

86-02

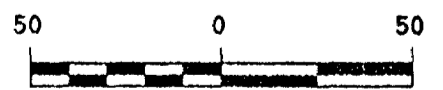
1051.00N
3327.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-02	
E 3327	AZIMUTH 180
N 1051	DIP -45
Scale 1" = 50'	

Coords: 1051.0N 3327.0E

HOLE NO.: 86-02

Azimuth: 180.0

Mirado Project

Dip: -45.0

Elevation: 4966.0

Length: 307.0

Dip Tests

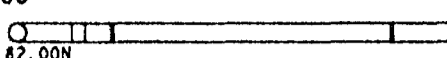
290.00 180.0 -46.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	33.0	OVERBURDEN (0)						
33.0	51.0	FELSIC TUFF (3)	0870	34.5	37.0	2.5	0.005	n/a
			0871	37.0	41.0	4.0	0.005	n/a
			0872	44.5	47.0	2.5	0.025	n/a
			0873	47.0	49.5	2.5	0.045	0.045
51.0	87.0	MAFIC TUFF (5)						
87.0	92.0	LAMPROPHYRE (11)						
92.0	127.0	MAFIC TUFF (5)						
127.0	169.0	FELSIC TUFF (3)	0874	130.5	133.0	2.5	0.020	n/a
			0875	133.0	135.5	2.5	0.020	n/a
			0876	139.0	141.5	2.5	0.030	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			0877	141.5	144.0	2.5	0.010	n/a
			0878	144.0	146.5	2.5	0.010	n/a
			0879	149.0	151.5	2.5	0.010	n/a
			0880	151.5	154.0	2.5	0.005	n/a
			0881	159.0	161.5	2.5	0.010	n/a
			0882	161.5	164.0	2.5	0.010	0.010
			0883	164.0	168.0	4.0	0.002	n/a
169.0	248.0	MAFIC TUFF (5)						
248.0	259.0	MAFIC TUFF +/- LAPILLI (5A)						
			0803	249.5	252.0	2.5	0.005	n/a
			0804	252.0	254.5	2.5	0.015	n/a
259.0	292.0	FELSIC TUFF (3)						
			0805	268.0	270.5	2.5	0.015	n/a
			0806	270.5	273.0	2.5	0.030	n/a
			0807	273.0	275.5	2.5	0.030	0.025
			0808	275.5	278.0	2.5	0.030	n/a
			0809	278.0	280.5	2.5	0.010	n/a
			0810	280.5	283.0	2.5	0.010	n/a
			0811	283.0	285.5	2.5	0.005	n/a
			0812	285.5	288.0	2.5	0.005	n/a
			0813	290.5	293.0	2.5	0.002	n/a
292.0	294.0	LAMPROPHYRE (11)						
294.0	307.0	FELSIC TUFF (3)						

86-03

1182.00N
3618.00E



PLAN VIEW

-5000

5000

-4900

4900

-4800

4800

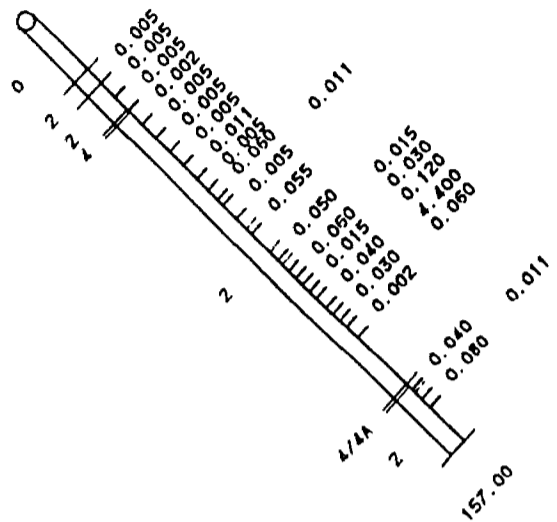
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4700

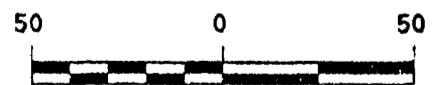
-4600

4600

-4500



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE 86-03

E 3618
N 1182

AZIMUTH 228
DIP -45

Scale 1" = 50'

Coords: 1182.0N 3618.0E

HOLE NO.: 86-03

Azimuth: 228.0

Mirado Project

Dip: -45.0

Elevation: 4977.0

Length: 157.0

Dip Tests

157.00 228.0 -43.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	20.0	OVERBURDEN (0)						
20.0	25.0	PYROCLASTIC CONGLOMERATE (2)	86-3A	20.0	25.0	5.0	0.005	n/a
25.0	34.5	PYROCLASTIC CONGLOMERATE (2)	86-3B 86-3C	25.0 30.0	30.0 35.0	5.0 5.0	0.005 0.005	n/a n/a
34.5	35.5	INTERMEDIATE TUFF (4)	86-3D	35.0	40.0	5.0	0.002	n/a
35.5	136.0	PYROCLASTIC CONGLOMERATE (2)	86-3E 86-3F 86-3G 86-3H 86-3I 86-3J	40.0 45.0 50.0 55.0 60.0 64.0	45.0 50.0 55.0 60.0 64.0 67.5	5.0 5.0 5.0 5.0 4.0 3.5	0.005 0.005 0.005 0.010 0.005 0.060	n/a n/a n/a n/a n/a n/a

Golden Shield Resources Ltd.

Page: 2

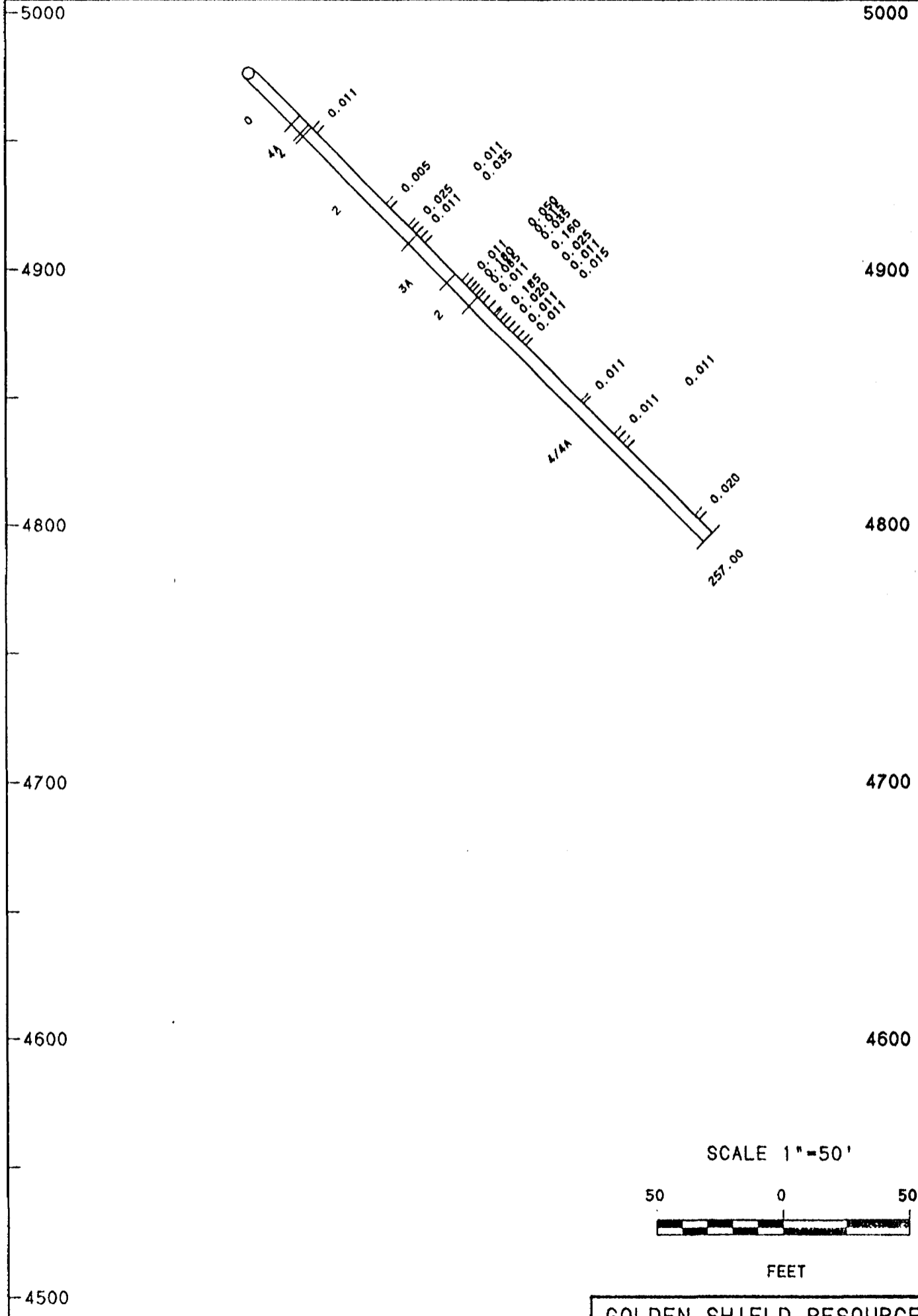
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			0837	67.5	69.5	2.0	0.010	n/a
			86-3K	69.5	74.5	5.0	0.005	n/a
			0838	78.0	80.0	2.0	0.055	0.065
			0839	86.5	89.5	3.0	0.050	n/a
			0840	91.0	93.5	2.5	0.015	n/a
			0841	93.5	96.0	2.5	0.060	n/a
			0842	96.0	98.5	2.5	0.030	n/a
			0843	98.5	101.0	2.5	0.015	n/a
			0844	101.0	103.5	2.5	0.120	n/a
			0844A	103.5	107.0	3.5	0.040	n/a
			0845	107.0	109.5	2.5	4.400	4.530
			0845A	109.5	112.0	2.5	0.030	n/a
			0845B	112.0	114.5	2.5	0.060	0.080
			0845C	114.5	118.5	4.0	0.002	n/a
136.0	137.0	INTERMEDIATE TUFF +/- LAPILLI (4/4A)						
			0846	136.0	138.0	2.0	0.040	n/a
137.0	157.0	PYROCLASTIC CONGLOMERATE (2)						
			0847	139.0	141.5	2.5	0.010	n/a
			0848	141.5	144.5	3.0	0.080	n/a

86-04

1272.00N
3595.00E



PLAN VIEW



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE 86-04	
E 3595 N 1272	AZIMUTH 230 DIP -45
Scale 1" = 50'	

Coords: 1272.0N 3595.0E

HOLE NO.: 86-04

Azimuth: 230.0

Mirado Project

Dip: -45.0

Elevation: 4976.0

Length: 257.0

Dip Tests

250.00 -45.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	26.5	OVERBURDEN (0)						
26.5	31.5	INTERMEDIATE TUFF +/- LAPILLI (4A)						
31.5	33.0	INTERMEDIATE TUFF (4)						
33.0	92.0	PYROCLASTIC CONGLOMERATE (2)	0867	33.5	36.0	2.5	0.010	n/a
			0868	74.5	77.0	2.5	0.005	n/a
			0869	87.0	89.0	2.0	0.025	n/a
			0849	89.0	91.5	2.5	0.010	n/a
			0850	91.5	94.0	2.5	0.010	n/a
92.0	113.5	FELSIC TUFF +/- LAPILLI (3A)	0851	94.0	96.5	2.5	0.035	n/a
113.5	126.0	PYROCLASTIC CONGLOMERATE (2)	0852	117.0	119.5	2.5	0.010	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			0853	119.5	121.5	2.0	0.050	n/a
			0854	121.5	123.0	1.5	0.180	0.240
			0855	123.0	125.0	2.0	0.015	n/a
			0856	125.0	126.5	1.5	0.085	n/a
126.0	257.0	INTERMEDIATE TUFF +/- LAPILLI (4/4A)						
			0857	126.5	129.0	2.5	0.035	n/a
			0380	129.0	132.0	3.0	0.010	n/a
			0381	132.0	135.0	3.0	0.160	n/a
			0858	136.0	138.5	2.5	0.185	0.190
			0382	138.5	140.5	2.0	0.025	n/a
			0383	140.5	143.0	2.5	0.020	n/a
			0384	143.0	145.5	2.5	0.010	n/a
			0385	145.5	148.0	2.5	0.010	n/a
			0386	148.0	150.5	2.5	0.015	n/a
			0387	150.5	152.5	2.0	0.010	n/a
			0859	183.5	185.0	1.5	0.010	n/a
			0860	202.0	204.5	2.5	0.010	n/a
			0861	207.0	209.5	2.5	0.010	n/a
			0862	247.0	249.5	2.5	0.020	n/a

Coords: 1154.0N 3291.0E

HOLE NO.: 86-05

Azimuth: 176.0

Mirado Project

Dip: -45.0

Elevation: 4967.0

Length: 327.0

Dip Tests

327.00 -45.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	31.0	OVERBURDEN (0)						
31.0	158.0	INTERMEDIATE TUFF +/- LAPILLI (4/4A)						
			0863	51.0	53.5	2.5	0.045	n/a
			0864	53.5	58.0	4.5	0.025	n/a
			0865	60.0	62.5	2.5	0.035	n/a
			0866	70.5	73.0	2.5	0.005	n/a
			0884	101.0	103.0	2.0	0.050	0.055
			0885	108.0	110.5	2.5	0.020	n/a
			0886	130.0	132.5	2.5	0.010	n/a
			0887	140.0	144.5	4.5	0.015	n/a
158.0	168.0	MAFIC TUFF +/- LAPILLI (5/5A)						
168.0	169.0	MAFIC TUFF (5)						
169.0	240.5	MAFIC TUFF +/- LAPILLI (5A)						
			0888	212.0	214.5	2.5	0.020	n/a
			0889	214.5	217.0	2.5	0.015	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			0890	219.0	221.5	2.5	0.040	n/a
			0388	221.5	224.0	2.5	0.020	n/a
			0891	224.0	226.5	2.5	0.020	n/a
			0892	226.5	229.0	2.5	0.020	n/a
			0893	229.0	231.0	2.0	0.020	n/a
			0389	231.0	234.5	3.5	0.035	n/a
			0894	234.5	237.0	2.5	0.300	n/a
			0895	237.0	239.0	2.0	0.150	n/a
			0390	239.0	241.0	2.0	0.010	n/a
240.5	241.5	CHLORIC DYKE (9)						
			0391	241.0	244.5	3.5	0.002	n/a
241.5	261.0	INTERMEDIATE TUFF +/- LAPILLI (4A)						
			0392	244.5	247.0	2.5	0.005	n/a
			0393	247.0	249.5	2.5	0.005	n/a
			0394	249.5	252.0	2.5	0.005	n/a
			0395	252.0	257.0	5.0	0.005	n/a
			0396	257.0	260.0	3.0	0.010	n/a
261.0	262.5	LAMPROPHYRE (11)						
262.5	263.0	LAMPROPHYRE (11)						
263.0	284.5	FELSIC TUFF (3)						
			0397	263.0	267.0	4.0	0.020	n/a
			0896	267.0	269.5	2.5	0.300	n/a
			0897	269.5	272.0	2.5	0.370	0.355
			0398	272.0	274.5	2.5	0.020	n/a
			0339	274.5	278.0	3.5	0.015	n/a
			0898	278.0	280.5	2.5	0.300	n/a
			0899	280.5	283.0	2.5	0.005	n/a
284.5	327.0	INTERMEDIATE TUFF +/- LAPILLI (4/4A)						
			0900	297.0	299.5	2.5	0.025	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			0901	299.5	302.0	2.5	0.005	n/a
			0902	311.0	313.5	2.5	0.005	n/a
			0903	313.5	316.0	2.5	0.010	n/a
			0904	321.0	323.5	2.5	0.010	n/a
			0905	323.5	327.0	3.5	0.010	n/a

Coords: 826.0N 3296.0E

HOLE NO.: 86-06

Azimuth: 217.0

Mirado Project

Dip: -45.0

Elevation: 4965.0

Length: 250.0

Dip Tests

250.00 -45.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	57.0	OVERBURDEN (0)						
57.0	57.5	OVERBURDEN (0)						
57.5	87.0	FELSIC TUFF (3)						
			0906	59.0	61.5	2.5	0.010	n/a
			0907	61.5	64.0	2.5	0.010	n/a
			0907A	64.0	68.0	4.0	0.010	n/a
			0908	68.0	70.5	2.5	0.260	0.240
			0909	70.5	73.0	2.5	0.020	n/a
			0910	73.0	75.5	2.5	0.030	n/a
87.0	91.0	MAFIC TUFF (5)						
91.0	112.0	FELSIC TUFF (3)						
112.0	116.5	INTERMEDIATE TUFF (4)						

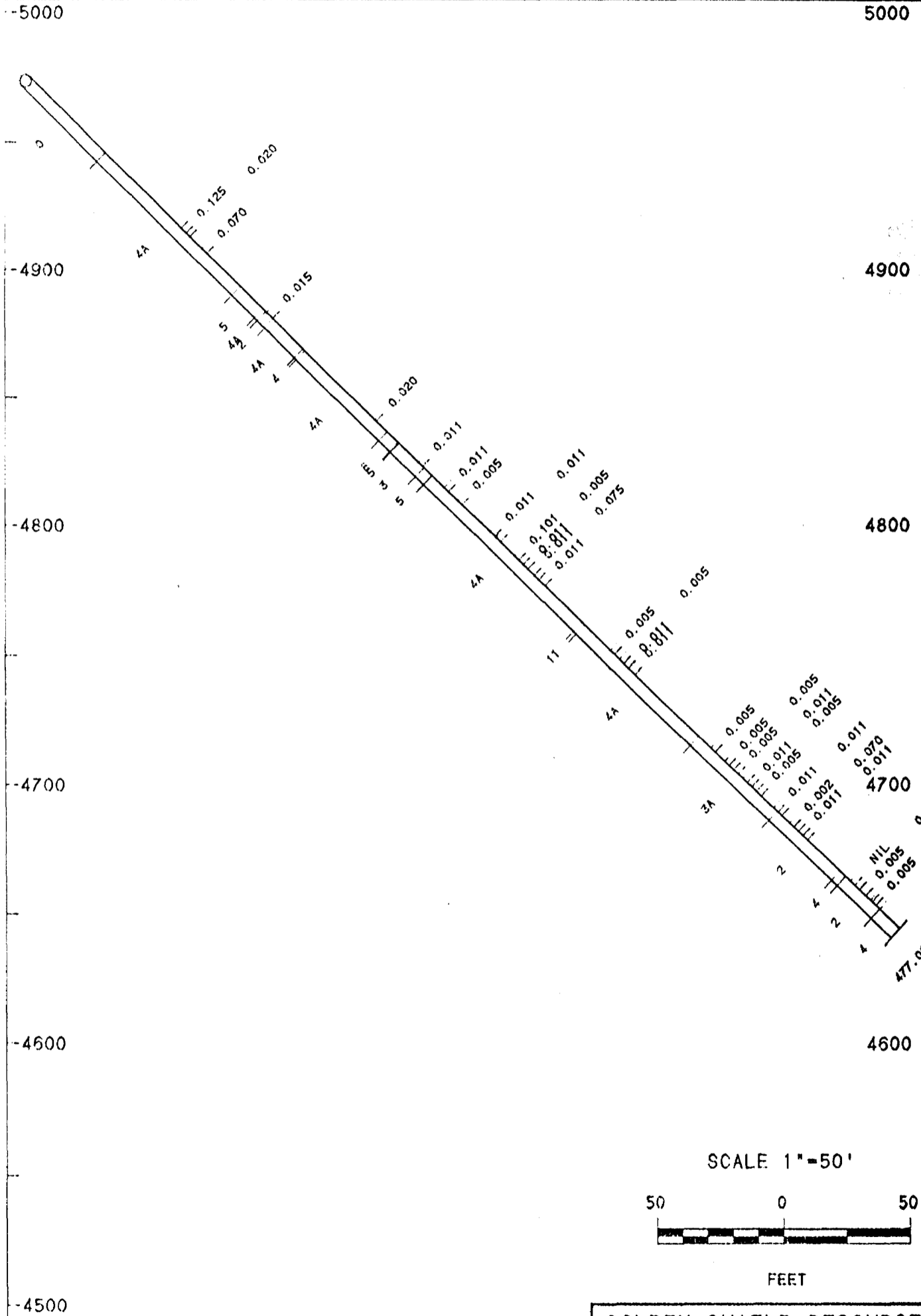
Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
116.5	247.5	INTERMEDIATE TUFF +/- LAPILLI (4/4A)	0911	123.5	126.0	2.5	0.005	n/a
			0912	126.0	128.5	2.5	0.005	n/a
			0913	154.5	157.0	2.5	0.010	n/a
			0914	157.0	159.5	2.5	0.010	n/a
			0915	159.5	162.0	2.5	0.050	n/a
			0916	162.0	165.0	3.0	0.010	n/a
			0917	201.0	204.5	3.5	0.070	0.060
			0918	204.5	207.0	2.5	0.010	n/a
			0919	213.5	216.0	2.5	0.010	n/a
			0920	216.0	218.5	2.5	0.050	n/a
			0921	229.0	232.0	3.0	0.002	n/a
			0922	232.0	235.0	3.0	0.005	n/a
247.5	250.0	MAFIC TUFF (5)						

86-07

PLAN VIEW



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-07	
E 3317	AZIMUTH 215
N 1157	DIP -45
Scale 1" = 50'	

Coords: 1157.0N 3317.0E

HOLE NO.: 86-07

Azimuth: 215.0

Mirado Project

Dip: -45.0

Elevation: 4973.0

Length: 477.0

Dip Tests

475.00 215.0 -43.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	42.0	OVERBURDEN (0)						
42.0	117.0	INTERMEDIATE TUFF +/- LAPILLI (4A)	0923	84.0	87.0	3.0	0.125	0.150
			0924	87.0	89.0	2.0	0.020	n/a
			0926	95.5	98.5	3.0	0.070	n/a
117.0	129.5	MAFIC TUFF (5)						
129.5	131.0	INTERMEDIATE TUFF +/- LAPILLI (4A)						
131.0	135.0	PYROCLASTIC CONGLOMERATE (2)	0925	131.5	135.0	3.5	0.015	n/a
135.0	151.5	INTERMEDIATE TUFF +/- LAPILLI (4A)						
151.5	152.5	INTERMEDIATE TUFF (4)						

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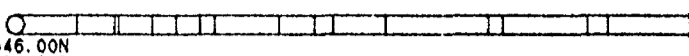
Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
152.5	198.0	INTERMEDIATE TUFF +/- LAPILLI (4A)	0927	191.0	192.0	1.0	0.020	n/a
198.0	204.0	METADIORITE (8)						
204.0	204.5	MAFIC TUFF (5)						
204.5	218.0	FELSIC TUFF (3)	0928	215.0	217.5	2.5	0.010	n/a
218.0	222.5	MAFIC TUFF (5)						
222.5	304.5	INTERMEDIATE TUFF +/- LAPILLI (4A)	0929	229.0	231.5	2.5	0.010	n/a
			0930	236.5	239.0	2.5	0.005	n/a
			0931	254.5	257.0	2.5	0.010	n/a
			0932	257.5	260.0	2.5	0.010	n/a
			0933	267.5	270.0	2.5	0.100	0.085
			0934	270.0	272.5	2.5	0.005	n/a
			0400	272.5	275.0	2.5	0.010	n/a
			0401	275.0	278.5	3.5	0.010	n/a
			0935	278.5	281.0	2.5	0.075	0.085
			0402	281.0	284.5	3.5	0.010	n/a
304.5	306.0	LAMPROPHYRE (11)						
306.0	368.0	INTERMEDIATE TUFF +/- LAPILLI (4A)	0936	320.0	322.5	2.5	0.005	n/a
			0937	325.0	327.5	2.5	0.005	n/a
			0938	327.5	330.0	2.5	0.010	n/a
			0939	330.0	333.5	3.5	0.010	n/a

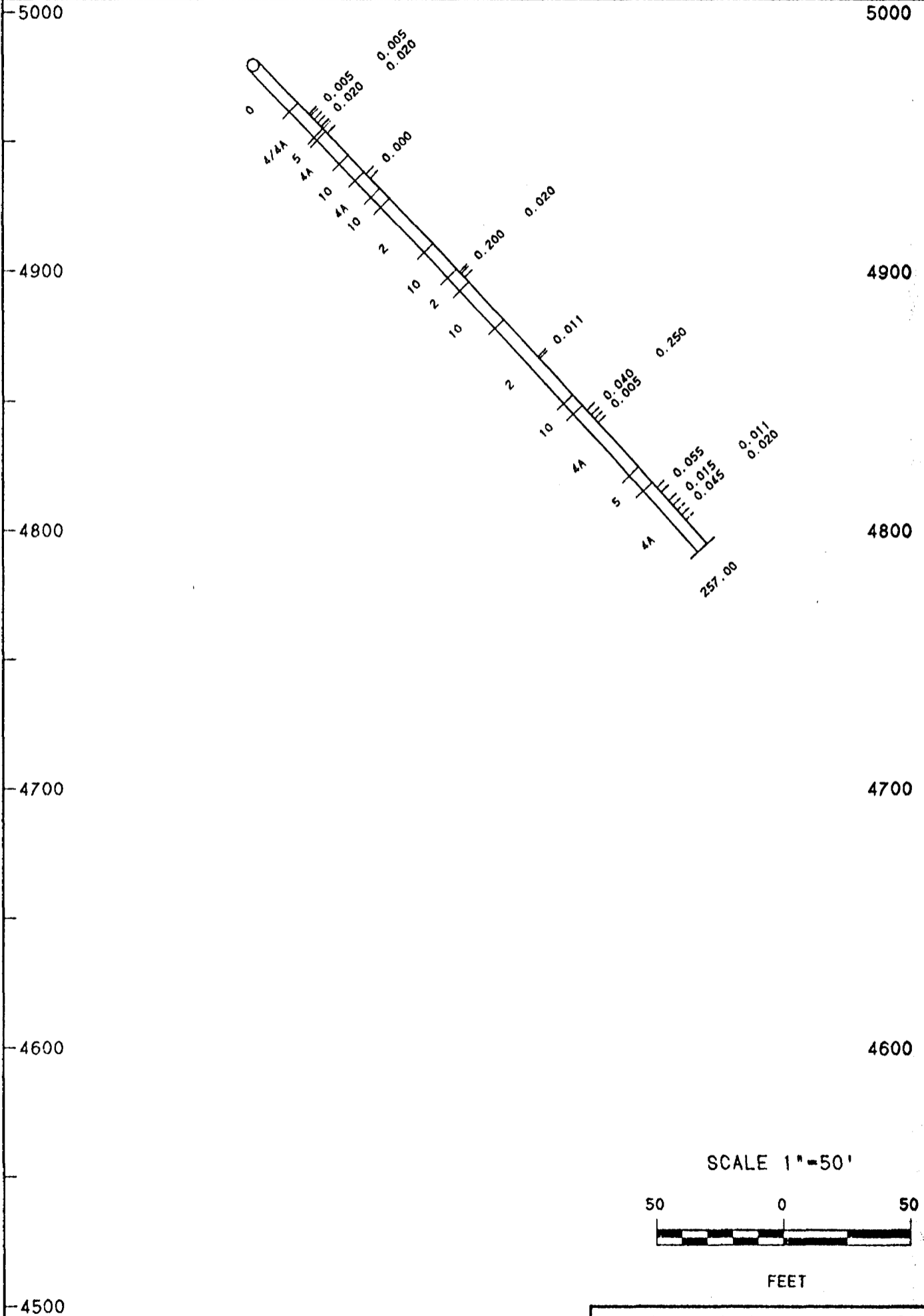
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
368.0	410.5	FELSIC TUFF +/- LAPILLI (3A)	0940	374.5	377.0	2.5	0.005	n/a
			0941	382.0	384.5	2.5	0.005	n/a
			0942	384.5	387.0	2.5	0.005	n/a
			0943	387.0	389.5	2.5	0.005	n/a
			0944	392.0	394.5	2.5	0.010	n/a
			0945	394.5	397.0	2.5	0.010	n/a
			0946	397.0	399.5	2.5	0.005	n/a
			0947	399.5	402.0	2.5	0.005	n/a
			0952	408.5	411.0	2.5	0.010	n/a
410.5	444.5	PYROCLASTIC CONGLOMERATE (2)	0953	411.0	413.0	2.0	0.010	n/a
			0948	417.0	419.5	2.5	0.002	n/a
			0949	419.5	422.0	2.5	0.070	0.075
			0950	422.0	424.5	2.5	0.010	n/a
			0951	424.5	427.0	2.5	0.010	n/a
444.5	447.5	INTERMEDIATE TUFF (4)						
447.5	466.0	PYROCLASTIC CONGLOMERATE (2)	0954	450.0	452.5	2.5	Nil	n/a
			0955	452.5	455.0	2.5	0.002	n/a
			0956	455.0	458.5	3.5	0.005	n/a
			0957	458.5	461.0	2.5	0.005	n/a
			0958	462.0	464.0	2.0	0.005	n/a
			0959	464.0	466.0	2.0	0.005	n/a
466.0	477.0	INTERMEDIATE TUFF (4)						

86-08

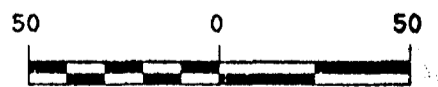
1346.00N
3557.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-08	
E 3557	AZIMUTH 230
N 1346	DIP -45
Scale 1" = 50'	

Coords: 1346.0N 3557.0E

HOLE NO.: 86-08

Azimuth: 230.0

Mirado Project

Dip: -45.0

Elevation: 4979.0

Length: 257.0

Dip Tests

257.00 -48.0

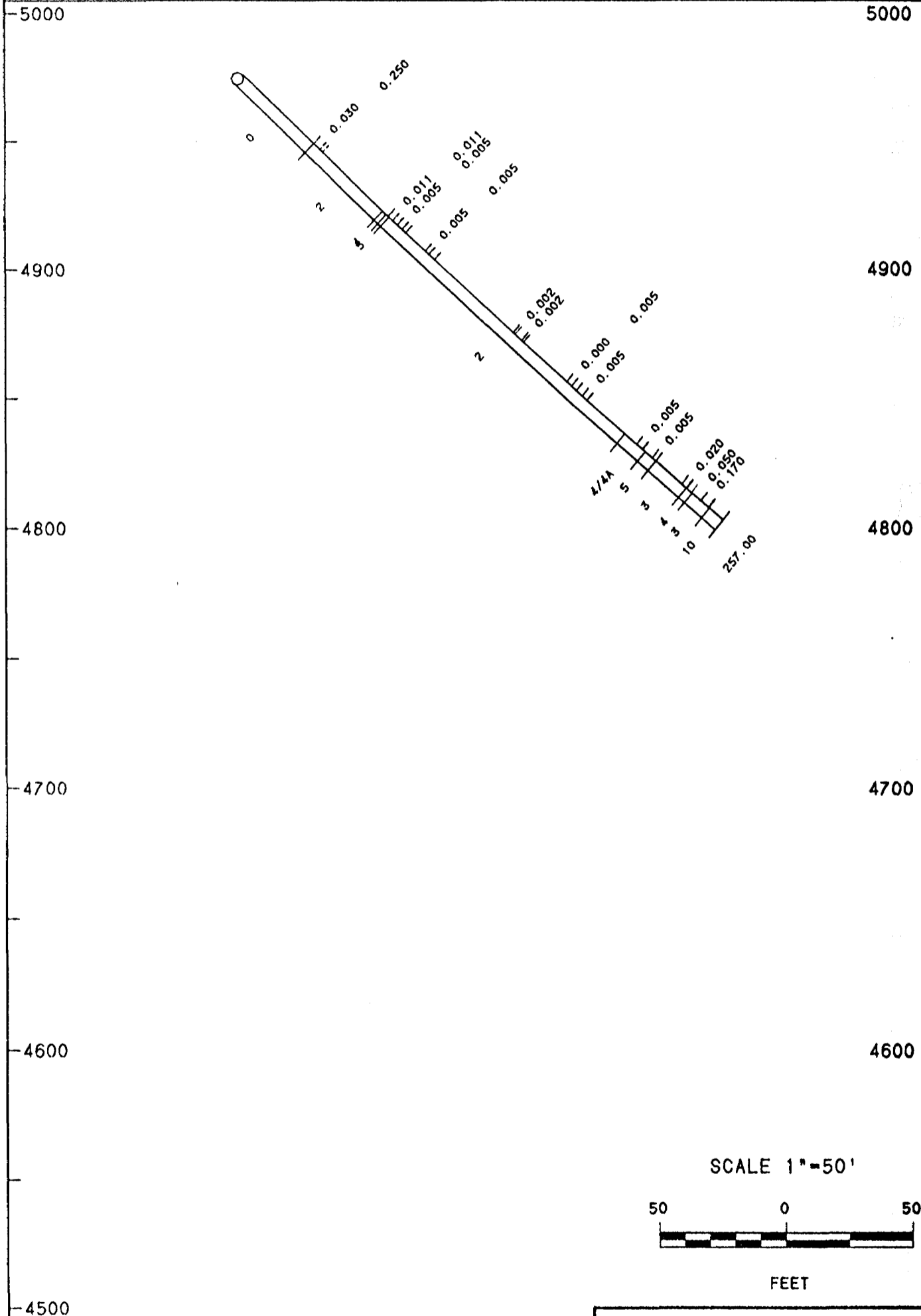
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	23.0	OVERBURDEN (0)						
23.0	37.0	INTERMEDIATE TUFF +/- LAPILLI (4/4A)	0960	29.0	30.0	1.0	0.005	n/a
			0961	32.0	34.0	2.0	0.005	n/a
			0962	34.0	36.0	2.0	0.020	n/a
37.0	38.5	MAFIC TUFF (5)	0963	37.0	39.5	2.5	0.020	n/a
38.5	51.0	INTERMEDIATE TUFF +/- LAPILLI (4A)						
51.0	60.0	SYENITE (10)						
60.0	69.0	INTERMEDIATE TUFF +/- LAPILLI (4A)	0964	61.0	63.5	2.5	0.000	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
69.0	74.5	SYENITE (10)						
74.5	99.0	PYROCLASTIC CONGLOMERATE (2)						
99.0	112.5	SYENITE (10)						
112.5	119.5	PYROCLASTIC CONGLOMERATE (2)						
			0965	114.0	115.0	1.0	0.200	0.210
			0966	115.0	117.0	2.0	0.020	n/a
119.5	139.5	SYENITE (10)						
139.5	179.0	PYROCLASTIC CONGLOMERATE (2)						
			0967	159.0	160.0	1.0	0.010	n/a
179.0	184.5	SYENITE (10)						
184.5	217.0	INTERMEDIATE TUFF +/- LAPILLI (4A)						
			0968	187.0	189.5	2.5	0.040	n/a
			0969	189.5	191.5	2.0	0.250	0.240
			0970	191.5	193.5	2.0	0.005	n/a
217.0	225.0	MAFIC TUFF (5)						
225.0	257.0	INTERMEDIATE TUFF +/- LAPILLI (4A)						
			0971	227.5	230.0	2.5	0.055	n/a
			0972	234.5	237.0	2.5	0.015	n/a
			0973	237.0	239.5	2.5	0.010	n/a
			0974	239.5	242.0	2.5	0.045	n/a
			0975	242.0	244.5	2.5	0.020	n/a

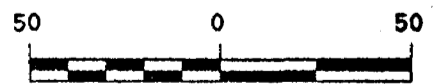
86-09

1394.00N
3524.00E

PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-09	
E 3524	AZIMUTH 230
N 1394	DIP -45
Scale 1" = 50'	

Coords: 1394.0N 3524.0E

HOLE NO.: 86-09

Azimuth: 230.0

Mirado Project

Dip: -45.0

Elevation: 4974.0

Length: 257.0

Dip Tests

257.00 230.0 -40.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	39.0	OVERBURDEN (0)						
39.0	77.0	PYROCLASTIC CONGLOMERATE (2)						
			0976	39.0	42.5	3.5	0.030	n/a
			0977	42.5	44.0	1.5	0.250	0.270
77.0	79.0	INTERMEDIATE TUFF (4)						
79.0	80.5	MAFIC TUFF (5)						
			0978	80.0	82.5	2.5	0.010	n/a
80.5	206.0	PYROCLASTIC CONGLOMERATE (2)						
			0979	82.5	85.0	2.5	0.010	n/a
			0980	85.0	87.5	2.5	0.005	n/a
			0981	87.5	89.5	2.0	0.005	n/a
			0982	100.0	102.0	2.0	0.005	n/a
			0983	102.0	105.0	3.0	0.005	n/a
			0984	147.0	148.0	1.0	0.002	n/a
			0985	151.5	152.5	1.0	0.002	n/a

Golden Shield Resources Ltd.

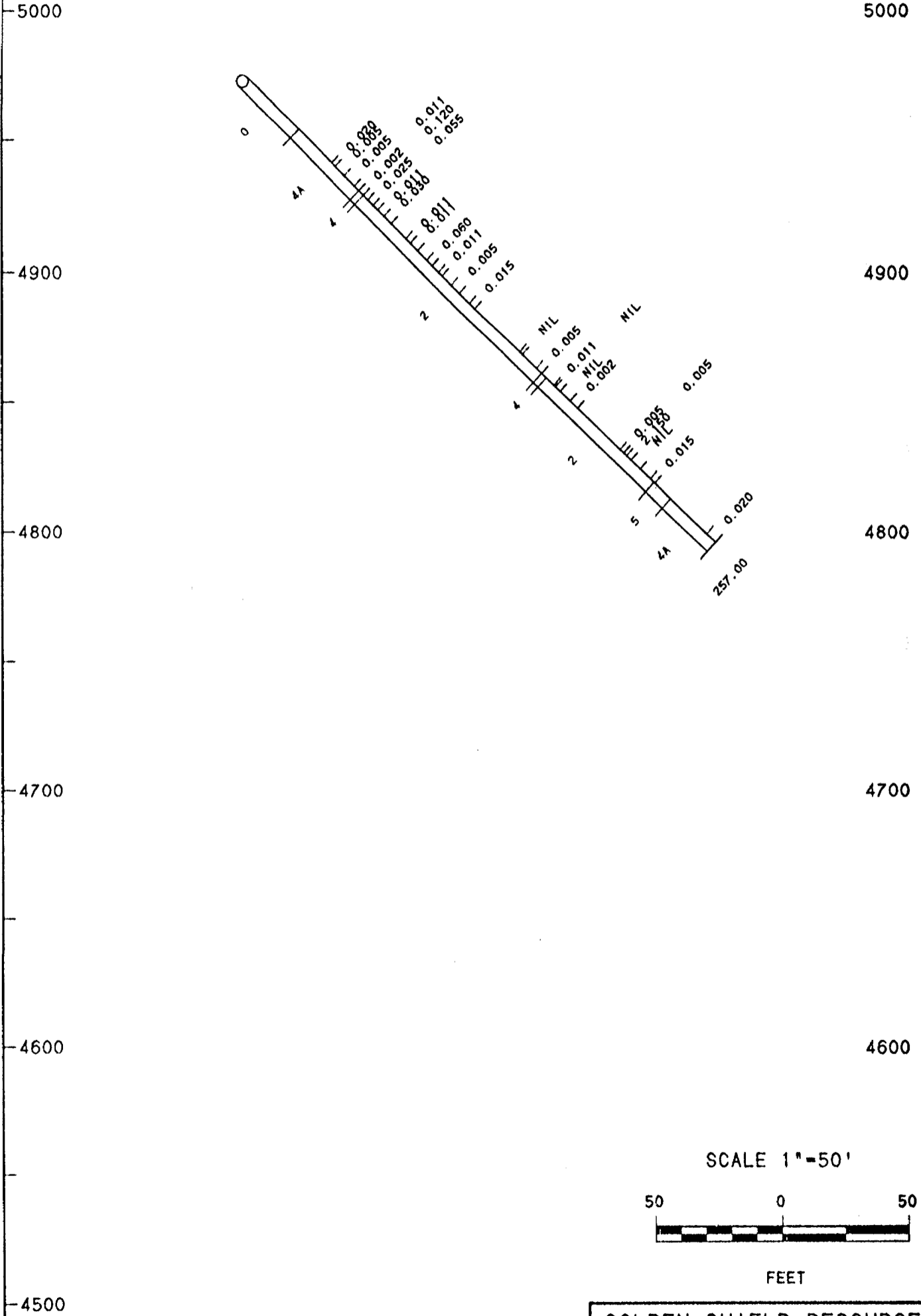
Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			0986	175.5	178.0	2.5	0.000	n/a
			0987	178.0	180.5	2.5	0.005	n/a
			0988	183.5	186.0	2.5	0.005	n/a
206.0	216.5	INTERMEDIATE TUFF +/- LAPILLI (4/4A)						
			0989	212.0	215.0	3.0	0.005	n/a
216.5	222.0	MAFIC TUFF (5)						
			0990	220.0	222.0	2.0	0.005	n/a
222.0	238.0	FELSIC TUFF (3)						
			0991	235.5	238.0	2.5	0.020	n/a
238.0	241.0	INTERMEDIATE TUFF (4)						
			0992	240.5	245.5	5.0	0.050	n/a
241.0	250.0	FELSIC TUFF (3)						
			0993	245.5	249.5	4.0	0.170	0.140
250.0	257.0	SYENITE (10)						

86-10

1432.00N
3482.00E

PLAN VIEW



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-10	
E 3482	AZIMUTH 230
N 1432	DIP -45
Scale 1" = 50'	

Coords: 1432.0N 3482.0E

HOLE NO.: 86-10

Azimuth: 230.0

Mirado Project

Dip: -45.0

Elevation: 4972.0

Lensth: 257.0

Dip Tests

257.00 -43.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	29.0	OVERBURDEN (0)						
29.0	62.0	INTERMEDIATE TUFF +/- LAPILLI (4A)						
			0994	47.0	49.0	2.0	0.020	0.020
			0994A	49.0	54.0	5.0	0.005	n/a
			0994B	54.0	59.5	5.5	0.005	n/a
			0995	59.5	62.0	2.5	0.010	0.010
62.0	64.5	INTERMEDIATE TUFF (4)						
			0995A	62.0	64.5	2.5	0.002	n/a
64.5	162.5	PYROCLASTIC CONGLOMERATE (2)						
			0996	64.5	67.0	2.5	0.120	0.120
			0996A	67.0	70.0	3.0	0.025	n/a
			0997	70.0	72.5	2.5	0.055	0.050
			0998	72.5	76.0	3.5	0.010	0.010
			0999	76.0	80.0	4.0	0.030	0.030
			1000	88.0	90.5	2.5	0.010	0.010
			0301	90.5	94.5	4.0	0.010	n/a
			0302	99.5	102.5	3.0	0.060	0.060

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			0303	106.0	108.0	2.0	0.010	n/a
			0304	113.0	117.5	4.5	0.005	n/a
			0305	123.0	126.0	3.0	0.015	n/a
			0306	150.5	152.0	1.5	Nil	n/a
			0307	159.5	162.5	3.0	0.005	n/a
162.5	165.0	INTERMEDIATE TUFF (4)						
165.0	223.5	PYROCLASTIC CONGLOMERATE (2)						
			0308	169.0	170.0	1.0	0.010	n/a
			0309	170.0	172.5	2.5	Nil	n/a
			0310	172.5	178.0	5.5	Nil	n/a
			0311	178.0	182.0	4.0	0.002	n/a
			0312	205.0	207.0	2.0	0.005	n/a
			0312R	207.0	208.5	1.5	0.005	n/a
			0313	208.5	211.0	2.5	2.150	10.220
			0313R	211.0	216.0	5.0	Nil	n/a
			0314	221.5	224.0	2.5	0.015	n/a
223.5	232.5	MAFIC TUFF (5)						
232.5	257.0	INTERMEDIATE TUFF +/- LAPILLI (4A)						
			0315	252.0	257.0	5.0	0.020	0.015

86-11

1004.00N
3274.00E



5000

PLAN VIEW

5000

4900

4900

4800

4800

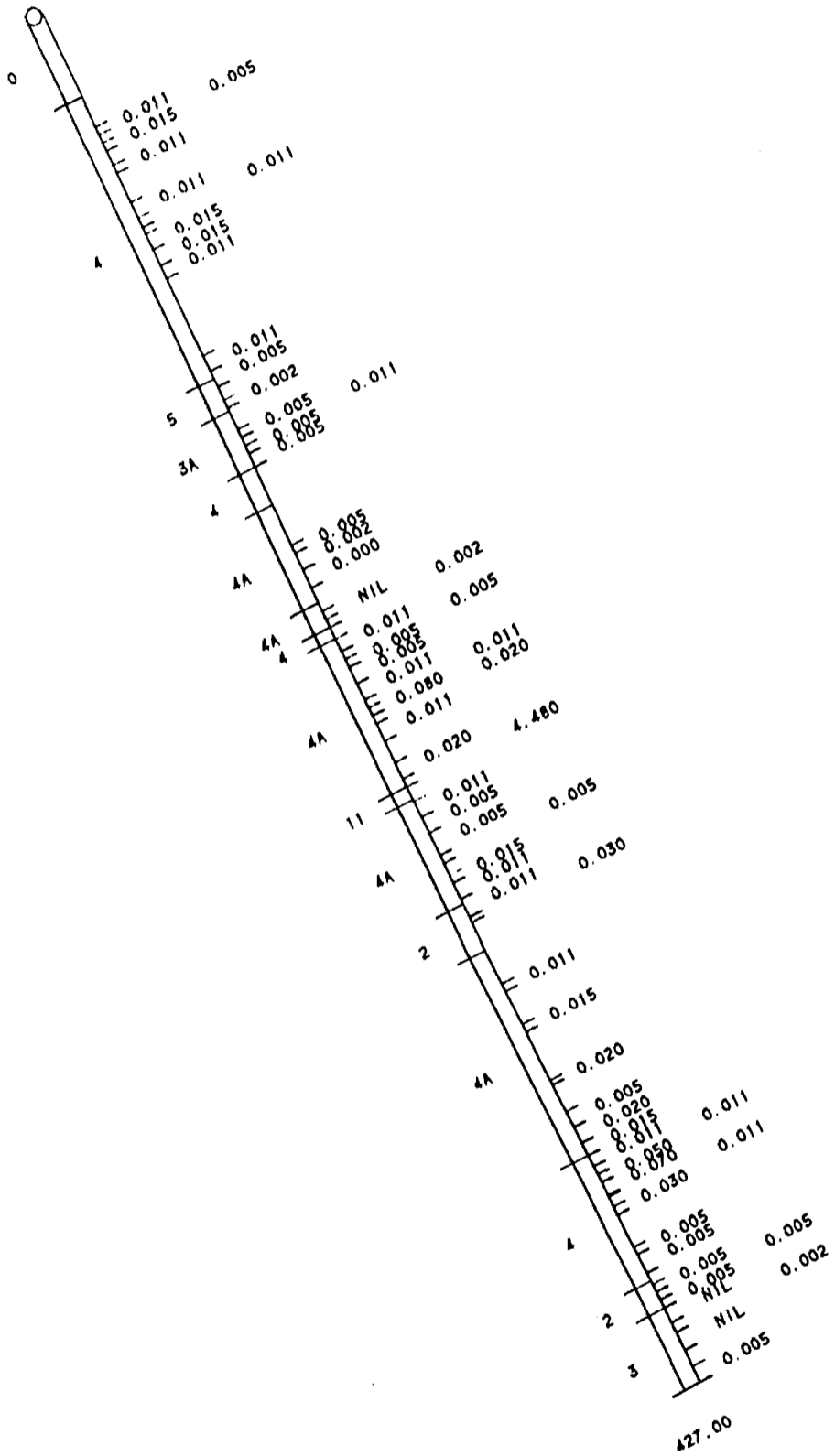
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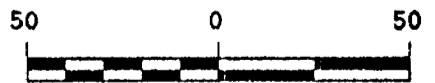
4600

4600

4500



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-11	
E 3274	AZIMUTH 215
N 1004	DIP -65
Scale 1" = 50'	

Coords: 1004.0N 3274.0E

HOLE NO.: 86-11

Azimuth: 215.0

Mirado Project

Dip: -65.0

Elevation: 4964.0

Length: 427.0

Dip Tests

427.00 -63.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	26.5	OVERBURDEN (0)						
26.5	114.5	INTERMEDIATE TUFF (4)						
			0316	35.5	38.0	2.5	0.010	n/a
			0317	38.0	40.5	2.5	0.005	n/a
			0318	40.5	43.0	2.5	0.015	n/a
			0319	47.5	50.0	2.5	0.010	n/a
			P-16	59.0	64.0	5.0	0.010	n/a
			P-17	64.0	67.0	3.0	0.010	n/a
			P-1	69.0	74.0	5.0	0.015	n/a
			P-2	74.0	79.0	5.0	0.015	0.010
			P-3	79.0	83.0	4.0	0.010	n/a
			P-4	107.0	112.0	5.0	0.010	n/a
			P-5	112.0	117.0	5.0	0.005	n/a
114.5	124.5	MAFIC TUFF (5)						
			0320	121.0	123.5	2.5	0.002	n/a
124.5	141.5	FELSIC TUFF +/- LAPILLI (3A)						
			0321	130.0	132.5	2.5	0.005	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			0322	132.5	135.0	2.5	0.010	n/a
			0323	135.0	137.5	2.5	0.005	n/a
			P-18	137.5	141.5	4.0	0.005	n/a
141.5	153.0	INTERMEDIATE TUFF (4)						
153.0	183.0	INTERMEDIATE TUFF +/- LAPILLI (4A)						
			0336	165.5	168.0	2.5	0.005	n/a
			P-19	168.0	173.0	5.0	0.002	n/a
			P-20	173.0	178.5	5.5	0.000	n/a
183.0	190.5	INTERMEDIATE TUFF +/- LAPILLI (4A)						
			0324	185.5	188.0	2.5	Nil	n/a
			0325	188.0	190.5	2.5	0.002	n/a
190.5	194.0	INTERMEDIATE TUFF (4)						
194.0	240.0	INTERMEDIATE TUFF +/- LAPILLI (4A)						
			P-6	194.0	198.0	4.0	0.010	n/a
			0326	198.0	200.5	2.5	0.005	n/a
			0327	200.5	203.0	2.5	0.005	n/a
			P-7	203.0	208.0	5.0	0.005	n/a
			P-8	208.0	213.0	5.0	0.010	n/a
			0328	213.0	215.5	2.5	0.010	n/a
			0329	215.5	218.0	2.5	0.080	n/a
			0330	218.0	220.5	2.5	0.020	n/a
			P-9	220.5	226.0	5.5	0.010	n/a
			P-10	232.5	237.5	5.0	0.020	n/a
			0331	237.5	240.0	2.5	4.480	4.640
240.0	244.0	LAMPROPHYRE (11)						
244.0	276.5	INTERMEDIATE TUFF +/- LAPILLI (4A)						
			P-11	244.5	249.5	5.0	0.010	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			P-12	249.5	254.5	5.0	0.005	n/a
			P-13	254.5	261.5	7.0	0.005	0.005
			0332	261.5	264.0	2.5	0.005	n/a
			0333	267.5	270.0	2.5	0.015	n/a
			P-14	270.0	275.0	5.0	0.010	n/a
			P-15	275.0	280.5	5.5	0.010	n/a
276.5	291.0	PYROCLASTIC CONGLOMERATE (2)						
			0334	280.7	282.2	1.5	0.030	n/a
291.0	356.0	INTERMEDIATE TUFF +/- LAPILLI (4A)						
			0335	301.5	304.0	2.5	0.010	n/a
			0337	314.5	317.0	2.5	0.015	n/a
			0338	332.0	333.5	1.5	0.020	n/a
			P-21	342.0	347.0	5.0	0.005	n/a
			P-22	347.0	352.0	5.0	0.020	n/a
			P-23	352.0	356.0	4.0	0.015	n/a
356.0	395.5	INTERMEDIATE TUFF (4)						
			P-24	356.0	359.5	3.5	0.010	n/a
			0339	359.5	362.0	2.5	0.010	n/a
			0340	362.0	364.5	2.5	0.050	n/a
			0341	364.5	368.5	4.0	0.070	0.060
			0342	369.0	372.0	3.0	0.010	n/a
			0343	372.0	374.5	2.5	0.030	n/a
			0344	384.5	387.0	2.5	0.005	n/a
			P-25	387.0	393.0	6.0	0.005	0.005
395.5	404.0	PYROCLASTIC CONGLOMERATE (2)						
			0345	396.5	399.0	2.5	0.005	n/a
			0346	399.0	401.5	2.5	0.005	n/a
			0347	401.5	404.0	2.5	0.005	n/a
404.0	427.0	FELSIC TUFF (3)						
			P-26	404.0	408.5	4.5	Nil	n/a
			P-27	408.5	411.5	3.0	0.002	n/a

Golden Shield Resources Ltd.

Page: 4

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			P-28	411.5	417.0	5.5	Nil	n/a
			P-29	422.0	427.0	5.0	0.005	0.005

86-12

850.00N
3340.00E



PLAN VIEW

5000

5000

4900

4900

4800

4800

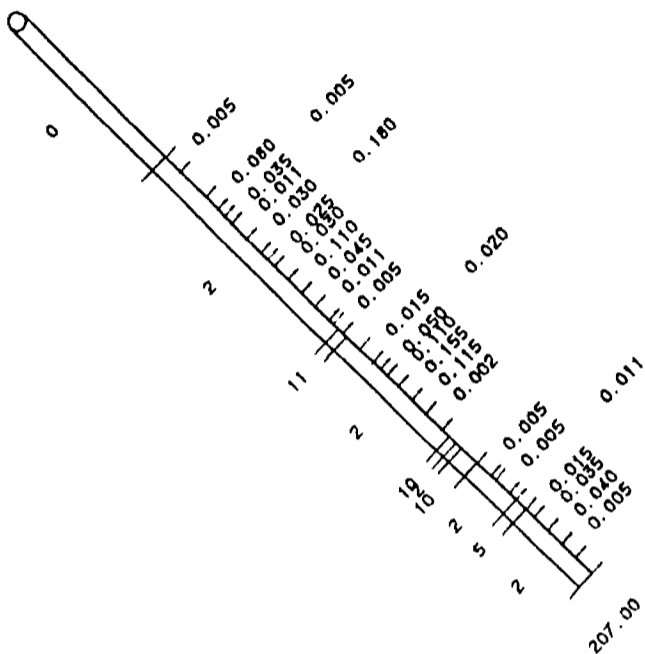
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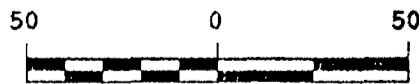
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4600

4500



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-12	
E 3340	AZIMUTH 270
N 850	DIP -45
Scale 1" = 50'	

Coords: 850.0N 3340.0E

HOLE NO.: 86-12

Azimuth: 270.0

Mirado Project

Dip: -45.0

Elevation: 4964.0

Length: 207.0

Dip Tests

207.00 -43.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	52.0	OVERBURDEN (0)						
52.0	115.5	PYROCLASTIC CONGLOMERATE (2)						
			Q-1	52.0	57.5	5.5	0.005	n/a
			Q-2	67.0	71.5	4.5	0.080	n/a
			Q348	71.5	74.0	2.5	0.005	n/a
			Q349	74.0	76.5	2.5	0.035	n/a
			Q-3	76.5	82.0	5.5	0.010	0.010
			Q-4	82.0	87.0	5.0	0.030	n/a
			Q350	87.0	89.5	2.5	0.180	0.170
			Q351	89.5	92.0	2.5	0.025	n/a
			Q-5	92.0	97.0	5.0	0.030	n/a
			Q-6	97.0	102.0	5.0	0.110	n/a
			Q-7	102.0	107.0	5.0	0.045	n/a
			Q-8	107.0	112.0	5.0	0.010	n/a
			Q-9	113.5	117.0	3.5	0.005	n/a
115.5	118.5	LAMPROPHYRE (11)						
118.5	155.5	PYROCLASTIC CONGLOMERATE (2)						

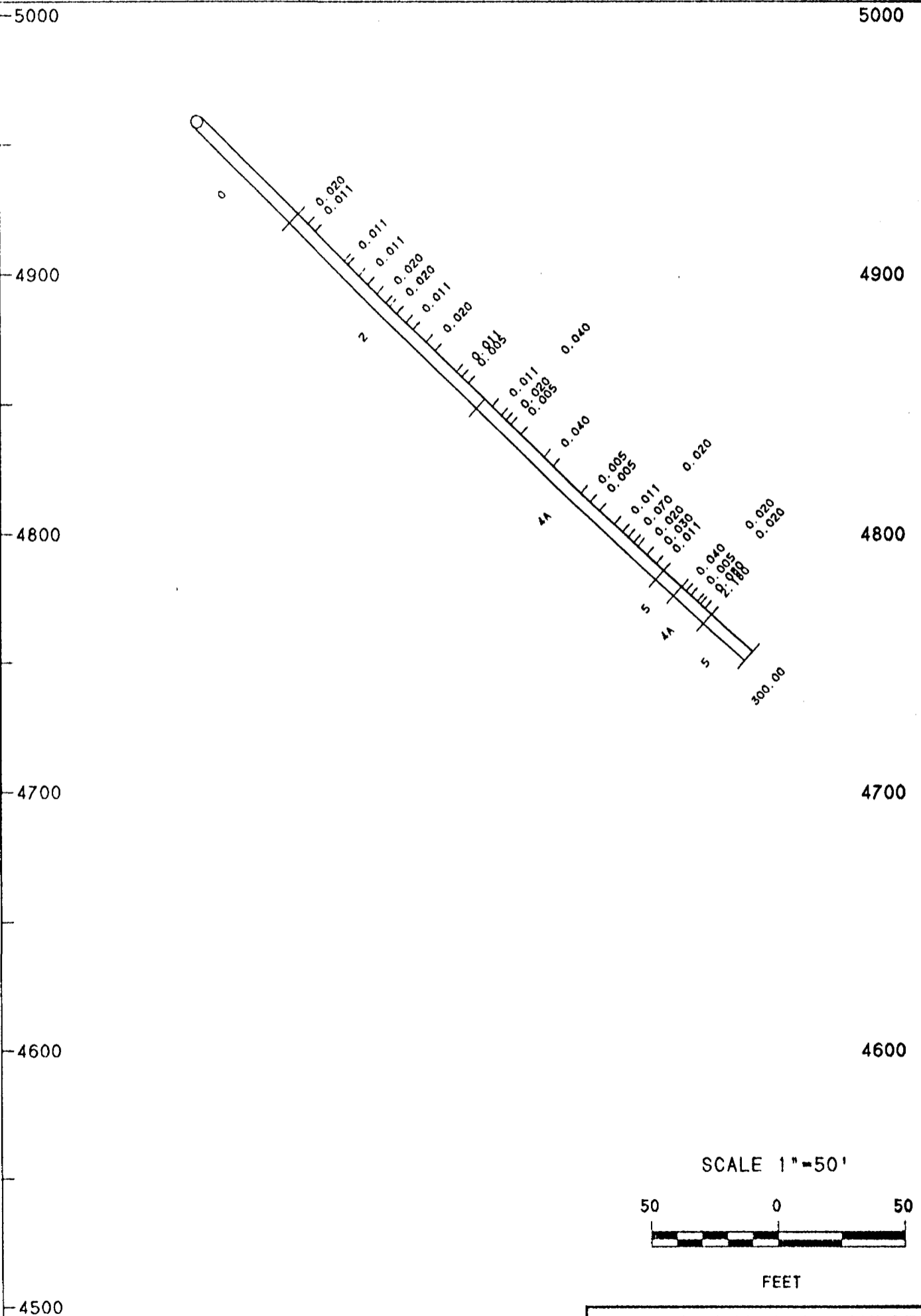
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			Q-12	123.0	128.0	5.0	0.015	n/a
			0352	128.0	130.5	2.5	0.020	n/a
			0353	130.5	133.0	2.5	0.050	n/a
			Q-10A	133.0	137.0	4.0	0.110	0.110
			Q-10	137.0	142.0	5.0	0.155	0.160
			Q-11	142.0	147.0	5.0	0.115	n/a
			Q-13	147.0	153.0	6.0	0.002	n/a
155.5	158.0	SYENITE (10)						
158.0	160.0	PYROCLASTIC CONGLOMERATE (2)						
160.0	165.5	SYENITE (10)						
165.5	179.5	PYROCLASTIC CONGLOMERATE (2)						
			Q-14	165.5	170.5	5.0	0.005	n/a
			Q-15	172.0	177.0	5.0	0.005	n/a
			0354	177.0	179.5	2.5	0.010	n/a
179.5	183.0	MAFIC TUFF (5)						
183.0	207.0	PYROCLASTIC CONGLOMERATE (2)						
			0355	183.0	186.0	3.0	0.015	n/a
			Q-16	186.0	191.0	5.0	0.035	n/a
			Q-17	191.0	196.0	5.0	0.040	n/a
			Q-18	196.0	201.0	5.0	0.005	n/a

86-13

800.00N
3369.00E



PLAN VIEW



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-13	
E 3369	AZIMUTH 360
N 800	DIP -45
Scale 1" = 50'	

Coords: 800.0N 3369.0E

HOLE NO.: 86-13

Azimuth: 360.0

Mirado Project

Dip: -45.0

Elevation: 4958.0

Length: 300.0

Dip Tests

300.00 360.0 -42.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	53.5	OVERBURDEN (0)						
53.5	156.0	PYROCLASTIC CONGLOMERATE (2)						
			R-1	53.5	59.0	5.5	0.020	n/a
			R-2	59.0	63.0	4.0	0.010	n/a
			356	79.0	81.0	2.0	0.010	n/a
			R-3	87.0	92.0	5.0	0.010	n/a
			R-4	97.0	102.0	5.0	0.020	n/a
			R-5	104.0	108.0	4.0	0.020	n/a
			R-6	113.0	117.0	4.0	0.010	n/a
			R-7	124.0	129.0	5.0	0.020	n/a
			357	140.5	143.5	3.0	0.010	n/a
			358	143.5	147.0	3.5	0.005	n/a
156.0	252.5	INTERMEDIATE TUFF +/- LAPILLI (4A)						
			R-8	160.0	165.0	5.0	0.010	n/a
			R-9	165.0	167.5	2.5	0.040	n/a
			359	167.5	170.0	2.5	0.020	n/a
			R-10	170.0	175.5	5.5	0.005	n/a
			R-11	188.0	193.0	5.0	0.040	n/a
			R-12	208.0	213.0	5.0	0.005	n/a

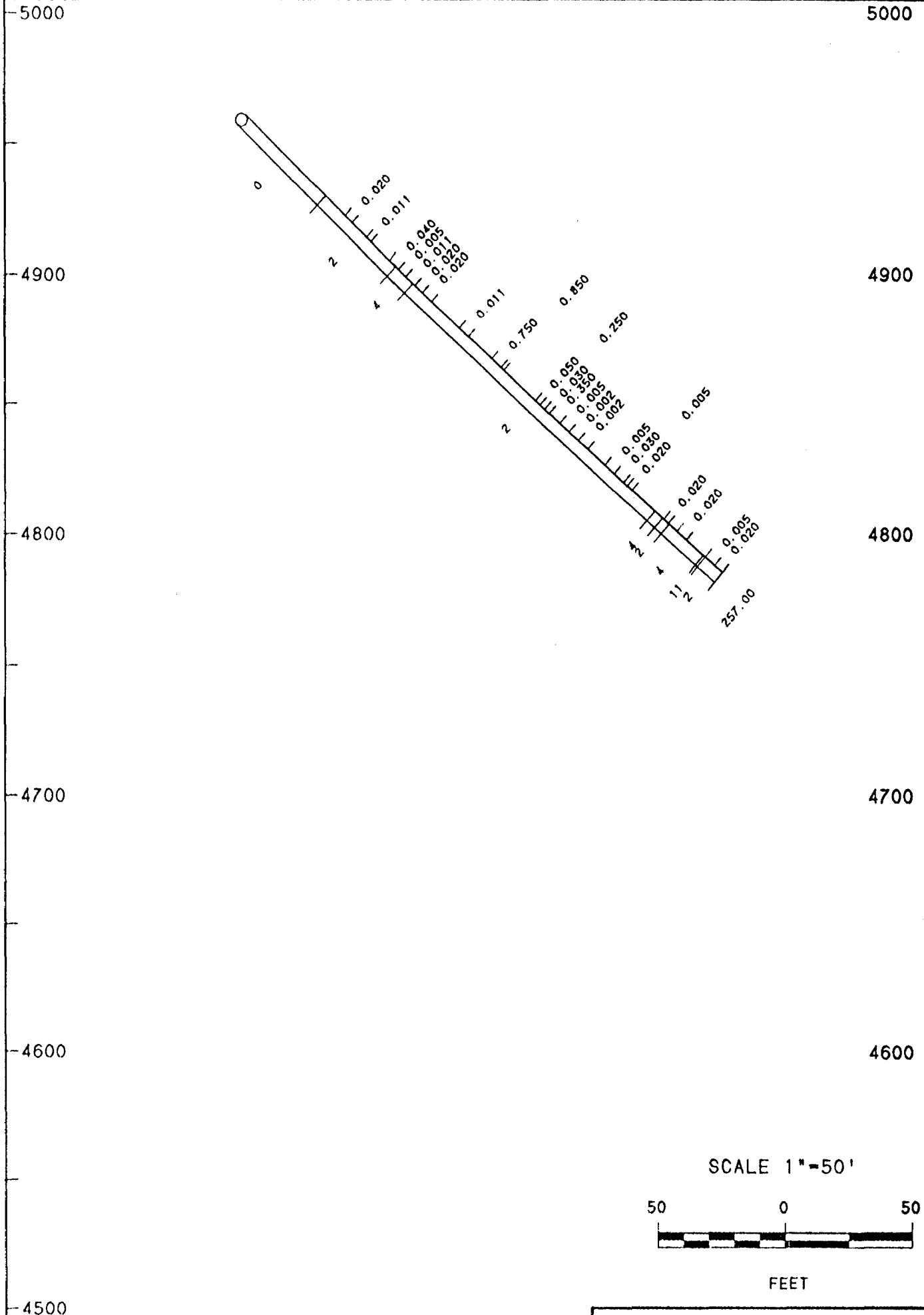
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			R-13	213.0	218.0	5.0	0.005	n/a
			R-14	226.0	230.5	4.5	0.010	n/a
			360	230.5	233.5	3.0	0.020	n/a
			R-15	233.5	236.5	3.0	0.070	n/a
			R-16	238.5	243.5	5.0	0.020	n/a
			R-17	243.5	248.5	5.0	0.030	n/a
			R-18	248.5	252.5	4.0	0.010	n/a
252.5	262.0	MAFIC TUFF (5)						
262.0	278.0	INTERMEDIATE TUFF +/- LAPILLI (4A)						
			361	262.0	264.5	2.5	0.040	n/a
			362	264.5	267.0	2.5	0.020	n/a
			363	267.0	270.5	3.5	0.005	n/a
			364	270.5	272.0	1.5	0.020	n/a
			365	272.0	274.5	2.5	0.080	n/a
			366	274.5	278.0	3.5	2.180	n/a
278.0	300.0	MAFIC TUFF (5)						

86-14

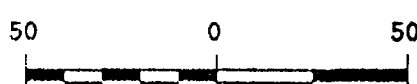
825.00N
3297.00E



PLAN VIEW



SCALE 1"=50'



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE 86-14	
E 3297 N 825	AZIMUTH 360 DIP -45
Scale 1" = 50'	

Coords: 825.0N 3297.0E

HOLE NO.: 86-14

Azimuth: 360.0

Mirado Project

Dip: -45.0

Elevation: 4958.0

Length: 257.0

Dip Tests

257.00 360.0 -41.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	44.0	OVERBURDEN (0)						
44.0	82.5	PYROCLASTIC CONGLOMERATE (2)						
			S-1	54.5	58.5	4.0	0.020	n/a
			S-2	66.5	69.0	2.5	0.010	n/a
			S-3	79.0	84.0	5.0	0.040	n/a
82.5	92.0	INTERMEDIATE TUFF (4)						
			S-4	84.0	88.0	4.0	0.005	n/a
			S-5	88.0	93.0	5.0	0.010	n/a
92.0	221.5	PYROCLASTIC CONGLOMERATE (2)						
			S-6	93.0	97.0	4.0	0.020	n/a
			S-7	97.0	102.0	5.0	0.020	n/a
			S-8	117.0	122.0	5.0	0.010	n/a
			S-9	134.5	139.5	5.0	0.750	0.250
			367	139.5	141.0	1.5	0.850	n/a
			368	158.0	160.5	2.5	0.050	n/a
			369	160.5	163.0	2.5	0.250	0.090
			370	163.0	165.5	2.5	0.030	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			S-10	165.5	171.0	5.5	0.350	n/a
			S-11	171.0	176.0	5.0	0.005	n/a
			S-12	176.0	181.0	5.0	0.002	n/a
			S-13	181.0	186.0	5.0	0.002	n/a
			S-14	195.0	200.0	5.0	0.005	n/a
			S-15	200.0	205.0	5.0	0.030	n/a
			S-16	205.0	207.0	2.0	0.005	n/a
			371	207.0	209.5	2.5	0.020	n/a
221.5	225.5	INTERMEDIATE TUFF (4)						
225.5	229.0	PYROCLASTIC CONGLOMERATE (2)						
			372	226.0	228.5	2.5	0.020	n/a
229.0	247.0	INTERMEDIATE TUFF (4)						
			S-17	233.0	238.0	5.0	0.020	n/a
247.0	248.0	LAMPROPHYRE (11)						
248.0	257.0	PYROCLASTIC CONGLOMERATE (2)						
			S-18	248.0	253.0	5.0	0.005	n/a
			S-19	253.0	257.0	4.0	0.020	n/a

86-15

932.00N
3498.00E



PLAN VIEW

5000

5000

4900

4900

4800

4800

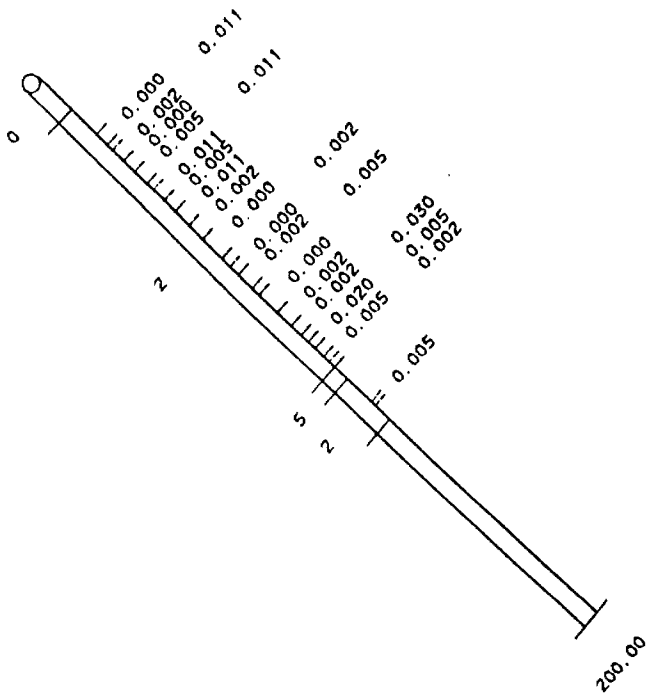
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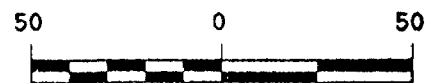
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4600

4500



SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE 86-15

E 3498
N 932

AZIMUTH 135
DIP -45

Scale 1" = 50'

Coords: 932.0N 3498.0E

HOLE NO.: 86-15

Azimuth: 135.0

Mirado Project

Dip: -45.0

Elevation: 4945.0

Length: 200.0

Dip Tests

200.00 135.0 -41.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	12.0	OVERBURDEN (0)						
12.0	107.5	PYROCLASTIC CONGLOMERATE (2)						
			T-11	21.0	25.0	4.0	0.000	n/a
			373	25.0	27.0	2.0	0.010	n/a
			T-12	27.0	31.0	4.0	0.002	n/a
			T-13	31.0	35.0	4.0	0.000	n/a
			T-1	35.0	39.5	4.5	0.005	n/a
			374	39.5	42.0	2.5	0.010	n/a
			T-2	42.0	46.0	4.0	0.010	n/a
			T-3	46.0	50.0	4.0	0.005	n/a
			T-4	50.0	55.0	5.0	0.010	n/a
			T-14	55.0	60.0	5.0	0.002	n/a
			T-15	60.0	67.0	7.0	0.000	n/a
			T-5	67.0	70.0	3.0	0.002	n/a
			T-16	70.0	73.0	3.0	0.000	n/a
			T-6	73.0	78.0	5.0	0.002	n/a
			T-7	78.0	80.5	2.5	0.005	n/a
			T-17	80.5	87.0	6.5	0.000	n/a
			T-8	87.0	92.0	5.0	0.002	n/a
			375	92.0	95.5	3.5	0.002	n/a
			376	95.5	98.0	2.5	0.030	n/a

Golden Shield Resources Ltd.

Page: 2

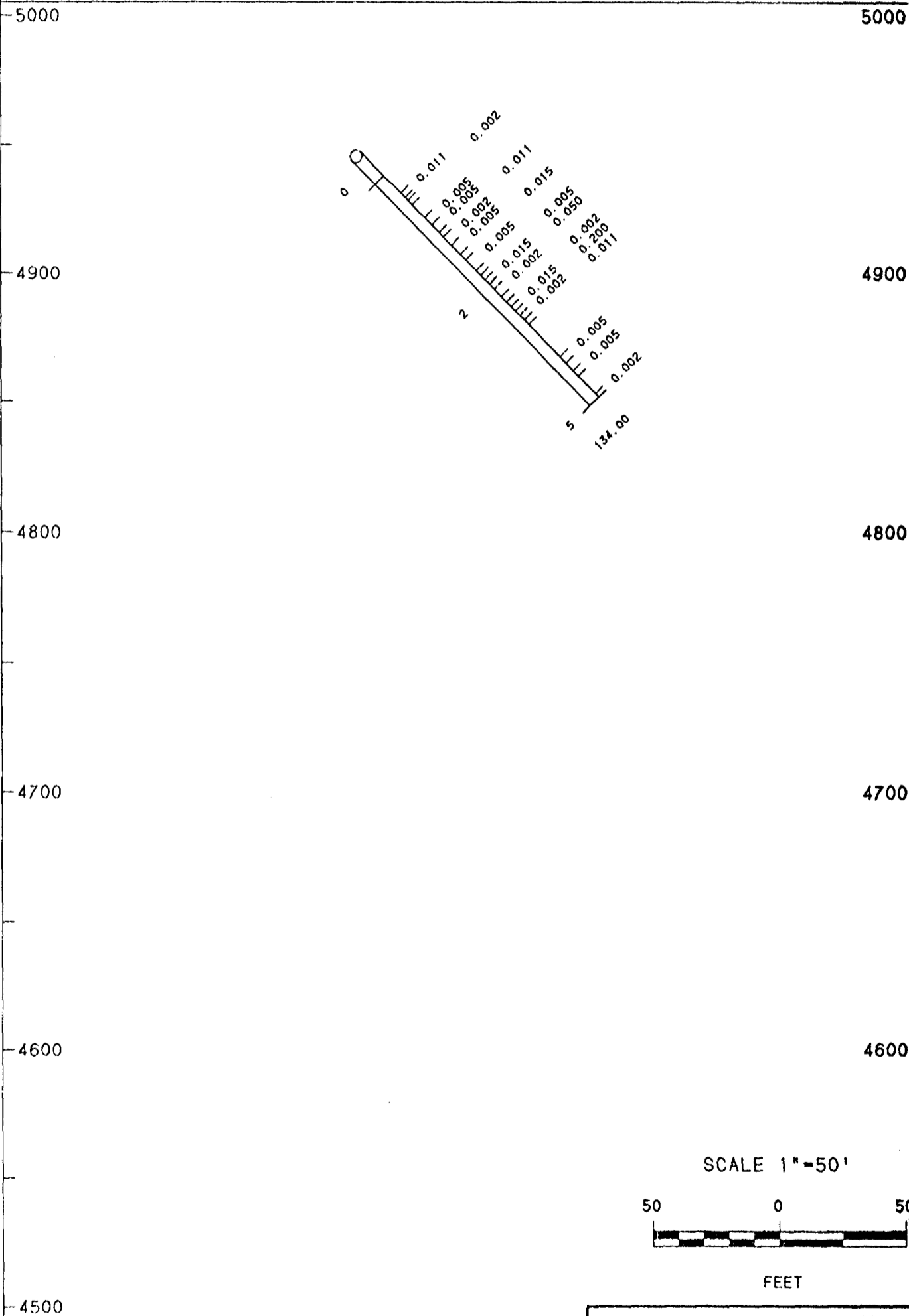
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			377	98.0	100.5	2.5	0.020	n/a
			378	100.5	103.5	3.0	0.005	n/a
			379	103.5	105.5	2.0	0.005	n/a
			T-9	105.5	107.5	2.0	0.002	n/a
107.5	112.0	MAFIC TUFF (5)						
112.0	127.0	PYROCLASTIC CONGLOMERATE (2)						
			T-10	120.5	122.0	1.5	0.005	n/a

86-16

932.00N
3498.00E



PLAN VIEW



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-16	
E 3498	AZIMUTH 170
N 932	DIP -45
Scale 1" = 50'	

Coords: 932.0N 3498.0E
 Azimuth: 170.0
 Dip: -45.0
 Elevation: 4945.0
 Length: 134.0

HOLE NO.: 86-16

Mirado Project

Dip Tests

134.00 170.0 -46.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	13.0	OVERBURDEN (0)						
13.0	134.0	PYROCLASTIC CONGLOMERATE (2)						
			403	22.5	25.0	2.5	0.010	n/a
			V-1	26.5	29.0	2.5	0.001	n/a
			V-2	36.0	40.0	4.0	0.005	n/a
			V-3	40.0	44.0	4.0	0.005	n/a
			404	44.0	46.5	2.5	0.010	n/a
			V-4	46.5	51.0	4.5	0.002	n/a
			V-5	51.0	56.0	5.0	0.005	n/a
			405	56.0	59.0	3.0	0.015	n/a
			V-6	59.0	65.0	6.0	0.005	n/a
			406	67.5	70.0	2.5	0.005	n/a
			407	70.0	72.5	2.5	0.015	n/a
			408	72.5	75.0	2.5	0.050	n/a
			V-7	75.0	79.0	4.0	0.002	n/a
			409	82.0	84.5	2.5	0.002	n/a
			410	84.5	87.0	2.5	0.015	n/a
			411	87.0	89.5	2.5	0.200	n/a
			412	89.5	92.0	2.5	0.002	n/a
			413	92.0	94.5	2.5	0.010	n/a
			V-8	112.0	115.5	3.5	0.005	n/a

Golden Shield Resources Ltd.

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			V-9	119.5	122.5	3.0	0.005	n/a
			V-10	132.0	134.0	2.0	0.002	n/a
134.0	137.0	MAFIC TUFF (5)						

Coords: 932.0N 3498.0E

HOLE NO.: 86-17

Azimuth: 200.0

Mirado Project

Dip: -45.0

Elevation: 4945.0

Length: 137.0

Dip Tests

137.00 200.0 -48.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	13.5	OVERBURDEN (0)						
13.5	137.0	PYROCLASTIC CONGLOMERATE (2)						
			W-1A	15.0	20.0	5.0	0.010	n/a
			W-1R	20.0	25.0	5.0	0.005	n/a
			W-1C	25.0	27.0	2.0	0.000	n/a
			W-3	27.0	29.0	2.0	0.002	n/a
			W-1D	29.0	33.0	4.0	0.002	n/a
			W-1E	33.0	38.0	5.0	0.002	n/a
			W-1F	38.0	41.0	3.0	0.000	n/a
			W-1	41.0	44.0	3.0	0.002	n/a
			W-1G	44.0	48.5	4.5	0.002	n/a
			W-2	48.5	51.5	3.0	0.002	n/a
			W-1G	51.5	54.0	2.5	0.002	n/a
			414	54.0	57.0	3.0	0.010	n/a
			415	57.0	59.5	2.5	0.005	n/a
			W-4	59.5	64.5	5.0	0.000	n/a
			416	64.5	67.0	2.5	0.005	n/a
			417	67.0	69.5	2.5	0.020	n/a
			418	69.5	72.0	2.5	0.010	n/a
			W-5	72.0	75.5	3.5	0.010	n/a
			419	75.5	78.5	3.0	0.090	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			W-6	78.5	83.5	5.0	0.010	n/a
			420	89.0	92.0	3.0	0.010	n/a
			421	92.0	94.5	2.5	0.695	n/a
			W-7	94.5	100.0	5.5	0.010	n/a
			422	100.0	102.5	2.5	0.010	n/a
			W-8	102.5	107.5	5.0	0.140	n/a
			W-9	107.5	112.5	5.0	0.020	n/a
			W-10	112.5	115.0	2.5	0.005	n/a
			423	115.0	119.0	4.0	0.020	n/a
			424	119.0	121.5	2.5	0.015	n/a
			425	121.5	124.5	3.0	0.100	n/a
			426	124.5	127.0	2.5	0.005	n/a
			427	127.0	129.5	2.5	0.005	n/a
			428	129.5	132.0	2.5	0.020	n/a
			429	132.0	136.0	4.0	0.010	n/a

86-18

932.00N
3498.00E



PLAN VIEW

-5000

5000

-4900

4900

-4800

4800

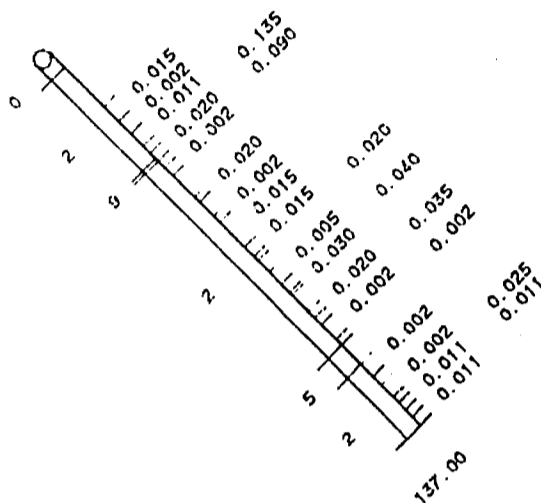
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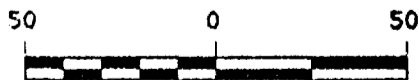
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-4500



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-18	
E 3498	AZIMUTH 225
N 932	DIP -45
Scale 1" = 50'	

Coords: 932.0N 3498.0E

HOLE NO.: 86-18

Azimuth: 225.0

Mirado Project

Dip: -45.0

Elevation: 4945.0

Length: 137.0

Dip Tests

137.00 225.0 -45.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	5.5	OVERBURDEN (0)						
5.5	39.0	PYROCLASTIC CONGLOMERATE (2)						
			X-1	20.0	25.5	5.5	0.015	n/a
			X-2	25.5	30.0	4.5	0.002	n/a
			X-14	30.0	34.5	4.5	0.010	n/a
			430	34.5	37.0	2.5	0.135	n/a
			431	37.0	40.0	3.0	0.020	n/a
39.0	40.0	CHLORIC DYKE (9)						
40.0	108.0	PYROCLASTIC CONGLOMERATE (2)						
			432	40.0	42.5	2.5	0.090	n/a
			X-3	42.5	45.5	3.0	0.002	n/a
			433	53.5	55.5	2.0	0.020	n/a
			X-4	60.5	63.0	2.5	0.002	n/a
			X-5	63.0	72.0	9.0	0.015	n/a
			X-6	72.0	75.5	3.5	0.015	n/a
			433	75.5	77.0	1.5	0.020	n/a
			X-7	81.0	85.5	4.5	0.005	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			X-8	85.5	88.5	3.0	0.040	n/a
			435	88.5	89.5	1.0	0.030	n/a
			X-9	89.5	95.5	6.0	n/a	n/a
			436	95.5	98.0	2.5	0.020	n/a
			437	98.0	100.5	2.5	0.035	n/a
			X-10	100.5	106.0	5.5	0.002	n/a
			X-11	106.0	108.0	2.0	0.002	n/a
108.0	115.0	MAFIC TUFF (5)						
115.0	137.0	PYROCLASTIC CONGLOMERATE (2)						
			X-12	115.0	119.5	4.5	0.002	n/a
			X-13	122.5	127.0	4.5	0.002	n/a
			438	127.0	129.0	2.0	0.025	n/a
			439	129.0	131.5	2.5	0.010	n/a
			440	131.5	134.0	2.5	0.010	n/a
			441	134.0	137.0	3.0	0.010	n/a

86-19

974.00N
3457.00E



PLAN VIEW

-5000

5000

-4900

4900

-4800

4800

-4700

4700

-4600

4600

-4500

SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

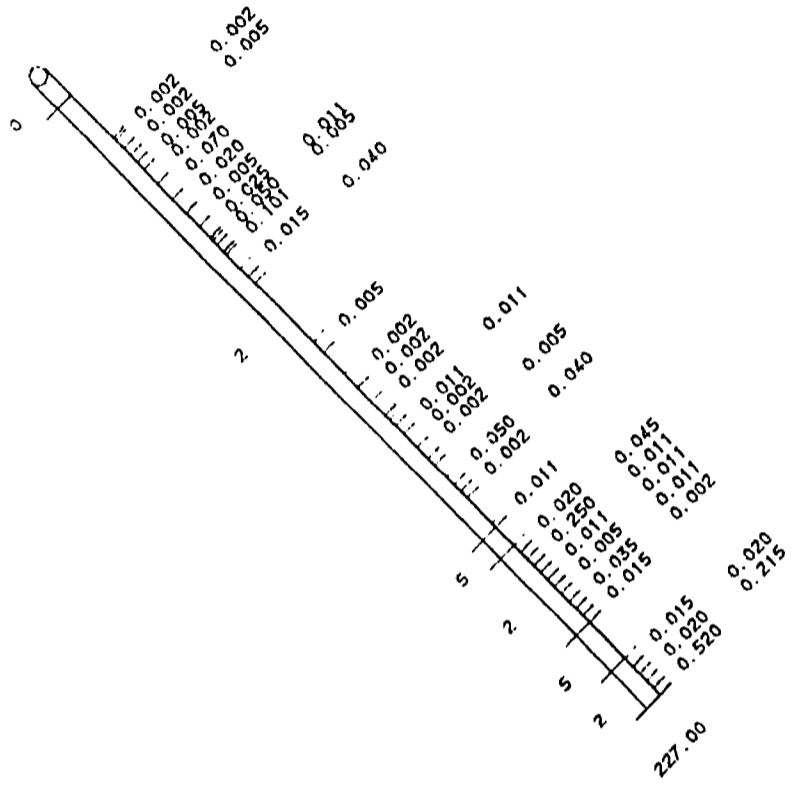
SECTION VIEW

HOLE 86-19

E 3457
N 974

AZIMUTH 135
DIP -45

Scale 1" = 50'



Coords: 974.0N 3457.0E

HOLE NO.: 86-19

Azimuth: 135.0

Mirado Project

Dip: -45.0

Elevation: 4944.0

Length: 227.0

Dip Tests

227.00 135.0 -45.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	9.5	OVERBURDEN (0)						
9.5	166.5	PYROCLASTIC CONGLOMERATE (2)						
			442	25.0	26.0	1.0	0.002	n/a
			Y-11	26.0	29.0	3.0	0.002	n/a
			443	29.0	31.5	2.5	0.002	n/a
			444	31.5	34.0	2.5	0.005	n/a
			445	34.0	36.5	2.5	0.005	n/a
			Y-1	36.5	41.5	5.0	0.002	n/a
			Y-2	41.5	47.0	5.5	0.070	n/a
			Y-12	47.0	52.0	5.0	0.020	0.020
			Y-13	52.0	57.0	5.0	0.005	n/a
			Y-3	57.0	61.0	4.0	0.025	n/a
			Y-14	61.0	62.0	1.0	0.010	n/a
			446	62.0	63.5	1.5	0.050	n/a
			Y-15	63.5	66.0	2.5	0.005	n/a
			447	66.0	67.0	1.0	0.100	n/a
			Y-4	72.0	75.0	3.0	0.015	n/a
			448	75.0	77.5	2.5	0.040	n/a
			Y-5	99.0	103.0	4.0	0.005	n/a
			Y-6	110.5	115.5	5.0	0.002	n/a
			Y-7	115.5	120.5	5.0	0.002	n/a

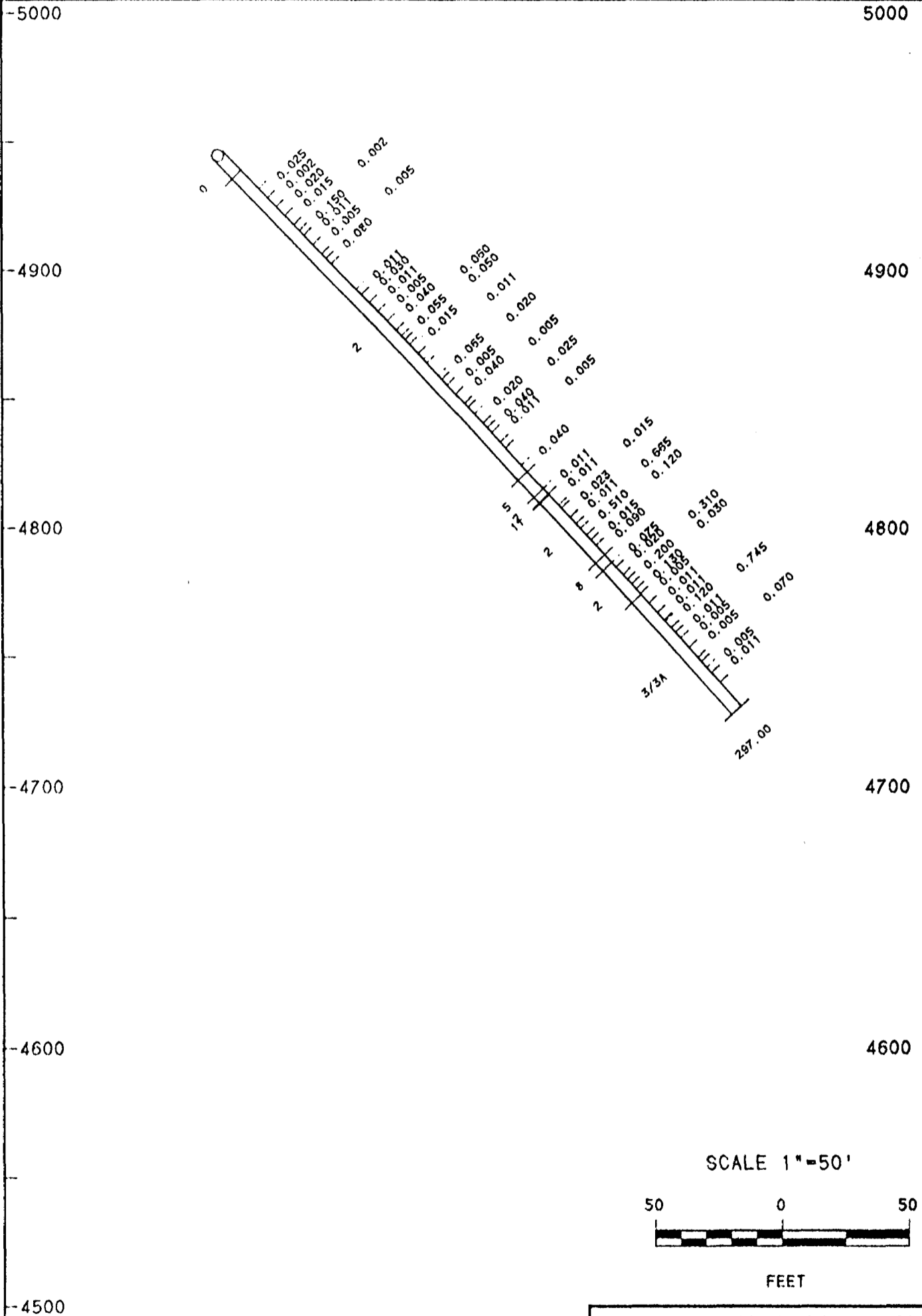
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			Y-8	120.5	125.5	5.0	0.002	n/a
			449	127.0	129.5	2.5	0.010	n/a
			450	129.5	132.5	3.0	0.010	n/a
			Y-9	132.5	137.5	5.0	0.001	n/a
			Y-10	137.5	141.5	4.0	0.002	n/a
			451	141.5	144.0	2.5	0.005	n/a
			452	148.0	151.0	3.0	0.050	n/a
			453	151.0	153.5	2.5	0.040	n/a
			454	153.5	156.0	2.5	0.002	n/a
			455	165.0	166.5	1.5	0.010	n/a
166.5	173.0	MAFIC TUFF (5)						
173.0	201.0	PYROCLASTIC CONGLOMERATE (2)						
			456	173.0	175.5	2.5	0.020	n/a
			457	175.5	178.0	2.5	0.045	n/a
			458	178.0	180.5	2.5	0.250	n/a
			459	180.5	183.0	2.5	0.010	n/a
			460	183.0	185.5	2.5	0.010	n/a
			461	185.5	188.0	2.5	0.010	n/a
			462	188.0	190.5	2.5	0.005	n/a
			463	190.5	193.5	3.0	0.010	n/a
			464	193.5	196.0	2.5	0.035	n/a
			465	196.0	198.5	2.5	0.002	n/a
			466	198.5	201.0	2.5	0.015	n/a
201.0	214.0	MAFIC TUFF (5)						
214.0	227.0	PYROCLASTIC CONGLOMERATE (2)						
			467	214.0	217.0	3.0	0.015	n/a
			468	217.0	219.5	2.5	0.020	n/a
			469	219.5	222.0	2.5	0.020	n/a
			470	222.0	224.5	2.5	0.215	n/a
			471	224.5	227.0	2.5	0.520	0.510

86-20

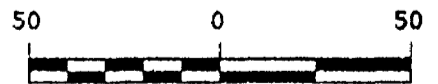
974.00N
3457.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE 86-20

E 3457
N 974

AZIMUTH 111
DIP -45

SCALE 1" = 50'

Coords: 974.0N 3457.0E
 Azimuth: 111.0
 Dip: -45.0
 Elevation: 4944.0
 Length: 297.0

HOLE NO.: 86-20

Mirado Project

Dip Tests

297.00 111.0 -48.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	10.5	OVERBURDEN (0)						
10.5	173.0	PYROCLASTIC CONGLOMERATE (2)						
			Z-1	20.5	25.5	5.0	0.025	n/a
			Z-2	25.5	30.5	5.0	0.002	n/a
			Z-3	30.5	35.5	5.0	0.020	n/a
			Z-4	35.5	40.5	5.0	0.015	n/a
			Z-5	40.5	43.5	3.0	0.002	n/a
			472	43.5	46.0	2.5	0.150	n/a
			Z-6	46.0	51.0	5.0	0.010	n/a
			Z-31	51.0	56.0	5.0	0.005	n/a
			Z-32	56.0	58.5	2.5	0.005	n/a
			Z-7	58.5	61.5	3.0	0.080	n/a
			Z-8	75.5	78.5	3.0	0.010	n/a
			Z-9	78.5	83.0	4.5	0.030	n/a
			Z-10	83.0	88.0	5.0	0.010	n/a
			Z-11	88.0	93.0	5.0	0.005	n/a
			Z-12	93.0	98.0	5.0	0.040	n/a
			Z-13	98.0	101.0	3.0	0.060	n/a
			473	101.0	103.0	2.0	0.055	n/a
			474	103.0	105.5	2.5	0.050	n/a
			475	105.5	110.5	5.0	0.015	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			Z14	113.5	115.5	2.0	0.010	n/a
			476	122.0	124.0	2.0	0.065	n/a
			477	124.0	127.0	3.0	0.020	n/a
			Z15	127.0	132.0	5.0	0.005	n/a
			Z16	132.0	137.0	5.0	0.040	n/a
			Z17	137.0	139.0	2.0	0.005	n/a
			Z18	142.5	147.5	5.0	0.020	n/a
			478	147.5	150.0	2.5	0.025	n/a
			479	150.0	152.5	2.5	0.040	n/a
			Z19	152.5	157.5	5.0	0.010	n/a
			Z20	157.5	160.5	3.0	0.005	n/a
			480	169.5	173.0	3.5	0.040	n/a
173.0	182.0	MAFIC TUFF (5)						
182.0	185.0	PYROCLASTIC CONGLOMERATE (2)	Z21	182.0	185.0	3.0	0.010	n/a
185.0	185.5	LAMPROPHYRE (11)	Z22	185.0	191.0	6.0	0.010	n/a
185.5	217.5	PYROCLASTIC CONGLOMERATE (2)	481	191.0	192.5	1.5	0.015	n/a
			Z23	192.5	197.5	5.0	0.023	n/a
			Z24	197.5	201.0	3.5	0.010	n/a
			482	201.0	203.5	2.5	0.665	n/a
			483	203.5	207.0	3.5	0.510	n/a
			484	207.0	209.5	2.5	0.120	n/a
			485	209.5	212.5	3.0	0.015	n/a
			486	212.5	217.5	5.0	0.090	n/a
217.5	221.5	METADIORITE (8)						
221.5	238.5	PYROCLASTIC CONGLOMERATE (2)	487	221.5	224.0	2.5	0.075	n/a

Golden Shield Resources Ltd.

Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			Z25	224.0	228.0	4.0	0.020	n/a
			488	228.0	230.5	2.5	0.310	n/a
			489	230.5	233.0	2.5	0.200	n/a
			490	233.0	235.5	2.5	0.030	n/a
			491	235.5	238.0	2.5	0.130	n/a
			109	238.0	243.0	5.0	0.005	n/a
238.5	297.0	FELSIC TUFF +/- LAPILLI (3/3A)						
			110	243.0	248.0	5.0	0.010	n/a
			111	248.0	252.0	4.0	0.010	n/a
			492	252.5	256.0	3.5	0.120	n/a
			493	256.0	258.5	2.5	0.745	n/a
			Z26	258.5	261.5	3.0	0.010	n/a
			Z27	261.5	266.5	5.0	0.005	n/a
			Z28	266.5	271.5	5.0	0.005	n/a
			494	271.5	273.5	2.0	0.070	n/a
			Z29	276.5	279.5	3.0	0.005	n/a
			Z30	279.5	284.5	5.0	0.010	n/a

86-21

974.00N
3457.00E

PLAN VIEW

-5000

5000

-4900

4900

-4800

4800

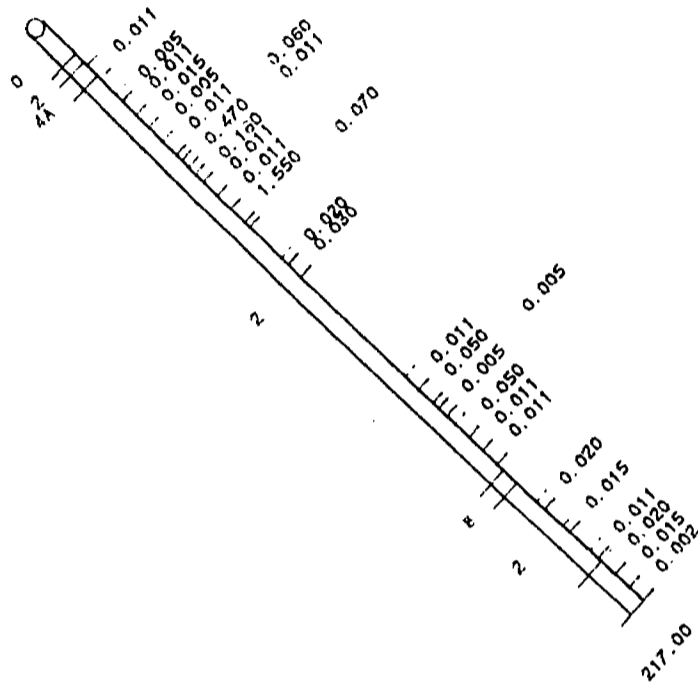
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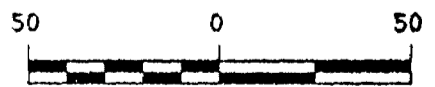
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SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-21	
E 3457	AZIMUTH 234
N 974	DIP -45
Scale 1" = 50'	

Coords: 974.0N 3457.0E

HOLE NO.: 86-21

Azimuth: 234.0

Mirado Project

Dip: -45.0

Elevation: 4944.0

Length: 217.0

Dip Tests

217.00 234.0 -42.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	12.0	OVERBURDEN (0)						
12.0	15.0	PYROCLASTIC CONGLOMERATE (2)						
15.0	20.0	INTERMEDIATE TUFF +/- LAPILLI (4A)	AB-1	16.2	21.2	5.0	0.010	n/a
20.0	167.2	PYROCLASTIC CONGLOMERATE (2)	495	26.8	29.3	2.5	0.005	n/a
			AB-2	29.3	34.3	5.0	0.010	n/a
			AB-3	34.3	39.0	4.7	0.015	n/a
			AB-4	39.0	44.0	5.0	0.005	n/a
			AB-5	44.0	49.0	5.0	0.010	n/a
			AB-6	49.0	51.0	2.0	0.060	n/a
			496	51.0	53.5	2.5	0.470	n/a
			AB-7	53.5	56.0	2.5	0.010	n/a
			497	56.0	59.0	3.0	0.160	n/a
			AB-8	59.0	64.0	5.0	0.010	n/a
			AB-9	64.0	69.0	5.0	0.010	n/a
			AB-10	69.0	74.0	5.0	1.550	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			AB-11	74.0	76.0	2.0	0.070	n/a
			AB-12	87.5	90.0	2.5	0.020	n/a
			AB-13	90.0	94.5	4.5	0.030	n/a
			AB-14	132.0	137.0	5.0	0.010	n/a
			AB-15	137.0	142.0	5.0	0.050	n/a
			AB-16	142.0	144.0	2.0	0.005	n/a
			AB-17	144.0	147.0	3.0	0.005	n/a
			AB-18	150.0	155.0	5.0	0.050	n/a
			AB-19	155.0	160.0	5.0	0.010	n/a
			AB-20	160.0	165.0	5.0	0.010	n/a
167.2	172.0	METADIORITE (8)						
172.0	202.0	PYROCLASTIC CONGLOMERATE (2)						
			AB-21	179.0	182.0	3.0	0.020	n/a
			AB-22	188.5	191.0	2.5	0.015	n/a
			AB-23	198.0	201.0	3.0	0.010	n/a

86-22

974.00N
3457.00E



PLAN VIEW

5000

5000

4900

4900

4800

4800

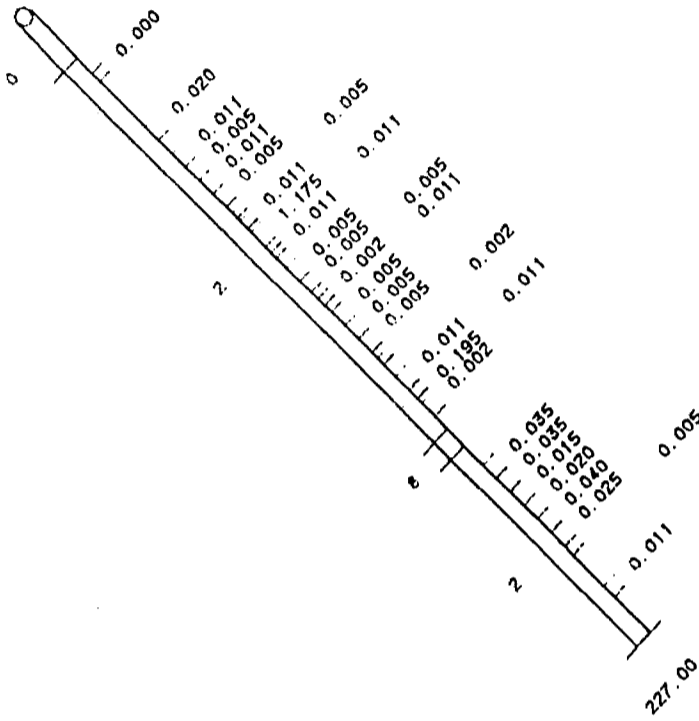
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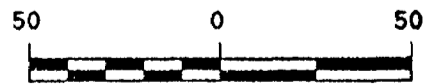
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SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE 86-22	
E 3457 N 974	AZIMUTH 194 DIP -45
Scale 1" = 50'	

Coords: 974.0N 3457.0E

HOLE NO.: 86-22

Azimuth: 194.0

Mirado Project

Dip: -45.0

Elevation: 4944.0

Length: 227.0

Dip Tests

227.00 194.0 -44.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	17.0	OVERBURDEN (0)						
17.0	153.0	PYROCLASTIC CONGLOMERATE (2)						
			AC-1	22.4	25.4	3.0	0.000	n/a
			AC-2	42.0	47.0	5.0	0.020	n/a
			AC-3	52.0	57.0	5.0	0.010	n/a
			AC-4	57.0	62.0	5.0	0.005	n/a
			AC-5	62.0	67.0	5.0	0.010	n/a
			AC-6	67.0	72.0	5.0	0.005	n/a
			AC-11	74.0	76.0	2.0	0.005	n/a
			AC-7	76.9	79.9	3.0	0.010	n/a
			AC-8	81.0	86.4	5.4	1.175	n/a
			AC-9	86.4	88.4	2.0	0.010	n/a
			AC-10	88.4	90.4	2.0	0.010	n/a
			AC-12	94.0	99.0	5.0	0.005	n/a
			AC-13	99.0	103.0	4.0	0.005	n/a
			498	103.0	105.5	2.5	0.005	n/a
			AC-14	105.5	108.0	2.5	0.002	n/a
			499	108.0	110.5	2.5	0.010	n/a
			AC-15	110.5	115.5	5.0	0.005	n/a
			AC-16	115.5	120.5	5.0	0.005	n/a
			AC-17	120.5	125.5	5.0	0.005	n/a

Golden Shield Resources Ltd.

Page: 2

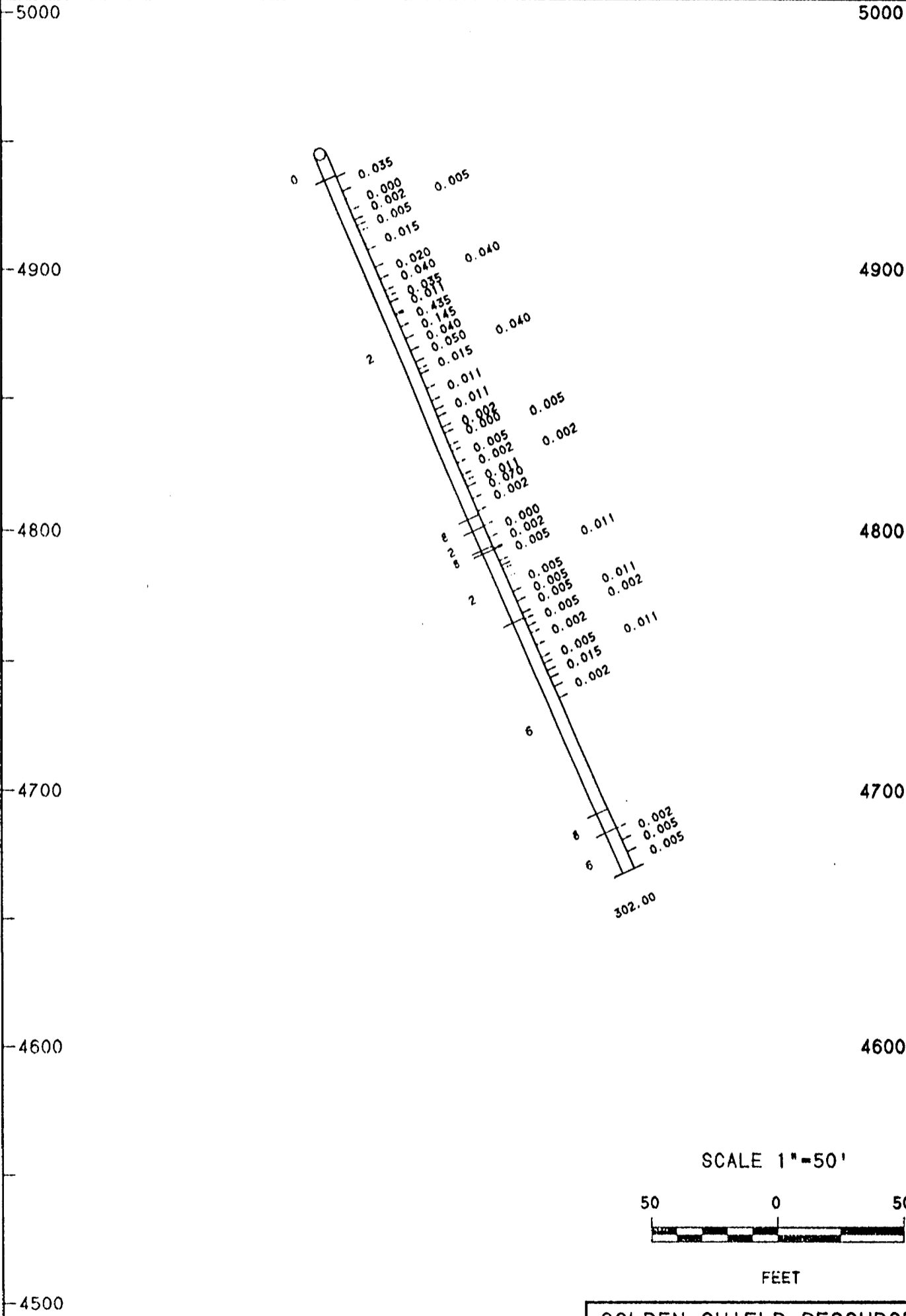
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			AC-18	127.3	129.8	2.5	0.002	n/a
			AC-19	134.0	139.0	5.0	0.010	n/a
			AC-20	139.0	142.0	3.0	0.010	n/a
			500	142.0	142.0	0.0	0.195	n/a
			AC-21	143.5	148.5	5.0	0.002	n/a
153.0	159.2	METADIORITE (8)						
159.2	227.0	PYROCLASTIC CONGLOMERATE (2)						
			AC-22	166.0	171.0	5.0	0.035	n/a
			AC-23	171.0	176.0	5.0	0.035	n/a
			AC-24	176.0	181.0	5.0	0.015	n/a
			AC-25	181.0	186.0	5.0	0.020	n/a
			AC-26	186.0	191.0	5.0	0.040	n/a
			AC-27	191.0	196.0	5.0	0.025	n/a
			AC-28	196.0	199.0	3.0	0.005	n/a
			AC-29	210.0	214.0	4.0	0.010	n/a

86-23

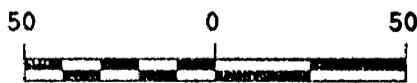
974.00N
3457.00E



PLAN VIEW



SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-23	
E 3457	AZIMUTH 243
N 974	DIP -67
Scale 1" = 50'	

Coords: 974.0N 3457.0E

HOLE NO.: 86-23

Azimuth: 243.0

Mirado Project

Dip: -67.0

Elevation: 4944.0

Length: 302.0

Dip Tests

302.00 234.0 -65.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	10.0	OVERBURDEN (0)						
10.0	152.5	PYROCLASTIC CONGLOMERATE (2)						
			AD-33	10.5	16.5	6.0	0.035	n/a
			AD-34	19.5	24.5	5.0	0.000	n/a
			AD-35	24.5	28.5	4.0	0.002	n/a
			002	28.5	31.0	2.5	0.005	n/a
			003	31.0	33.5	2.5	0.005	n/a
			004	39.0	41.5	2.5	0.015	n/a
			005	49.0	54.0	5.0	0.020	n/a
			006	54.0	59.0	5.0	0.040	n/a
			007	59.0	61.5	2.5	0.040	n/a
			008	61.5	64.0	2.5	0.035	n/a
			099	64.0	69.0	5.0	0.010	n/a
			AD-1	69.7	74.5	4.8	0.435	n/a
			AD-2	74.5	79.5	5.0	0.145	n/a
			AD-3	79.5	84.5	5.0	0.040	n/a
			AD-4	84.5	89.5	5.0	0.050	n/a
			AD-5	89.5	92.5	3.0	0.040	n/a
			AD-6	92.5	94.5	2.0	0.015	n/a
			AD-7	100.5	105.5	5.0	0.010	n/a
			AD-8	109.0	111.8	2.8	0.010	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			AD-9	116.0	118.5	2.5	0.002	n/a
			AD-10	118.5	123.5	5.0	0.000	n/a
			AD-11	123.5	126.0	2.5	0.005	n/a
			AD-12	126.0	131.0	5.0	0.005	n/a
			AD-13	131.0	136.0	5.0	0.002	n/a
			AD-14	136.0	138.5	2.5	0.002	n/a
			AD-15	138.5	141.0	2.5	0.010	n/a
			AD-16	141.0	146.0	5.0	0.070	n/a
			AD-17	146.0	151.0	5.0	0.002	n/a
152.5	157.3	METADIORITE (8)						
			AD-18	157.0	162.0	5.0	0.000	n/a
157.3	165.5	PYROCLASTIC CONGLOMERATE (2)						
			AD-19	162.0	166.5	4.5	0.002	n/a
165.5	167.0	METADIORITE (8)						
167.0	196.0	PYROCLASTIC CONGLOMERATE (2)						
			AD-20	167.0	172.0	5.0	0.005	n/a
			AD-21	174.0	175.5	1.5	0.010	n/a
			AD-22	179.0	185.0	6.0	0.005	n/a
			AD-23	185.0	189.0	4.0	0.005	n/a
			AD-24	189.0	194.0	5.0	0.005	n/a
			AD-25	194.0	196.5	2.5	0.010	n/a
196.0	276.7	RHYOLITE (+/- MASSIVE) (6)						
			AD-26	196.5	199.5	3.0	0.005	n/a
			AD-27	199.5	202.5	3.0	0.002	n/a
			AD-28	202.5	207.5	5.0	0.002	n/a
			010	212.5	215.0	2.5	0.005	n/a
			011	215.0	218.0	3.0	0.010	n/a
			012	218.0	221.0	3.0	0.015	n/a
			AD-29	224.8	229.8	5.0	0.002	n/a

Golden Shield Resources Ltd.

Page: 3

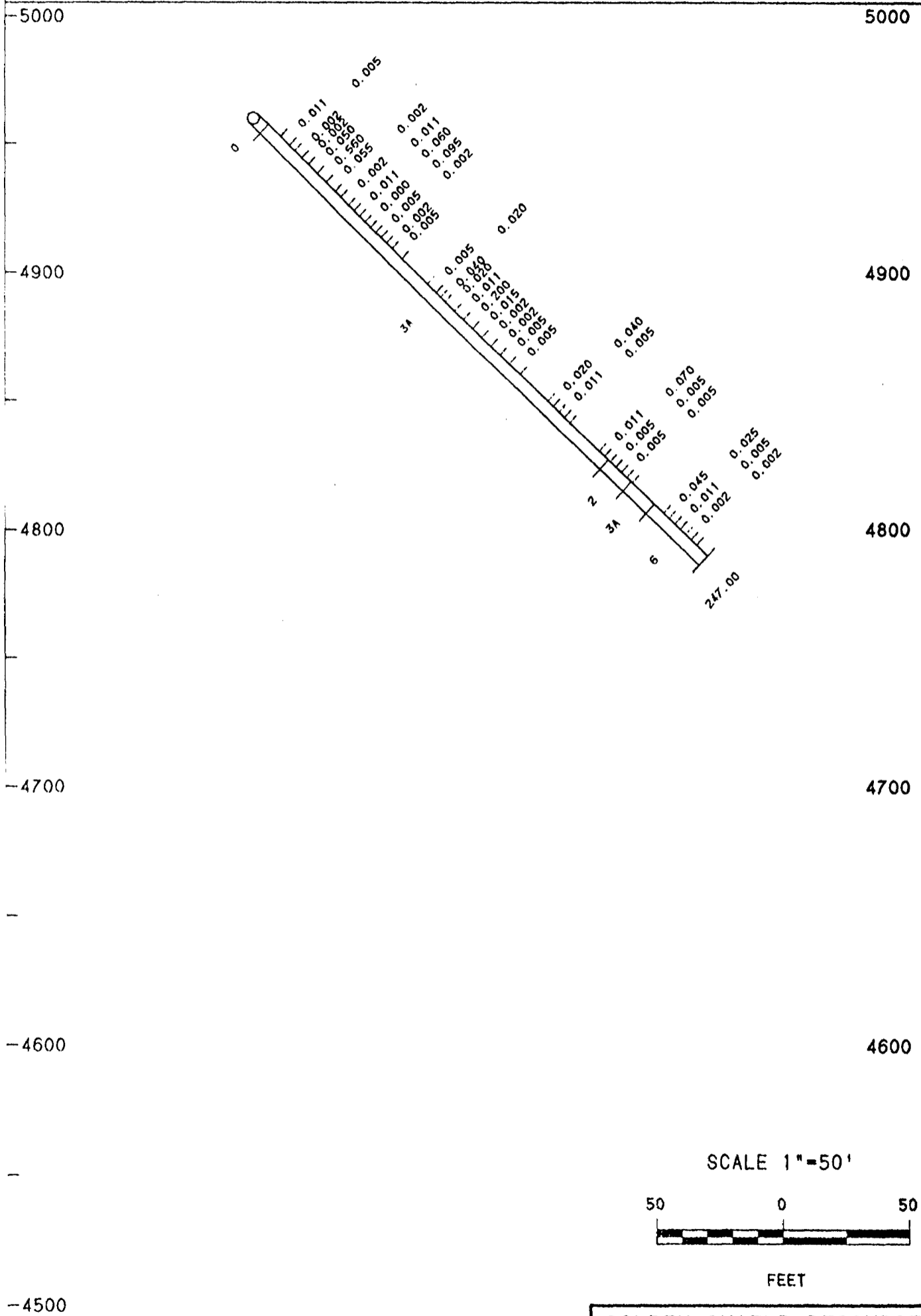
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
276.7	285.0	METADIORITE (8)						
285.0	302.0	RHYOLITE (+/- MASSIVE) (6)						
			AD-30	285.0	290.0	5.0	0.002	n/a
			AD-31	290.0	295.0	5.0	0.005	n/a
			AD-32	295.0	302.0	7.0	0.005	n/a

86-24

1124.00N
3453.00E



PLAN VIEW



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-24	
E 3453	AZIMUTH 220
N 1124	DIP -45
Scale 1" = 50'	

Coords: 1124.0N 3453.0E

HOLE NO.: 86-24

Azimuth: 220.0

Mirado Project

Dip: -45.0

Elevation: 4959.0

Length: 247.0

Dip Tests

247.00 220.0 -43.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	6.0	OVERBURDEN (0)						
6.0	193.0	FELSIC TUFF +/- LAPILLI (3A)						
			AE-13	12.5	17.5	5.0	0.010	n/a
			AE-14	17.5	20.5	3.0	0.005	n/a
			AE-55	20.5	24.5	4.0	0.002	n/a
			AE-56	24.5	28.0	3.5	0.002	n/a
			AE-15	28.0	33.0	5.0	0.050	n/a
			AE-16	33.0	38.0	5.0	0.560	n/a
			AE-17	38.0	43.0	5.0	0.055	n/a
			AE-57	43.0	46.0	3.0	0.002	n/a
			AE-58	46.0	50.5	4.5	0.002	n/a
			AE-18	50.5	53.5	3.0	0.010	n/a
			AE-19	53.5	56.5	3.0	0.010	n/a
			AE-20	56.5	59.5	3.0	0.060	n/a
			AE-21	59.5	62.5	3.0	0.000	n/a
			AE-22	62.5	65.5	3.0	0.095	n/a
			AE-23	65.5	68.5	3.0	0.005	n/a
			AE-24	68.5	71.5	3.0	0.002	n/a
			AE-25	71.5	74.5	3.0	0.002	n/a
			AE-26	74.5	80.0	5.5	0.005	n/a
			AE-27	84.0	99.0	5.0	0.005	n/a

Golden Shield Resources Ltd.

Page: 2

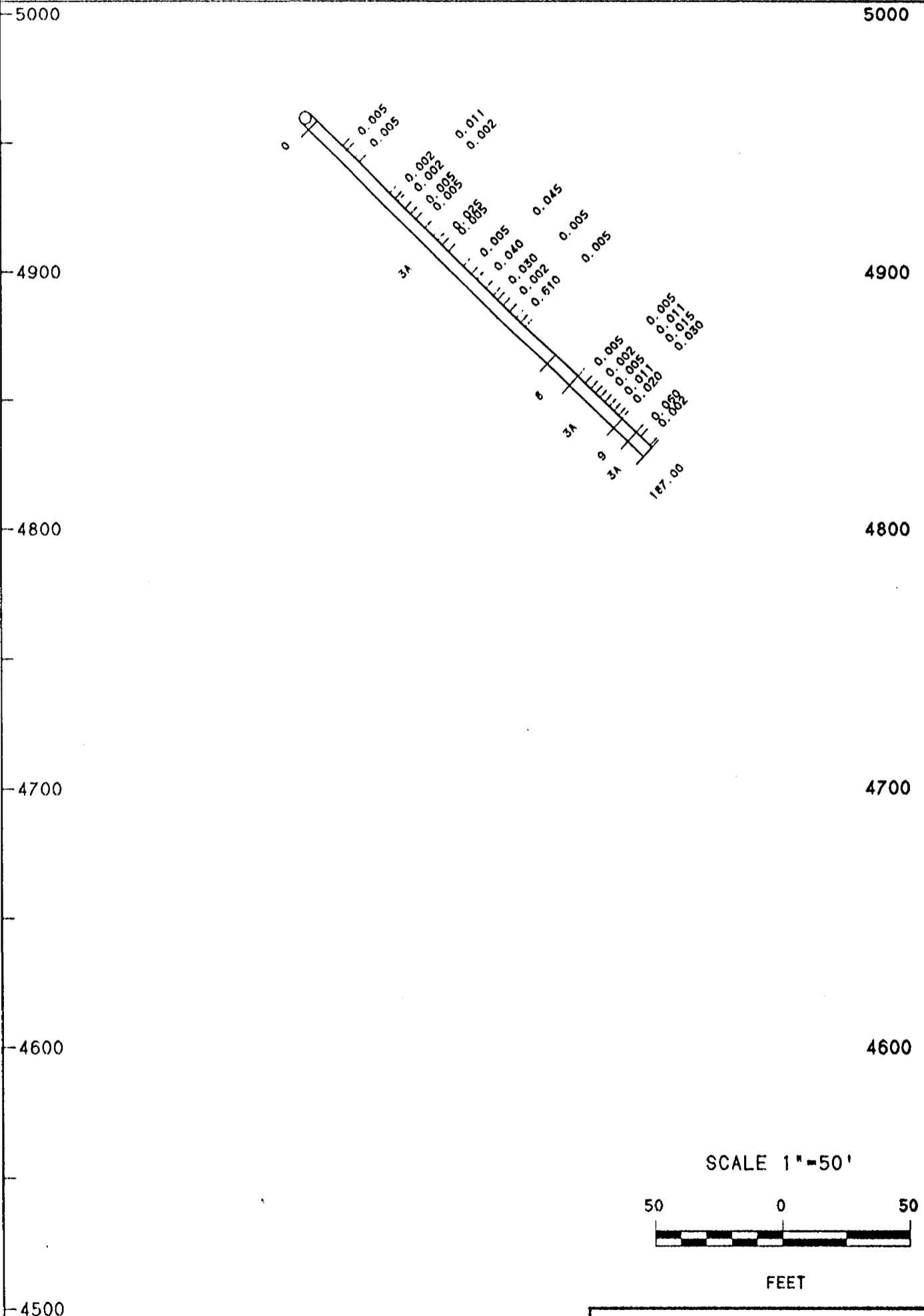
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			AE-28	99.0	101.5	2.5	0.020	n/a
			AE-29	101.5	104.0	2.5	0.040	n/a
			AE-30	104.0	109.0	5.0	0.020	n/a
			AE-31	109.0	114.0	5.0	0.010	n/a
			AE-32	114.0	119.0	5.0	0.200	n/a
			AE-33	119.0	124.0	5.0	0.015	n/a
			AE-34	124.0	129.0	5.0	0.002	n/a
			AE-35	129.0	134.0	5.0	0.002	n/a
			AE-36	134.0	139.0	5.0	0.005	n/a
			AE-37	139.0	145.0	6.0	0.005	n/a
			AE-38	160.0	163.0	3.0	0.020	n/a
			AE-39	163.0	166.0	3.0	0.040	n/a
			AE-40	166.0	169.0	3.0	0.010	n/a
			AE-41	169.0	172.0	3.0	0.005	n/a
			AE-42	188.0	191.0	3.0	0.010	n/a
			AE-43	191.0	194.0	3.0	0.070	n/a
193.0	205.5	PYROCLASTIC CONGLOMERATE (2)	AE-44	194.0	197.0	3.0	0.005	n/a
			AE-45	197.0	200.0	3.0	0.005	n/a
			AE-46	200.0	203.0	3.0	0.005	n/a
			AE-47	203.0	206.0	3.0	0.005	n/a
205.5	218.0	FELSIC TUFF +/- LAPILLI (3A)						
218.0	247.0	RHYOLITE (+/- MASSIVE) (6)	AE-48	223.0	226.0	3.0	0.045	n/a
			AE-49	226.0	229.0	3.0	0.025	n/a
			AE-50	229.0	232.0	3.0	0.010	n/a
			AE-51	232.0	235.0	3.0	0.005	n/a
			AE-52	235.0	238.0	3.0	0.002	n/a
			AE-53	238.0	241.0	3.0	0.002	n/a

86-25

1124.00N
3453.00E



PLAN VIEW



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-25	
E 3453	AZIMUTH 270
N 1124	DIP -45
SCALE 1" = 50'	

Coords: 1124.0N 3453.0E

HOLE NO.: 86-25

Azimuth: 270.0

Mirado Project

Dip: -45.0

Elevation: 4959.0

Length: 187.0

Dip Tests

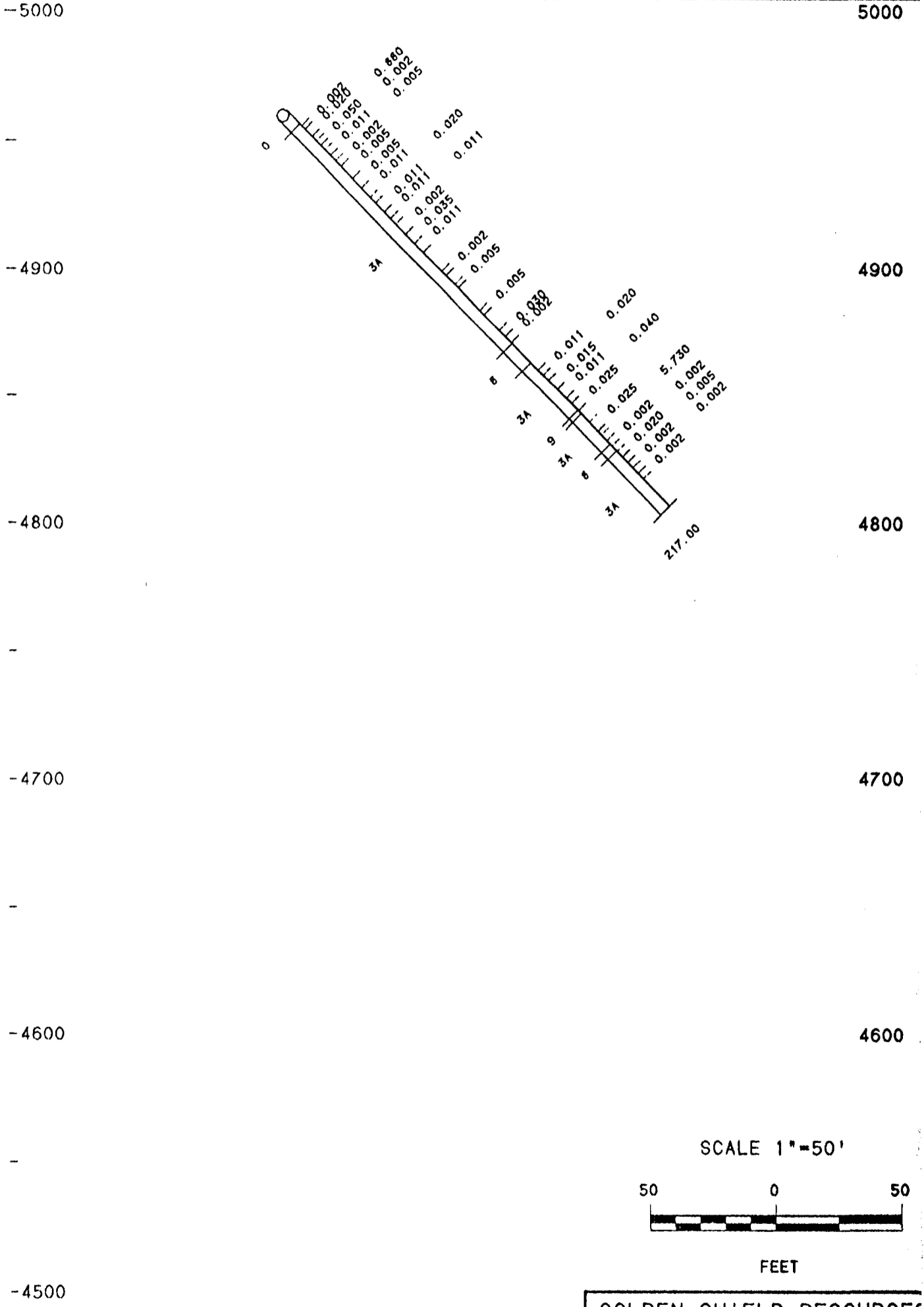
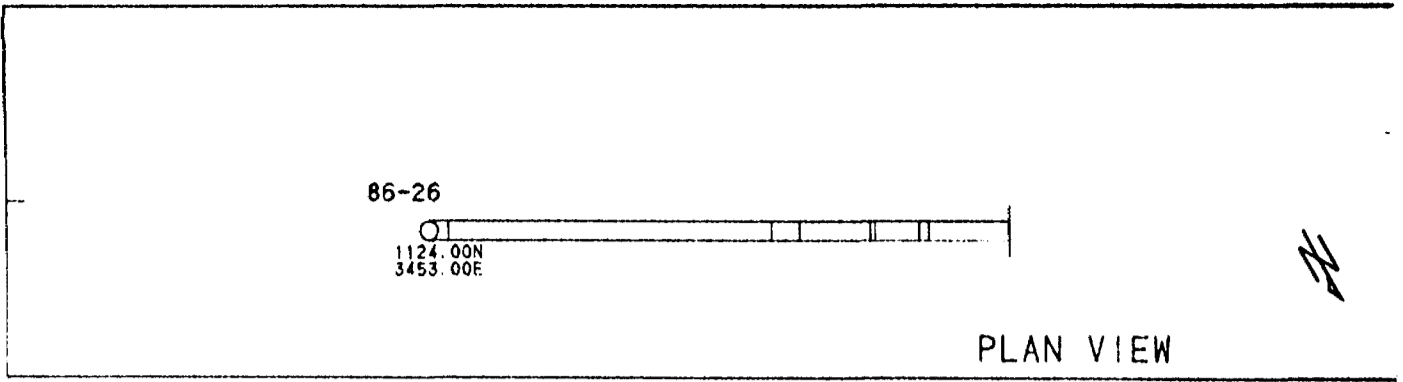
187.00 270.0 -43.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	4.0	OVERBURDEN (0)						
4.0	135.0	FELSIC TUFF +/- LAPILLI (3A)						
			AF-1	18.0	20.5	2.5	0.005	n/a
			AF-2	24.8	27.3	2.5	0.005	n/a
			AF-3	44.0	47.0	3.0	0.002	n/a
			AF-4	47.0	48.5	1.5	0.010	n/a
			AF-5	48.5	52.5	4.0	0.002	n/a
			AF-6	52.5	55.5	3.0	0.002	n/a
			AF-7	55.5	58.5	3.0	0.005	n/a
			AF-8	58.5	63.5	5.0	0.005	n/a
			AF-9	68.0	70.5	2.5	n/a	n/a
			AF-10	70.5	73.0	2.5	0.025	n/a
			AF-11	73.0	76.5	3.5	0.005	n/a
			AF-12	84.5	89.0	4.5	0.005	n/a
			AF-13	89.0	92.0	3.0	0.045	n/a
			AF-14	92.0	97.0	5.0	0.040	n/a
			AF-15	101.0	103.5	2.5	0.030	n/a
			AF-16	103.5	106.5	3.0	0.005	n/a
			AF-17	106.5	110.0	3.5	0.002	n/a
			AF-18	113.5	116.0	2.5	0.610	n/a
			AF-19	116.0	118.5	2.5	0.005	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
135.0	147.0	METADIORITE (8)						
147.0	171.0	FELSIC TUFF +/- LAPILLI (3A)						
			AF-20	147.0	151.0	4.0	0.005	n/a
			AF-21	151.0	154.0	3.0	0.005	n/a
			AF-22	154.0	156.5	2.5	0.002	n/a
			AF-23	156.5	159.0	2.5	0.010	n/a
			AF-24	159.0	161.5	2.5	0.005	n/a
			AF-25	161.5	164.0	2.5	0.015	n/a
			AF-26	164.0	166.5	2.5	0.010	n/a
			AF-27	166.5	169.0	2.5	0.030	n/a
			AF-28	169.0	170.8	1.8	0.020	n/a
171.0	178.6	CHLORIC DYKE (9)						
			AF-29	178.5	181.0	2.5	0.060	n/a
178.6	187.0	FELSIC TUFF +/- LAPILLI (3A)						
			AF-30	181.0	186.0	5.0	0.002	n/a



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-26	
E 3453	AZIMUTH 300
N 1124	DIP -45
Scale 1" = 50'	

Coords: 1124.0N 3453.0E

HOLE NO.: 86-26

Azimuth: 300.0

Mirado Project

Dip: -45.0

Elevation: 4959.0

Length: 217.0

Rip Tests

217.00 300.0 -46.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	7.0	OVERBURDEN (0)						
7.0	127.4	FELSIC TUFF +/- LAPILLI (3A)						
			AG-1A	8.0	10.0	2.0	0.002	n/a
			AG-1B	10.0	14.0	4.0	0.020	0.020
			AG-1	14.0	16.5	2.5	0.880	n/a
			AG-2	16.5	19.0	2.5	0.050	n/a
			AG-3	19.0	21.5	2.5	0.002	n/a
			AG-4	21.5	24.5	3.0	0.010	n/a
			AG-5	24.5	27.5	3.0	0.005	n/a
			AG-6	27.5	30.5	3.0	0.002	n/a
			AG-7	30.5	37.0	6.5	0.005	n/a
			AG-8	37.0	42.0	5.0	0.005	n/a
			AG-9	42.0	47.0	5.0	0.010	n/a
			AG-10	47.0	50.0	3.0	0.020	n/a
			AG-11	50.0	55.0	5.0	0.010	n/a
			AG-12	55.0	58.5	3.5	0.010	n/a
			AG-13	58.5	61.5	3.0	0.010	n/a
			AG-14	61.5	67.0	5.5	0.002	n/a
			AG-15	67.0	72.0	5.0	0.035	n/a
			AG-16	72.0	77.0	5.0	0.010	n/a
			AG-17	87.5	90.0	2.5	0.002	n/a

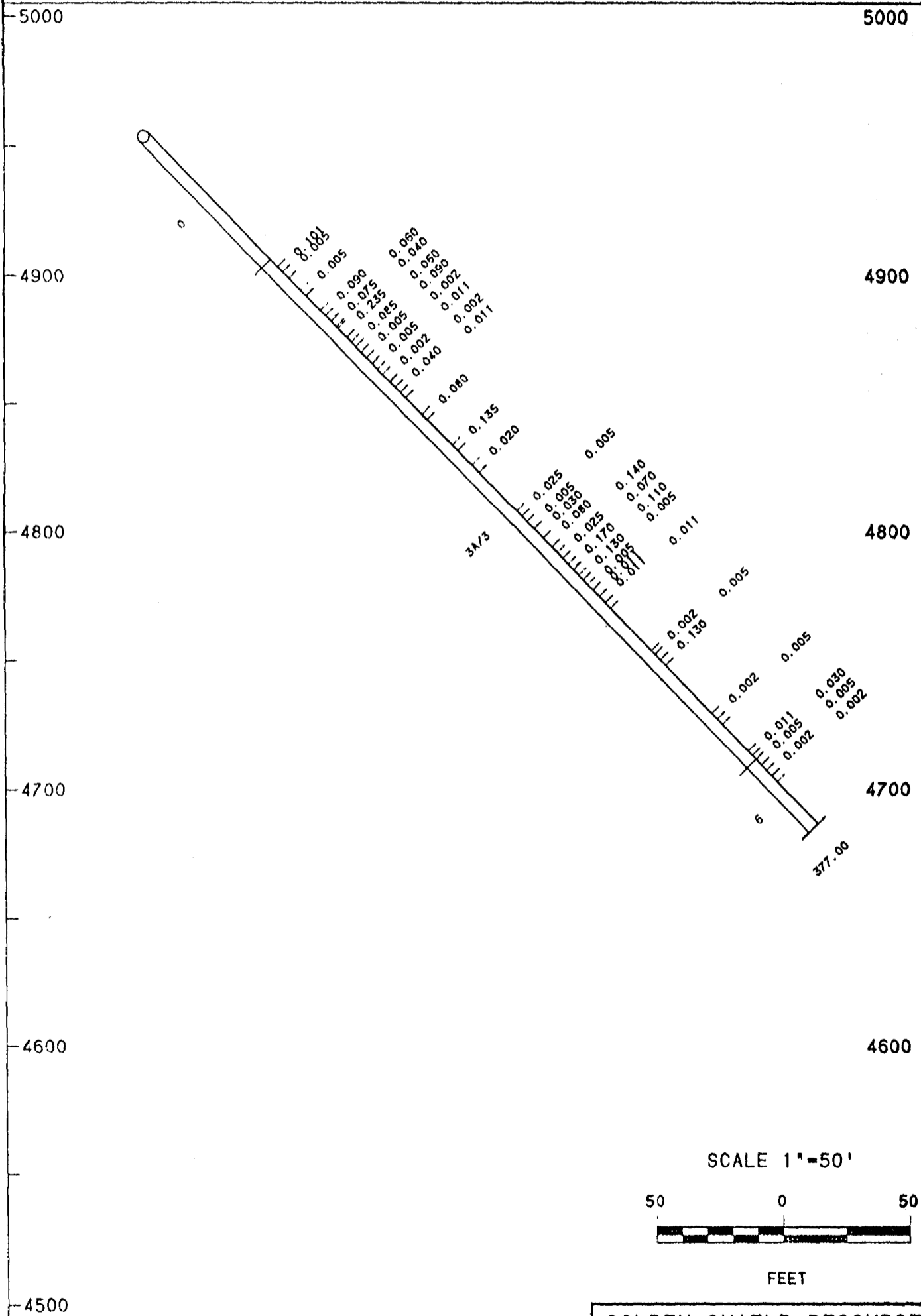
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			AG-18	95.0	97.0	2.0	0.005	n/a
			AG-19	109.0	111.5	2.5	0.005	n/a
			AG-20	120.0	123.5	3.5	0.030	n/a
			AG-21	123.5	127.0	3.5	0.002	n/a
127.4	138.0	METADIORITE (8)						
138.0	164.6	FELSIC TUFF +/- LAPILLI (3A)	AG-22	142.0	145.0	3.0	0.010	n/a
			AG-23	145.0	148.0	3.0	0.020	n/a
			AG-24	148.0	153.0	5.0	0.015	n/a
			AG-25	153.0	158.0	5.0	0.010	n/a
			AG-26	158.0	161.0	3.0	0.040	n/a
			AG-27	161.0	165.0	4.0	0.025	n/a
164.6	166.5	CHLORIC DYKE (9)						
166.5	183.0	FELSIC TUFF +/- LAPILLI (3A)	AG-28	171.0	176.0	5.0	0.025	n/a
			AG-29	176.0	178.0	2.0	5.730	n/a
			AG-30	178.0	181.0	3.0	n/a	n/a
			AG-31	181.0	184.0	3.0	0.002	n/a
183.0	186.6	METADIORITE (8)	AG-32	184.0	187.0	3.0	0.002	n/a
186.6	217.0	FELSIC TUFF +/- LAPILLI (3A)	AG-33	187.0	190.0	3.0	0.020	n/a
			AG-34	190.0	193.0	3.0	0.005	n/a
			AG-35	193.0	196.0	3.0	0.002	n/a
			AG-36	196.0	199.0	3.0	0.002	n/a
			AG-37	199.0	202.0	3.0	0.002	n/a

86-27

557.00N
3148.00E



PLAN VIEW



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-27	
E 3148	AZIMUTH 35
N 557	DIP -45
Scale 1" = 50'	

Coords: 557.0N 3148.0E

HOLE NO.: 86-27

Azimuth: 35.0

Mirado Project

Dip: -45.0

Elevation: 4953.0

Length: 377.0

Dip Tests

377.00 35.0 -46.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	69.0	OVERBURDEN (0)						
69.0	342.0	FELSIC TUFF +/- LAPILLI (3A/3)						
			AH-1	73.0	76.0	3.0	0.100	n/a
			AH-2	76.0	79.5	3.5	0.005	n/a
			AH-3	86.0	89.0	3.0	0.005	n/a
			AH-4	97.0	100.0	3.0	0.090	n/a
			AH-5	100.0	103.0	3.0	0.060	n/a
			AH-6	103.0	106.0	3.0	0.075	n/a
			AH-7	106.0	107.0	1.0	0.040	n/a
			AH-8	107.0	112.0	5.0	0.235	0.350
			AH-9	112.0	114.5	2.5	0.060	n/a
			AH-10	114.5	117.0	2.5	0.085	n/a
			AH-11	117.0	120.0	3.0	0.090	n/a
			AH-12	120.0	123.0	3.0	0.005	n/a
			AH-13	123.0	126.0	3.0	0.002	n/a
			AH-14	126.0	129.0	3.0	0.005	n/a
			AH-15	129.0	132.0	3.0	0.010	n/a
			AH-16	132.0	136.0	4.0	0.002	n/a
			AH-17	136.0	139.0	3.0	0.002	n/a
			AH-18	139.0	142.0	3.0	0.040	n/a
			AH-19	142.0	145.0	3.0	0.010	n/a

Golden Shield Resources Ltd.

Page: 2

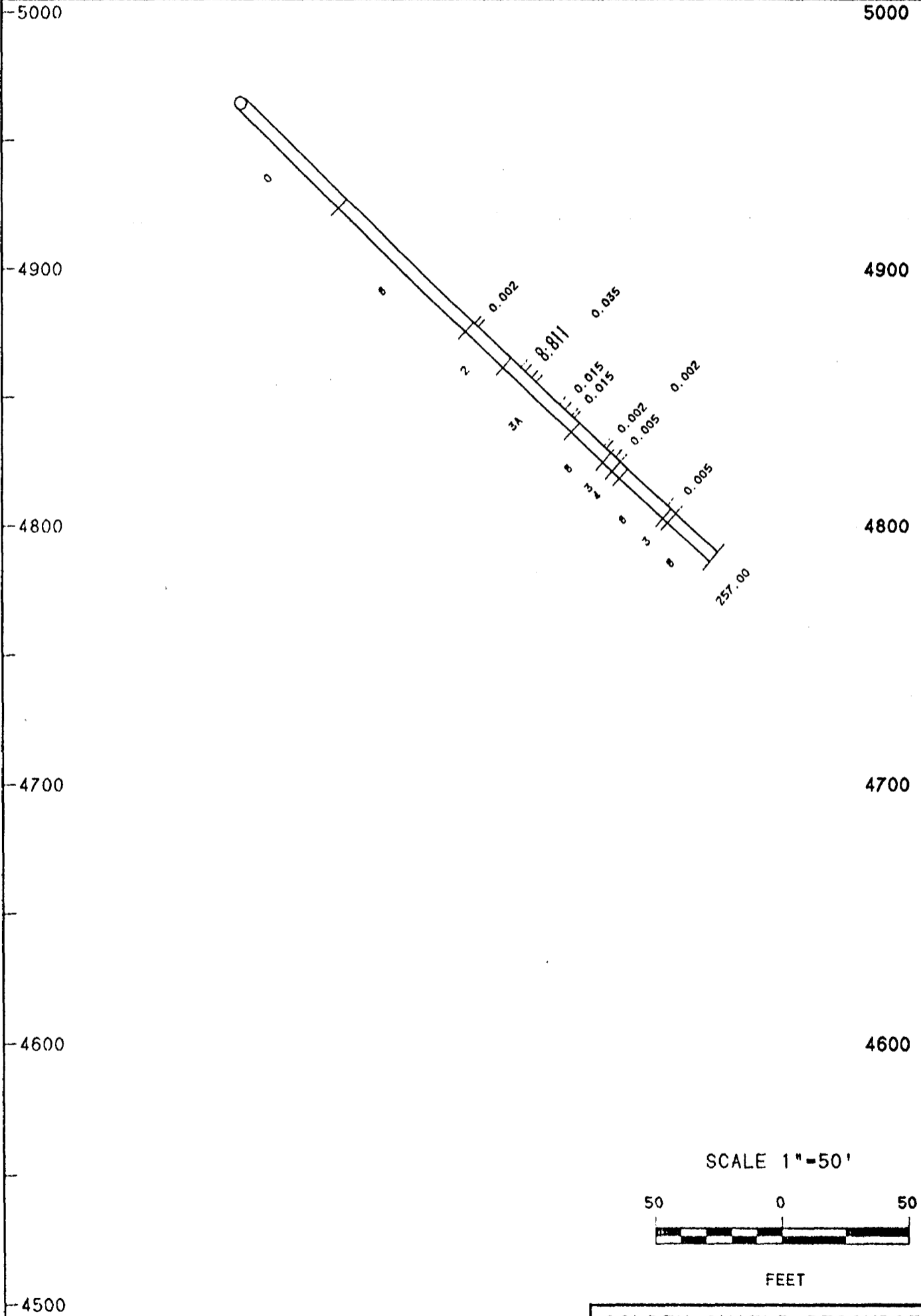
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			AH-20	154.0	157.0	3.0	0.080	n/a
			AH-21	171.0	174.0	3.0	0.135	n/a
			AH-22	182.0	186.0	4.0	0.020	n/a
			AH-23	207.0	210.0	3.0	0.025	n/a
			AH-24	210.0	213.0	3.0	0.005	n/a
			AH-25	213.0	217.0	4.0	0.005	n/a
			AH-26	217.0	222.0	5.0	0.030	n/a
			AH-27	222.0	227.0	5.0	0.080	n/a
			AH-28	227.0	230.0	3.0	0.140	n/a
			AH-29	230.0	233.0	3.0	0.025	n/a
			AH-30	233.0	236.0	3.0	0.070	n/a
			AH-31	236.0	239.0	3.0	0.170	n/a
			AH-32	239.0	242.0	3.0	0.110	n/a
			AH-33	242.0	244.5	2.5	0.130	n/a
			AH-34	244.5	247.0	2.5	0.005	n/a
			AH-35	247.0	250.0	3.0	0.005	n/a
			AH-36	250.0	253.5	3.5	0.010	n/a
			AH-37	253.5	257.0	3.5	0.010	n/a
			AH-38	257.0	260.0	3.0	0.010	n/a
			AH-39	283.0	285.0	2.0	0.002	n/a
			AH-40	285.0	288.0	3.0	0.005	n/a
			AH-41	288.0	291.0	3.0	0.130	n/a
			AH-42	317.0	320.0	3.0	0.002	n/a
			AH-43	320.0	323.0	3.0	0.005	n/a
			AH-44	337.5	340.0	2.5	0.010	n/a
			AH-45	340.0	342.0	2.0	0.030	n/a
342.0	377.0	RHYOLITE (+/- MASSIVE) (6)	AH-46	342.0	345.0	3.0	0.005	n/a
			AH-47	345.0	348.0	3.0	0.005	n/a
			AH-48	348.0	351.0	3.0	0.002	n/a
			AH-49	351.0	354.0	3.0	0.002	n/a

86-28

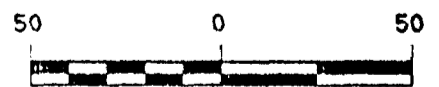
791.00N
3319.00E



PLAN VIEW



SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW

HOLE 86-28

E 3319
N 791

AZIMUTH 360
DIP -45

Scale 1" = 50'

Coords: 791.0N 3319.0E

HOLE NO.: 86-28

Azimuth: 360.0

Mirado Project

Dip: -45.0

Elevation: 4964.0

Length: 257.0

Dip Tests

257.00 360.0 -42.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	56.0	OVERBURDEN (0)						
56.0	125.8	METADIORITE (8)						
125.8	146.0	PYROCLASTIC CONGLOMERATE (2)						
146.0	183.0	FELSIC TUFF +/- LAPILLI (3A)	AJ-1	126.0	128.0	2.0	0.002	n/a
			AJ-2	151.0	153.5	2.5	0.010	n/a
			AJ-3	153.5	157.0	3.5	0.010	n/a
			AJ-4	157.0	159.5	2.5	0.035	n/a
			AJ-5	172.0	175.0	3.0	0.015	n/a
			AJ-6	178.5	180.0	1.5	0.015	n/a
183.0	200.0	METADIORITE (8)						
			AJ-7	196.0	197.5	1.5	0.002	n/a
200.0	205.0	FELSIC TUFF (3)						

Golden Shield Resources Ltd.

Page: 2

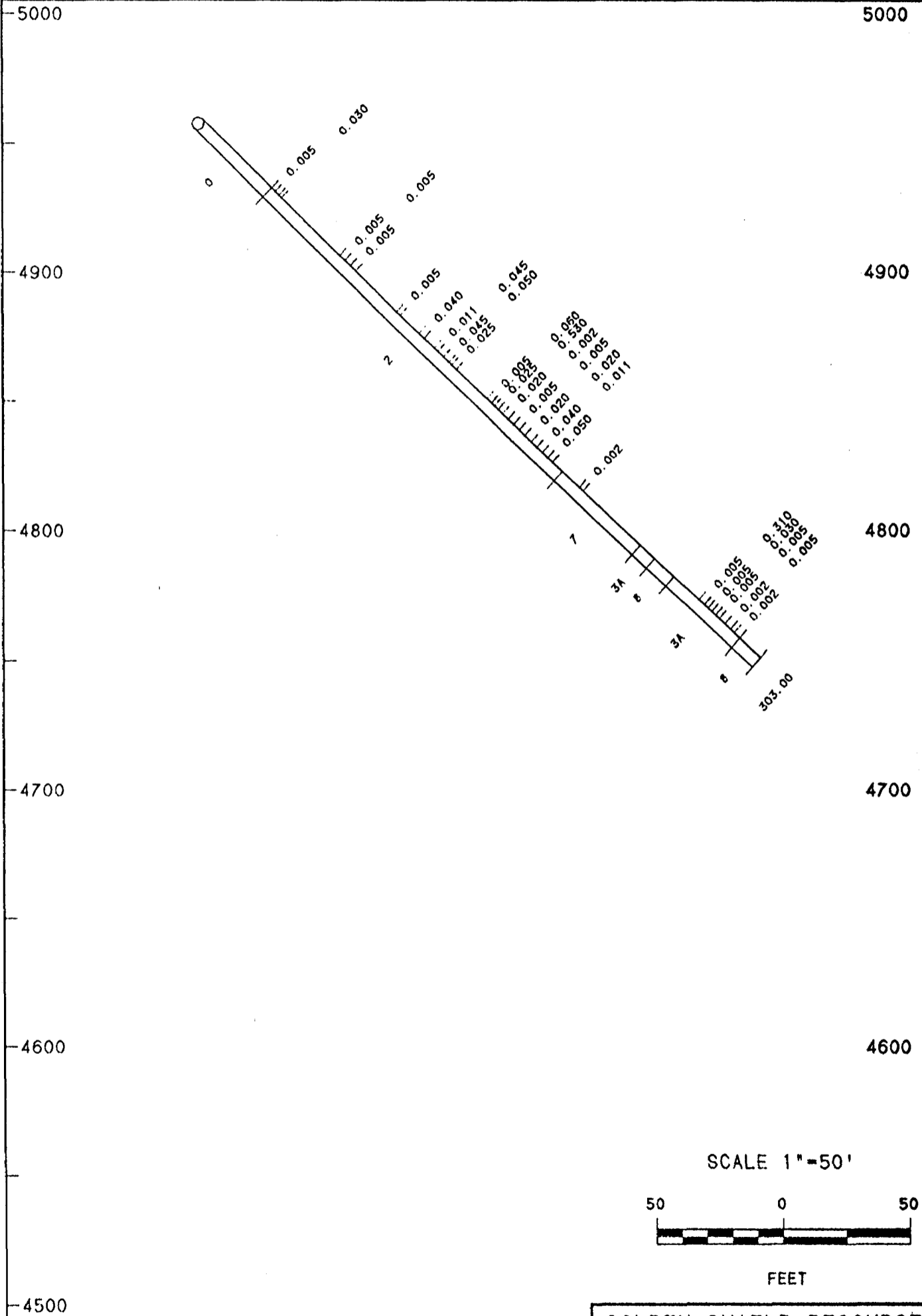
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			AJ-8	200.0	202.5	2.5	0.002	n/a
			AJ-9	202.5	205.0	2.5	0.005	n/a
205.0	209.0	INTERMEDIATE TUFF (4)						
209.0	232.0	METADIORITE (8)						
			AJ-10	230.0	234.5	4.5	0.005	n/a
232.0	234.5	FELSIC TUFF (3)						
234.5	257.0	METADIORITE (8)						

86-29

883.00N
3385.00E



PLAN VIEW



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-29	
E 3385 N 883	AZIMUTH 360 DIP -45
Scale 1" = 50'	

Coords: 883.0N 3385.0E

HOLE NO.: 86-29

Azimuth: 360.0

Mirado Project

Dip: -45.0

Elevation: 4957.0

Length: 303.0

Dip Tests

303.00 360.0 -42.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	38.0	OVERBURDEN (0)						
38.0	197.0	PYROCLASTIC CONGLOMERATE (2)						
			AK-1	38.0	40.0	2.0	0.005	n/a
			AK-2	42.0	43.5	1.5	0.030	n/a
			AK-3	75.5	78.5	3.0	0.005	n/a
			AK-4	78.5	81.5	3.0	0.005	n/a
			AK-5	81.5	84.5	3.0	0.005	n/a
			AK-6	107.0	109.0	2.0	0.005	n/a
			AK-7	119.0	122.0	3.0	0.040	n/a
			AK-8	127.5	129.5	2.0	0.010	n/a
			AK-9	129.5	132.5	3.0	0.045	n/a
			AK-10	132.5	135.5	3.0	0.045	n/a
			AK-11	135.5	137.0	1.5	0.050	n/a
			AK-12	137.0	139.5	2.5	0.025	n/a
			AK-13	156.0	158.5	2.5	0.005	n/a
			AK-14	158.5	160.0	1.5	0.060	n/a
			AK-15	160.0	162.0	2.0	0.025	n/a
			AK-16	162.0	164.5	2.5	0.530	n/a
			AK-17	164.5	167.5	3.0	0.020	n/a
			AK-18	167.5	170.5	3.0	0.002	n/a
			AK-19	170.5	173.5	3.0	0.005	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			AK-20	173.5	176.5	3.0	0.005	n/a
			AK-21	176.5	180.0	3.5	0.020	n/a
			AK-22	180.0	183.0	3.0	0.020	n/a
			AK-23	183.0	186.0	3.0	0.040	n/a
			AK-24	186.0	189.0	3.0	0.010	n/a
			AK-25	189.0	191.5	2.5	0.050	n/a
197.0	239.0	QUARTZ-FELDSPAR PORPHYRY (7)	AK-26	206.0	208.0	2.0	0.002	n/a
239.0	246.5	FELSIC TUFF +/- LAPILLI (3A)						
246.5	256.7	METADIORITE (8)						
256.7	292.0	FELSIC TUFF +/- LAPILLI (3A)	AK-27	270.0	273.0	3.0	0.005	n/a
			AK-28	273.0	275.0	2.0	0.310	n/a
			AK-29	275.0	277.0	2.0	0.005	n/a
			AK-30	277.0	279.0	2.0	0.030	n/a
			AK-31	279.0	281.0	2.0	0.005	n/a
			AK-32	281.0	284.0	3.0	0.005	n/a
			AK-33	284.0	287.0	3.0	0.002	n/a
			AK-34	287.0	289.0	2.0	0.005	n/a
			AK-35	289.0	292.0	3.0	0.002	n/a
292.0	303.0	METADIORITE (8)						

Coords: 852.0N 3268.0E

Golden Shield Resources Ltd.

HOLE NO.: 86-30

Page: 1

Azimuth: 7.0

Mirado Project

Dip: -45.0

Elevation: 4957.0

Length: 394.0

Dip Tests

394.00 7.0 -45.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	50.0	OVERBURDEN (0)						
50.0	87.7	PYROCLASTIC CONGLOMERATE (2)						
			AL-1	54.0	57.0	3.0	0.030	n/a
			AL-2	57.0	59.0	2.0	0.045	n/a
			AL-3	73.0	75.0	2.0	0.160	n/a
			AL-4	75.0	78.0	3.0	0.020	n/a
			AL-5	78.0	81.0	3.0	0.105	n/a
87.7	97.0	QUARTZ-FELDSPAR PORPHYRY (7)						
97.0	196.0	FELSIC TUFF +/- LAPILLI (3/3A)						
			AL-6	131.0	134.0	3.0	0.005	n/a
			AL-7	134.0	137.0	3.0	0.002	n/a
			AL-8	137.0	140.0	3.0	0.002	n/a
			AL-9	140.0	143.0	3.0	0.002	n/a
			AL10	143.0	145.0	2.0	0.002	n/a
			AL11	145.0	147.0	2.0	0.005	n/a
			AL12	147.0	152.0	5.0	0.002	n/a
			AL13	152.0	157.0	5.0	0.002	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	AU oz	Check oz
			AL14	157.0	162.0	5.0	Nil	n/a
			AL15	162.0	167.0	5.0	0.005	n/a
			AL16	167.0	172.0	5.0	0.002	n/a
			AL17	172.0	177.0	5.0	0.002	n/a
			AL18	177.0	182.0	5.0	Nil	n/a
			AL19	182.0	185.0	3.0	0.002	n/a
			AL20	185.0	190.0	5.0	0.005	n/a
			AL21	190.0	195.0	5.0	0.010	n/a
196.0	197.5	METADIORITE (8)						
197.5	206.2	FELSIC TUFF +/- LAPILLI (3A)						
			AL22	198.0	199.5	1.5	0.002	n/a
			AL23	199.5	201.5	2.0	0.002	n/a
			AL24	201.5	203.5	2.0	0.100	0.065
			AL25	203.5	205.3	1.8	0.002	n/a
206.2	209.3	METADIORITE (8)						
209.3	214.0	FELSIC TUFF +/- LAPILLI (3A)						
214.0	215.6	METADIORITE (8)						
215.6	237.4	FELSIC TUFF +/- LAPILLI (3A)						
			AL26	217.0	222.0	5.0	0.002	n/a
			AL27	222.0	227.0	5.0	0.005	n/a
237.4	243.8	METADIORITE (8)						
243.8	326.5	FELSIC TUFF +/- LAPILLI (3A)						
			AL28	243.8	246.5	2.7	0.010	n/a
			AL29	246.5	250.0	3.5	0.010	n/a
			AL30	250.0	253.0	3.0	0.015	n/a

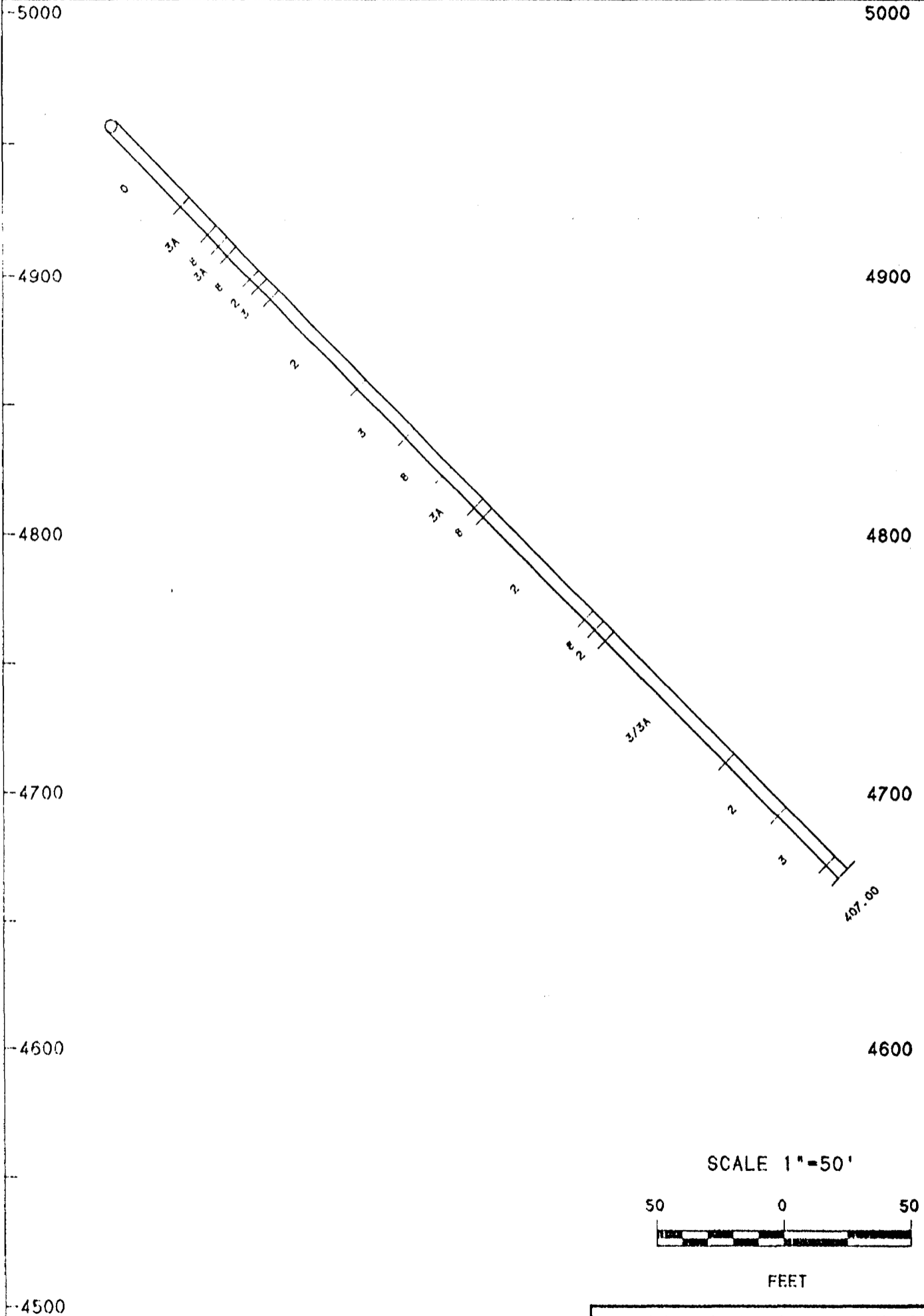
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			AL31	253.0	256.0	3.0	0.020	n/a
			AL32	256.0	259.0	3.0	0.005	n/a
			AL33	259.0	262.0	3.0	0.030	n/a
			AL34	262.0	265.0	3.0	0.015	n/a
			AL35	265.0	267.0	2.0	0.155	n/a
			AL36	267.0	269.0	2.0	0.080	n/a
			AL37	269.0	272.0	3.0	0.015	n/a
			AL38	272.0	274.5	2.5	0.010	n/a
			AL39	274.5	277.0	2.5	0.010	n/a
			AL40	277.0	280.0	3.0	0.005	n/a
			AL41	280.0	283.0	3.0	0.005	n/a
			AL42	283.0	286.0	3.0	0.315	n/a
			AL43	286.0	289.0	3.0	0.010	n/a
			AL44	289.0	292.0	3.0	0.010	n/a
			AL45	292.0	295.0	3.0	0.010	n/a
			AL46	295.0	297.0	2.0	0.015	n/a
			AL47	297.0	302.0	5.0	0.030	n/a
			AL48	302.0	305.0	3.0	0.005	n/a
			AL49	305.0	308.0	3.0	0.010	n/a
			AL50	308.0	311.0	3.0	0.010	n/a
			AL51	311.0	315.0	4.0	0.010	n/a
			AL52	315.0	319.0	4.0	0.080	n/a
			AL53	319.0	322.0	3.0	0.035	n/a
			AL54	322.0	325.0	3.0	0.030	n/a
326.5	407.0	QUARTZ-FELDSPAR PORPHYRY (7)	AL55	327.0	329.0	2.0	0.015	n/a
			AL56	332.0	337.0	5.0	0.050	n/a
			AL57	383.0	386.0	3.0	0.002	n/a
			AL58	386.0	391.0	5.0	0.010	n/a
			AL59	391.0	394.0	3.0	0.002	n/a

86-31

752.00N
3576.00E



PLAN VIEW



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-31	
E 3576 N 752	AZIMUTH 30 DIP -45
Scale 1" = 50'	

Coords: 752.0N 3576.0E

HOLE NO.: 86-31

Azimuth: 30.0

Mirado Project

Dip: -45.0

Elevation: 4956.0

Length: 407.0

Dip Tests

407.00 30.0 -45.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	41.0	OVERBURDEN (0)						
41.0	56.0	FELSIC TUFF +/- LAPILLI (3A)						
56.0	62.0	METADIORITE (8)						
62.0	67.0	FELSIC TUFF +/- LAPILLI (3A)						
67.0	79.8	METADIORITE (8)						
79.8	84.5	PYROCLASTIC CONGLOMERATE (2)						
84.5	91.0	FELSIC TUFF (3)						
91.0	139.5	PYROCLASTIC CONGLOMERATE (2)						

Golden Shield Resources Ltd.

Page: 2

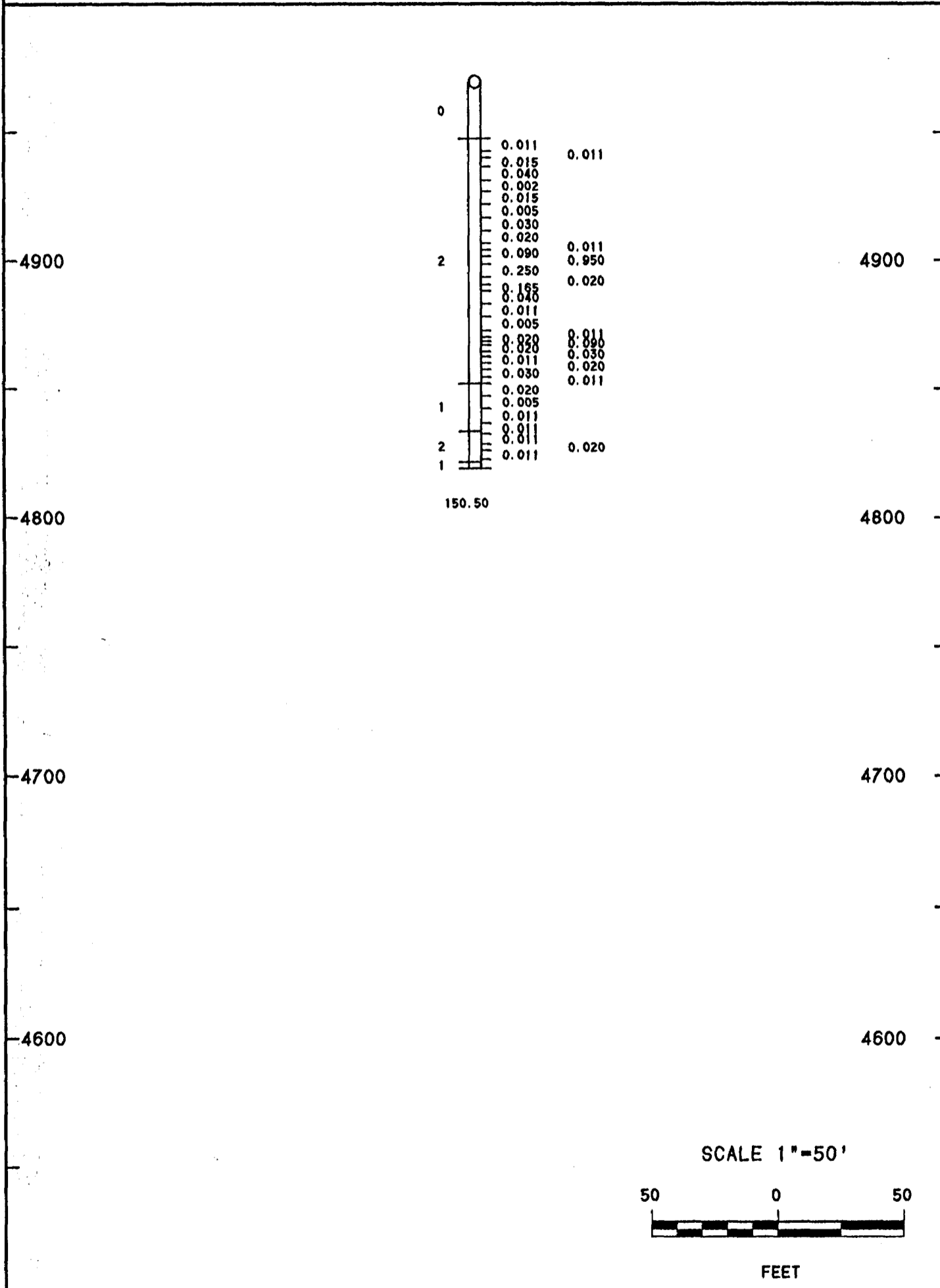
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
139.5	166.3	FELSIC TUFF (3)						
166.3	187.0	METADIORITE (8)						
187.0	204.5	FELSIC TUFF +/- LAPILLI (3A)						
204.5	209.5	METADIORITE (8)						
209.5	266.0	PYROCLASTIC CONGLOMERATE (2)						
266.0	271.5	METADIORITE (8)						
271.5	277.3	PYROCLASTIC CONGLOMERATE (2)						
277.3	344.0	FELSIC TUFF +/- LAPILLI (3/3A)						
344.0	373.0	PYROCLASTIC CONGLOMERATE (2)						
373.0	400.0	FELSIC TUFF (3)						

86-32

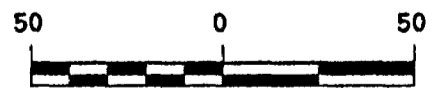
1067.00N
3679.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE 86-32

E 3679
N 1067

AZIMUTH 0
DIP -90

Scale 1" = 50'

Coords: 1067.0N 3679.0E

HOLE NO.: 86-32

Azimuth: 0.0

Mirado Project

Dip: -90.0

Elevation: 4969.0

Length: 150.5

Dip Tests

150.50 0.0 -90.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	22.0	OVERBURDEN (0)						
22.0	117.5	PYROCLASTIC CONGLOMERATE (2)						
			30038	22.0	27.0	5.0	0.010	n/a
			30039	27.0	29.5	2.5	0.010	n/a
			30040	29.5	33.0	3.5	0.015	n/a
			30041	33.0	38.5	5.5	0.040	0.030
			30042	38.5	43.0	4.5	0.002	n/a
			30043	43.0	48.0	5.0	0.015	n/a
			30044	48.0	53.0	5.0	0.005	n/a
			30045	53.0	58.0	5.0	0.030	n/a
			30046	58.0	63.0	5.0	0.020	n/a
			30047	63.0	65.5	2.5	0.010	n/a
			30048	65.5	68.0	2.5	0.090	n/a
			30049	68.0	71.0	3.0	0.950	0.850
			30050	71.0	76.0	5.0	0.250	n/a
			30051	76.0	79.0	3.0	0.020	n/a
			30052	79.0	81.5	2.5	0.165	0.180
			30053	81.5	86.5	5.0	0.040	n/a
			30054	86.5	91.5	5.0	0.010	n/a
			30055	91.5	97.0	5.5	0.005	n/a
			30056	97.0	99.5	2.5	0.010	n/a

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Page: 2

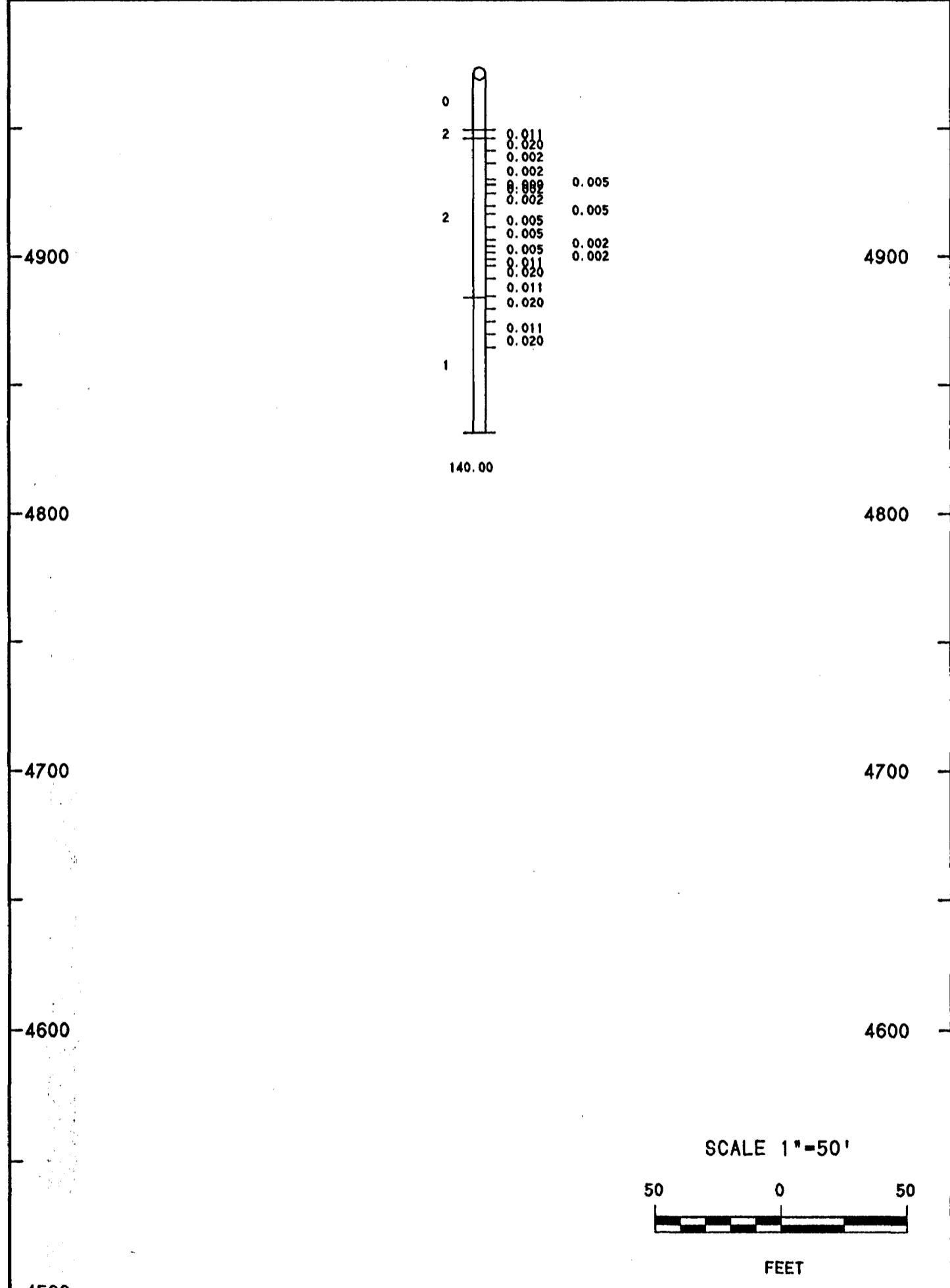
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	AU oz	Check oz
			30057	99.5	101.0	1.5	0.020	0.020
			30058	101.0	102.5	1.5	0.090	0.110
			30059	102.5	105.0	2.5	0.020	n/a
			30060	105.0	107.0	2.0	0.030	n/a
			30061	107.0	109.5	2.5	0.010	n/a
			30062	109.5	112.0	2.5	0.020	n/a
			30063	112.0	115.0	3.0	0.030	n/a
			30064	115.0	117.5	2.5	0.010	0.020
117.5	136.0	ANDESITE / DACITE (1)						
			30065	117.5	122.5	5.0	0.020	n/a
			30066	122.5	127.5	5.0	0.005	n/a
			30067	127.5	133.0	5.5	0.010	n/a
			30068	133.0	137.0	4.0	0.010	n/a
136.0	148.0	PYROCLASTIC CONGLOMERATE (2)						
			30069	137.0	141.0	4.0	0.010	n/a
			30070	141.0	143.5	2.5	0.020	n/a
			30071	143.5	147.0	3.5	0.010	n/a
148.0	150.5	ANDESITE / DACITE (1)						

86-33

1126.00N
3722.00E



PLAN VIEW



4900

4900

4800

4800

4700

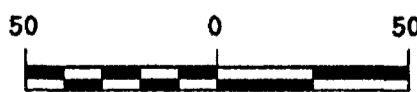
4700

4600

4600

4500

SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-33	
E 3722	AZIMUTH 0
N 1126	DIP -90
Scale 1" = 50'	

Coords: 1126.0N 3722.0E

HOLE NO.: 86-33

Azimuth: 0.0

Mirado Project

Dip: -90.0

Elevation: 4971.0

Length: 140.0

Dip Tests

140.00 0.0 -90.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	22.0	OVERBURDEN (0)						
22.0	25.3	PYROCLASTIC CONGLOMERATE (2)	30072	22.0	25.3	3.3	0.010	n/a
25.3	87.5	PYROCLASTIC CONGLOMERATE (2)	30073	25.3	30.0	4.7	0.020	n/a
			30074	30.0	35.0	5.0	0.002	n/a
			30075	35.0	41.5	6.5	0.002	n/a
			30076	41.5	43.5	2.0	0.005	0.005
			FLTG6E	43.5	43.7	0.2	0.000	n/a
			30077	43.7	47.0	3.3	0.002	n/a
			30078	47.0	52.0	5.0	0.002	n/a
			30079	52.0	55.0	3.0	0.005	n/a
			30080	55.0	60.0	5.0	0.005	n/a
			30081	60.0	65.0	5.0	0.005	n/a
			30082	65.0	67.5	2.5	0.002	n/a
			30083	67.5	70.0	2.5	0.005	n/a
			30084	70.0	72.5	2.5	0.002	n/a
			30085	72.5	75.0	2.5	0.010	n/a
			30086	75.0	80.0	5.0	0.020	n/a

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Page: 2

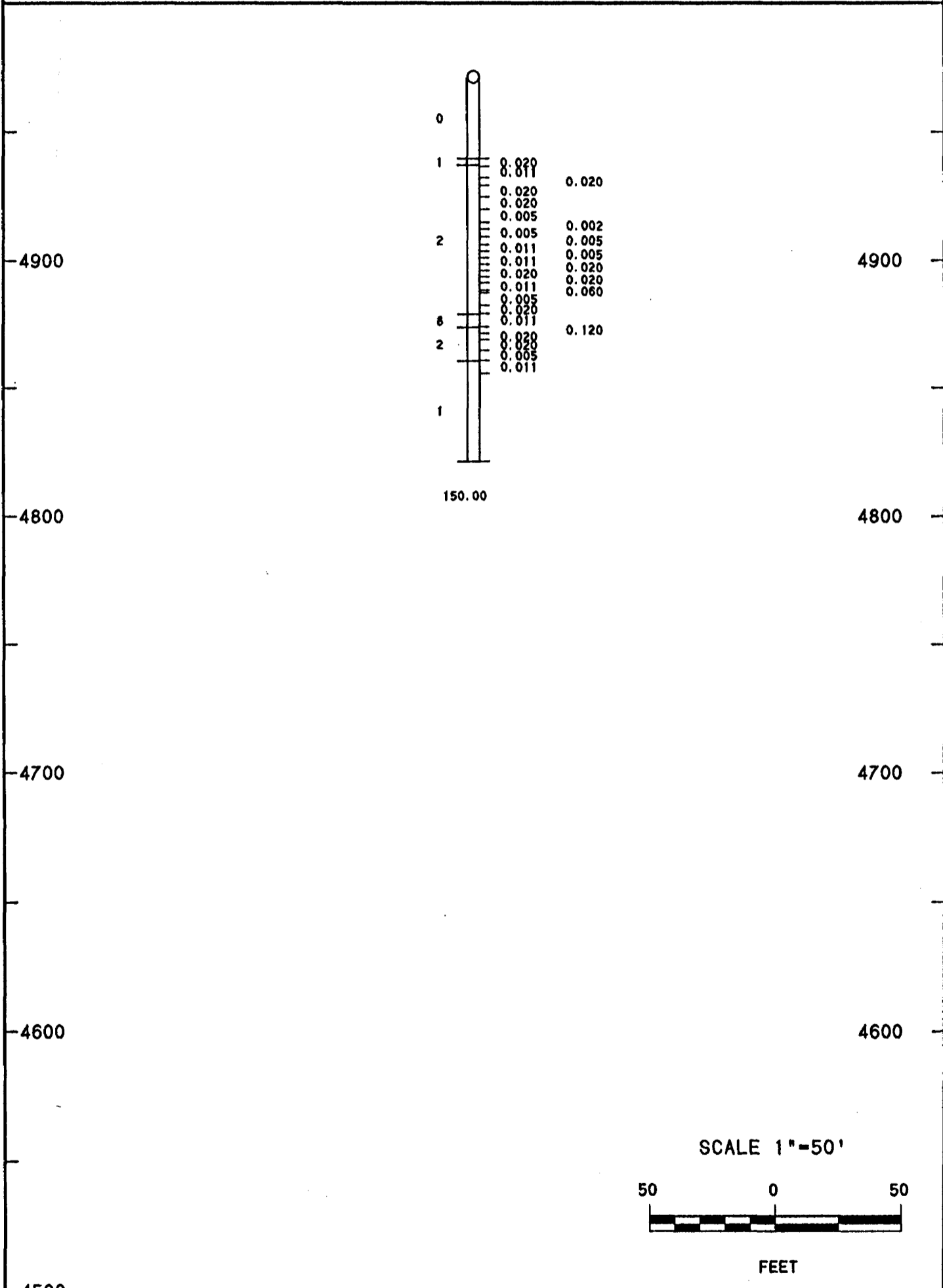
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			30087	80.0	87.0	7.0	0.010	n/a
			30088	87.0	92.0	5.0	0.020	n/a
87.5	140.0	ANDESITE / DACITE (1)	30089	97.0	102.0	5.0	0.010	n/a
			30090	102.0	107.0	5.0	0.020	n/a

86-34

1117.00N
3672.00E



PLAN VIEW



GOLDEN SHIELD RESOURCES
MIRADO PROJECT
SECTION VIEW HOLE 86-34
E 3672 AZIMUTH 0 N 1117 DIP -90
Scale 1" = 50'

Coords: 1117.0N 3672.0E

HOLE NO.: 86-34

Azimuth: 0.0

Mirado Project

Dip: -90.0

Elevation: 4971.0

Length: 150.0

Dip Tests

150.00 0.0 -90.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	32.0	OVERBURDEN (0)						
32.0	34.5	ANDESITE / DACITE (1)	30091	32.0	35.0	3.0	0.020	n/a
34.5	92.7	PYROCLASTIC CONGLOMERATE (2)	30092	35.0	39.5	4.5	0.010	0.010
			30093	39.5	42.5	3.0	0.020	n/a
			30094	42.5	47.0	4.5	0.020	n/a
			30095	47.0	52.0	5.0	0.020	n/a
			30096	52.0	57.0	5.0	0.005	n/a
			30097	57.0	59.5	2.5	0.002	n/a
			30098	59.5	62.5	3.0	0.005	n/a
			30099	62.5	65.5	3.0	0.005	n/a
			30100	65.5	68.0	2.5	0.010	n/a
			30101	68.0	70.5	2.5	0.005	n/a
			30102	70.5	73.0	2.5	0.010	n/a
			30103	73.0	75.5	2.5	0.020	n/a
			30104	75.5	78.0	2.5	0.020	n/a
			30105	78.0	80.5	2.5	0.020	n/a
			30106	80.5	83.5	3.0	0.010	n/a

Golden Shield Resources Ltd.

Page: 2

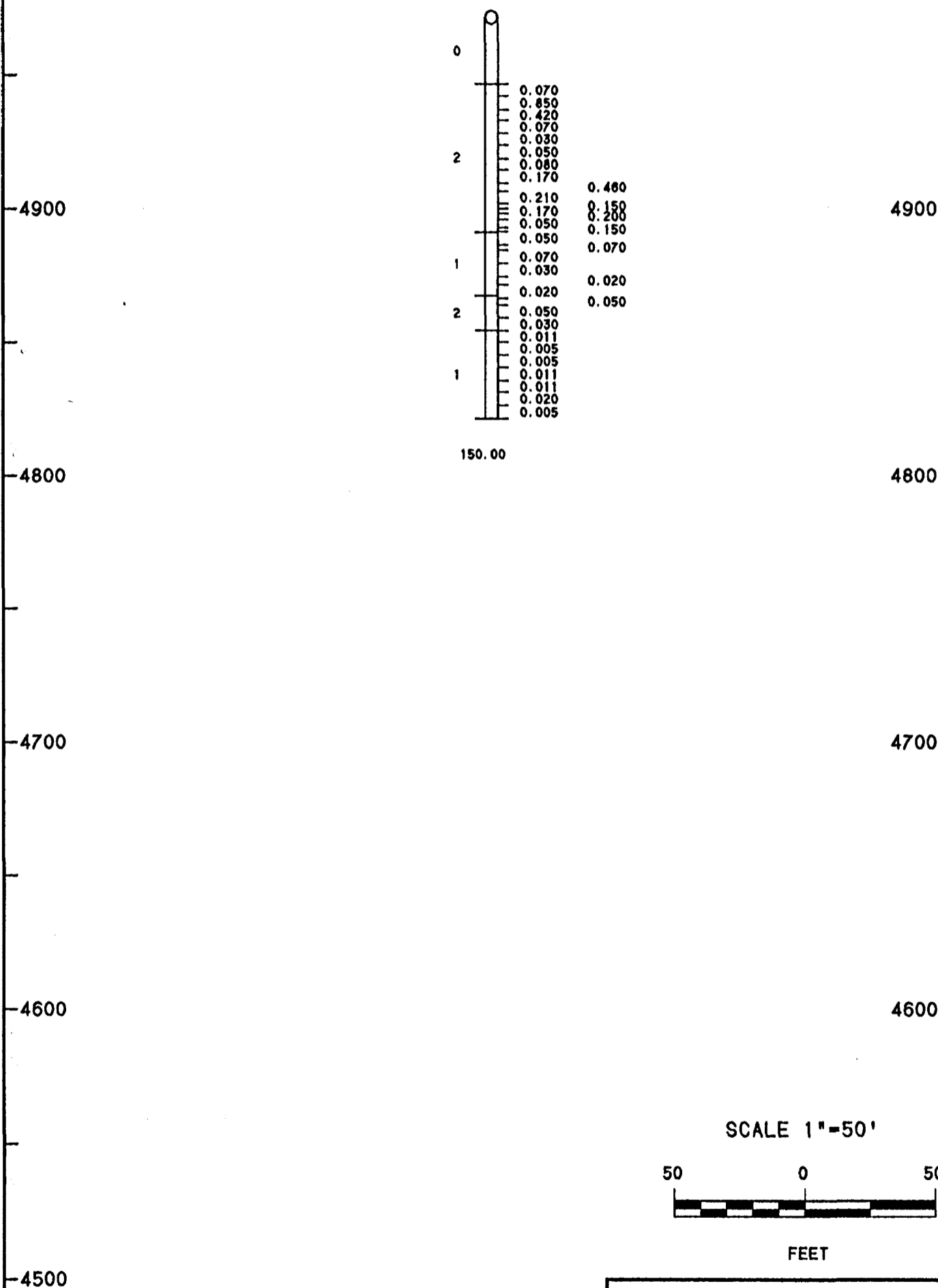
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			30107	83.5	84.5	1.0	0.060	0.070
			30108	84.5	89.5	5.0	0.005	n/a
			30109	89.5	92.7	3.2	0.020	0.030
92.7	97.7	METADIORITE (8)	30110	92.7	97.7	5.0	0.010	n/a
97.7	111.0	PYROCLASTIC CONGLOMERATE (2)	30111	97.7	100.2	2.5	0.120	0.140
			30112	100.2	102.7	2.5	0.020	n/a
			30113	102.7	107.0	4.3	0.020	n/a
			30114	107.0	111.0	4.0	0.005	n/a
111.0	150.0	ANDESITE / DACITE (1)	30115	111.0	116.0	5.0	0.010	n/a

86-35

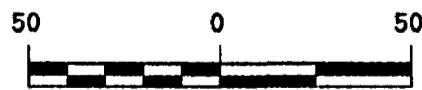
1103.00N
3626.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-35	
E 3626	AZIMUTH 0
N 1103	DIP -90
Scale 1" = 50'	

Coords: 1103.0N 3626.0E

HOLE NO.: 86-35

Azimuth: 0.0

Mirado Project

Dip: -90.0

Elevation: 4971.0

Length: 150.0

Dip Tests

150.00 0.0 -90.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	24.8	OVERBURDEN (0)						
24.8	80.3	PYROCLASTIC CONGLOMERATE (2)						
			30116	24.8	29.3	4.5	0.070	n/a
			30117	29.3	34.5	5.2	0.850	0.800
			30118	34.5	38.5	4.0	0.420	0.460
			30119	38.5	43.5	5.0	0.070	n/a
			30120	43.5	48.0	4.5	0.030	n/a
			30121	48.0	53.0	5.0	0.050	n/a
			30122	53.0	57.0	4.0	0.080	0.090
			30123	57.0	62.0	5.0	0.170	n/a
			30124	62.0	65.0	3.0	0.460	0.490
			30125	65.0	69.6	4.6	0.210	n/a
			30126	69.6	71.5	1.9	0.150	n/a
			30127	71.5	73.2	1.7	0.170	n/a
			30128	73.2	75.5	2.3	0.200	0.230
			30129	75.5	78.5	3.0	0.050	n/a
			30130	78.5	80.0	1.5	0.150	n/a
			30131	80.0	85.0	5.0	0.050	n/a

80.3 104.0 ANDESITE / DACITE (1)

Golden Shield Resources Ltd.

Page: 2

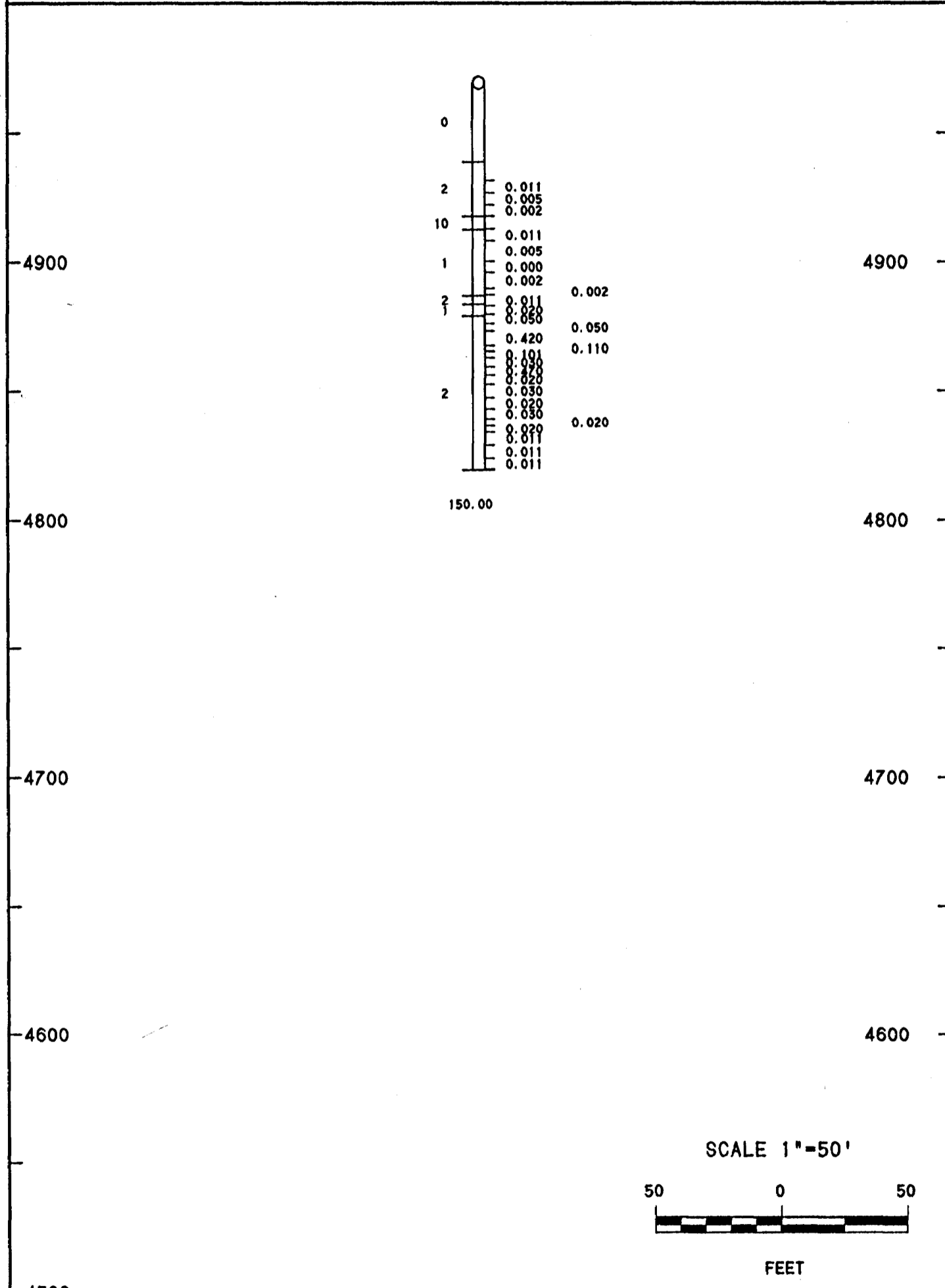
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			30132	85.0	87.0	2.0	0.070	0.080
			30133	87.0	92.0	5.0	0.070	n/a
			30134	92.0	97.0	5.0	0.030	n/a
			30135	97.0	100.0	3.0	0.020	n/a
			30136	100.0	105.0	5.0	0.020	n/a
104.0	117.0	PYROCLASTIC CONGLOMERATE (2)						
			30137	105.0	107.5	2.5	0.050	n/a
			30138	107.5	112.3	4.8	0.050	n/a
			30139	112.3	117.1	4.8	0.030	n/a
117.0	150.0	ANDESITE / DACITE (1)						
			30140	117.1	121.4	4.3	0.010	n/a
			30141	121.4	126.4	5.0	0.005	n/a
			30142	126.4	131.0	4.6	0.005	n/a
			30143	131.0	135.8	4.8	0.010	n/a
			30144	135.8	140.0	4.2	0.010	n/a
			30145	140.0	145.0	5.0	0.020	n/a
			30146	145.0	150.0	5.0	0.005	0.005

86-36

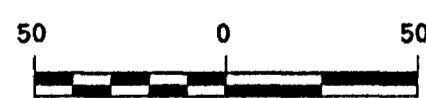
1048.00N
3640.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-36	
E 3640 N 1048	AZIMUTH 0 DTP -90
Scale 1" = 50'	

Coords: 1048.0N 3640.0E

HOLE NO.: 86-36

Azimuth: 0.0

Mirado Project

Dip: -90.0

Elevation: 4969.0

Length: 150.0

Dip Tests

150.00 0.0 -90.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	30.5	OVERBURDEN (0)						
30.5	51.8	PYROCLASTIC CONGLOMERATE (2)						
			30147	37.9	42.8	4.9	0.010	n/a
			30148	42.8	47.5	4.7	0.005	n/a
			30149	47.5	51.7	4.2	0.002	n/a
51.8	56.9	SYENITE (10)						
			30150	56.6	61.1	4.5	0.010	n/a
56.9	82.5	ANDESITE / DACITE (1)						
			30151	61.1	69.3	8.2	0.005	n/a
			30152	69.3	73.5	4.2	0.000	n/a
			30153	73.5	79.6	6.1	0.002	n/a
			30154	79.6	82.1	2.5	0.002	n/a
			30155	82.1	86.5	4.4	0.010	n/a
82.5	85.9	PYROCLASTIC CONGLOMERATE (2)						

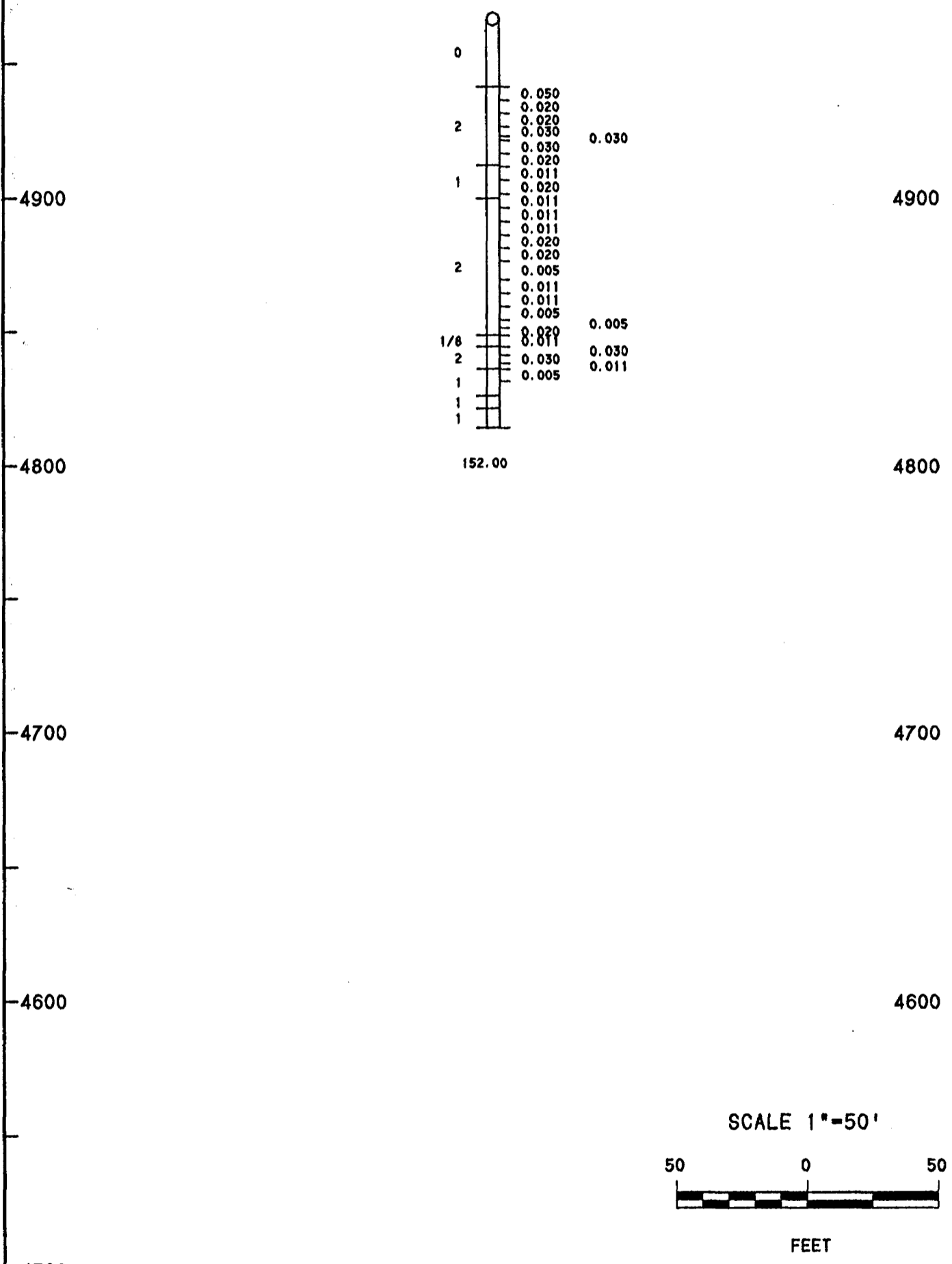
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
85.9	90.7	ANDESITE / DACITE (1)						
			30156	86.5	90.0	3.5	0.020	n/a
			30157	90.0	93.7	3.7	0.050	n/a
90.7	150.0	PYROCLASTIC CONGLOMERATE (2)						
			30158	93.7	96.5	2.8	0.050	n/a
			30159	96.5	101.9	5.4	0.420	0.420
			30160	101.9	104.0	2.1	0.110	n/a
			30161	104.0	106.5	2.5	0.100	n/a
			30162	106.5	110.0	3.5	0.030	n/a
			30163	110.0	113.3	3.3	0.470	0.510
			30164	113.3	117.0	3.7	0.020	n/a
			30165	117.0	122.1	5.1	0.030	n/a
			30166	122.1	126.4	4.3	0.020	n/a
			30167	126.4	130.4	4.0	0.030	n/a
			30168	130.4	132.9	2.5	0.020	n/a
			30169	132.9	135.4	2.5	0.020	n/a
			30170	135.4	140.5	5.1	0.010	n/a
			30171	140.5	145.5	5.0	0.010	n/a
			30172	145.5	149.7	4.2	0.010	n/a

86-37

1016.00N
3685.00E



PLAN VIEW



GOLDEN SHIELD RESOURCES
MIRADO PROJECT
SECTION VIEW HOLE 86-37
E 3685 AZIMUTH 0 N 1016 DIP -90
Scale 1" = 50'

Coords: 1016.0N 3685.0E

HOLE NO.: 86-37

Azimuth: 0.0

Mirado Project

Dip: -90.0

Elevation: 4966.0

Length: 152.0

Dip Tests

152.00 0.0 -90.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	25.0	OVERBURDEN (0)						
25.0	54.5	PYROCLASTIC CONGLOMERATE (2)						
			30173	25.0	30.0	5.0	0.050	n/a
			30174	30.0	35.0	5.0	0.020	n/a
			30175	35.0	40.0	5.0	0.020	n/a
			30176	40.0	43.5	3.5	0.030	n/a
			30177	43.5	45.0	1.5	0.030	0.040
			30178	45.0	50.0	5.0	0.030	n/a
			30179	50.0	55.0	5.0	0.020	n/a
54.5	66.6	ANDESITE / DACITE (1)						
			30180	55.0	60.0	5.0	0.010	n/a
			30181	60.0	65.0	5.0	0.020	n/a
			30182	65.0	70.0	5.0	0.010	n/a
66.6	117.8	PYROCLASTIC CONGLOMERATE (2)						
			30183	70.0	75.0	5.0	0.010	n/a
			30184	75.0	80.0	5.0	0.010	n/a
			30185	80.0	85.0	5.0	0.020	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			30186	85.0	90.0	5.0	0.020	n/a
			30187	90.0	97.0	7.0	0.005	n/a
			30188	97.0	102.0	5.0	0.010	n/a
			30189	102.0	107.0	5.0	0.010	n/a
			30190	107.0	112.0	5.0	0.005	n/a
			30191	112.0	115.0	3.0	0.005	n/a
			30192	115.0	117.8	2.8	0.020	n/a
117.8	122.0	ANDESITE / DACITE / METADIORITE (1/8)	30193	117.8	122.0	4.2	0.010	n/a
122.0	130.2	PYROCLASTIC CONGLOMERATE (2)	30194	122.0	125.0	3.0	0.030	n/a
			30195	125.0	128.0	3.0	0.030	n/a
			30196	128.0	130.2	2.2	0.010	n/a
130.2	140.5	ANDESITE / DACITE (1)	30197	130.2	134.9	4.7	0.005	n/a
140.5	145.0	ANDESITE / DACITE (1)						
145.0	152.0	ANDESITE / DACITE (1)						

86-38

912.00N
3859.00E

PLAN VIEW



4900

4900

4800

4800

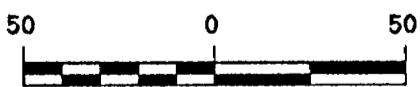
4700

4700

4600

4600

SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW

HOLE 86-38

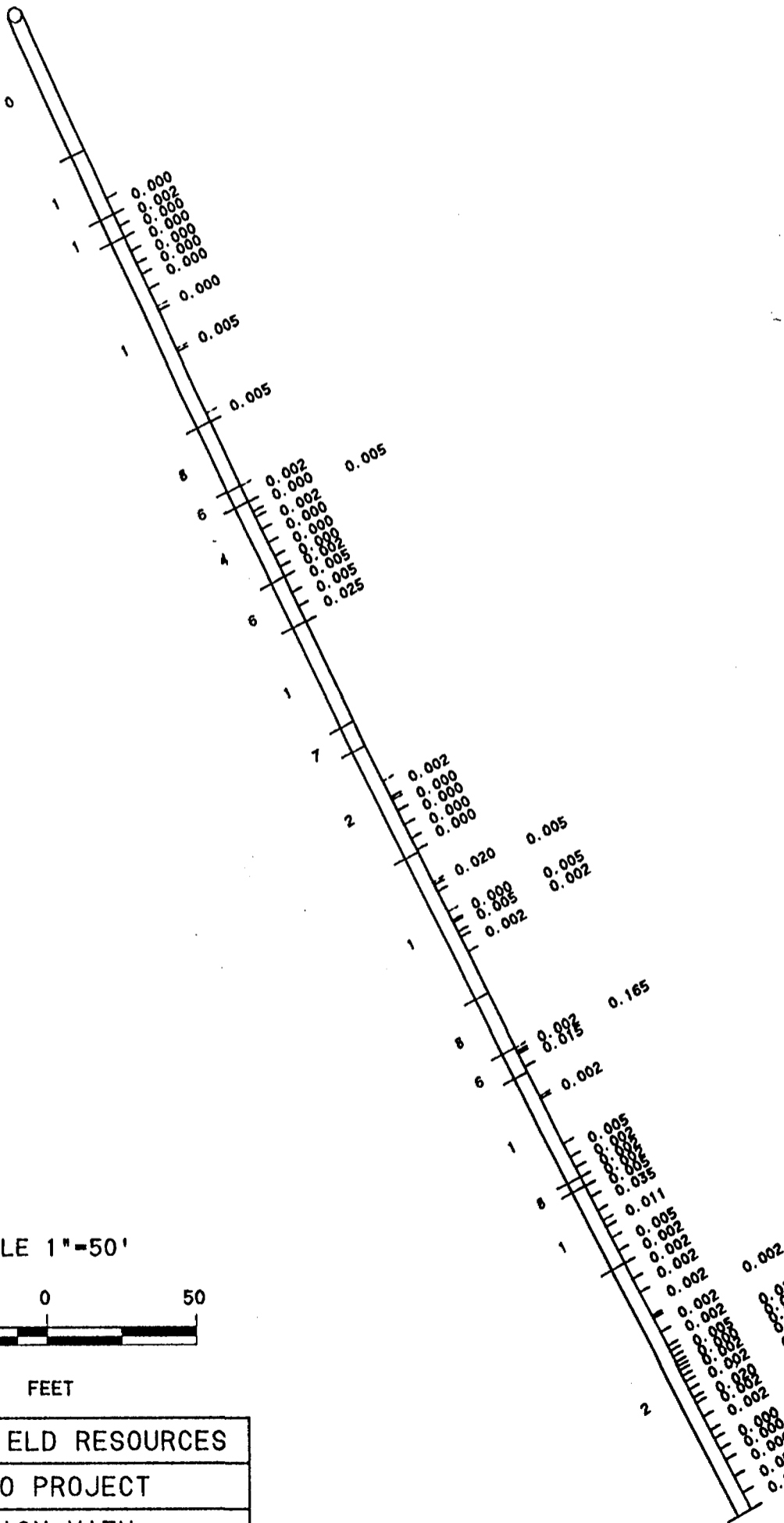
E 3859
N 912

AZIMUTH 256
DIP -65

Scale 1" = 50'

547.00

4500



Coords: 912.0N 3859.0E

HOLE NO.: 86-38

Azimuth: 256.0

Mirado Project

Dip: -65.0

Elevation: 4958.0

Length: 547.0

Dip Tests

547.00 256.0 -62.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	50.0	OVERBURDEN (0)						
50.0	72.7	ANDESITE / DACITE (1)	30198	67.0	72.7	5.7	0.000	n/a
72.7	81.0	ANDESITE / DACITE (1)	30199	72.7	77.0	4.3	0.002	n/a
			30200	77.0	81.0	4.0	0.000	n/a
81.0	148.2	ANDESITE / DACITE (1)	30201	81.0	86.0	5.0	0.000	n/a
			30202	86.0	90.5	4.5	0.000	n/a
			30203	90.5	94.5	4.0	0.000	n/a
			30204	94.5	100.0	5.5	0.000	n/a
			30205	106.5	108.0	1.5	0.000	n/a
			30206	121.5	122.5	1.0	0.005	0.005
			30207	145.0	148.2	3.2	0.005	n/a
148.2	171.1	METADIORITE (8)						

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
171.1	177.0	RHYOLITE (+/- MASSIVE) (6)	30208	171.1	177.0	5.9	0.002	n/a
177.0	204.5	INTERMEDIATE TUFF (4)	30209	177.0	180.5	3.5	0.000	n/a
			30210	180.5	182.5	2.0	0.005	n/a
			30211	182.5	187.0	4.5	0.002	n/a
			30212	187.0	192.0	5.0	0.000	n/a
			30213	192.0	197.0	5.0	0.000	n/a
			30214	197.0	201.0	4.0	0.000	n/a
			30215	201.0	204.5	3.5	0.002	n/a
204.5	220.7	RHYOLITE (+/- MASSIVE) (6)	30216	204.5	210.0	5.5	0.005	n/a
			30217	210.0	215.0	5.0	0.005	n/a
			30218	215.0	220.7	5.7	0.025	0.015
220.7	257.2	ANDESITE / DACITE (1)						
257.2	266.0	QUARTZ-FELDSPAR PORPHYRY (7)						
266.0	305.3	PYROCLASTIC CONGLOMERATE (2)	30219	279.0	285.0	6.0	0.002	n/a
			30220	286.0	290.0	4.0	0.000	n/a
			30221	290.0	295.0	5.0	0.000	n/a
			302	295.0	300.0	5.0	0.000	n/a
			30223	300.0	304.3	4.3	0.000	n/a
305.3	357.0	ANDESITE / DACITE (1)	30224	316.0	317.0	1.0	0.020	n/a
			30225	317.0	319.5	2.5	0.005	n/a
			30226	327.0	330.4	3.4	0.000	n/a
			30227	330.4	331.0	0.6	0.005	n/a

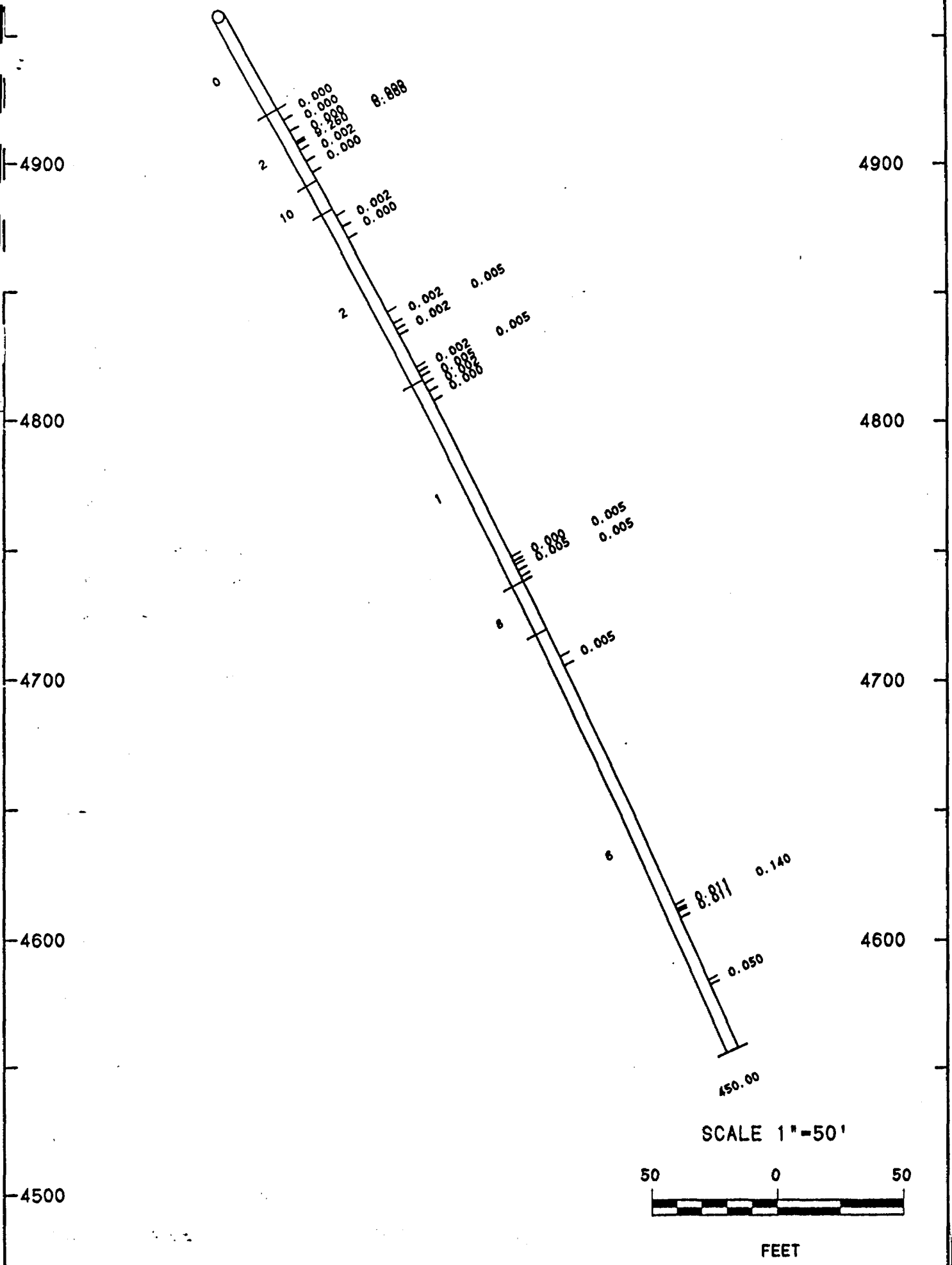
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			30228	331.0	334.5	3.5	0.005	n/a
			30229	334.5	336.5	2.0	0.002	n/a
			30230	336.5	342.0	5.5	0.002	n/a
357.0	377.0	METADIORITE (8)						
377.0	386.0	RHYOLITE (+/- MASSIVE) (6)	30231	377.0	378.3	1.3	0.002	n/a
			30232	378.3	379.2	0.9	0.165	0.175
			30233	379.2	384.0	4.8	0.015	n/a
386.0	424.6	ANDESITE / DACITE (1)	30234	394.8	395.7	0.9	0.002	n/a
			30235	412.0	417.0	5.0	0.005	n/a
			30236	417.0	421.0	4.0	0.002	n/a
			30237	421.0	424.6	3.6	0.002	n/a
424.6	428.0	METADIORITE (8)	30238	424.6	428.0	3.4	0.002	n/a
428.0	456.4	ANDESITE / DACITE (1)	30239	428.0	432.0	4.0	0.005	n/a
			30240	432.0	437.0	5.0	0.035	0.035
			30241	440.7	443.0	2.3	0.010	n/a
			30242	447.0	451.8	4.8	0.005	n/a
			30243	451.8	456.4	4.6	0.002	n/a
456.4	547.0	PYROCLASTIC CONGLOMERATE (2)	30244	456.4	462.0	5.6	0.002	n/a
			30245	462.0	467.0	5.0	0.002	n/a
			30246	467.0	475.8	8.8	0.002	n/a
			30247	475.8	476.8	1.0	0.002	n/a
			30248	476.8	482.0	5.2	0.002	n/a
			30249	482.0	487.1	5.1	0.002	n/a
			30250	487.1	489.0	1.9	0.016	n/a

86-39

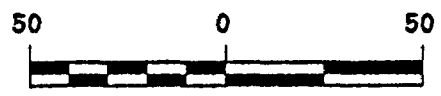
782.00N
3767.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-39	
E 3767	AZIMUTH 256
N 782	DIP -60
Scale 1" = 50'	

4400

Coords: 782.0N 3767.0E

HOLE NO.: 86-39

Azimuth: 256.0

Mirado Project

Dip: -60.0

Elevation: 4957.0

Length: 450.0

Dip Tests

450.00 256.0 -66.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	43.3	OVERBURDEN (0)						
43.3	75.2	PYROCLASTIC CONGLOMERATE (2)						
			30301	43.3	48.3	5.0	0.000	n/a
			30302	48.3	53.3	5.0	0.000	n/a
			30303	53.3	58.0	4.7	0.000	n/a
			30304	58.0	58.8	0.8	0.000	n/a
			0281	58.8	59.1	0.3	9.260	n/a
			30305	59.1	61.6	2.5	0.000	n/a
			30306	61.6	66.6	5.0	0.002	n/a
			30307	66.6	71.6	5.0	0.000	n/a
75.2	87.9	SYENITE (10)						
87.9	163.4	PYROCLASTIC CONGLOMERATE (2)						
			30308	91.0	96.0	5.0	0.002	n/a
			30309	96.0	101.0	5.0	0.000	n/a
			30310	133.7	138.7	5.0	0.002	n/a
			30311	138.7	141.2	2.5	0.005	n/a
			30312	141.2	143.7	2.5	0.002	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			30314	158.0	160.0	2.0	0.002	n/a
			30315	160.0	162.0	2.0	0.005	n/a
			30316	162.0	165.0	3.0	0.005	n/a
163.4	250.5	ANDESITE / DACITE (1)						
			30317	165.0	168.5	3.5	0.002	n/a
			30318	168.5	172.5	4.0	0.000	n/a
			30319	240.0	242.0	2.0	0.000	n/a
			30320	242.0	243.5	1.5	0.005	n/a
			30321	243.5	246.0	2.5	0.005	n/a
			30322	248.5	250.5	2.0	0.005	n/a
250.5	271.4	METADIORITE (8)						
271.4	450.0	RHYOLITE (+/- MASSIVE) (6)						
			30323	283.0	287.0	4.0	0.005	n/a
			30324	389.0	391.0	2.0	0.010	n/a
			30325	391.0	392.0	1.0	0.140	n/a
			30326	392.0	394.5	2.5	0.010	n/a
			30327	421.0	423.0	2.0	0.050	n/a

Coords: 588.0N 3017.0E

HOLE NO.: 86-40

Azimuth: 76.0

Mirado Project

Dip: -66.0

Elevation: 4955.0

Length: 450.0

Dip Tests

450.00 76.0 -67.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	49.0	OVERBURDEN (0)						
49.0	49.8	RHYOLITE (+/- MASSIVE) (6)						
49.8	66.5	INTERMEDIATE TUFF (4)						
			30268	49.8	51.6	1.8	0.002	n/a
			30269	51.6	56.0	4.4	0.000	n/a
			30270	56.0	59.5	3.5	0.000	n/a
			30271	59.5	62.0	2.5	0.002	0.002
			30272	62.0	66.5	4.5	0.002	n/a
66.5	84.0	PYROCLASTIC CONGLOMERATE (2)						
			30273	66.5	72.0	5.5	0.002	n/a
			30274	72.0	77.0	5.0	0.000	n/a
			30275	77.0	82.0	5.0	0.000	n/a
			30276	82.0	84.0	2.0	0.002	n/a
84.0	113.2	RHYOLITE (+/- MASSIVE) (6)						
			30277	84.0	87.0	3.0	0.002	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			30278	87.0	90.3	3.3	0.002	n/a
			30279	90.3	94.8	4.5	0.000	n/a
			30280	94.8	99.0	4.2	0.000	n/a
			30281	99.0	103.6	4.6	0.000	n/a
			30282	103.6	106.5	2.9	0.002	0.002
			30283	106.5	113.2	6.7	0.002	n/a
113.2	161.1	PYROCLASTIC CONGLOMERATE (2)						
			30284	113.2	117.0	3.8	0.002	n/a
			30285	117.0	122.0	5.0	0.000	n/a
			30286	122.0	127.0	5.0	0.005	n/a
			30287	127.0	132.0	5.0	0.010	n/a
			30288	132.0	137.0	5.0	0.005	n/a
			30289	137.0	142.0	5.0	0.005	n/a
			30290	142.0	147.0	5.0	0.005	n/a
			30291	147.0	152.0	5.0	0.002	n/a
			30292	152.0	157.0	5.0	0.002	n/a
			30293	157.0	161.1	4.1	0.010	n/a
161.1	234.5	RHYOLITE (+/- MASSIVE) (6)						
			30294	161.1	167.0	5.9	0.010	n/a
			30295	191.0	196.0	5.0	0.005	n/a
			30296	196.0	200.0	4.0	0.002	n/a
			30297	200.0	205.0	5.0	0.005	0.002
			30298	228.0	234.5	6.5	0.005	n/a
234.5	244.1	PYROCLASTIC CONGLOMERATE (2)						
			30299	234.5	239.0	4.5	0.002	n/a
			30299A	239.0	244.1	5.1	n/a	n/a
244.1	266.2	METADIORITE (8)						
			30300	244.1	249.0	4.9	0.005	n/a
			30328	263.0	266.2	3.2	0.002	n/a
266.2	269.4	PYROCLASTIC CONGLOMERATE (2)						
			30329	266.2	269.4	3.2	0.005	n/a

Golden Shield Resources Ltd.

Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
269.4	270.5	METADIORITE (8)	30330	269.4	270.5	1.1	0.010	n/a
270.5	274.2	PYROCLASTIC CONGLOMERATE (2)	30331	270.5	274.2	3.7	0.000	n/a
274.2	298.0	METADIORITE (8)	30332	274.2	280.0	5.8	0.000	n/a
			30333	292.0	298.0	6.0	0.000	n/a
298.0	302.1	PYROCLASTIC CONGLOMERATE (2)	30334	298.0	302.1	4.1	0.000	n/a
302.1	310.3	METADIORITE (8)	30335	302.1	306.0	3.9	0.000	n/a
			30336	306.0	310.3	4.3	0.000	n/a
310.3	342.5	FELSIC TUFF +/- LAPILLI WITH PYROCLASTS (3A/2)	30337	310.3	315.0	4.7	0.002	n/a
			30338	315.0	320.0	5.0	0.000	n/a
			30339	320.0	325.0	5.0	0.002	0.002
			30340	325.0	330.0	5.0	0.000	n/a
			30341	330.0	335.0	5.0	0.002	n/a
			30342	335.0	339.0	4.0	0.000	n/a
			30343	339.0	342.5	3.5	0.000	n/a
342.5	352.0	METADIORITE (8)						
352.0	389.0	RHYOLITE (+/- MASSIVE) (6)	30344	352.0	359.0	7.0	0.000	n/a
			30345	370.0	374.5	4.5	0.005	n/a
			30346	374.5	375.5	1.0	0.005	n/a

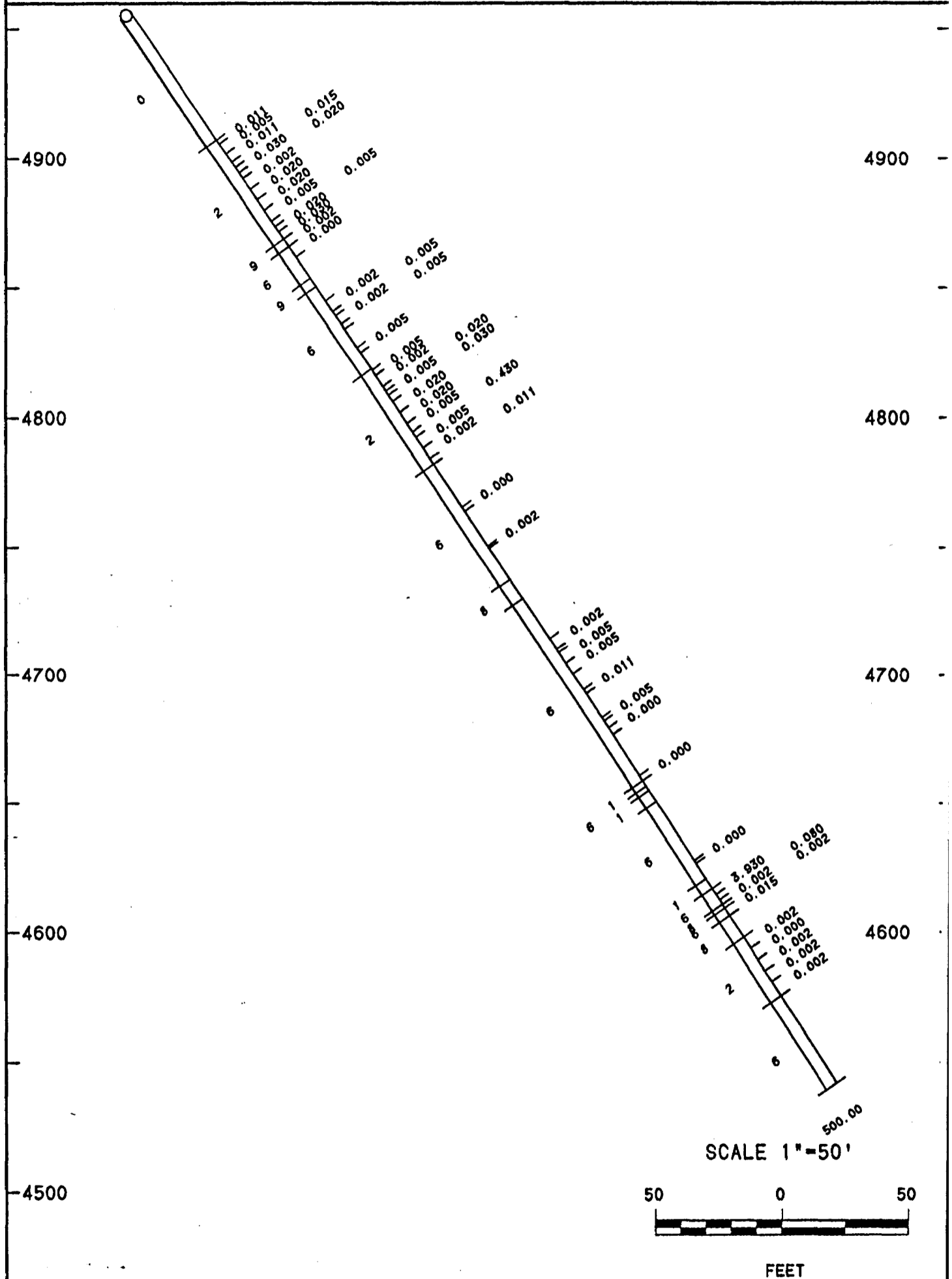
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			30347	375.5	380.0	4.5	0.002	n/a
			30348	380.0	386.0	6.0	0.002	n/a
			30349	386.0	387.4	1.4	0.040	0.035
			30350	387.4	389.0	1.6	0.000	n/a
389.0	416.0	PYROCLASTIC CONGLOMERATE (2)						
			30351	389.0	391.0	2.0	0.030	n/a
			30352	391.0	393.0	2.0	0.020	n/a
			30353	393.0	395.0	2.0	0.002	n/a
			30354	395.0	397.0	2.0	0.002	n/a
			30355	397.0	399.0	2.0	0.005	n/a
			30356	399.0	401.0	2.0	0.020	n/a
			30357	401.0	403.0	2.0	0.005	n/a
			30358	403.0	405.0	2.0	0.005	n/a
			30359	405.0	407.0	2.0	0.025	0.030
			30360	407.0	408.8	1.8	0.002	n/a
			30361	408.8	411.0	2.2	0.002	n/a
			30362	411.0	413.5	2.5	0.005	n/a
			30363	413.5	416.0	2.5	0.002	n/a
416.0	428.1	RHYOLITE (+/- MASSIVE) + FELSIC TUFF +/- LAPILLI (6/3A)						
			30364	416.0	419.0	3.0	0.002	n/a
			30365	419.0	428.1	9.1	0.002	n/a
428.1	440.0	METADIORITE/ANDESITE/DACITE (8/1)						
			30366	439.0	440.0	1.0	0.000	n/a
440.0	450.0	RHYOLITE (+/- MASSIVE) (6)						
			30367	440.0	450.0	10.0	0.005	n/a

86-41

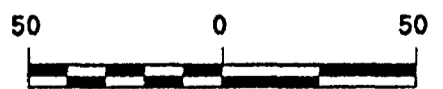
572.00N
2960.00E



PLAN VIEW



SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES
MIRADO PROJECT

SECTION VIEW
HOLE 86-41

E 2960
N 572

AZIMUTH 256
DIP -55

Scale 1" = 50'

Coords: 572.0N 2960.0E

HOLE NO.: 86-41

Azimuth: 76.0

Mirado Project

Dip: -55.0

Elevation: 4955.0

Length: 500.0

Dip Tests

500.00 76.0 -57.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	60.3	OVERBURDEN (0)						
60.3	107.0	PYROCLASTIC CONGLOMERATE (2)						
			30427	60.3	62.3	2.0	0.010	n/a
			30428	62.3	67.0	4.7	0.005	n/a
			30429	67.0	71.0	4.0	0.010	n/a
			30430	71.0	73.5	2.5	0.015	n/a
			30431	73.5	76.0	2.5	0.030	0.035
			30432	76.0	78.5	2.5	0.020	n/a
			30433	78.5	83.5	5.0	0.002	n/a
			30434	83.5	88.5	5.0	0.020	n/a
			30435	88.5	93.5	5.0	0.020	n/a
			30436	93.5	98.5	5.0	0.005	n/a
			30437	98.5	101.0	2.5	0.005	n/a
			30438	101.0	103.5	2.5	0.020	0.020
			30439	103.5	107.0	3.5	0.030	n/a
107.0	110.5	CHLORIC DYKE (9)						
			30440	107.0	110.5	3.5	0.002	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
110.5	125.6	RHYOLITE (+/- MASSIVE) (6)	30441	110.5	115.5	5.0	0.000	n/a
125.6	129.4	CHLORIC DYKE (9)						
129.4	168.0	RHYOLITE (+/- MASSIVE) (6)	30442	136.0	141.0	5.0	0.002	n/a
			30443	141.0	143.0	2.0	0.005	n/a
			30444	143.0	147.0	4.0	0.002	n/a
			30445	147.0	149.5	2.5	0.005	n/a
			30446	158.0	160.5	2.5	0.005	n/a
168.0	212.1	PYROCLASTIC CONGLOMERATE (2)	30447	168.5	171.0	2.5	0.005	n/a
			30448	171.0	176.0	5.0	0.002	n/a
			30449	176.0	178.2	2.2	0.020	0.020
			30450	178.2	180.2	2.0	0.005	n/a
			30451	180.2	183.2	3.0	0.030	n/a
			30452	183.2	188.2	5.0	0.020	n/a
			30453	188.2	193.2	5.0	0.020	n/a
			30454	193.2	197.0	3.8	0.005	n/a
			30455	197.0	199.5	2.5	0.430	0.330
			30456	199.5	204.5	5.0	0.005	n/a
			30457	204.5	209.5	5.0	0.002	n/a
			30458	209.5	212.1	2.6	0.010	n/a
212.1	266.0	RHYOLITE (+/- MASSIVE) (6)	30459	232.0	234.0	2.0	0.000	n/a
			30460	250.3	251.3	1.0	0.002	n/a
266.0	275.2	METADIORITE (8)						
275.2	360.5	RHYOLITE (+/- MASSIVE) (6)	30461	294.0	299.0	5.0	0.002	n/a
			30462	300.5	305.5	5.0	0.005	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			30463	305.5	310.5	5.0	0.005	n/a
			30464	318.0	320.0	2.0	0.010	n/a
			30465	331.2	332.8	1.6	0.005	n/a
			30466	336.0	339.2	3.2	0.000	n/a
			30467	358.0	360.5	2.5	0.000	n/a
360.5	363.0	ANDESITE / DACITE (1)						
363.0	365.0	RHYOLITE (+/- MASSIVE) (6)						
365.0	370.2	ANDESITE / DACITE (1)						
370.2	406.0	RHYOLITE (+/- MASSIVE) (6)						
			30468	397.6	398.9	1.3	0.000	n/a
406.0	410.5	ANDESITE / DACITE (1)						
410.5	418.0	RHYOLITE (+/- MASSIVE) (6)						
			30469	410.5	413.3	2.8	3.930	3.760
			30470	413.3	415.8	2.5	0.080	0.070
			30471	415.8	418.0	2.2	0.002	n/a
418.0	419.7	METADIORITE (8)						
			30472	418.0	419.7	1.7	0.002	n/a
419.7	423.2	RHYOLITE (+/- MASSIVE) (6)						
			30473	419.7	423.2	3.5	0.015	n/a
423.2	433.2	METADIORITE (8)						
433.2	460.0	PYROCLASTIC CONGLOMERATE (2)						

Golden Shield Resources Ltd.

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from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			30474	433.2	438.2	5.0	0.002	n/a
			30475	438.2	443.2	5.0	0.000	n/a
			30476	443.2	448.5	5.3	0.002	n/a
			30477	448.5	453.5	5.0	0.002	n/a
			30478	453.5	460.0	6.5	0.002	n/a

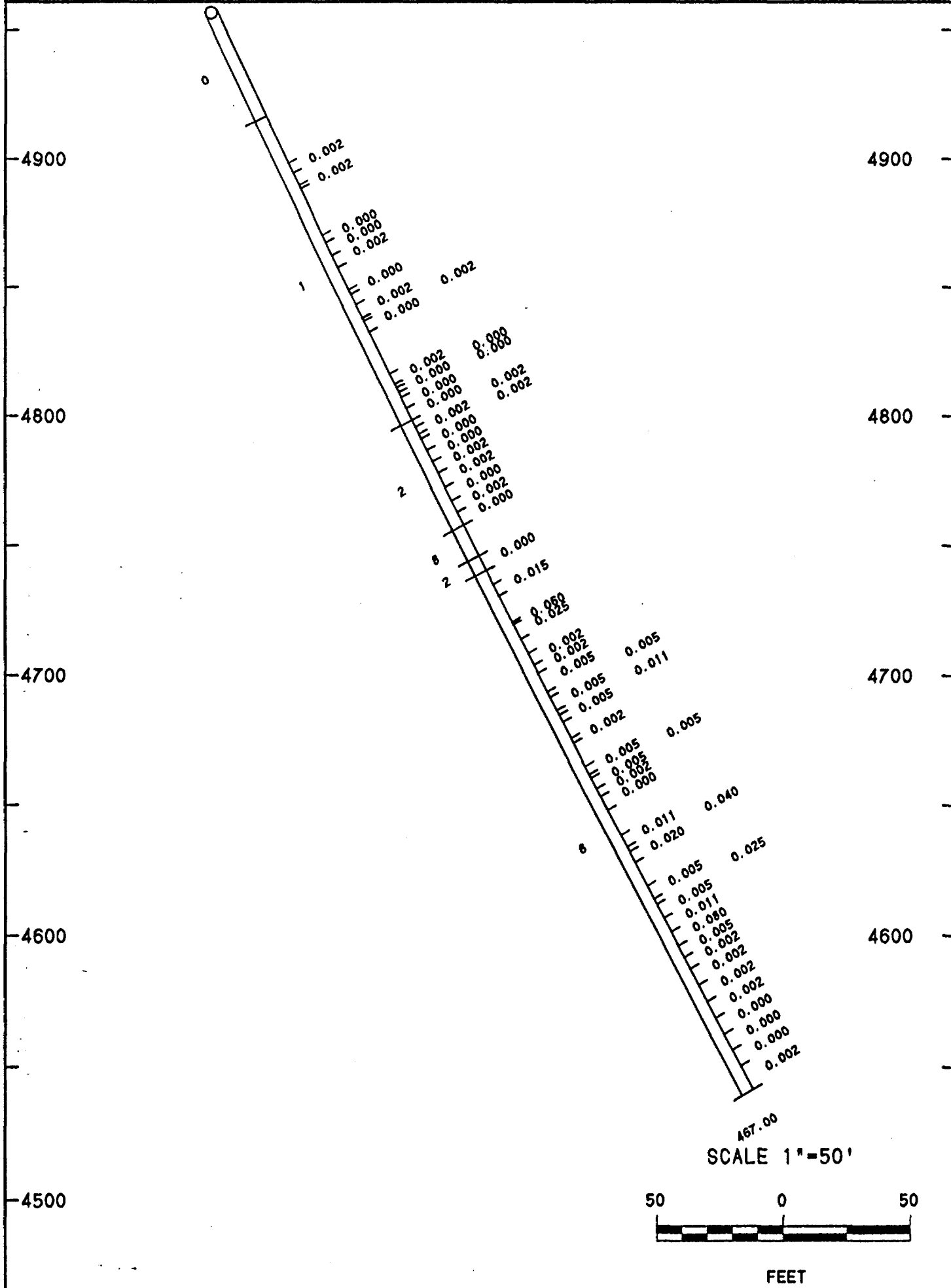
460.0 500.0 RHYOLITE (+/- MASSIVE) (6)

86-42

800.00N
3844.00E



PLAN VIEW



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-42	
E 3844 N 800	AZIMUTH 256 DIP -65
Scale 1" = 50'	

4400

Coords: 800.0N 3844.0E

HOLE NO.: 86-42

Azimuth: 256.0

Mirado Project

Dip: -65.0

Elevation: 4956.0

Length: 467.0

Dip Tests

467.00 256.0 -61.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	45.6	OVERBURDEN (0)						
45.6	177.1	ANDESITE / DACITE (1)						
			30368	65.8	70.1	4.3	0.002	n/a
			30369	75.5	77.0	1.5	0.002	n/a
			30370	96.8	100.0	3.2	0.000	n/a
			30371	100.0	105.6	5.6	0.000	n/a
			30372	105.6	111.0	5.4	0.002	n/a
			30373	120.5	122.5	2.0	0.000	n/a
			30374	127.0	133.0	6.0	0.002	n/a
			30375	133.0	134.3	1.3	0.002	n/a
			30376	134.3	139.0	4.7	0.000	n/a
			30377	157.0	161.5	4.5	0.002	n/a
			30378	161.5	163.1	1.6	0.000	n/a
			30379	163.1	165.1	2.0	0.000	n/a
			30380	165.1	167.3	2.2	0.000	n/a
			30381	167.3	172.0	4.7	0.000	n/a
			30382	172.0	177.1	5.1	0.000	n/a
177.1	222.7	PYROCLASTIC CONGLOMERATE (2)						
			30383	177.1	180.0	2.9	0.002	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			30384	180.0	183.0	3.0	0.002	0.002
			30385	183.0	185.0	2.0	0.002	n/a
			30386	185.0	190.0	5.0	0.000	n/a
			30387	190.0	195.0	5.0	0.000	n/a
			30388	195.0	200.0	5.0	0.002	n/a
			30389	200.0	206.0	6.0	0.002	n/a
			30390	206.0	212.0	6.0	0.000	n/a
			30391	212.0	217.0	5.0	0.002	n/a
			30392	217.0	222.7	5.7	0.000	n/a
222.7	235.7	METADIORITE (8)						
235.7	242.0	PYROCLASTIC CONGLOMERATE (2)						
			30393	235.7	242.0	6.3	0.000	n/a
242.0	467.0	RHYOLITE (+/- MASSIVE) (6)						
			30394	248.0	253.0	5.0	0.015	n/a
			30395	264.3	265.3	1.0	0.060	0.050
			30396	265.3	271.8	6.5	0.025	n/a
			30397	278.0	283.0	5.0	0.002	n/a
			30398	283.0	286.5	3.5	0.002	n/a
			30399	286.5	294.6	8.1	0.005	n/a
			30400	294.6	297.0	2.4	0.005	n/a
			30401	297.0	302.8	5.8	0.005	n/a
			30402	302.8	304.8	2.0	0.010	n/a
			30403	304.8	308.0	3.2	0.005	n/a
			30404	315.0	317.0	2.0	0.002	n/a
			30405	327.0	330.5	3.5	0.005	n/a
			30406	330.5	332.0	1.5	0.005	n/a
			30407	332.0	336.6	4.6	0.005	n/a
			30408	336.6	340.0	3.4	0.002	n/a
			30409	340.0	346.0	6.0	0.000	n/a
			30410	357.0	362.2	5.2	0.010	n/a
			30411	362.2	364.3	2.1	0.040	0.040
			30412	364.3	369.0	4.7	0.020	n/a
			30413	379.0	384.6	5.6	0.005	n/a
			30414	384.6	387.0	2.4	0.025	n/a
			30415	387.0	393.0	6.0	0.005	n/a

Golden Shield Resources Ltd.

Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			30416	393.0	399.0	6.0	0.010	n/a
			30417	399.0	405.0	6.0	0.080	0.110
			30418	405.0	410.0	5.0	0.005	n/a
			30419	410.0	415.0	5.0	0.002	n/a
			30420	415.0	422.0	7.0	0.002	n/a
			30421	422.0	429.0	7.0	0.002	n/a
			30422	429.0	436.0	7.0	0.002	n/a
			30423	436.0	443.0	7.0	0.000	n/a
			30424	443.0	450.0	7.0	0.000	n/a
			30425	450.0	457.0	7.0	0.000	n/a
			30426	457.0	467.0	10.0	0.002	n/a

Coords: 694.0N 3011.0E
 Azimuth: 76.0
 Dip: -55.0
 Elevation: 4954.0
 Length: 467.0

HOLE NO.: 86-43

Mirado Project

Dip Tests

467.00 76.0 -54.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	53.0	OVERBURDEN (0)						
53.0	110.0	RHYOLITE (+/- MASSIVE) (6)						
			101	53.0	62.0	9.0	0.000	n/a
			102	62.0	67.0	5.0	0.002	n/a
			103	67.0	72.0	5.0	0.000	n/a
			104	72.0	77.0	5.0	0.000	n/a
			105	77.0	82.0	5.0	0.000	n/a
			106	82.0	87.0	5.0	0.000	n/a
			107	87.0	92.0	5.0	0.000	n/a
			108	92.0	97.0	5.0	0.000	n/a
			109	97.0	102.0	5.0	0.002	0.002
			110	102.0	107.0	5.0	0.000	n/a
			111	107.0	110.0	3.0	0.002	n/a
110.0	129.0	RHYOLITE (+/- MASSIVE) (6)						
			112	110.0	113.0	3.0	0.000	n/a
			113	113.0	116.0	3.0	0.002	n/a
			114	116.0	119.0	3.0	0.000	n/a
			115	119.0	122.0	3.0	0.000	n/a
			116	122.0	125.0	3.0	0.020	0.025

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			117	125.0	129.0	4.0	0.002	n/a
129.0	174.0	RHYOLITE (+/- MASSIVE) (6)						
			118	129.0	134.0	5.0	0.002	n/a
			119	134.0	141.0	7.0	0.000	n/a
			120	141.0	148.0	7.0	0.000	n/a
			21685	148.0	155.0	7.0	0.000	n/a
			21686	155.0	162.0	7.0	0.000	n/a
			21687	162.0	168.0	6.0	0.000	n/a
			21688	168.0	174.0	6.0	0.002	n/a
174.0	178.0	ANDESITE / DACITE (1)						
			21689	174.0	178.0	4.0	0.002	n/a
178.0	192.3	RHYOLITE (+/- MASSIVE) (6)						
			21690	178.0	183.0	5.0	0.000	n/a
			21691	183.0	188.0	5.0	0.000	n/a
			21692	188.0	192.3	4.3	0.000	n/a
192.3	287.0	PYROCLASTIC CONGLOMERATE (2)						
			21693	192.3	195.0	2.7	n/a	n/a
			21694	195.0	197.0	2.0	0.000	n/a
			21695	197.0	199.0	2.0	0.000	n/a
			21696	199.0	201.0	2.0	0.000	n/a
			21697	201.0	202.6	1.6	0.000	n/a
			21698	202.6	206.0	3.4	0.000	n/a
			21699	206.0	210.0	4.0	0.000	n/a
			21700	210.0	214.0	4.0	0.002	0.002
			121	214.0	218.0	4.0	0.000	n/a
			122	218.0	222.0	4.0	0.000	n/a
			123	222.0	226.0	4.0	0.002	n/a
			124	226.0	229.0	3.0	0.000	n/a
			125	229.0	232.1	3.1	0.005	n/a
			126	232.1	235.0	2.9	0.005	n/a
			127	235.0	239.0	4.0	0.010	n/a
			128	239.0	243.0	4.0	0.002	n/a
			129	243.0	245.0	2.0	0.002	n/a

Golden Shield Resources Ltd.

Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			130	245.0	247.0	2.0	0.002	n/a
			131	247.0	249.0	2.0	0.010	0.010
			132	249.0	251.0	2.0	0.005	n/a
			143	269.3	272.0	2.7	0.002	n/a
			144	272.0	275.0	3.0	0.002	n/a
			145	275.0	278.0	3.0	0.020	n/a
			146	278.0	281.0	3.0	0.005	n/a
			147	281.0	284.0	3.0	0.005	n/a
			148	284.0	287.0	3.0	0.002	n/a
287.0	291.0	ANDESITE / DACITE (1)						
			149	287.0	291.0	4.0	0.000	n/a
291.0	292.2	LAMPROPHYRE (11)						
			150	291.0	292.2	1.2	0.000	n/a
292.2	338.8	PYROCLASTIC CONGLOMERATE (2)						
			151	292.2	296.0	3.8	0.000	n/a
			152	296.0	300.0	4.0	0.005	n/a
			153	300.0	304.0	4.0	0.002	n/a
			154	304.0	308.0	4.0	0.010	n/a
			155	308.0	310.8	2.8	0.075	0.085
			156	310.8	314.2	3.4	0.040	n/a
			157	314.2	317.0	2.8	0.500	0.500
			158	317.0	321.0	4.0	0.000	n/a
			159	321.0	325.0	4.0	0.005	n/a
			160	325.0	329.0	4.0	0.002	n/a
			161	329.0	334.0	5.0	0.000	n/a
			162	334.0	338.8	4.8	0.002	n/a
338.8	349.4	ANDESITE / DACITE (1)						
			163	338.8	344.2	5.4	0.000	n/a
			164	344.2	349.4	5.2	0.000	n/a
349.4	361.6	PYROCLASTIC CONGLOMERATE (2)						
			165	349.4	353.0	3.6	0.000	n/a

Golden Shield Resources Ltd.

Page: 4

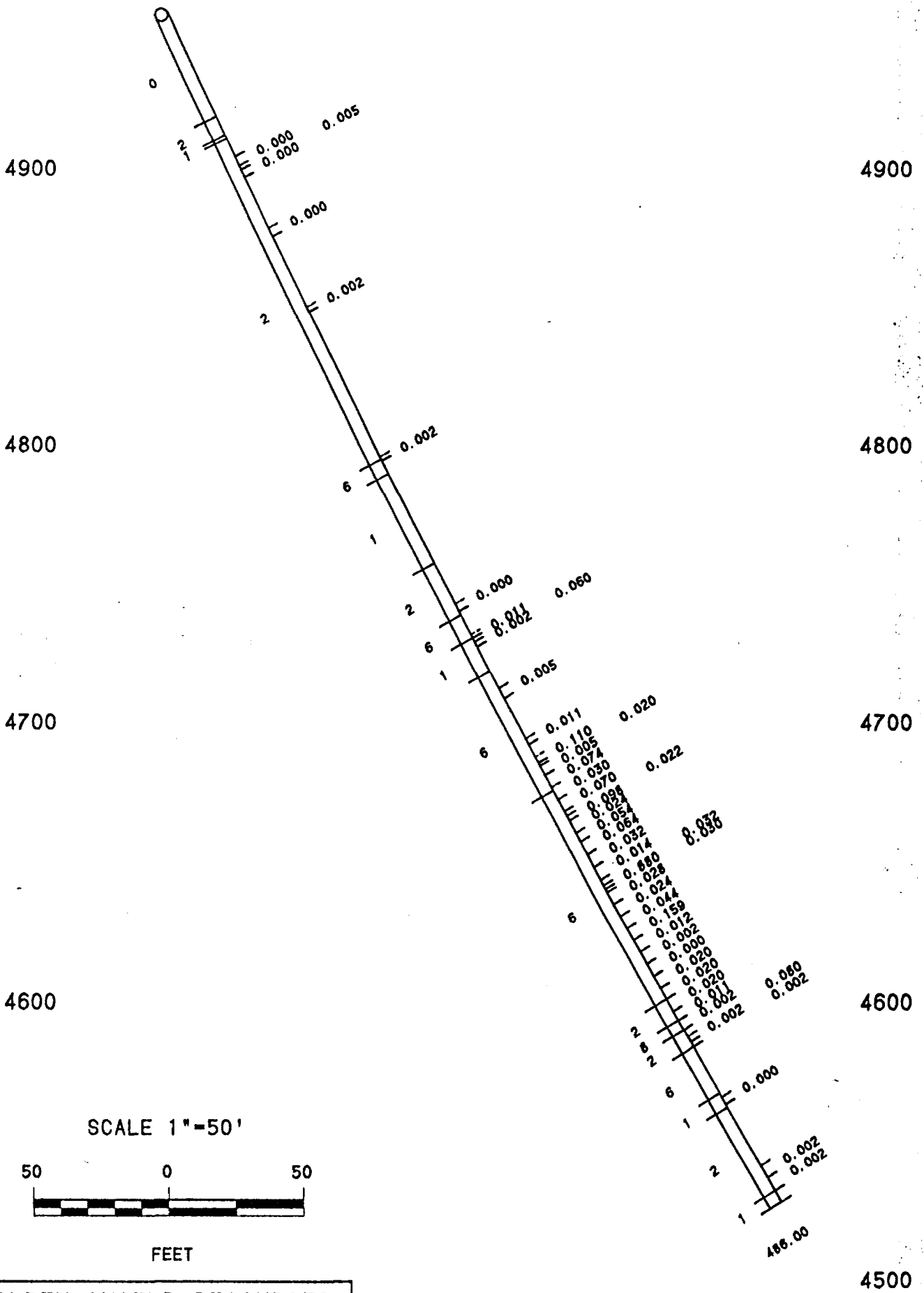
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			166	353.0	357.0	4.0	0.002	n/a
			167	357.0	361.6	4.6	0.000	n/a
361.6	428.0	RHYOLITE (+/- MASSIVE) (6)	168	361.6	367.0	5.4	0.000	n/a
			169	367.8	378.0	10.2	0.000	n/a
			170	390.0	398.0	8.0	0.002	0.002
			171	398.0	406.0	8.0	0.000	n/a
			172	416.0	420.0	4.0	0.002	n/a
428.0	436.0	ANDESITE / DACITE (1)	173	430.0	433.0	3.0	0.002	n/a
			174	433.0	436.0	3.0	0.000	n/a
436.0	467.0	RHYOLITE (+/- MASSIVE) (6)	175	436.0	441.0	5.0	0.002	n/a
			176	445.5	447.0	1.5	0.005	n/a

86-44

727.00N
3775.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE 86-44

E 3775
N 727

AZIMUTH 256
DIP -65

Scale 1" = 50'

Coords: 727.0N 3775.0E

HOLE NO.: 86-44

Azimuth: 256.0

Mirado Project

Dip: -65.0

Elevation: 4956.0

Length: 486.0

Dip Tests

. 486.00 256.0 -59.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	42.3	OVERBURDEN (0)						
42.3	49.7	PYROCLASTIC CONGLOMERATE (2)						
49.7	51.0	ANDESITE / DACITE (1)						
51.0	180.7	PYROCLASTIC CONGLOMERATE (2)	30479	58.2	61.8	3.6	0.000	n/a
			30480	61.8	63.4	1.6	0.005	n/a
			30481	63.4	66.4	3.0	0.000	n/a
			30482	87.0	90.6	3.6	0.000	n/a
			30483	119.0	121.0	2.0	0.002	n/a
			30484	179.5	181.2	1.7	0.002	n/a
180.7	186.5	RHYOLITE (+/- MASSIVE) (6)						
186.5	223.0	ANDESITE / DACITE (1)						

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
223.0	244.2	PYROCLASTIC CONGLOMERATE (2)	30485	239.6	242.6	3.0	0.000	n/a
244.2	253.5	RHYOLITE (+/- MASSIVE) (6)	30486	252.0	253.5	1.5	0.010	n/a
253.5	267.0	ANDESITE / DACITE (1)	30487	253.5	255.0	1.5	0.060	0.045
			30488	255.0	257.0	2.0	0.002	n/a
267.0	316.0	RHYOLITE (+/- MASSIVE) (6)	30489	274.0	278.2	4.2	0.005	n/a
			30490	294.6	297.0	2.4	0.010	n/a
			30491	302.0	304.5	2.5	0.110	n/a
			30492	304.5	305.7	1.2	0.020	n/a
			30493	305.7	309.6	3.9	0.005	n/a
316.0	401.5	RHYOLITE (+/- MASSIVE) (6)	30494	354.2	355.7	1.5	0.880	0.900
401.5	410.2	PYROCLASTIC CONGLOMERATE (2)	30495	401.5	406.5	5.0	0.020	n/a
			30496	406.5	410.2	3.7	0.010	n/a
410.2	414.2	METADIORITE (8)	30497	410.2	414.2	4.0	0.002	n/a
414.2	421.3	PYROCLASTIC CONGLOMERATE (2)	30498	414.2	417.0	2.8	0.080	n/a
			30499	417.0	419.3	2.3	0.002	n/a
			30500	419.3	421.3	2.0	0.002	n/a

Golden Shield Resources Ltd.

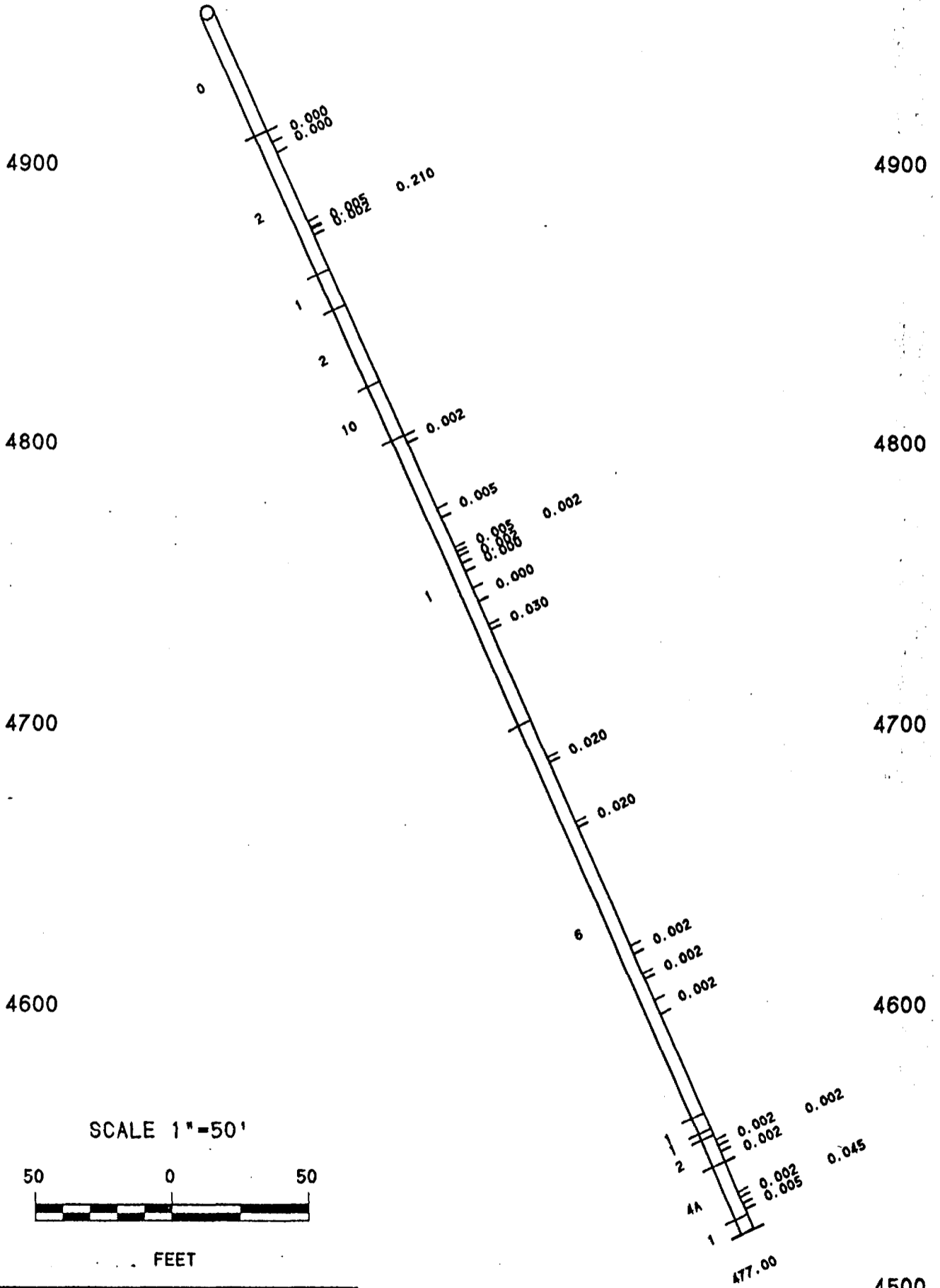
Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
421.3	440.6	RHYOLITE (+/- MASSIVE) (6)						
440.6	446.5	ANDESITE / DACITE (1)	7001	442.2	445.2	3.0	0.000	n/a
446.5	481.4	PYROCLASTIC CONGLOMERATE (2)	7002	471.0	476.0	5.0	0.002	n/a
			7003	476.0	481.4	5.4	0.002	n/a
481.4	486.0	ANDESITE / DACITE (1)						

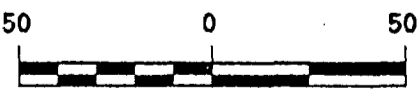
86-45

681.00N
3789.00E

PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-45	
E 3789	AZIMUTH 256
N 681	DIP -65
Scale 1" = 50'	

Coords: 681.0N 3789.0E
 Azimuth: 256.0
 Dip: -65.0
 Elevation: 4954.0
 Length: 477.0

HOLE NO.: 86-45

Mirado Project

Dip Tests

477.00 256.0 -66.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	47.6	OVERBURDEN (0)						
47.6	102.0	PYROCLASTIC CONGLOMERATE (2)						
			7004	47.6	52.0	4.4	0.000	n/a
			7005	52.0	56.0	4.0	0.000	n/a
			7006	83.2	85.7	2.5	0.005	n/a
			7007	85.7	86.2	0.5	0.210	0.170
			7008	86.2	88.5	2.3	0.002	n/a
102.0	116.0	ANDESITE / DACITE (1)						
116.0	146.0	PYROCLASTIC CONGLOMERATE (2)						
146.0	167.5	SYENITE (10)						
167.5	279.0	ANDESITE / DACITE (1)						
			7009	167.6	170.4	2.8	0.002	n/a
			7010	196.2	199.8	3.6	0.005	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7011	211.5	213.3	1.8	0.005	n/a
			7012	213.3	215.0	1.7	0.002	n/a
			7013	215.0	217.8	2.8	0.002	n/a
			7014	217.8	221.0	3.2	0.000	n/a
			7015	227.5	232.5	5.0	0.000	n/a
			7016	241.5	243.5	2.0	0.030	0.020
279.0	432.3	RHYOLITE (+/- MASSIVE) (6)	7017	293.3	295.3	2.0	0.020	n/a
			7018	318.5	320.5	2.0	0.020	n/a
			7019	367.0	370.0	3.0	0.002	n/a
			7020	377.6	379.6	2.0	0.002	n/a
			7021	388.0	393.5	5.5	0.002	n/a
432.3	438.3	ANDESITE / DACITE (1)						
438.3	440.7	ANDESITE / DACITE (1)						
440.7	451.0	PYROCLASTIC CONGLOMERATE (2)	7022	442.5	444.7	2.2	0.002	n/a
			7023	444.7	447.0	2.3	0.002	n/a
			7024	447.0	451.0	4.0	0.002	n/a
451.0	471.3	INTERMEDIATE TUFF +/- LAPILLI (4A)	7025	462.6	464.6	2.0	0.002	n/a
			7026	464.6	467.0	2.4	0.045	n/a
			7027	467.0	469.3	2.3	0.005	n/a
471.3	477.0	ANDESITE / DACITE (1)						

Coords: 635.0N 3796.0E

HOLE NO.: 86-46

Azimuth: 256.0

Mirado Project

Dip: -65.0

Elevation: 4954.0

Length: 507.0

Dip Tests

507.00 256.0 -62.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	44.0	OVERBURDEN (0)						
44.0	67.0	RHYOLITE (+/- MASSIVE) (6)						
67.0	90.0	RHYOLITE (+/- MASSIVE) / ANDESITE / DACITE (6/1)						
90.0	91.8	METADIORITE (8)						
91.8	100.8	METADIORITE (8)	7028	91.8	94.5	2.7	0.000	n/a
100.8	106.1	RHYOLITE (+/- MASSIVE) (6)	7029	100.8	106.1	5.3	0.002	n/a
106.1	120.6	ANDESITE / DACITE (1)	7030	106.1	109.0	2.9	0.002	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
120.6	131.7	ANDESITE / DACITE (1)	7031	130.6	131.7	1.1	0.000	n/a
131.7	137.8	RHYOLITE (+/- MASSIVE) (6)	7032	131.7	137.8	6.1	0.000	n/a
137.8	140.2	METADIORITE (8)	7033	137.8	140.2	2.4	0.000	n/a
140.2	230.5	PYROCLASTIC CONGLOMERATE (2)	7034	140.2	146.0	5.8	0.000	n/a
			7035	146.0	152.0	6.0	0.002	n/a
			7036	152.0	155.5	3.5	0.002	n/a
			7037	155.5	157.0	1.5	0.002	0.002
			7038	157.0	161.0	4.0	0.002	n/a
			7039	161.0	167.0	6.0	0.000	n/a
			7040	167.0	173.0	6.0	0.000	n/a
			7041	173.0	179.0	6.0	0.000	n/a
			7042	179.0	185.0	6.0	0.000	n/a
			7043	185.0	191.0	6.0	0.000	n/a
			7044	191.0	196.0	5.0	0.010	n/a
			7045	196.0	199.0	3.0	0.195	0.165
			7046	199.0	204.0	5.0	0.000	n/a
			7047	204.0	209.0	5.0	0.002	n/a
			7048	209.0	214.0	5.0	0.002	n/a
			7049	214.0	219.0	5.0	0.000	n/a
			7050	219.0	224.0	5.0	0.002	n/a
			7051	224.0	227.0	3.0	0.000	n/a
			7052	227.0	230.5	3.5	0.000	n/a
230.5	231.5	LAMPROPHYRE (11)	7053	230.5	231.5	1.0	0.002	n/a
231.5	244.8	PYROCLASTIC CONGLOMERATE (2)	7054	231.5	234.0	2.5	0.050	n/a

Golden Shield Resources Ltd.

Page: 3

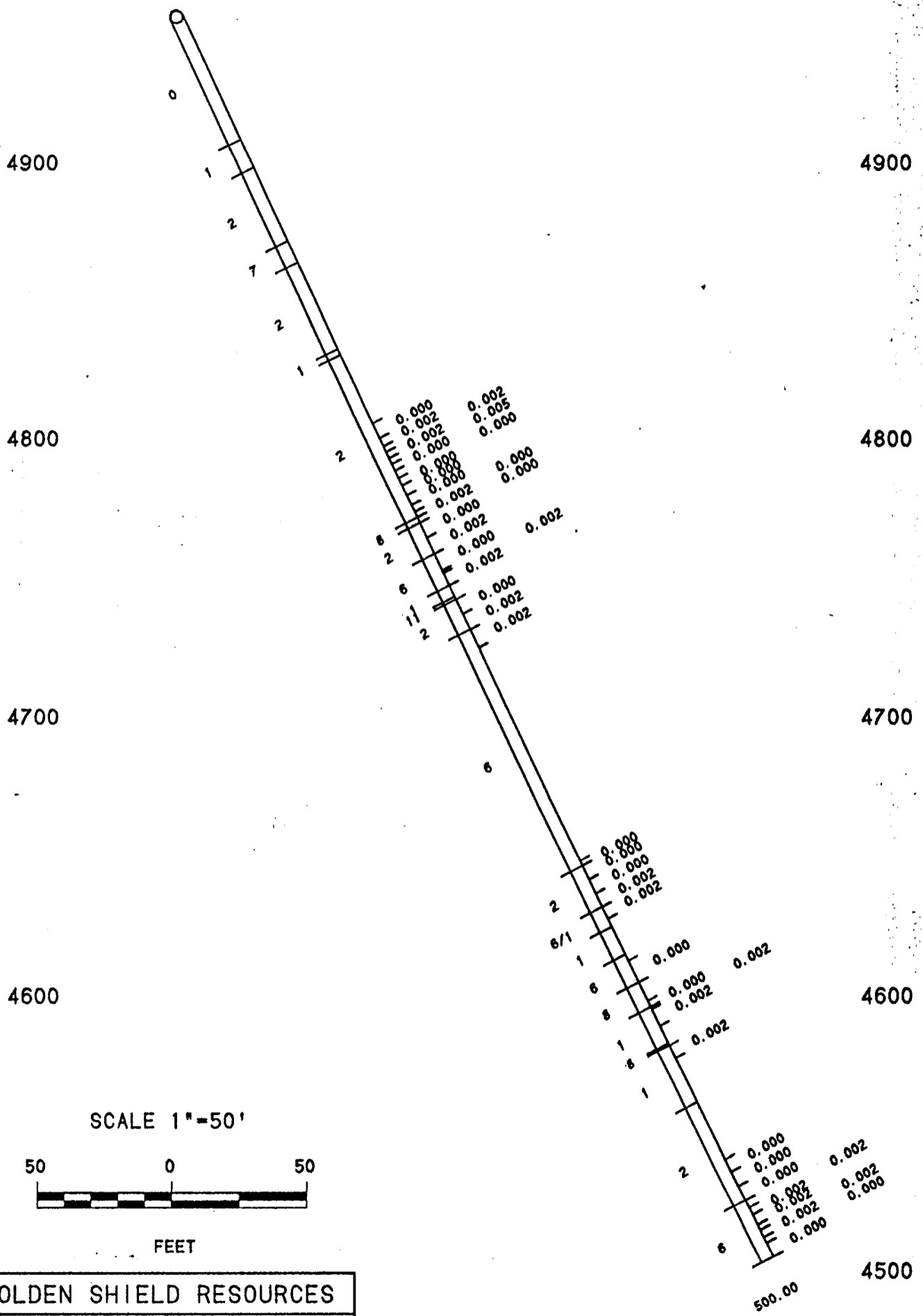
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7055	234.0	236.0	2.0	0.050	0.050
			7056	236.0	238.5	2.5	0.005	n/a
			7057	238.5	241.0	2.5	0.002	n/a
			7058	241.0	244.8	3.8	0.002	n/a
244.8	368.4	RHYOLITE (+/- MASSIVE) (6)						
			7059	244.8	250.0	5.2	0.000	n/a
			7060	256.8	260.2	3.4	0.002	n/a
			7061	264.5	269.6	5.1	0.002	n/a
			7062	280.7	283.0	2.3	0.000	n/a
			7063	314.9	316.2	1.3	0.002	n/a
			7064	316.2	322.0	5.8	0.005	n/a
			7065	322.0	324.8	2.8	0.005	n/a
			7066	324.8	325.9	1.1	0.185	0.180
			7067	325.9	328.0	2.1	0.005	n/a
			7068	363.0	368.4	5.4	0.002	n/a
368.4	378.8	ANDESITE / DACITE (1)						
			7069	368.4	373.5	5.1	0.010	n/a
			7070	373.5	378.8	5.3	0.015	n/a
378.8	426.5	RHYOLITE (+/- MASSIVE) (6)						
426.5	457.0	ANDESITE / DACITE (1)						
457.0	507.0	RHYOLITE (+/- MASSIVE) (6)						

86-47

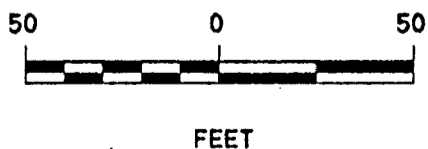
585.00N
3808.00E



PLAN VIEW



SCALE 1"=50'



GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE 86-47

E 3808
N 585

AZIMUTH 256
DIP -65

Scale 1" = 50'

Coords: 585.0N 3808.0E
 Azimuth: 256.0
 Dip: -65.0
 Elevation: 4954.0
 Length: 500.0

HOLE NO.: 86-47

Mirado Project

Dip Tests

500.00 256.0 -63.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
	455.0	460.0				0.002		
0.0	51.0	OVERBURDEN (0)						
51.0	62.4	ANDESITE / DACITE (1)						
62.4	91.8	PYROCLASTIC CONGLOMERATE (2)						
91.8	100.4	QUARTZ-FELDSPAR PORPHYRY (7)						
100.4	135.1	PYROCLASTIC CONGLOMERATE (2)						
135.1	137.5	ANDESITE / DACITE (1)						
137.5	203.1	PYROCLASTIC CONGLOMERATE (2)						
			177	165.0	171.0	6.0	0.000	n/a
			178	171.0	174.3	3.3	0.002	n/a
			179	174.3	176.5	2.2	0.002	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			180	176.5	179.0	2.5	0.002	n/a
			181	179.0	181.3	2.3	0.005	0.005
			182	181.3	184.0	2.7	0.000	n/a
			183	184.0	187.0	3.0	0.000	n/a
			184	187.0	190.0	3.0	0.000	n/a
			185	190.0	194.0	4.0	0.000	n/a
			186	194.0	198.0	4.0	0.000	n/a
			187	198.0	200.8	2.8	0.000	n/a
			188	200.8	203.0	2.2	0.002	n/a
203.1	205.2	METADIORITE (8)						
			189	203.1	205.2	2.1	0.000	n/a
205.2	217.4	PYROCLASTIC CONGLOMERATE (2)						
			190	205.2	211.0	5.8	0.000	n/a
			191	211.0	217.4	6.4	0.002	n/a
217.4	230.0	RHYOLITE (+/- MASSIVE) (6)						
			192	217.4	224.0	6.6	0.000	n/a
			193	224.0	225.0	1.0	0.002	n/a
			194	225.0	230.0	5.0	0.002	n/a
230.0	234.5	ANDESITE / DACITE (1)						
234.5	235.6	LAMPROPHYRE (11)						
235.6	247.7	PYROCLASTIC CONGLOMERATE (2)						
			195	235.6	241.5	5.9	0.000	n/a
			196	241.5	247.7	6.2	0.002	n/a
247.7	342.0	RHYOLITE (+/- MASSIVE) (6)						
			197	247.7	255.0	7.3	0.002	n/a
			198	340.0	342.0	2.0	0.000	n/a

Golden Shield Resources Ltd.

Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
342.0	358.3	PYROCLASTIC CONGLOMERATE (2)	199	342.0	347.5	5.5	0.000	n/a
			200	347.5	353.0	5.5	0.000	n/a
			5101	353.0	358.3	5.3	0.002	n/a
358.3	366.3	RHYOLITE (+/- MASSIVE) / ANDESITE / DACITE (6/1)	5102	358.3	363.0	4.7	0.002	n/a
366.3	377.5	ANDESITE / DACITE (1)						
377.5	388.6	RHYOLITE (+/- MASSIVE) (6)	5103	380.0	388.6	8.6	0.000	n/a
388.6	398.4	METADIORITE (8)	5104	396.0	398.4	2.4	0.000	n/a
398.4	413.0	ANDESITE / DACITE (1)	5105	398.4	399.3	0.9	0.002	n/a
			5106	399.3	406.0	6.7	0.002	n/a
413.0	413.8	METADIORITE (8)						
413.8	437.0	ANDESITE / DACITE (1)	5107	413.8	419.0	5.2	0.002	n/a
437.0	477.0	PYROCLASTIC CONGLOMERATE (2)	5109	460.0	465.0	5.0	0.000	n/a
			5110	465.0	471.0	6.0	0.000	n/a
			5111	471.0	477.0	6.0	0.000	n/a
477.0	500.0	RHYOLITE (+/- MASSIVE) (6)						

Golden Shield Resources Ltd.

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from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			5112	477.0	480.0	3.0	0.002	n/a
			5113	480.0	483.0	3.0	0.002	n/a
			5114	483.0	487.0	4.0	0.002	n/a
			5115	487.0	489.1	2.1	0.002	n/a
			5116	489.1	492.0	2.9	0.002	n/a
			5117	492.0	494.3	2.3	0.000	n/a
			5118	494.3	500.0	5.7	0.000	n/a

Coords: 517.0N 3150.0E

HOLE NO.: 86-48

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4954.0

Length: 301.0

Rip Tests

301.00 76.0 -45.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	77.0	OVERRIDEN (0)						
77.0	82.0	ANDESITE / DACITE (1)						
82.0	94.0	QUARTZ-FELDSPAR PORPHYRY (7)						
94.0	107.5	ANDESITE / DACITE (1)						
107.5	158.5	QUARTZ-FELDSPAR PORPHYRY (7)						
158.5	185.5	RHYOLITE (+/- MASSIVE) (6)	7083	170.2	171.2	1.0	0.000	n/s
			7084	171.2	171.8	0.6	0.010	n/s
			7085	171.8	173.6	1.8	0.002	n/s
185.5	189.8	METADIORITE (8)						

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
189.8	239.8	RHYOLITE (+/- MASSIVE) (6)	7086	206.0	211.0	5.0	0.002	n/a
			7087	211.0	214.0	3.0	0.002	n/a
			7088	234.0	237.0	3.0	0.030	n/a
			7089	237.0	239.8	2.8	0.040	n/a
239.8	249.8	ANDESITE / DACITE (1)						
249.8	258.5	RHYOLITE (+/- MASSIVE) (6)	7090	249.8	253.5	3.7	0.025	n/a
			7091	253.5	258.5	5.0	0.055	0.075
258.5	261.3	ANDESITE / DACITE (1)						
261.3	266.4	QUARTZ-FELDSPAR PORPHYRY (7)						
266.4	283.0	ANDESITE / DACITE (1)						
283.0	295.4	RHYOLITE (+/- MASSIVE) (6)	7092	284.3	287.3	3.0	0.002	n/a
295.4	301.0	ANDESITE / DACITE (1)						

Coords: 846.0N 3196.0E
 Azimuth: 76.0
 Dip: -50.0
 Elevation: 4957.0
 Length: 307.0

Mirado Project

Dip Tests

307.00 76.0 -52.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	47.0	OVERBURDEN (0)						
47.0	102.0	PYROCLASTIC CONGLOMERATE (2)	7093	47.0	52.0	5.0	0.000	n/a
			7094	52.0	54.5	2.5	0.002	n/a
			7095	54.5	57.0	2.5	0.002	n/a
			7096	57.0	62.0	5.0	0.002	n/a
			7097	62.0	66.5	4.5	0.002	n/a
			7098	66.5	67.5	1.0	0.002	n/a
			7099	67.5	70.7	3.2	0.005	0.005
			7100	70.7	74.0	3.3	0.002	n/a
			7101	79.2	82.0	2.8	n/a	n/a
			7102	82.0	84.5	2.5	0.002	n/a
			7103	84.5	87.0	2.5	0.005	n/a
			7104	87.0	92.0	5.0	0.030	n/a
102.0	127.0	METADIORITE (8)						
127.0	130.6	PYROCLASTIC CONGLOMERATE (2)	7105	127.0	130.6	3.6	0.025	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
130.6	135.8	SYENITE (10)						
135.8	179.5	PYROCLASTIC CONGLOMERATE (2)						
			7106	135.8	140.8	5.0	0.115	n/a
			7107	140.8	143.8	3.0	0.145	0.120
			7108	143.8	147.0	3.2	0.002	n/a
			7109	177.0	179.5	2.5	0.002	n/a
179.5	190.8	LAMPROPHYRE (11)						
190.8	206.0	PYROCLASTIC CONGLOMERATE (2)						
			7110	190.8	193.3	2.5	0.002	n/a
			7111	193.3	197.0	3.7	0.002	n/a
			7112	197.0	200.0	3.0	0.002	n/a
			7113	200.0	205.0	5.0	0.002	n/a
			7114	205.0	207.0	2.0	0.000	n/a
206.0	225.5	QUARTZ-FELDSPAR PORPHYRY (7)						
			7115	215.0	220.0	5.0	0.002	n/a
			7116	220.0	225.5	5.5	0.005	0.005
225.5	291.3	PYROCLASTIC CONGLOMERATE (2)						
			7117	225.5	228.5	3.0	0.002	n/a
			7118	228.5	233.5	5.0	0.002	n/a
			7119	233.5	238.5	5.0	0.002	n/a
			7120	238.5	243.5	5.0	0.002	n/a
			7121	243.5	249.0	5.5	0.002	n/a
			7122	250.0	255.0	5.0	0.002	n/a
			7123	255.0	260.0	5.0	0.005	0.002
			7124	260.0	265.0	5.0	0.002	n/a
			7125	265.0	270.0	5.0	0.005	n/a
			7126	270.0	274.0	4.0	0.005	n/a
			7127	274.0	279.0	5.0	0.002	n/a
			7128	279.0	281.7	2.7	0.002	n/a

Golden Shield Resources Ltd.

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from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7129	281.7	285.5	3.8	0.005	n/a
			7130	285.5	288.0	2.5	0.000	n/a
			7131	288.0	291.3	3.3	0.002	n/a
291.3	307.0	RHYDLITE (+/- MASSIVE) (6)						
			7132	291.3	296.0	4.7	0.005	0.010
			7133	296.0	301.5	5.5	0.000	n/a
			7134	301.5	305.0	3.5	0.002	n/a
			7135	305.0	307.0	2.0	0.002	n/a

Coords: 940.0N 3139.0E

HOLE NO.: 86-50

Azimuth: 76.0

Mirado Project

Dip: -55.0

Elevation: 4957.0

Length: 301.0

Dip Tests

301.00 76.0 -52.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au az	Check az
0.0	43.0	OVERBURDEN (0)						
43.0	108.0	PYROCLASTIC CONGLOMERATE (2)						
			7136	43.0	48.0	5.0	0.002	n/a
			7137	48.0	53.0	5.0	0.002	n/a
			7138	53.0	58.0	5.0	0.002	n/a
			7139	58.0	63.0	5.0	0.002	n/a
			7140	63.0	67.0	4.0	0.005	n/a
			7141	67.0	69.0	2.0	0.065	0.060
			7142	69.0	73.0	4.0	0.002	n/a
			7143	73.0	77.0	4.0	0.030	n/a
			7144	77.0	82.0	5.0	0.010	n/a
			7145	82.0	87.0	5.0	0.002	n/a
			7146	87.0	92.0	5.0	0.005	n/a
			7147	92.0	97.0	5.0	0.005	n/a
			7148	97.0	102.5	5.5	0.002	n/a
			7149	102.5	108.0	5.5	0.002	n/a
108.0	113.5	ANDESITE / DACITE / METADIORITE (1/8)						
			7150	108.0	113.5	5.5	0.000	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
113.5	175.1	PYROCLASTIC CONGLOMERATE (2)						
			7151	113.5	118.0	4.5	0.005	n/a
			7152	118.0	122.0	4.0	0.005	n/a
			7153	122.0	126.0	4.0	0.015	0.020
			7154	126.0	130.0	4.0	0.010	n/a
			7155	130.0	134.0	4.0	0.000	n/a
			7156	134.0	138.0	4.0	0.002	n/a
			7157	138.0	142.0	4.0	0.002	n/a
			7158	142.0	146.0	4.0	0.002	n/a
			7159	146.0	150.0	4.0	0.002	n/a
			7160	150.0	154.0	4.0	0.005	n/a
			7161	154.0	158.0	4.0	0.005	n/a
			7162	158.0	162.0	4.0	0.000	n/a
			7163	162.0	165.0	3.0	0.002	n/a
			7164	165.0	167.7	2.7	0.000	n/a
			7165	167.7	170.0	2.3	0.002	n/a
			7166	170.0	172.5	2.5	0.002	n/a
			7167	172.5	175.1	2.6	0.010	0.010
175.1	191.9	ANDESITE / DACITE / METADIORITE (1/8)						
			7168	175.1	178.0	2.9	0.002	n/a
			7169	187.0	191.9	4.9	0.002	n/a
191.9	241.2	PYROCLASTIC CONGLOMERATE (2)						
			7170	191.9	194.5	2.6	0.002	n/a
			7171	194.5	197.1	2.6	0.002	n/a
			7172	197.1	200.5	3.4	0.005	0.005
			7173	200.5	204.0	3.5	0.000	n/a
			7174	204.0	209.0	5.0	0.002	n/a
			7175	209.0	211.0	2.0	0.010	n/a
			7176	211.0	216.0	5.0	0.005	n/a
			7177	222.0	227.0	5.0	0.010	n/a
			7178	227.0	232.0	5.0	0.002	n/a
			7179	232.0	237.0	5.0	0.005	n/a
			7180	237.0	241.2	4.2	0.005	n/a
241.2	245.5	ANDESITE / DACITE (1)						

Golden Shield Resources Ltd.

Page: 3

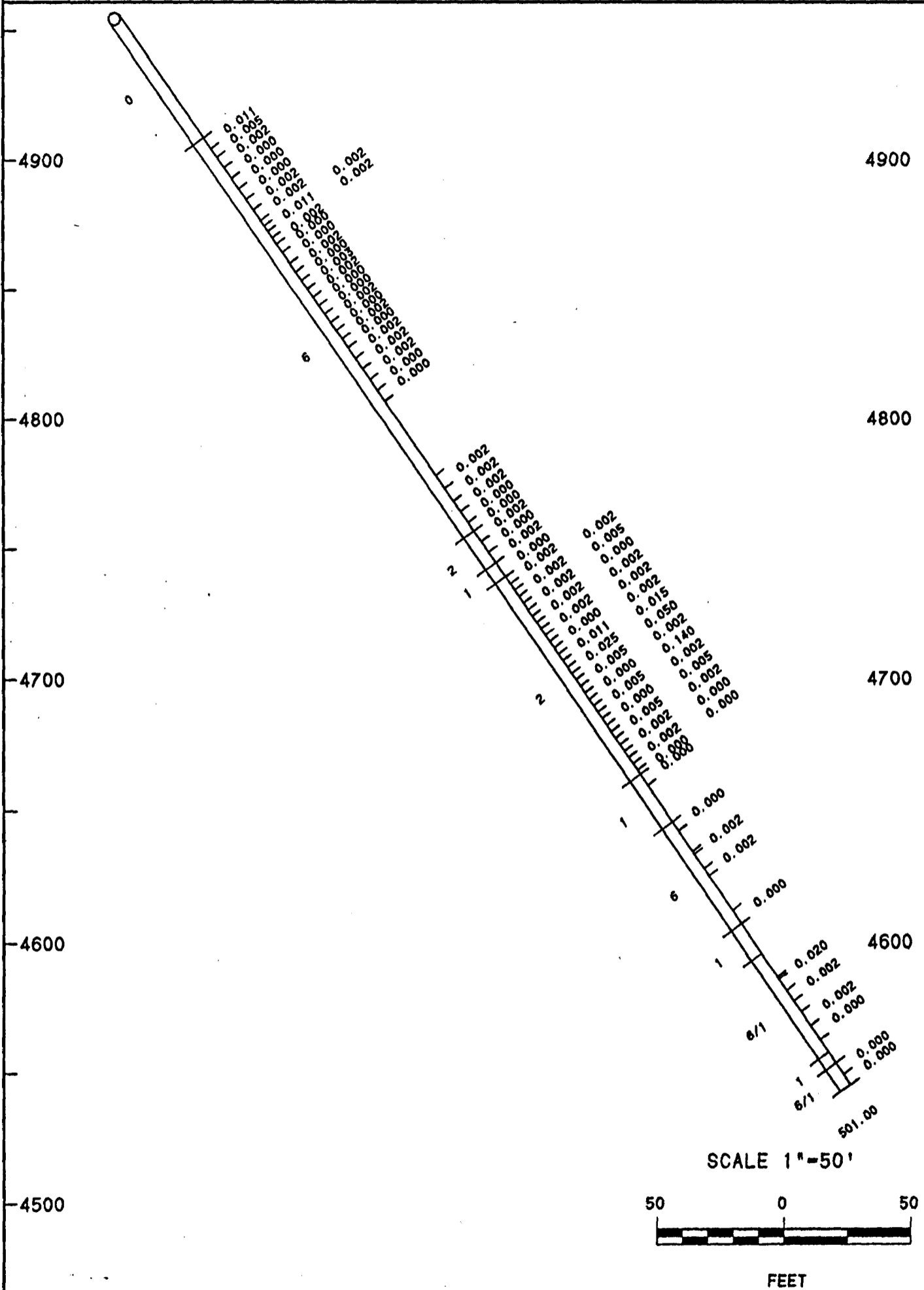
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
245.5	246.7	LAMPROPHYRE (11)	7181	245.5	246.7	1.2	0.002	n/a
246.7	301.0	PYROCLASTIC CONGLOMERATE (2)	7182	246.7	252.0	5.3	0.005	n/a
			7183	252.0	257.0	5.0	0.005	0.010
			7184	257.0	260.5	3.5	0.010	n/a
			7185	260.5	263.0	2.5	0.010	n/a
			7186	263.0	265.5	2.5	0.005	n/a
			7187	265.5	268.0	2.5	0.002	n/a
			7188	268.0	270.5	2.5	0.000	n/a
			7189	270.5	273.0	2.5	0.030	n/a
			7190	273.0	275.5	2.5	0.030	n/a
			7191	275.5	278.0	2.5	0.025	n/a
			7192	278.0	280.5	2.5	0.020	n/a
			7193	280.5	283.0	2.5	0.025	0.035
			7194	283.0	285.5	2.5	0.010	n/a
			7195	285.5	288.0	2.5	0.005	n/a
			7196	288.0	290.5	2.5	0.005	n/a
			7197	290.5	293.0	2.5	0.025	n/a
			7198	293.0	295.5	2.5	0.020	n/a
			7199	295.5	298.0	2.5	0.015	n/a
			7200	298.0	301.0	3.0	0.010	n/a

86-51

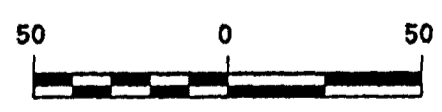
679.00N
2948.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCE	
MIRADO PROJECT	
SECTION VIEW HOLE 86-51	
E 2948 N 679	AZIMUTH 76 DIP -55
Scale 1' - 50'	

4400

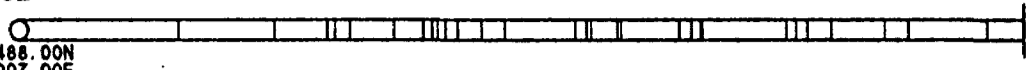
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			5138	137.0	141.0	4.0	0.000	n/a
			5139	141.0	145.0	4.0	0.002	n/a
			5140	145.0	149.0	4.0	0.000	n/a
			5141	149.0	153.0	4.0	0.002	n/a
			5142	153.0	157.0	4.0	0.000	n/a
			5143	157.0	162.0	5.0	0.002	n/a
			5144	162.0	167.0	5.0	0.002	n/a
			5145	167.0	172.0	5.0	0.002	n/a
			5146	172.0	177.0	5.0	0.000	n/a
			5147	177.0	182.0	5.0	0.000	n/a
			5148	217.0	223.0	6.0	0.002	n/a
			5149	223.0	229.0	6.0	0.002	n/a
			5150	229.0	234.0	5.0	0.002	n/a
			5151	234.0	239.0	5.0	0.000	n/a
			5152	239.0	243.1	4.1	0.000	n/a
243.1	258.1	PYROCLASTIC CONGLOMERATE (2)						
			5153	243.1	248.1	5.0	0.002	n/a
			5154	248.1	253.1	5.0	0.000	n/a
			5155	253.1	258.1	5.0	0.002	n/a
258.1	264.7	ANDESITE / DACITE (1)						
			5156	258.1	264.7	6.6	0.000	n/a
264.7	357.0	PYROCLASTIC CONGLOMERATE (2)						
			5157	264.7	268.0	3.3	0.002	n/a
			5158	268.0	271.0	3.0	0.002	n/a
			5159	271.0	274.0	3.0	0.002	n/a
			5160	274.0	277.0	3.0	0.005	n/a
			5161	277.0	280.0	3.0	0.002	n/a
			5162	280.0	283.0	3.0	0.000	n/a
			5163	283.0	286.0	3.0	0.002	n/a
			5164	286.0	289.0	3.0	0.002	n/a
			5165	289.0	292.0	3.0	0.002	n/a
			5166	292.0	295.0	3.0	0.002	n/a
			5167	295.0	298.0	3.0	0.000	n/a
			5168	298.0	301.0	3.0	0.002	n/a
			5169	301.0	304.0	3.0	0.010	n/a

Golden Shield Resources Ltd.

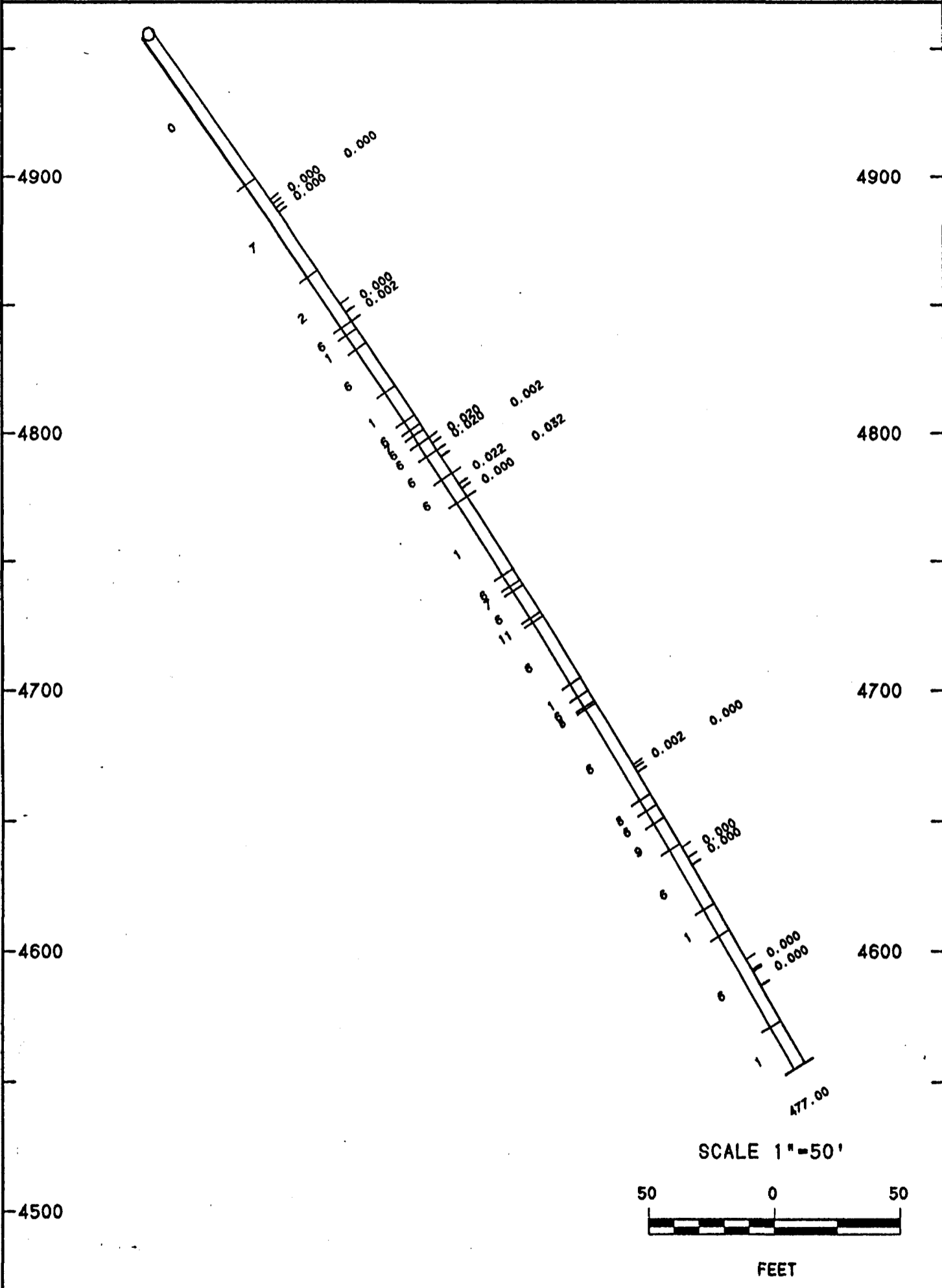
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			5170	304.0	307.0	3.0	0.015	n/a
			5171	307.0	310.0	3.0	0.025	n/a
			5172	310.0	313.0	3.0	0.050	n/a
			5173	313.0	316.0	3.0	0.005	n/a
			5174	316.0	319.0	3.0	0.002	n/a
			5175	319.0	322.0	3.0	0.000	n/a
			5176	322.0	325.0	3.0	0.140	0.125
			5177	325.0	328.0	3.0	0.005	n/a
			5178	328.0	331.0	3.0	0.002	n/a
			5179	331.0	334.0	3.0	0.000	n/a
			5180	334.0	337.0	3.0	0.005	n/a
			5181	337.0	340.0	3.0	0.005	n/a
			5182	340.0	343.0	3.0	0.002	n/a
			5183	343.0	346.0	3.0	0.002	n/a
			5184	346.0	349.0	3.0	0.000	n/a
			5185	349.0	352.0	3.0	0.002	n/a
			5186	352.0	355.0	3.0	0.000	n/a
			5187	355.0	357.0	2.0	0.000	n/a
357.0	378.9	ANDESITE / DACITE (1)						
			5188	357.0	362.0	5.0	0.000	n/a
378.9	426.2	RHYOLITE (+/- MASSIVE) (6)						
			5189	378.9	383.0	4.1	0.000	n/a
			5190	392.5	393.8	1.3	0.002	n/a
			5191	400.5	404.0	3.5	0.002	n/a
			5192	420.0	426.2	6.2	0.000	n/a
426.2	439.9	ANDESITE / DACITE (1)						
439.9	485.9	RHYOLITE (+/- MASSIVE) / ANDESITE / DACITE (6/1)						
			5193	450.8	451.8	1.0	0.020	n/a
			5194	457.0	462.0	5.0	0.002	n/a

86-52

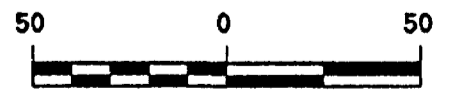
488.00N
3007.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-52	
E 3007	AZIMUTH 76
N 488	DIP -54
Scale 1" = 50'	

4400

Coords: 488.0N 3007.0E

HOLE NO.: 86-52

Azimuth: 76.0

Mirado Project

Dip: -54.0

Elevation: 4955.0

Length: 477.0

Dip Tests

477.00 76.0 -60.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	71.0	OVERBURDEN (0)						
71.0	114.5	QUARTZ-FELDSPAR PORPHYRY (7)	7490	81.0	83.0	2.0	0.000	n/a
			7491	83.0	85.0	2.0	0.000	n/a
			7492	85.0	87.0	2.0	0.000	n/a
114.5	138.5	PYROCLASTIC CONGLOMERATE (2)	7493	130.4	134.4	4.0	0.000	n/a
			7494	134.4	138.5	4.1	0.002	n/a
138.5	142.0	RHYOLITE (+/- MASSIVE) (6)						
142.0	148.8	ANDESITE / DACITE (1)						
148.8	169.3	RHYOLITE (+/- MASSIVE) (6)						

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
169.3	183.0	ANDESITE / DACITE (1)						
183.0	187.0	RHYOLITE (+/- MASSIVE) (6)						
187.0	189.5	QUARTZ-FELDSPAR PORPHYRY (7)						
189.5	193.3	RHYOLITE (+/- MASSIVE) (6)						
193.3	199.0	RHYOLITE (+/- MASSIVE) (6)						
			7495	193.3	195.7	2.4	0.020	n/a
			7496	195.7	199.0	3.3	0.020	n/a
199.0	210.0	RHYOLITE (+/- MASSIVE) (6)						
			7497	199.0	202.0	3.0	0.002	n/a
210.0	221.0	RHYOLITE (+/- MASSIVE) (6)						
			7498	210.0	215.0	5.0	0.022	n/a
			7499	215.0	217.0	2.0	0.032	n/a
			7500	217.0	221.0	4.0	0.000	n/a
221.0	254.5	ANDESITE / DACITE (1)						
254.5	259.7	RHYOLITE (+/- MASSIVE) (6)						
259.7	262.0	QUARTZ-FELDSPAR PORPHYRY (7)						
262.0	274.6	RHYOLITE (+/- MASSIVE) (6)						
274.6	276.5	LAMPORPHYRE (11)						

Golden Shield Resources Ltd.

Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
276.5	304.6	RHYOLITE (+/- MASSIVE) (6)						
304.6	310.3	ANDESITE / DACITE (1)						
310.3	315.0	RHYOLITE (+/- MASSIVE) (6)						
315.0	316.0	METADIORITE (8)						
316.0	357.0	RHYOLITE (+/- MASSIVE) (6)						
			31201	344.0	345.4	1.4	0.002	n/a
			31202	345.4	347.4	2.0	0.000	n/a
357.0	361.8	METADIORITE (8)						
361.8	367.5	RHYOLITE (+/- MASSIVE) (6)						
367.5	379.5	CHLORIC DYKE (9)						
379.5	406.0	RHYOLITE (+/- MASSIVE) (6)						
			31203	381.0	385.6	4.6	0.000	n/a
			31204	385.6	388.8	3.2	0.000	n/a
406.0	418.0	ANDESITE / DACITE (1)						
418.0	458.0	RHYOLITE (+/- MASSIVE) (6)						
			31205	431.0	435.8	4.8	0.000	n/a
			31206	436.5	442.5	6.0	0.000	n/a
458.0	477.0	ANDESITE / DACITE (1)						

Coords: 900.0N 2937.0E

HOLE NO.: 86-53

Azimuth: 76.0

Mirado Project

Dip: -55.0

Elevation: 4958.0

Length: 507.0

Dip Tests

507.00 76.0 -61.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	37.0	OVERBURDEN (0)						
37.0	94.0	RHYOLITE (+/- MASSIVE) / ANDESITE / DACITE (6/1)						
			5199	37.0	38.0	1.0	0.002	n/a
			5200	38.0	40.4	2.4	0.002	n/a
			5201	40.4	42.6	2.2	0.005	n/a
			5202	73.0	75.5	2.5	0.002	n/a
94.0	97.4	METADIORITE (8)						
97.4	148.5	PYROCLASTIC CONGLOMERATE (2)						
			5203	97.4	100.4	3.0	0.005	n/a
			5204	100.4	104.4	4.0	0.005	n/a
148.5	202.0	ANDESITE / DACITE (1)						
			5205	148.5	153.2	4.7	0.002	n/a
			5206	153.2	156.0	2.8	0.000	n/a
			5207	156.0	157.8	1.8	0.000	n/a
			5208	157.8	162.8	5.0	0.000	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			5209	162.8	167.8	5.0	0.002	n/a
			5210	167.8	170.4	2.6	0.002	n/a
			5211	193.0	194.0	1.0	0.005	n/a
202.0	273.8	PYROCLASTIC CONGLOMERATE (2)						
			5212	202.0	205.3	3.3	0.005	n/a
			5213	205.3	208.0	2.7	0.002	n/a
			5214	239.0	244.0	5.0	0.005	n/a
273.8	278.3	METADIORITE (8)						
278.3	384.5	PYROCLASTIC CONGLOMERATE (2)						
			5215	278.3	283.3	5.0	0.002	n/a
			5216	283.3	288.0	4.7	0.000	n/a
			5217	288.0	293.0	5.0	0.005	n/a
			5218	293.0	298.0	5.0	0.010	n/a
			5219	298.0	303.0	5.0	0.005	n/a
			5220	307.0	312.0	5.0	0.020	n/a
			5221	312.0	317.0	5.0	0.010	0.005
			5222	317.0	322.0	5.0	0.005	n/a
			5223	322.0	327.0	5.0	0.010	n/a
			5224	327.0	332.0	5.0	0.005	n/a
			5225	332.0	337.0	5.0	0.010	n/a
			5226	337.0	341.0	4.0	0.002	n/a
			5227	341.0	343.8	2.8	0.000	n/a
			5228	343.8	348.5	4.7	0.000	n/a
			5229	348.5	352.0	3.5	0.002	n/a
			5230	352.0	357.0	5.0	0.002	n/a
			5231	357.0	362.0	5.0	0.005	n/a
			5232	362.0	367.0	5.0	0.005	n/a
			5233	367.0	372.0	5.0	0.002	n/a
			5234	372.0	377.0	5.0	0.000	n/a
			5235	377.0	382.0	5.0	0.010	n/a
			5236	382.0	387.0	5.0	0.020	n/a
384.5	414.0	ANDESITE / DACITE / RHYOLITE (+/- MASSIVE) (1/6)						
			5237	394.2	397.0	2.8	0.002	n/a

Golden Shield Resources Ltd.

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			5238	397.0	400.5	3.5	0.005	n/s
			5239	400.5	404.0	3.5	0.002	n/s
414.0	428.2	PYROCLASTIC CONGLOMERATE (2)						
			5240	414.0	419.0	5.0	0.010	n/s
			5241	419.0	424.0	5.0	0.005	n/s
			5242	424.0	425.7	1.7	0.002	n/s
			5243	425.7	428.2	2.5	0.005	n/s
428.2	430.2	METADIORITE (8)						
430.2	507.0	RHYOLITE (+/- MASSIVE) (6)						

Golden Shield Resources Ltd.

Page: 1

Coords: 781.0N 2926.0E

HOLE NO.: 86-54

Azimuth: 256.0

Mirado Project

Dip: -55.0

Elevation: 4957.0

Length: 501.0

Rip Tests

501.00 256.0 -53.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	54.0	OVERBURDEN (0)						
54.0	59.5	ANDESITE / DACITE (1)						
59.5	82.1	RHYOLITE (+/- MASSIVE) / ANDESITE / DACITE (6/1)						
			7246	59.5	64.0	4.5	0.000	n/a
			7247	64.0	67.0	3.0	0.000	n/a
			7248	67.0	70.0	3.0	0.000	n/a
			7249	70.0	73.0	3.0	0.002	n/a
			7250	73.0	78.0	5.0	0.000	n/a
			7251	78.0	82.1	4.1	0.000	n/a
82.1	97.0	ANDESITE / DACITE (1)						
			7252	96.0	97.0	1.0	0.000	n/a
97.0	100.6	ANDESITE / DACITE (1)						
			7253	97.0	100.6	3.6	0.000	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
100.6	147.0	RHYOLITE (+/- MASSIVE) (6)						
			7254	100.6	106.0	5.4	0.000	n/a
			7255	106.0	111.0	5.0	0.002	n/a
			7256	111.0	115.1	4.1	0.002	n/a
			7257	115.1	116.2	1.1	0.075	0.070
			7258	116.2	121.0	4.8	0.005	n/a
			7259	121.0	123.5	2.5	0.002	n/a
			7260	123.5	126.0	2.5	0.005	n/a
			7261	126.0	129.0	3.0	0.002	n/a
			7262	129.0	134.0	5.0	0.002	n/a
			7263	134.0	139.0	5.0	0.002	n/a
			7264	139.0	144.0	5.0	0.002	n/a
			7265	144.0	147.0	3.0	0.000	n/a
147.0	190.2	PYROCLASTIC CONGLOMERATE (2)						
			7266	147.0	150.0	3.0	0.002	n/a
			7267	150.0	153.0	3.0	0.002	n/a
			7268	153.0	156.0	3.0	0.030	0.030
			7269	156.0	159.0	3.0	0.002	n/a
			7270	159.0	162.0	3.0	0.000	n/a
			7271	162.0	165.0	3.0	0.000	n/a
			7272	165.0	168.0	3.0	0.000	n/a
			7273	168.0	171.0	3.0	0.000	n/a
			7274	171.0	174.0	3.0	0.000	n/a
			7275	174.0	177.0	3.0	0.002	n/a
			7276	177.0	180.0	3.0	0.002	n/a
			7277	180.0	183.0	3.0	0.002	0.002
			7278	183.0	186.0	3.0	0.002	n/a
			7279	186.0	190.2	4.2	0.000	n/a
190.2	200.0	RHYOLITE (+/- MASSIVE) (6)						
			7280	190.2	195.0	4.8	0.000	n/a
			7281	195.0	200.0	5.0	0.000	n/a
200.0	327.5	PYROCLASTIC CONGLOMERATE (2)						
			7282	200.0	204.0	4.0	0.000	n/a
			7283	204.0	207.0	3.0	0.000	n/a
			7284	207.0	210.0	3.0	0.000	n/a

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7285	210.0	213.0	3.0	0.000	n/a
			7286	213.0	216.0	3.0	0.000	n/a
			7287	216.0	219.0	3.0	0.000	n/a
			7288	219.0	222.0	3.0	0.000	n/a
			7289	222.0	225.0	3.0	0.002	n/a
			7290	225.0	228.0	3.0	0.005	0.005
			7291	228.0	231.0	3.0	0.002	n/a
			7292	231.0	233.0	2.0	0.000	n/a
			7293	233.0	237.0	4.0	0.002	n/a
			7294	237.0	242.5	5.5	0.000	n/a
			7295	242.5	247.0	4.5	0.000	n/a
			7296	247.0	252.0	5.0	0.000	n/a
			7297	252.0	257.0	5.0	0.000	n/a
			7298	257.0	262.0	5.0	0.000	n/a
			7299	262.0	267.5	5.5	0.000	n/a
			7300	267.5	273.0	5.5	0.002	n/a
			7301	273.0	279.5	6.5	0.000	n/a
			7302	279.5	284.0	4.5	0.000	n/a
			7303	284.0	288.0	4.0	0.000	n/a
			7304	288.0	291.0	3.0	0.000	n/a
			7305	291.0	293.7	2.7	0.000	n/a
			7306	293.7	295.6	1.9	0.002	0.002
			7307	295.6	299.0	3.4	0.002	n/a
			7308	299.0	304.0	5.0	0.002	n/a
			7309	304.0	309.0	5.0	0.002	n/a
			7310	309.0	314.0	5.0	0.000	n/a
			7311	314.0	318.0	4.0	0.000	n/a
			7312	318.0	321.3	3.3	0.000	n/a
			7313	321.3	324.4	3.1	0.000	n/a
			7314	324.4	327.5	3.1	0.000	n/a
327.5	334.3	RHYOLITE (+/- MASSIVE) / ANDESITE / DACITE (6/1)	7315	327.5	334.3	6.8	0.002	n/a
334.3	361.3	PYROCLASTIC CONGLOMERATE (2)	7316	334.3	340.0	5.7	0.000	n/a
			7317	340.0	345.5	5.5	0.002	n/a
			7318	345.5	351.0	5.5	0.002	n/a
			7319	351.0	356.0	5.0	0.005	n/a

Golden Shield Resources Ltd.

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from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7320	356.0	361.3	5.3	0.010	0.005
361.3	378.6	RHYOLITE (+/- MASSIVE) / ANDESITE / DACITE (6/1)						
			7321	361.3	369.9	8.6	0.002	n/a
			7322	369.9	370.7	0.8	0.005	n/a
			7323	370.7	375.0	4.3	0.002	n/a
			7324	375.0	378.6	3.6	0.040	0.050
378.6	392.3	PYROCLASTIC CONGLOMERATE (2)						
			7325	378.6	383.0	4.4	0.005	n/a
			7326	383.0	386.3	3.3	0.002	n/a
			7327	386.3	389.3	3.0	0.005	n/a
			7328	389.3	392.3	3.0	0.060	0.070
392.3	393.8	LAMPROPHYRE (11)						
			7329	392.3	393.8	1.5	0.005	n/a
393.8	402.5	PYROCLASTIC CONGLOMERATE (2)						
			7330	393.8	398.1	4.3	0.000	n/a
			7331	398.1	402.5	4.4	0.010	n/a
402.5	457.0	RHYOLITE (+/- MASSIVE) (6)						
			7332	402.5	406.0	3.5	0.090	n/a
			7333	406.0	410.0	4.0	n/a	n/a
			7334	446.2	447.0	0.8	0.020	n/a
			7335	447.0	451.1	4.1	0.010	n/a
			7336	451.1	453.2	2.1	0.005	n/a
			7337	453.2	457.0	3.8	0.005	n/a
457.0	466.5	ANDESITE / DACITE (1)						
466.5	475.1	RHYOLITE (+/- MASSIVE) (6)						

Golden Shield Resources Ltd.

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from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
475.1	477.4	ANDESITE / DACITE (1)						
477.4	501.0	RHYOLITE (+/- MASSIVE) (6)						

Coords: 706.0N 3922.0E
 Azimuth: 256.0
 Dip: -65.0
 Elevation: 4954.0
 Length: 601.0

Mirado Project

Dip Tests

601.00 256.0 -64.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	49.0	OVERBURDEN (0)						
49.0	82.0	RHYOLITE (+/- MASSIVE) (6)	7201	58.0	65.9	7.9	0.002	n/a
			7202	77.0	82.0	5.0	0.000	n/a
82.0	107.0	ANDESITE / DACITE (1)	7203	102.0	107.0	5.0	0.000	n/a
107.0	158.5	ANDESITE / DACITE (1)	7204	107.0	112.0	5.0	0.000	n/a
			7205	112.0	117.0	5.0	0.000	n/a
			7206	117.0	122.0	5.0	0.000	n/a
			7207	122.0	127.0	5.0	0.000	n/a
			7208	127.0	131.0	4.0	0.020	0.025
			7209	131.0	135.0	4.0	0.002	n/a
			7210	135.0	139.0	4.0	0.000	n/a
			7211	139.0	143.0	4.0	0.000	n/a
			7212	143.0	147.0	4.0	0.000	n/a
			7213	147.0	151.0	4.0	0.000	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7214	151.0	155.0	4.0	0.000	n/a
			7215	155.0	158.5	3.5	0.000	n/a
158.5	177.0	RHYOLITE (+/- MASSIVE) (6)						
			7216	158.5	163.0	4.5	0.000	n/a
			7217	163.0	167.0	4.0	0.000	n/a
			7218	167.0	171.0	4.0	0.000	n/a
			7219	171.0	174.0	3.0	0.000	n/a
			7220	174.0	177.0	3.0	0.000	n/a
177.0	280.0	ANDESITE / DACITE (1)						
			7221	177.0	182.0	5.0	0.000	n/a
280.0	288.3	RHYOLITE (+/- MASSIVE) (6)						
288.3	413.0	PYROCLASTIC CONGLOMERATE (2)						
			7222	380.8	384.8	4.0	0.005	n/a
			7223	384.8	386.0	1.2	0.280	0.275
			7224	386.0	388.0	2.0	0.002	n/a
413.0	428.0	ANDESITE / DACITE (1)						
428.0	440.3	METADIORITE (8)						
440.3	473.8	PYROCLASTIC CONGLOMERATE (2)						
			7225	440.3	443.7	3.4	0.002	n/a
			7226	443.7	447.8	4.1	0.000	n/a
			7227	447.8	452.8	5.0	0.000	n/a
			7228	468.5	470.2	1.7	0.000	n/a
			7229	470.2	471.3	1.1	0.000	n/a
			7230	471.3	473.4	2.1	0.000	n/a
473.8	529.5	ANDESITE / DACITE (1)						

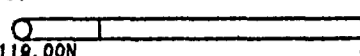
Golden Shield Resources Ltd.

Page: 3

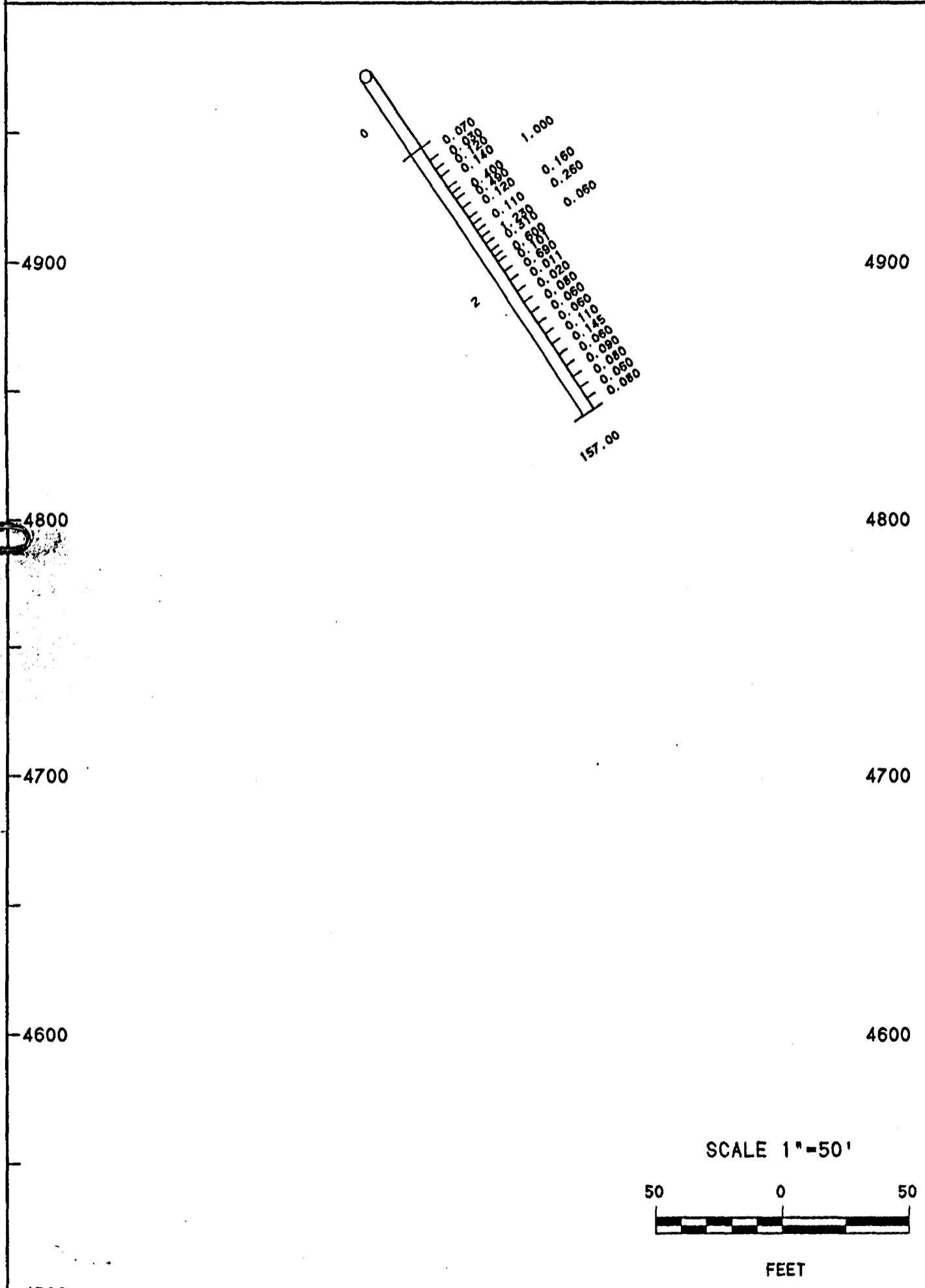
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7231	478.3	482.0	3.7	0.000	n/a
			7232	505.7	507.4	1.7	0.005	n/a
			7233	524.3	529.5	5.2	0.020	n/a
529.5	542.6	RHYOLITE (+/- MASSIVE) (6)						
			7234	529.5	534.5	5.0	0.040	0.035
			7235	534.5	537.0	2.5	0.035	n/a
			7236	537.0	540.5	3.5	0.005	n/a
			7237	540.5	542.6	2.1	0.002	n/a
542.6	545.6	METADIORITE (8)						
545.6	551.6	RHYOLITE (+/- MASSIVE) (6)						
			7238	545.6	551.6	6.0	0.002	n/a
551.6	555.2	METADIORITE (8)						
			7239	551.6	555.2	3.6	0.240	0.240
555.2	556.4	ANDESITE / DACITE (1)						
			7240	555.2	556.4	1.2	0.002	n/a
556.4	580.0	METADIORITE (8)						
			7241	577.3	581.0	3.7	0.065	n/a
580.0	581.0	SYENITE (10)						
581.0	601.0	PYROCLASTIC CONGLOMERATE (2)						
			7242	581.0	583.5	2.5	0.120	0.110
			7243	583.5	587.3	3.8	0.000	n/a
			7244	587.3	592.3	5.0	0.002	n/a
			7245	592.3	597.3	5.0	0.000	n/a
			7245A	597.3	601.0	3.7	0.000	n/a

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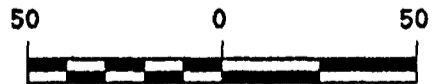
1119.00N
3652.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCE	
MIRADO PROJECT	
SECTION VIEW HOLE 86-57	
E 3652 N 1119	AZIMUTH 256 DIP -55
Scale 1" = 50'	

Coords: 1119.0N 3652.0E

HOLE NO.: 86-57

Azimuth: 256.0

Mirado Project

Dip: -55.0

Elevation: 4971.0

Length: 157.0

Dip Tests

157.00 256.0 -57.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	35.2	OVERBURDEN (0)						
35.2	157.0	PYROCLASTIC CONGLOMERATE (2)						
			7338	35.2	41.0	5.8	0.070	n/a
			7339	41.0	45.0	4.0	0.030	n/a
			7340	45.0	48.4	3.4	0.120	n/a
			7341	48.4	53.6	5.2	0.140	n/a
			7342	53.6	56.4	2.8	1.000	1.040
			7343	56.4	59.2	2.8	0.400	n/a
			7344	59.2	63.5	4.3	0.490	0.310
			7345	63.5	68.0	4.5	0.120	n/a
			7346	68.0	71.0	3.0	0.160	n/a
			7347	71.0	74.0	3.0	0.110	n/a
			7348	74.0	77.0	3.0	0.260	n/a
			7349	77.0	80.0	3.0	1.230	1.270
			7350	80.0	83.3	3.3	0.310	n/a
			7351	83.3	86.0	2.7	0.060	n/a
			7352	86.0	88.4	2.4	0.600	0.540
			7353	88.4	92.9	4.5	0.100	n/a
			7354	92.9	97.0	4.1	0.690	0.720
			7355	97.0	102.0	5.0	0.010	n/a
			7356	102.0	107.0	5.0	0.020	n/a

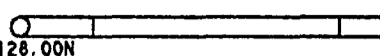
Golden Shield Resources Ltd.

Page: 2

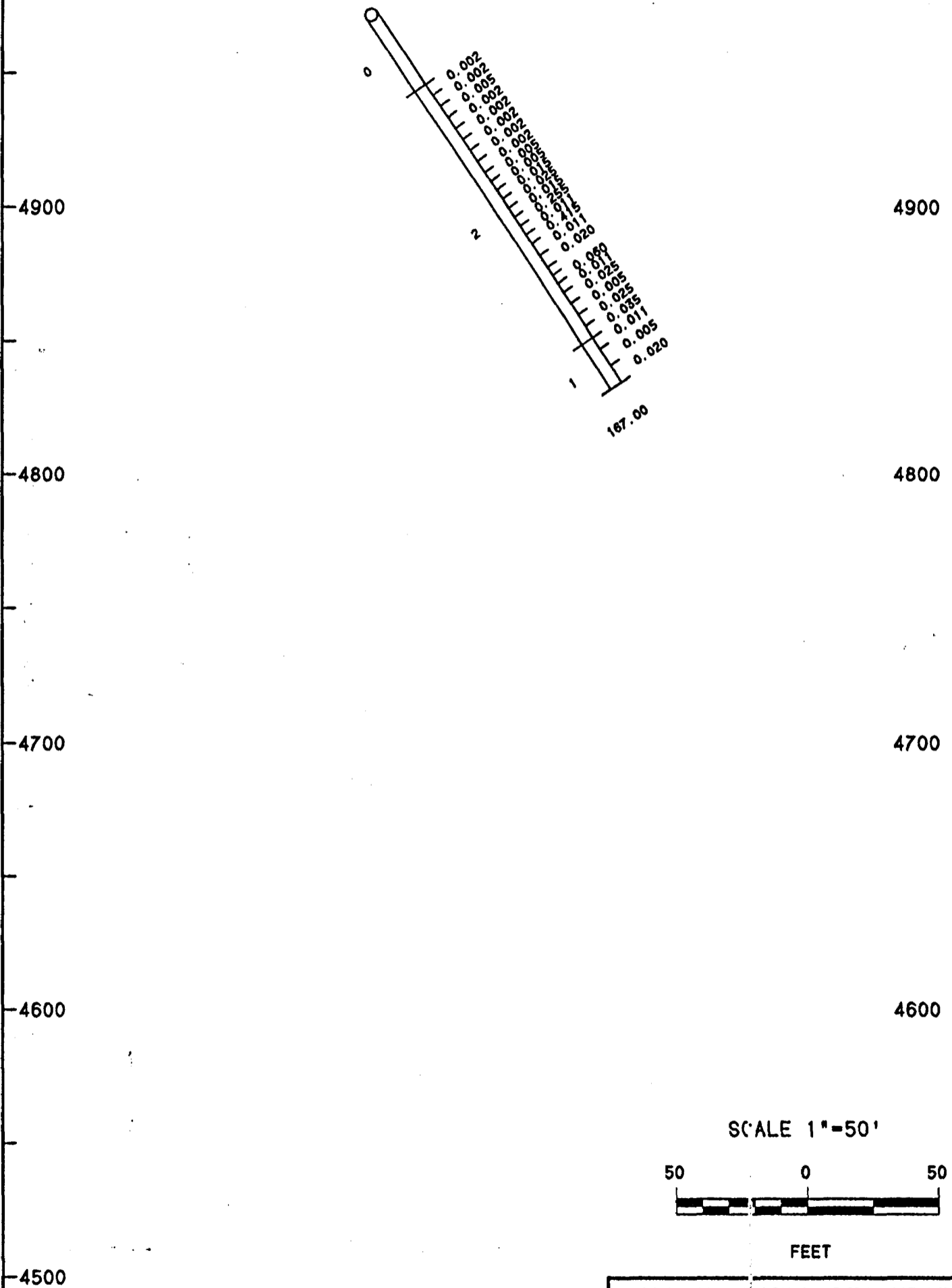
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7357	107.0	112.0	5.0	0.080	n/a
			7358	112.0	117.0	5.0	0.060	n/a
			7359	117.0	122.0	5.0	0.060	n/a
			7360	122.0	127.0	5.0	0.110	n/a
			1	127.0	132.0	5.0	0.145	n/a
			7362	132.0	137.0	5.0	0.060	n/a
			7363	137.0	142.0	5.0	0.090	n/a
			7364	142.0	147.0	5.0	0.080	n/a
			7365	147.0	152.0	5.0	0.060	0.040
			7366	152.0	157.0	5.0	0.080	n/a

86-58

1128.00N
3700.00E



PLAN VIEW



GOLDEN SHIELD RESOURCES	
MIRAJO PROJECT	
SECTION VIEW	
HOLE 86-58	
E 3700 N 1128	AZIMUTH 256 DIP -55
Scale 1" = 50'	

Coords: 1128.0N 3700.0E

HOLE NO.: 86-58

Azimuth: 256.0

Mirado Project

Dip: -55.0

Elevation: 4971.0

Length: 167.0

Rip Tests

167.00 256.0 -57.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	33.0	OVERBURDEN (0)						
33.0	147.0	PYROCLASTIC CONGLOMERATE (2)						
			5244	33.0	38.0	5.0	0.002	n/a
			5245	38.0	43.0	5.0	0.002	n/a
			5247	48.0	53.0	5.0	0.002	n/a
			5248	53.0	58.0	5.0	0.002	n/a
			5254	81.0	85.0	4.0	0.015	n/a
			5255	85.0	89.0	4.0	0.025	n/a
			5256	89.0	93.0	4.0	0.015	n/a
			5257	93.0	97.0	4.0	0.255	n/a
			5258	97.0	101.0	4.0	0.010	n/a
			5259	101.0	105.0	4.0	0.415	0.470
			5260	105.0	110.3	5.3	0.010	n/a
			5261	110.3	115.7	5.4	0.020	n/a
			5263	119.3	123.0	3.7	0.060	n/a
			5264	123.0	127.0	4.0	0.010	n/a
			5265	127.0	132.0	5.0	0.025	n/a
			5266	132.0	137.0	5.0	0.005	n/a
			5267	137.0	142.0	5.0	0.025	n/a
			5268	142.0	147.0	5.0	0.035	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
147.0	167.0	ANDESITE / DACITE (1)	5269	147.0	152.0	5.0	0.010	n/a
			5270	152.0	159.5	7.5	0.005	n/a
			5271	159.5	167.0	7.5	0.020	n/a

Golden Shield Resources Ltd.

HOLE NO.: 86-59

Page: 1

Coords: 1092.0N 3657.0E

Azimuth: 256.0

Mirado Project

Rip: -55.0

Elevation: 4970.0

Length: 147.0

Rip Tests

147.00 256.0 -56.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	35.3	OVERBURDEN (0)						
35.3	137.5	PYROCLASTIC CONGLOMERATE (2)						
			7368	35.3	40.0	4.7	0.100	n/a
			7369	40.0	45.0	5.0	0.065	n/a
			7370	45.0	50.0	5.0	0.105	n/a
			7371	50.0	55.0	5.0	0.100	n/a
			7372	55.0	60.0	5.0	0.010	n/a
			7373	60.0	65.0	5.0	0.050	n/a
			7374	65.0	70.0	5.0	0.100	0.110
			7375	70.0	75.0	5.0	0.020	n/a
			7376	75.0	80.0	5.0	0.002	n/a
			7377	80.0	85.0	5.0	0.002	n/a
			7378	85.0	89.4	4.4	0.002	n/a
			7379	89.4	95.0	5.6	0.005	n/a
			7380	95.0	100.0	5.0	0.002	n/a
			7381	100.0	105.0	5.0	0.005	n/a
			7382	105.0	110.0	5.0	0.005	n/a
			7383	110.0	115.0	5.0	0.005	n/a
			7384	115.0	120.0	5.0	0.010	n/a
			7385	120.0	125.0	5.0	0.020	n/a
			7386	125.0	130.2	5.2	0.130	0.120

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7387	130.2	133.8	3.6	0.040	n/a
			7388	133.8	137.5	3.7	0.025	n/a
137.5	147.0	SYENITE (10)	7389	137.5	147.0	9.5	0.010	n/a

Coords: 1105.0N 3707.0E

Azimuth: 256.0

Mirado Project

Dip: -55.0

Elevation: 4969.0

Length: 147.0

Dip Tests

147.00 256.0 -54.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au az	Check az
0.0	27.0	OVERBURDEN (0)						
27.0	49.5	ANDESITE / DACITE (1)						
			7446	27.0	32.0	5.0	0.082	n/a
			7447	32.0	37.0	5.0	0.036	n/a
			7448	37.0	42.0	5.0	0.092	n/a
			7449	42.0	47.0	5.0	0.030	n/a
			7450	47.0	49.5	2.5	0.016	n/a
49.5	88.2	PYROCLASTIC CONGLOMERATE (2)						
			7451	49.5	52.0	2.5	0.002	n/a
			7452	52.0	57.0	5.0	0.000	n/a
			7453	57.0	59.5	2.5	0.038	n/a
			7454	59.5	63.0	3.5	0.012	n/a
			7455	63.0	67.0	4.0	0.000	n/a
			7456	67.0	72.0	5.0	0.006	n/a
			7457	72.0	77.0	5.0	0.022	n/a
			7458	77.0	82.0	5.0	0.000	n/a
			7459	82.0	88.2	6.2	0.000	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
88.2	91.5	METADIORITE (8)	7460	88.2	91.5	3.3	0.000	n/a
91.5	147.0	PYROCLASTIC CONGLOMERATE (2)						
			7461	91.5	97.0	5.5	0.006	n/a
			7462	97.0	102.0	5.0	0.380	n/a
			7463	102.0	107.0	5.0	0.119	n/a
			7464	107.0	112.0	5.0	0.233	n/a
			7465	112.0	117.0	5.0	0.026	n/a
			7466	117.0	122.0	5.0	0.128	n/a
			7467	122.0	127.0	5.0	0.032	n/a
			7468	127.0	132.0	5.0	0.002	n/a
			7469	132.0	137.0	5.0	0.014	n/a
			7470	137.0	142.0	5.0	0.012	n/a
			7471	142.0	147.0	5.0	0.000	n/a

Golden Shield Resources Ltd.

HOLE NO.: 86-61

Page: 1

Coords: 1066.0N 3663.0E

Azimuth: 256.0

Mirado Project

Dip: -55.0

Elevation: 4970.0

Length: 107.0

Dip Tests

107.00 256.0 -56.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	33.5	OVERBURDEN (0)						
33.5	56.0	PYROCLASTIC CONGLOMERATE (2)						
			7472	33.5	39.0	5.5	0.002	n/a
			7473	39.0	44.0	5.0	0.002	n/a
			7474	44.0	49.0	5.0	0.010	n/a
			7475	49.0	54.0	5.0	0.002	n/a
			7476	54.0	56.0	2.0	0.002	n/a
56.0	58.0	METADIORITE (8)						
			7477	56.0	58.0	2.0	0.002	n/a
58.0	107.0	PYROCLASTIC CONGLOMERATE (2)						
			7478	58.0	63.0	5.0	0.000	n/a
			7479	63.0	68.0	5.0	0.002	n/a
			7480	68.0	73.0	5.0	0.000	n/a
			7481	73.0	78.0	5.0	0.002	n/a
			7482	78.0	83.0	5.0	0.000	n/a
			7483	83.0	88.0	5.0	0.000	n/a
			7484	88.0	93.0	5.0	0.030	n/a

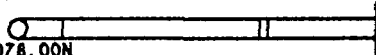
Golden Shield Resources Ltd.

Page: 2

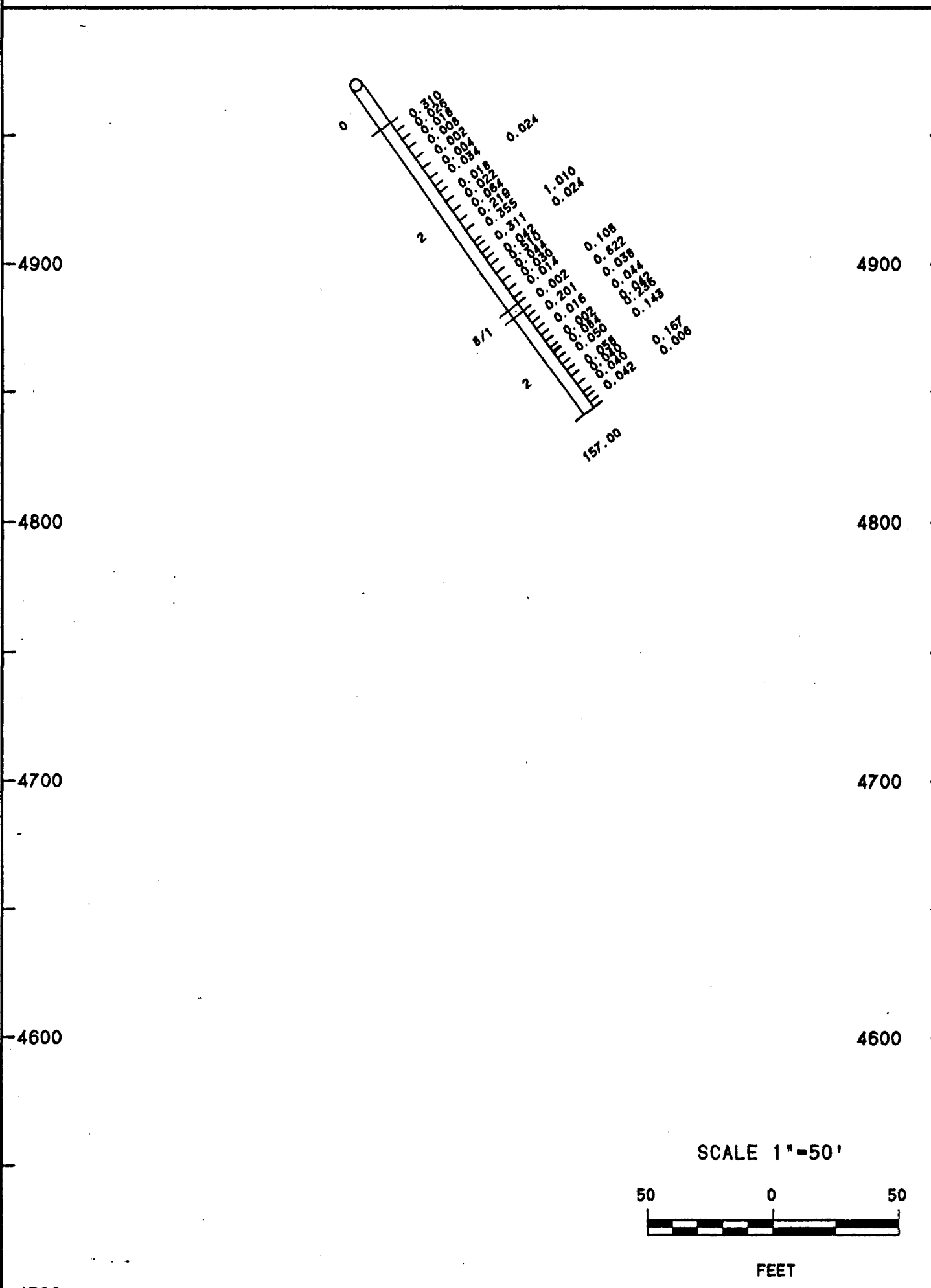
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7485	93.0	98.0	5.0	0.090	n/a
			7486	98.0	100.5	2.5	0.302	n/a
			7487	100.5	105.5	5.0	0.104	n/a

86-62

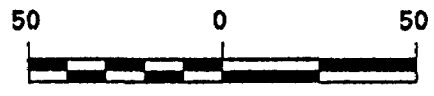
1078.00N
3709.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-62	
E 3709	AZIMUTH 256
N 1078	DIP -55
Scale 1" = 50'	

Golden Shield Resources Ltd.

Page: 1

Coords: 1078.0N 3709.0E

HOLE NO.: 86-62

Azimuth: 256.0

Mirado Project

Dip: -55.0

Elevation: 4969.0

Length: 157.0

Dip Tests

150.00 256.0 -53.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	20.0	OVERBURDEN (0)						
20.0	106.7	PYROCLASTIC CONGLOMERATE (2)						
			5272	20.0	24.0	4.0	0.310	0.355
			5273	24.0	28.0	4.0	0.026	n/a
			5274	28.0	32.0	4.0	0.018	n/a
			5275	32.0	37.0	5.0	0.008	n/a
			5276	37.0	42.0	5.0	0.002	n/a
			5277	42.0	47.0	5.0	0.004	n/a
			5278	47.0	50.7	3.7	0.034	n/a
			5279	50.7	53.7	3.0	0.024	n/a
			5280	53.7	58.0	4.3	0.018	n/a
			5281	58.0	62.5	4.5	0.022	n/a
			5282	62.5	67.0	4.5	0.064	n/a
			5283	67.0	71.4	4.4	0.219	n/a
			5284	71.4	76.8	5.4	0.355	n/a
			5285	76.8	79.0	2.2	1.010	n/a
			5286	79.0	82.2	3.2	0.311	n/a
			5287	82.2	85.0	2.8	0.024	n/a
			5288	85.0	88.0	3.0	0.042	n/a
			5289	88.0	92.0	4.0	0.510	n/a
			5290	92.0	96.0	4.0	0.044	n/a

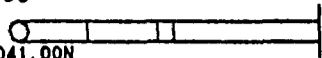
Golden Shield Resources Ltd.

Page: 2

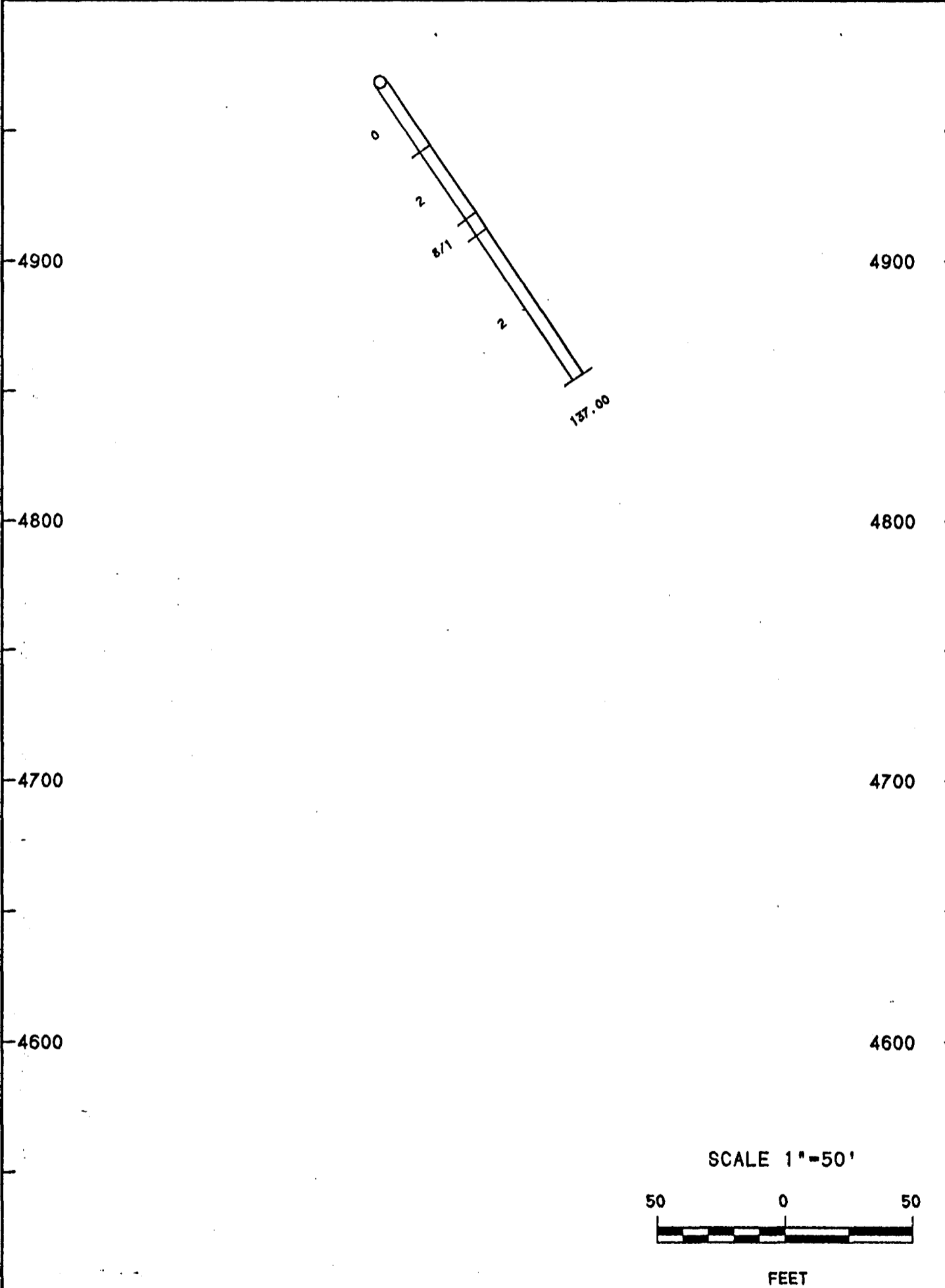
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			5291	96.0	100.0	4.0	0.030	n/a
			5292	100.0	104.0	4.0	0.014	n/a
			5293	104.0	106.7	2.7	0.108	n/a
106.7	110.3	METADIORITE/ANDESITE/DACITE (8/1)						
			5294	106.7	110.3	3.6	0.002	n/a
110.3	157.0	PYROCLASTIC CONGLOMERATE (2)						
			5295	110.3	113.0	2.7	0.822	n/a
			5296	113.0	116.0	3.0	0.201	n/a
			5297	116.0	119.0	3.0	0.038	n/a
			5298	119.0	122.0	3.0	0.016	n/a
			5299	122.0	125.0	3.0	0.044	n/a
			5300	125.0	128.0	3.0	0.002	n/a
			5301	128.0	129.8	1.8	0.042	n/a
			5302	129.8	130.5	0.7	0.084	n/a
			5303	130.5	133.0	2.5	0.236	n/a
			5304	133.0	136.0	3.0	0.050	n/a
			5305	136.0	139.0	3.0	0.143	n/a
			5306	139.0	142.0	3.0	0.058	n/a
			5307	142.0	146.0	4.0	0.040	n/a
			5308	146.0	149.8	3.8	0.040	n/a
			5309	149.8	152.0	2.2	0.167	n/a
			5310	152.0	154.5	2.5	0.042	n/a
			5311	154.5	157.0	2.5	0.006	n/a

86-63

1041.00N
3666.00E



PLAN VIEW



SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES
MIRADO PROJECT

SECTION VIEW
HOLE 86-63

E 3666
N 1041

AZIMUTH 256
DIP -55

Scale 1" = 50'

Golden Shield Resources Ltd.

Page: 1

Coords: 1041.0N 3666.0E

HOLE NO.: 86-63

Azimuth: 256.0

Mirado Project

Dip: -55.0

Elevation: 4968.0

Length: 137.0

Dip Tests

137.00 256.0 -56.0

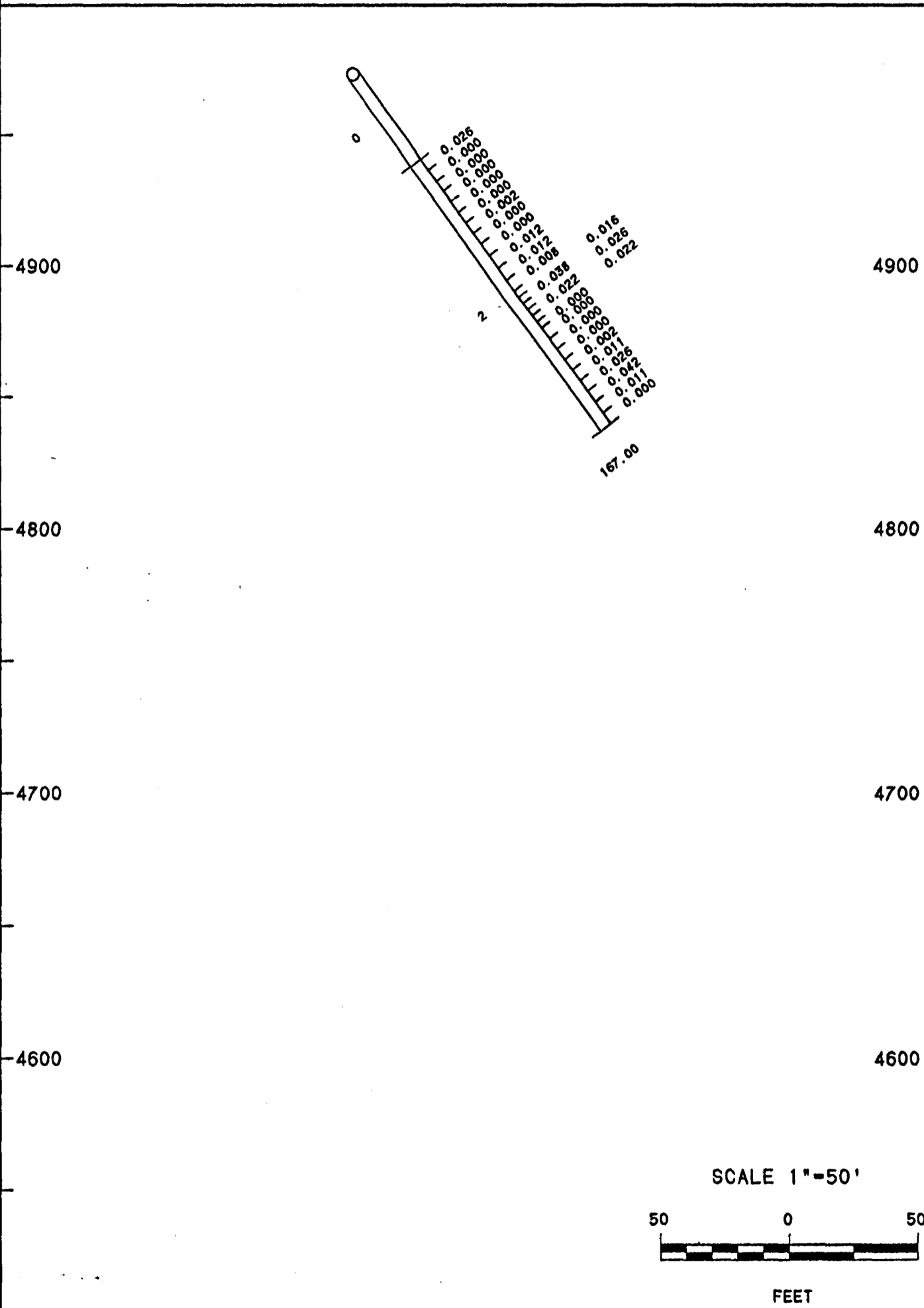
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	31.0	OVERBURDEN (0)						
31.0	62.6	PYROCLASTIC CONGLOMERATE (2)						
62.6	70.0	METADIORITE/ANDESITE/DACITE (8/1)						
70.0	137.0	PYROCLASTIC CONGLOMERATE (2)						

86-64

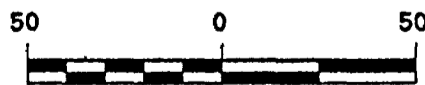
1160.00N
3655.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCE	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-64	
E 3655	AZIMUTH 256
N 1160	DIP -55
Scale 1" = 50'	

Coords: 1160.0N 3655.0E

HOLE NO.: 86-64

Azimuth: 256.0

Mirado Project

Dip: -55.0

Elevation: 4973.0

Length: 167.0

Dip Tests

167.00 256.0 -53.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	42.0	OVERBURDEN (0)						
42.0	167.0	PYROCLASTIC CONGLOMERATE (2)						
			7419	42.0	47.0	5.0	0.026	n/a
			7420	47.0	52.4	5.4	0.000	n/a
			7421	52.4	57.0	4.6	0.000	n/a
			7422	57.0	62.0	5.0	0.000	n/a
			7423	62.0	67.0	5.0	0.000	n/a
			7424	67.0	72.0	5.0	0.000	n/a
			7425	72.0	77.0	5.0	0.002	n/a
			7426	77.0	82.0	5.0	0.000	n/a
			7427	82.0	87.8	5.8	0.000	n/a
			7428	87.8	93.6	5.8	0.012	n/a
			7429	93.6	99.0	5.4	0.012	n/a
			7430	99.0	104.0	5.0	0.008	n/a
			7431	104.0	107.0	3.0	0.016	n/a
			7432	107.0	110.0	3.0	0.038	n/a
			7433	110.0	113.0	3.0	0.026	n/a
			7434	113.0	116.0	3.0	0.022	n/a
			7435	116.0	119.0	3.0	0.022	n/a
			7436	119.0	122.0	3.0	0.000	n/a
			7437	122.0	127.0	5.0	0.000	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz.	Check oz.
			7438	127.0	132.0	5.0	0.000	n/a
			7439	132.0	137.0	5.0	0.000	n/a
			7440	137.0	142.0	5.0	0.002	n/a
			7441	142.0	147.0	5.0	0.010	n/a
			7442	147.0	152.0	5.0	0.026	n/a
			7443	152.0	157.0	5.0	0.042	n/a
			7444	157.0	162.0	5.0	0.010	n/a
			7445	162.0	167.0	5.0	0.000	n/a

Coords: 1155.0N 3595.0E

HOLE NO.: 86-65

Azimuth: 256.0

Mirado Project

Dip: -55.0

Elevation: 4974.0

Length: 127.0

Dip Tests

127.00 256.0 -54.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	10.4	OVERBURDEN (0)						
10.4	127.0	PYROCLASTIC CONGLOMERATE (2)						
			7390	10.4	16.0	5.6	0.010	n/a
			7391	16.0	22.0	6.0	0.104	n/a
			7392	22.0	27.0	5.0	0.006	n/a
			7393	27.0	32.0	5.0	0.000	n/a
			7394	32.0	37.0	5.0	0.008	n/a
			7395	37.0	42.0	5.0	0.008	n/a
			7396	42.0	47.0	5.0	0.006	n/a
			7397	47.0	52.0	5.0	0.000	n/a
			7398	52.0	57.0	5.0	0.006	n/a
			7399	57.0	62.0	5.0	0.000	n/a
			7400	62.0	67.0	5.0	0.050	n/a
			7401	67.0	69.0	2.0	0.014	n/a
			7402	69.0	70.5	1.5	0.036	n/a
			7403	70.5	72.5	2.0	0.110	n/a
			7404	72.5	74.0	1.5	0.022	n/a
			7405	74.0	76.5	2.5	0.086	n/a
			7406	76.5	78.5	2.0	0.922	n/a
			7407	78.5	80.0	1.5	0.022	n/a
			7408	80.0	85.0	5.0	0.010	n/a

Golden Shield Resources Ltd.

Page: 2

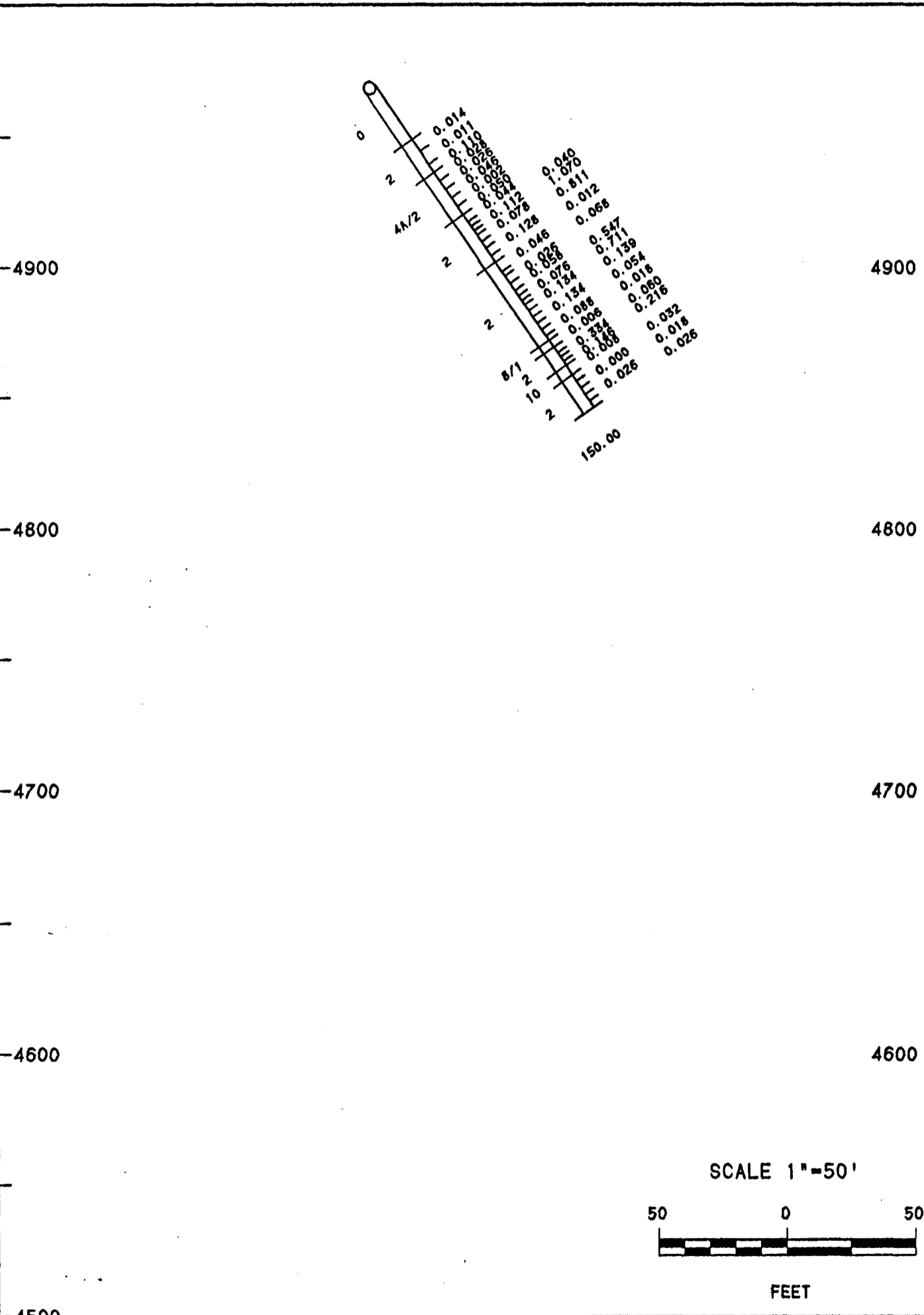
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			7409	85.0	90.0	5.0	0.004	n/a
			7410	90.0	95.0	5.0	0.000	n/a
			7411	95.0	99.5	4.5	0.000	n/a
			7412	99.5	100.7	1.2	0.026	n/a
			7413	100.7	104.0	3.3	0.000	n/a
			7414	104.0	108.0	4.0	0.000	n/a
			7415	108.0	112.0	4.0	0.000	n/a
			7416	112.0	117.0	5.0	0.000	n/a
			7417	117.0	122.0	5.0	0.000	n/a
			7418	122.0	127.0	5.0	0.000	n/a

86-66

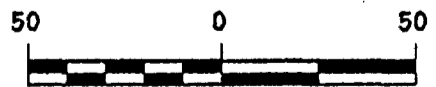
1051.00N
3715.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCE

MIRADO PROJECT

SECTION VIEW
HOLE 86-66

E 3715
N 1051

AZIMUTH 256
DIP -55

Scale 1" = 50'

Coords: 1051.0N 3715.0E

HOLE NO.: 86-66

Azimuth: 256.0

Mirado Project

Dip: -55.0

Elevation: 4968.0

Length: 150.0

Dip Tests

150.00 256.0 -56.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	25.5	OVERBURDEN (0)						
25.5	40.6	PYROCLASTIC CONGLOMERATE (2)	5340	25.5	31.0	5.5	0.014	n/a
			5341	31.0	37.0	6.0	0.010	n/a
			5342	37.0	40.6	3.6	0.110	n/a
40.6	60.5	INTERMEDIATE TUFF +/- LAPILLI WITH PYROCLASTS (4A/2)	5343	40.6	44.5	3.9	0.028	n/a
			5344	44.5	48.5	4.0	0.026	n/a
			5345	48.5	52.5	4.0	0.046	n/a
			5346	52.5	56.5	4.0	0.002	n/a
			5347	56.5	60.5	4.0	0.050	n/a
60.5	82.5	PYROCLASTIC CONGLOMERATE (2)	5348	60.5	63.9	3.4	0.044	n/a
			5349	63.9	66.0	2.1	0.040	n/a
			5350	66.0	68.0	2.0	0.112	n/a
			5351	68.0	70.0	2.0	1.070	n/a
			5352	70.0	73.1	3.1	0.078	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			5353	73.1	76.0	2.9	0.811	n/a
			5354	76.0	79.5	3.5	0.128	n/a
			5355	79.5	82.5	3.0	0.012	n/a
82.5	119.1	PYROCLASTIC CONGLOMERATE (2)						
			5356	82.5	87.0	4.5	0.046	n/a
			5357	87.0	89.0	2.0	0.068	n/a
			5358	89.0	92.5	3.5	0.026	n/a
			5359	92.5	95.8	3.3	0.058	n/a
			5360	95.8	98.2	2.4	0.547	n/a
			5361	98.2	100.4	2.2	0.076	n/a
			5362	100.4	102.3	1.9	0.711	n/a
			5363	102.3	105.0	2.7	0.134	n/a
			5364	105.0	108.0	3.0	0.139	n/a
			5365	108.0	111.0	3.0	0.134	n/a
			5366	111.0	114.0	3.0	0.054	n/a
			5367	114.0	117.0	3.0	0.088	n/a
			5368	117.0	119.1	2.1	0.018	n/a
119.1	122.4	METADIORITE/ANDESITE/DACITE (8/1)						
			5369	119.1	122.4	3.3	0.006	n/a
122.4	130.9	PYROCLASTIC CONGLOMERATE (2)						
			5370	122.4	125.0	2.6	0.060	n/a
			5371	125.0	127.0	2.0	0.334	n/a
			5372	127.0	129.0	2.0	0.216	n/a
			5373	129.0	130.9	1.9	0.146	n/a
130.9	135.2	SYENITE (10)						
			5374	130.9	135.2	4.3	0.008	n/a
135.2	150.0	PYROCLASTIC CONGLOMERATE (2)						
			5375	135.2	138.0	2.8	0.032	n/a
			5376	138.0	141.0	3.0	0.000	n/a
			5377	141.0	144.0	3.0	0.018	n/a
			5378	144.0	147.0	3.0	0.026	n/a

Golden Shield Resources Ltd.

Page: 3

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			5379	147.0	150.0	3.0	0.026	n/a

Coords: 1178.0N 3593.0E

HOLE NO.: 86-67

Azimuth: 256.0

Mirado Project

Dip: -55.0

Elevation: 4974.0

Length: 117.0

Dip Tests

117.00 256.0 -48.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	7.0	OVERBURDEN (0)						
7.0	117.0	PYROCLASTIC CONGLOMERATE (2)						
			5312	7.0	12.0	5.0	0.002	n/a
			5313	12.0	17.0	5.0	0.002	n/a
			5314	17.0	22.0	5.0	0.000	n/a
			5315	22.0	26.0	4.0	0.012	n/a
			5316	26.0	29.0	3.0	0.088	n/a
			5317	29.0	32.1	3.1	0.310	n/a
			5318	32.1	35.0	2.9	0.477	n/a
			5319	35.0	40.0	5.0	0.731	n/a
			5320	40.0	45.0	5.0	0.010	n/a
			5321	45.0	49.0	4.0	0.010	n/a
			5322	49.0	52.0	3.0	0.000	n/a
			5323	52.0	55.0	3.0	0.072	n/a
			5324	55.0	58.0	3.0	0.572	n/a
			5325	58.0	61.0	3.0	0.064	n/a
			5326	61.0	64.0	3.0	0.000	n/a
			5327	64.0	69.0	5.0	0.002	n/a
			5328	69.0	74.0	5.0	0.032	n/a
			5329	74.0	79.0	5.0	0.002	n/a
			5330	79.0	84.0	5.0	0.002	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			5331	84.0	85.5	1.5	0.052	n/a
			5332	85.5	89.0	3.5	0.000	n/a
			5333	89.0	94.0	5.0	0.000	n/a
			5334	94.0	99.0	5.0	0.000	n/a
			5335	99.0	104.0	5.0	0.000	n/a
			5336	104.0	108.0	4.0	0.000	n/a
			5337	108.0	110.7	2.7	0.002	n/a
			5338	110.7	112.9	2.2	0.002	n/a
			5339	112.9	117.0	4.1	0.000	n/a

Coords: 1110.0N 3619.0E

HOLE NO.: 86-68

Azimuth: 256.0

Mirado Project

Dip: -55.0

Elevation: 4972.0

Length: 127.0

Dip Tests

127.00 256.0 -55.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	19.5	OVERBURDEN (0)						
19.5	61.0	ANDESITE / DACITE (1)						
			5380	27.0	32.0	5.0	0.024	n/a
			5381	32.0	37.0	5.0	0.002	n/a
			5382	37.0	39.5	2.5	0.899	n/a
			5383	39.5	42.0	2.5	0.000	n/a
			5384	42.0	47.0	5.0	0.000	n/a
			5385	47.0	52.0	5.0	0.030	n/a
			5386	52.0	57.0	5.0	0.000	n/a
			5387	57.0	62.0	5.0	0.070	n/a
61.0	117.5	PYROCLASTIC CONGLOMERATE (2)						
			5388	62.0	67.0	5.0	0.060	n/a
			5389	67.0	72.0	5.0	0.060	n/a
			5390	72.0	77.0	5.0	0.229	n/a
			5391	77.0	82.0	5.0	0.010	n/a
			5392	82.0	87.0	5.0	0.002	n/a
			5393	87.0	91.0	4.0	0.002	n/a
			5394	91.0	93.0	2.0	0.123	n/a
			5395	93.0	97.3	4.3	0.002	n/a

Golden Shield Resources Ltd.

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			5396	97.3	102.0	4.7	0.002	n/a
			5397	102.0	107.0	5.0	0.002	n/a
			5398	107.0	110.2	3.2	0.000	n/a
			5399	110.2	112.5	2.3	0.000	n/a
			5400	112.5	117.5	5.0	0.000	n/a
117.5	120.5	SYENITE (10)						
120.5	127.0	PYROCLASTIC CONGLOMERATE (2)						

86-69

995.00N
3309.00E



PLAN VIEW

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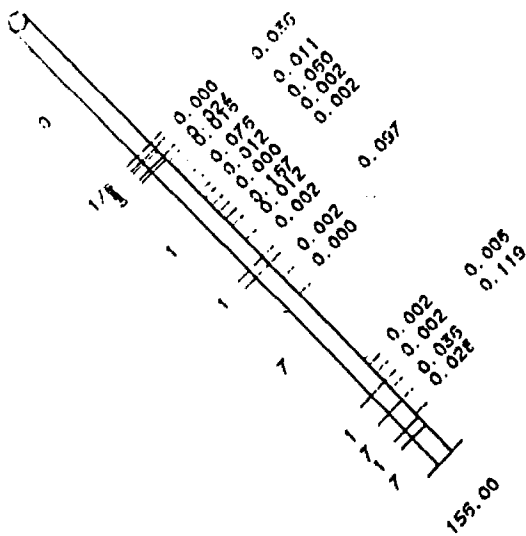
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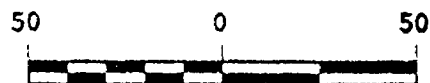
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SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-69	
E 3309	AZIMUTH 76
N 995	DIP -45
Scale 1" = 50'	

Golden Shield Resources Ltd.

Page: 1

Coords: 995.0N 3309.0E

HOLE NO.: 86-69

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4963.0

Length: 156.0

Dip Tests

156.00 76.0 -45.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	46.0	OVERBURDEN (0)						
46.0	47.7	ANDESITE / DACITE / METADIORITE (1/8)	43976	46.0	47.7	1.7	0.000	n/a
47.7	48.5	FELSIC TUFF (3)	43977	47.7	50.7	3.0	0.036	n/a
48.5	50.7	ANDESITE / DACITE (1)						
50.7	51.7	FELSIC TUFF (3)	43978	50.7	52.7	2.0	0.024	n/a
51.7	87.0	ANDESITE / DACITE (1)	43979	52.7	56.0	3.3	0.016	n/a
			43980	56.0	59.0	3.0	0.010	n/a
			43981	59.0	61.5	2.5	0.076	n/a
			43982	61.5	64.0	2.5	0.060	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			43983	64.0	66.0	2.0	0.012	n/a
			43984	66.0	68.5	2.5	0.002	n/a
			43985	68.5	71.0	2.5	0.000	n/a
			43986	71.0	73.5	2.5	0.002	n/a
			43987	73.5	76.0	2.5	0.167	n/a
			43988	76.0	81.0	5.0	0.012	n/a
			43989	81.0	87.0	6.0	0.002	n/a
87.0	89.5	ANDESITE / DACITE (1)						
			43990	87.0	89.5	2.5	0.097	n/a
89.5	131.5	QUARTZ-FELDSPAR PORPHYRY (7)						
			43991	89.5	94.5	5.0	0.002	n/a
			43992	94.5	100.5	6.0	0.000	n/a
			43993	123.7	125.7	2.0	0.002	n/a
			43994	125.7	128.5	2.8	0.006	n/a
			43995	128.5	131.5	3.0	0.002	n/a
131.5	137.8	ANDESITE / DACITE (1)						
			43998	131.5	134.0	2.5	0.119	n/a
			43999	134.0	137.8	3.8	0.036	n/a
137.8	143.8	QUARTZ-FELDSPAR PORPHYRY (7)						
			44000	137.8	142.8	5.0	0.028	n/a
143.8	146.5	ANDESITE / DACITE (1)						
146.5	156.0	QUARTZ-FELDSPAR PORPHYRY (7)						

86-70

940.00N
3258.00E



PLAN VIEW

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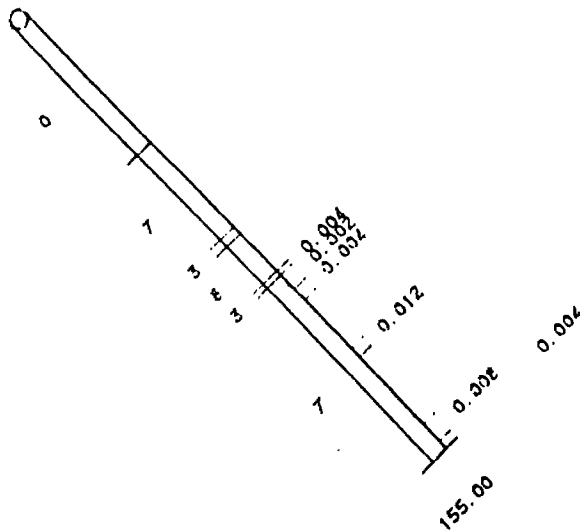
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SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE 86-70

E 3258
N 940

AZIMUTH 76
DIP -45

Scale 1" = 50'

Golden Shield Resources Ltd.

Page: 1

Coords: 940.0N 3258.0E

HOLE NO.: 86-70

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4959.0

Length: 155.0

Dip Tests

155.00 76.0 -46.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	46.0	OVERBURDEN (0)						
46.0	76.5	QUARTZ-FELDSPAR PORPHYRY (7)						
76.5	79.0	FELSIC TUFF (3)						
79.0	92.5	METADIORITE (8)						
92.5	94.0	FELSIC TUFF (3)	43507	92.5	94.0	1.5	0.004	n/a
94.0	155.0	QUARTZ-FELDSPAR PORPHYRY (7)	43508	94.0	99.0	5.0	0.002	n/a
			43509	99.0	102.8	3.8	0.004	n/a
			43511	120.0	123.0	3.0	0.012	n/a
			43512	146.5	152.5	6.0	0.008	n/a
			43513	152.5	155.0	2.5	0.004	n/a

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86-71

948.00N
3296.00E



PLAN VIEW

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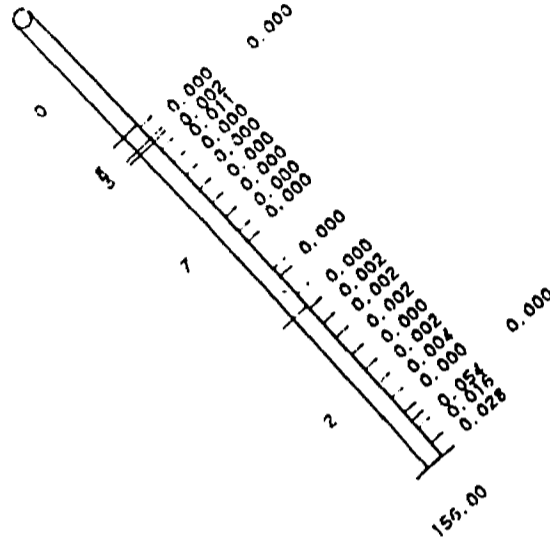
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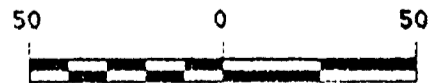
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SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-71	
E 3296	AZIMUTH 76
N 948	DIP -45
Scale 1" = 50'	

Coords: 948.0N 3296.0E

HOLE NO.: 86-71

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4960.0

Length: 156.0

Dip Tests

156.00 76.0 -49.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	40.0	OVERBURDEN (0)						
40.0	44.9	METADIORITE (8)	43514	41.0	44.9	3.9	0.000	n/a
44.9	46.2	FELSIC TUFF (3)	43515	44.9	46.2	1.3	0.000	n/a
46.2	104.0	QUARTZ-FELDSPAR PORPHYRY (7)	43516	46.2	48.9	2.7	0.002	n/a
			43517	48.9	53.5	4.6	0.010	n/a
			43518	53.5	58.0	4.5	0.000	n/a
			43519	58.0	63.0	5.0	0.000	n/a
			43520	63.0	67.8	4.8	0.000	n/a
			43521	67.8	72.8	5.0	0.000	n/a
			43522	72.8	77.8	5.0	0.000	n/a
			43523	77.8	81.5	3.7	0.000	n/a
			43524	91.0	93.8	2.8	0.000	n/a
			43525	100.0	105.0	5.0	0.000	n/a

Coords: 850.0N 3212.0E

HOLE NO.: 86-72

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4957.0

Length: 156.0

Dip Tests

156.00 76.0 -44.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	54.0	OVERBURDEN (0)						
54.0	55.5	METADIORITE (8)						
55.5	140.5	PYROCLASTIC CONGLOMERATE (2)						
			43537	55.5	58.0	2.5	0.000	n/a
			43538	58.0	63.0	5.0	0.000	n/a
			43539	63.0	66.0	3.0	0.000	n/a
			43540	66.0	67.5	1.5	0.068	n/a
			43541	67.5	72.5	5.0	0.004	n/a
			43542	72.5	77.5	5.0	0.000	n/a
			43543	77.5	82.5	5.0	0.000	n/a
			43544	82.5	87.5	5.0	0.000	n/a
			43545	87.5	92.5	5.0	0.008	n/a
			43546	92.5	97.5	5.0	0.002	n/a
			43547	97.5	102.5	5.0	0.002	n/a
			43548	102.5	107.0	4.5	0.032	n/a
			43549	107.0	112.0	5.0	0.016	n/a
			43550	112.0	116.0	4.0	0.020	n/a
			43701	116.0	118.5	2.5	0.004	n/a
			43702	118.5	123.5	5.0	0.000	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
104.0	156.0	PYROCLASTIC CONGLOMERATE (2)						
			43526	105.0	110.0	5.0	0.002	n/a
			43527	110.0	115.0	5.0	0.002	n/a
			43528	115.0	121.0	6.0	0.002	n/a
			43529	121.0	126.0	5.0	0.000	n/a
			43530	126.0	131.0	5.0	0.002	n/a
			43531	131.0	136.0	5.0	0.004	n/a
			43532	136.0	141.0	5.0	0.000	n/a
			43533	141.0	144.0	3.0	0.000	n/a
			43534	144.0	146.5	2.5	0.054	n/a
			43535	146.5	151.5	5.0	0.016	n/a
			43536	151.5	156.0	4.5	0.028	n/a

Coords: 874.0N 3318.0E

HOLE NO.: 86-73

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4959.0

Length: 155.5

Dip Tests

155.50 76.0 -45.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	50.0	OVERBURDEN (0)						
50.0	51.0	ANDESITE / DACITE / METADIORITE (1/8)	43707	50.0	51.0	1.0	n/a	n/a
51.0	155.5	PYROCLASTIC CONGLOMERATE (2)	43708	56.0	61.0	5.0	0.000	n/a
			43709	61.0	66.0	5.0	0.002	n/a
			43710	66.0	71.0	5.0	0.000	n/a
			43711	71.0	76.0	5.0	0.000	n/a
			43712	76.0	81.0	5.0	0.000	n/a
			43713	81.0	86.0	5.0	0.082	n/a
			43714	86.0	91.0	5.0	0.000	n/a
			43715	91.0	96.0	5.0	0.000	n/a
			43716	96.0	98.5	2.5	0.008	n/a
			43717	98.5	101.0	2.5	0.036	n/a
			43718	101.0	103.5	2.5	0.004	n/a
			43719	103.5	106.0	2.5	0.208	n/a
			43720	106.0	111.0	5.0	0.044	n/a
			43721	111.0	113.5	2.5	0.004	n/a
			43722	113.5	116.0	2.5	0.014	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			43703	123.5	128.5	5.0	0.000	n/a
			43704	128.5	133.5	5.0	0.000	n/a
			43705	133.5	138.5	5.0	0.000	n/a
			43706	138.5	140.5	2.0	0.002	n/a
140.5	150.5	METADIORITE (8)						
150.5	156.0	PYROCLASTIC CONGLOMERATE (2)						

86-74

827.00N
3319.00E



PLAN VIEW

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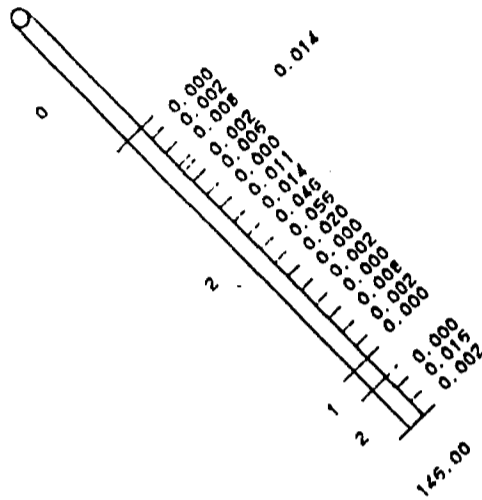
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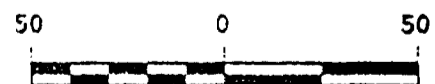
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SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW

HOLE 86-74

E 3319
N 827

AZIMUTH 76
DIP -45

Scale 1" = 50'

Coords: 827.0N 3319.0E

HOLE NO.: 86-74

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4957.0

Length: 146.0

Dip Tests

146.00 76.0 -46.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	42.0	OVERBURDEN (0)						
42.0	125.2	PYROCLASTIC CONGLOMERATE (2)						
			43731	42.0	46.0	4.0	0.000	n/a
			43732	46.0	51.0	5.0	0.002	n/a
			43733	51.0	55.6	4.6	0.008	n/a
			43734	55.6	57.5	1.9	0.014	n/a
			43735	57.5	61.0	3.5	0.002	n/a
			43736	61.0	66.0	5.0	0.006	n/a
			43737	66.0	71.0	5.0	0.000	n/a
			43738	71.0	76.0	5.0	0.010	n/a
			43739	76.0	81.0	5.0	0.014	n/a
			43740	81.0	86.0	5.0	0.046	n/a
			43741	86.0	91.0	5.0	0.056	n/a
			43742	91.0	96.0	5.0	0.020	n/a
			43743	96.0	101.0	5.0	0.000	n/a
			43744	101.0	106.0	5.0	0.002	n/a
			43745	106.0	111.0	5.0	0.000	n/a
			43746	111.0	116.0	5.0	0.008	n/a
			43747	116.0	121.0	5.0	0.002	n/a
			43748	121.0	125.2	4.2	0.000	n/a

Golden Shield Resources Ltd.

Page: 2

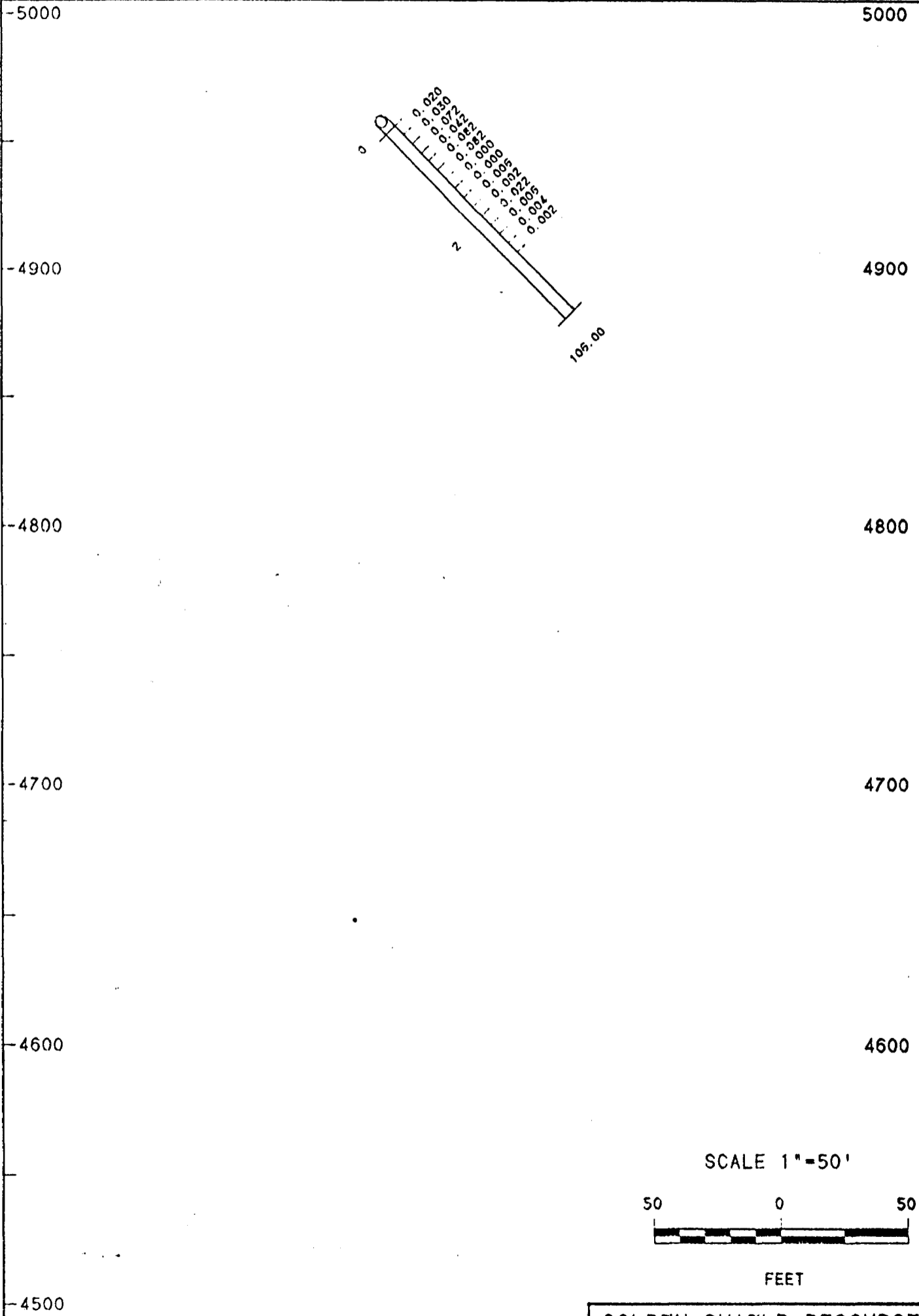
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			43723	116.0	121.0	5.0	0.012	n/a
			43724	121.0	126.0	5.0	0.000	n/a
			43725	126.0	131.0	5.0	0.000	n/a
			43726	131.0	136.0	5.0	0.080	n/a
			43727	136.0	141.0	5.0	0.090	n/a
			43728	141.0	146.0	5.0	0.088	n/a
			43729	146.0	151.0	5.0	0.002	n/a
			43730	151.0	155.5	4.5	0.000	n/a

86-75

1153.00N
3585.00E



PLAN VIEW



GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-75	
E 3585	AZIMUTH 256
N 1153	DIP -45
Scale 1" = 50'	

Coords: 1153.0N 3585.0E

HOLE NO.: 86-75

Azimuth: 256.0

Mirado Project

Dip: -45.0

Elevation: 4957.0

Length: 106.0

Dip Tests

106.00 256.0 -46.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	5.0	OVERBURDEN (0)						
5.0	106.0	PYROCLASTIC CONGLOMERATE (2)						
			43752	5.0	10.0	5.0	0.020	n/a
			43753	10.0	15.0	5.0	0.030	n/a
			43754	15.0	20.0	5.0	0.072	n/a
			43755	20.0	24.0	4.0	0.042	n/a
			43756	24.0	29.0	5.0	0.082	n/a
			43757	29.0	34.0	5.0	0.082	n/a
			43758	34.0	39.0	5.0	0.000	n/a
			43759	39.0	44.0	5.0	0.000	n/a
			43760	44.0	49.0	5.0	0.006	n/a
			43761	49.0	54.0	5.0	0.002	n/a
			43762	54.0	59.0	5.0	0.022	n/a
			43763	59.0	64.0	5.0	0.006	n/a
			43764	64.0	69.0	5.0	0.004	n/a
			43765	69.0	74.0	5.0	0.002	n/a

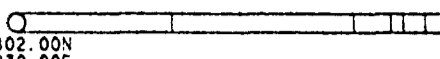
Golden Shield Resources Ltd.

Page: 2

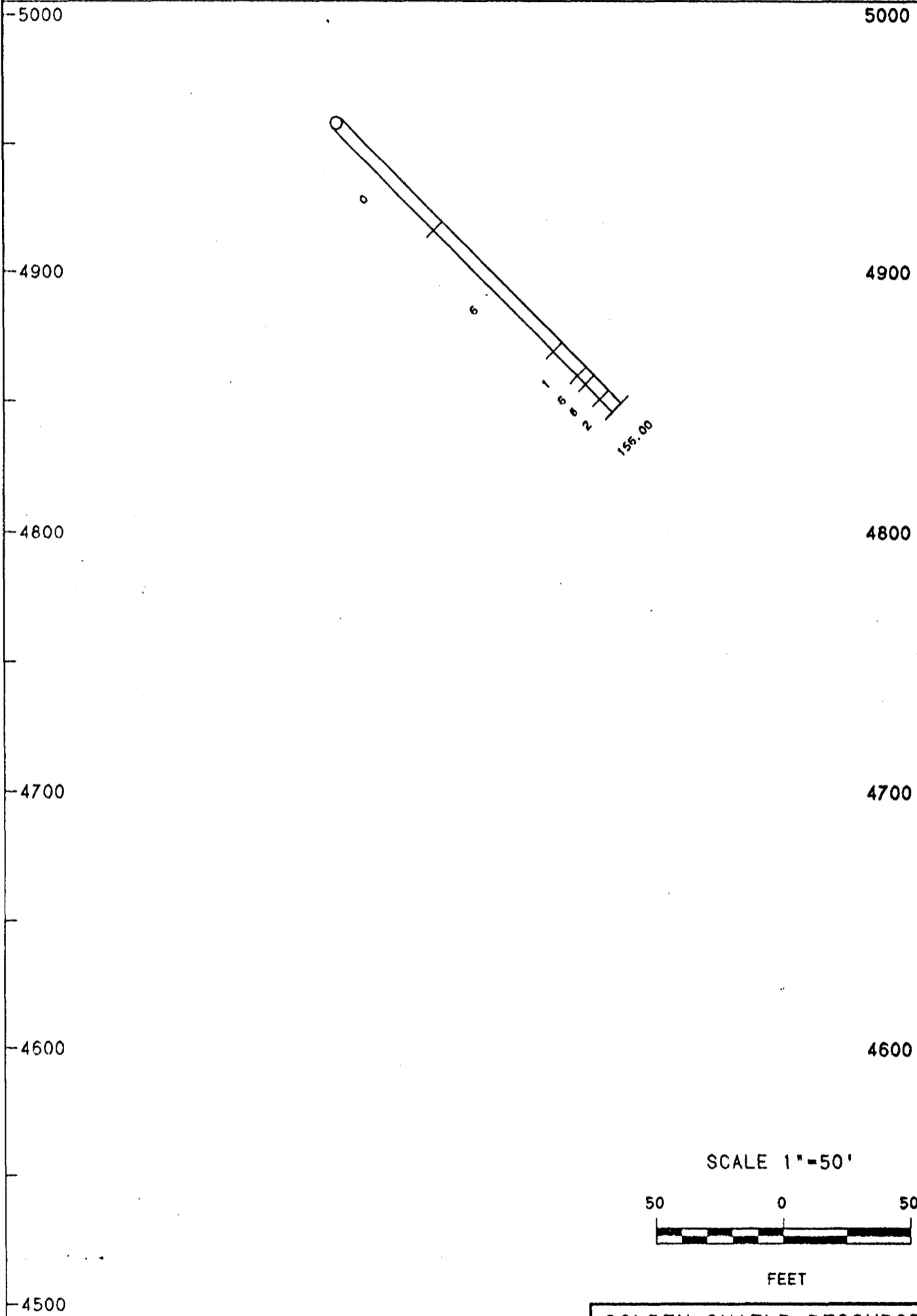
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
125.2	132.0	ANDESITE / DACITE (1)						
132.0	146.0	PYROCLASTIC CONGLOMERATE (2)						
			43749	132.0	136.0	4.0	0.000	n/a
			43750	136.0	141.0	5.0	0.016	n/a
			43751	141.0	146.0	5.0	0.002	n/a

86-76

802.00N
3230.00E



PLAN VIEW



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCE

MIRADO PROJECT

SECTION VIEW
HOLE 86-76

E 3230
N 802

AZIMUTH 76
DIP -45

Scale 1" = 50'

Coords: 802.0N 3230.0E

HOLE NO.: 86-76

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4957.0

Length: 156.0

Dip Tests

156.00 76.0 -45.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	56.5	OVERBURDEN (0)						
56.5	123.0	RHYOLITE (+/- MASSIVE) (6)						
123.0	136.5	ANDESITE / DACITE (1)						
136.5	141.0	RHYOLITE (+/- MASSIVE) (6)						
141.0	149.0	METADIORITE (8)						
149.0	156.0	PYROCLASTIC CONGLOMERATE (2)						

Golden Shield Resources Ltd.

HOLE NO.: 86-77

Page: 1

Coords: 581.0N 3197.0E

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4954.0

Length: 156.0

Rip Tests

156.00 76.0 -48.0

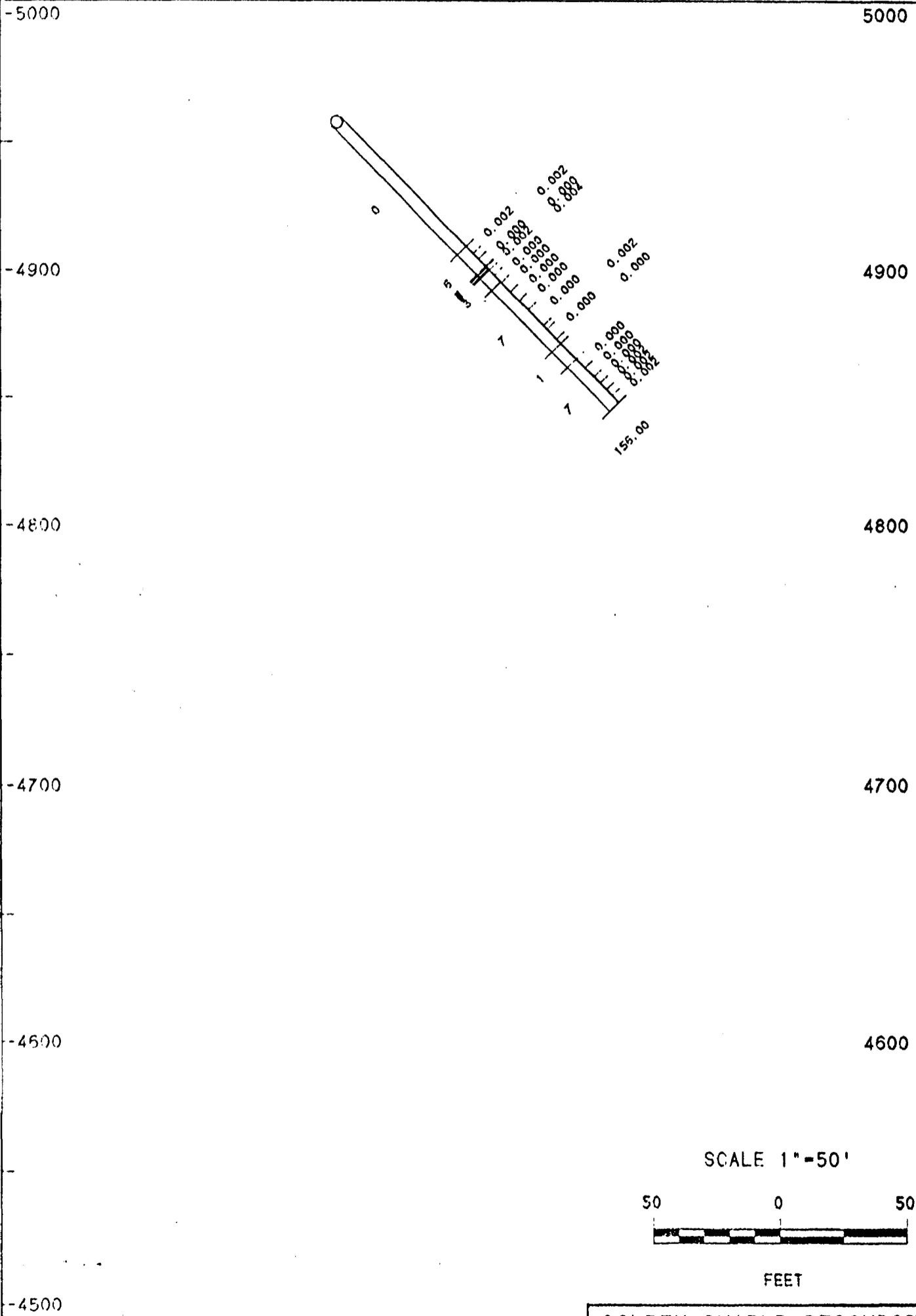
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	76.0	OVERBURDEN (0)						
76.0	76.2	QUARTZ-FELDSPAR PORPHYRY (7)						
76.2	90.0	ANDESITE / DACITE (1)						
90.0	108.0	QUARTZ-FELDSPAR PORPHYRY (7)						
			43101	103.0	105.5	2.5	0.016	n/a
			43102	105.5	108.0	2.5	0.002	n/a
108.0	111.7	ANDESITE / DACITE (1)						
111.7	156.0	QUARTZ-FELDSPAR PORPHYRY (7)						
			43103	111.7	114.3	2.6	0.000	n/a
			43104	114.3	116.3	2.0	0.050	n/a
			43105	116.3	121.3	5.0	0.000	n/a
			43106	121.3	126.0	4.7	0.002	n/a
			43107	126.0	131.0	5.0	0.008	n/a

86-78

571.00H
3150.00E



PLAN VIEW



GOLDEN SHIELD RESOURCE	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-78	
E 3150	AZIMUTH 76
N 571	DIP -45
Scale 1" = 50'	

Coords: 571.0N 3150.0E

HOLE NO.: 86-78

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4957.0

Length: 156.0

Dip Tests

156.00 76.0 -46.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	70.0	OVERBURDEN (0)						
70.0	81.0	RHYOLITE (+/- MASSIVE) (6)	43113	70.0	74.0	4.0	0.002	n/a
			43114	74.0	77.0	3.0	0.002	n/a
			43115	77.0	81.0	4.0	0.000	n/a
81.0	81.6	METADIORITE (8)	43116	81.0	81.6	0.6	0.000	n/a
81.6	82.5	FELSIC TUFF (3)	43117	81.6	83.2	1.6	0.002	n/a
82.5	83.2	METADIORITE (8)						
83.2	89.5	FELSIC TUFF (3)	43118	83.2	86.0	2.8	0.004	n/a
			43119	86.0	90.0	4.0	0.000	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
89.5	123.3	QUARTZ-FELDSPAR PORPHYRY (7)						
			43120	90.0	95.0	5.0	0.000	n/a
			43121	95.0	100.0	5.0	0.000	n/a
			43122	100.0	105.0	5.0	0.000	n/a
			43123	105.0	113.6	8.6	0.000	n/a
			43124	113.6	115.6	2.0	0.002	n/a
			43125	115.6	121.0	5.4	0.000	n/a
			436	121.0	123.3	2.3	0.000	n/a
123.3	132.0	ANDESITE / DACITE (1)						
132.0	156.0	QUARTZ-FELDSPAR PORPHYRY (7)						
			43127	132.0	137.0	5.0	0.000	n/a
			43128	137.0	142.0	5.0	0.000	n/a
			43129	142.0	145.5	3.5	0.000	n/a
			43130	145.5	149.0	3.5	0.002	n/a
			43131	149.0	152.3	3.3	0.002	n/a
			43132	152.3	156.0	3.7	0.002	n/a

Golden Shield Resources Ltd.

Page: 1

Coords: 617.0N 3128.0E

HOLE NO.: 86-79

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4954.0

Length: 186.0

Dip Tests

186.00 76.0 -48.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	76.0	OVERBURDEN (0)						
76.0	186.0	RHYOLITE (+/- MASSIVE) (6)						
			43133	77.0	81.0	4.0	0.008	n/a
			43134	81.0	86.0	5.0	0.034	n/a
			43135	86.0	91.0	5.0	0.032	n/a
			43136	91.0	96.0	5.0	0.012	n/a
			43137	96.0	101.0	5.0	0.086	n/a
			43138	101.0	106.0	5.0	0.138	n/a
			43139	106.0	111.0	5.0	0.130	n/a
			43140	111.0	116.0	5.0	0.488	n/a
			43141	116.0	118.5	2.5	0.210	n/a
			43142	118.5	121.0	2.5	0.076	n/a
			43143	121.0	123.5	2.5	0.036	n/a
			43144	123.5	126.0	2.5	0.002	n/a
			43145	126.0	131.0	5.0	0.000	n/a
			43146	131.0	136.0	5.0	0.002	n/a
			43147	136.0	141.0	5.0	0.000	n/a
			43148	141.0	146.0	5.0	0.000	n/a
			43149	146.0	151.0	5.0	0.000	n/a
			43150	151.0	156.0	5.0	0.038	n/a
			43151	156.0	161.0	5.0	0.000	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
			43152	161.0	166.0	5.0	0.000	n/a
			43153	166.0	171.0	5.0	0.002	n/a
			43154	171.0	176.0	5.0	0.002	n/a
			43155	176.0	180.0	4.0	0.002	n/a
			43156	180.0	183.0	3.0	0.002	n/a
			43157	183.0	186.0	3.0	0.002	n/a

Coords: 678.0N 3167.0E

HOLE NO.: 86-80

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4955.0

Length: 155.0

Dip Tests

155.00 76.0 -47.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	65.5	OVERBURDEN (0)						
65.5	71.0	RHYOLITE (+/- MASSIVE) (6)						
			43158	65.5	68.0	2.5	0.000	n/a
			43159	68.0	71.0	3.0	0.012	n/a
71.0	85.6	ANDESITE / DACITE (1)						
			43160	71.0	75.0	4.0	0.000	n/a
85.6	90.0	ANDESITE / DACITE (1)						
			43161	85.6	90.0	4.4	0.002	n/a
90.0	93.6	ANDESITE / DACITE (1)						
93.6	97.0	ANDESITE / DACITE (1)						
			43162	93.6	97.0	3.4	0.002	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
97.0	106.0	ANDESITE / DACITE (1)						
106.0	120.0	RHYOLITE (+/- MASSIVE) (6)						
			43163	106.0	111.0	5.0	0.000	n/a
			43164	111.0	115.0	4.0	0.010	n/a
			43165	115.0	117.5	2.5	0.032	n/a
			43166	117.5	120.0	2.5	0.022	n/a
120.0	155.0	PYROCLASTIC CONGLOMERATE (2)						
			43167	120.0	122.5	2.5	0.006	n/a
			43168	122.5	125.0	2.5	0.032	n/a
			43169	125.0	127.5	2.5	0.022	n/a
			43170	127.5	130.0	2.5	0.010	n/a
			43171	130.0	132.5	2.5	0.016	n/a
			43172	132.5	134.5	2.0	0.002	n/a
			43173	134.5	139.5	5.0	0.002	n/a
			43174	139.5	144.5	5.0	0.002	n/a
			43175	144.5	149.5	5.0	0.006	n/a
			43176	149.5	155.0	5.5	0.002	n/a

86-81

534.00N
3220.00E



PLAN VIEW

-5000

5000

-4900

4900

-4800

4800

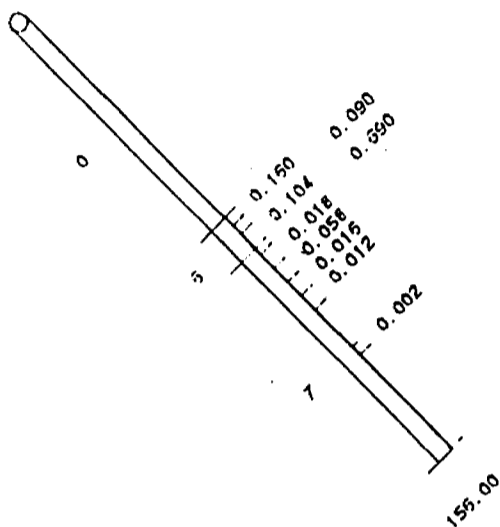
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4700

-4600

4600

-4500



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-81	
E 3220	AZIMUTH 76
N 534	DIP -45
Scale 1" = 50'	

Coords: 732.0N 3239.0E

Golden Shield Resources Ltd.

HOLE NO.: 96-82

Page: 1

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4955.0

Length: 166.0

Dip Tests

166.00 76.0 -47.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	63.0	OVERBURDEN (0)						
63.0	64.5	RHYOLITE (+/- MASSIVE) (6)	43186	63.0	64.5	1.5	0.002	n/a
64.5	66.0	ANDESITE / DACITE (1)	43187	64.5	66.0	1.5	0.002	n/a
66.0	107.8	RHYOLITE (+/- MASSIVE) (6)	43188	66.0	71.0	5.0	0.002	n/a
			43189	71.0	76.0	5.0	0.002	n/a
			43190	76.0	81.0	5.0	0.000	n/a
			43191	81.0	86.0	5.0	0.000	n/a
			43192	86.0	91.0	5.0	0.000	n/a
			43193	91.0	96.0	5.0	0.000	n/a
			43194	96.0	98.0	2.0	0.000	n/a
			43195	98.0	100.5	2.5	0.000	n/a
			43196	100.5	103.0	2.5	0.000	n/a
			43197	103.0	105.5	2.5	0.000	n/a
			43198	105.5	107.8	2.3	0.000	n/a

Golden Shield Resources Ltd.

Page: 2

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
107.8	118.0	METADIORITE (8)						
118.0	166.0	PYROCLASTIC CONGLOMERATE (2)						
			43199	118.0	123.0	5.0	0.002	n/a
			43200	123.0	128.0	5.0	0.002	n/a
			43201	128.0	133.0	5.0	0.000	n/a
			43202	133.0	138.0	5.0	0.018	n/a
			43203	138.0	141.5	3.5	0.036	n/a
			43204	141.5	144.0	2.5	0.038	n/a
			43205	144.0	146.0	2.0	0.024	n/a
			43206	146.0	148.5	2.5	n/a	n/a
			43207	148.5	151.0	2.5	0.000	n/a
			43208	151.0	154.0	3.0	0.002	n/a
			43209	154.0	158.0	4.0	0.010	n/a
			43210	158.0	163.0	5.0	0.046	n/a
			43211	163.0	166.0	3.0	0.000	n/a

86-83

784.00N
3244.00E



PLAN VIEW

5000

5000

4900

4900

4800

4800

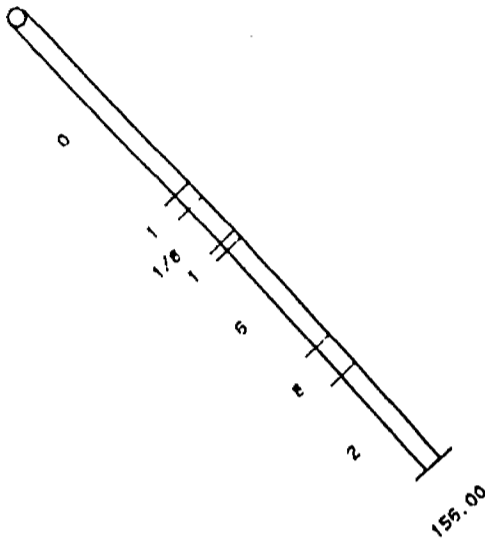
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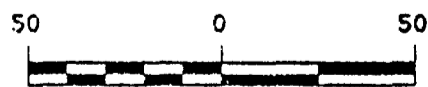
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4600

4500



SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE 86-83

E 3244
N 784

AZIMUTH 76
DIP -45

Scale 1" = 50'

Coords: 784.0N 3244.0E

HOLE NO.: 86-83

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4956.0

Length: 156.0

Dip Tests

156.00 76.0 -48.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	61.0	OVERBURDEN (0)						
61.0	66.0	ANDESITE / DACITE (1)						
66.0	77.7	ANDESITE / DACITE / METADIORITE (1/8)						
77.7	80.2	ANDESITE / DACITE (1)						
80.2	113.8	RHYOLITE (+/- MASSIVE) (6)						
113.8	123.5	METADIORITE (8) Overburden - boulders Sil./sericitized section with minor talc flecs , minor carbonate stringers. Chloritic and felsic 'patches' (amygdules) 3-5% fine disseminated pyrite lower contact Slightly carbonated fine grained dark green matrix becoming a little coarser in the middle of the section, suggesting dyke origin sharp upper contact Like 61.0 to 66.0 ; 5-7% fine - medium						

from (ft)	to (ft)	Description	Sample No.	from (ft)	to length (ft) (ft)	Au oz	Check oz
		pyrite lower contact Subtle difference between altered dacite/and altered rhyolite a hard sil. Light green/grey matrix, chloritized, blotchy appearance 3-5% pyrite - @ 89.0 to 89.5 atz/carb pinch and swell sub-parallel seams 0.2 ins wide with 8-10% fine pyrite. @ 99.0 to 99.8 chert and chlorite bands; alternating narrow bands of 0.1 ins wide lower contact Possible altered syenite dyke (10); medium green matrix with horne					
123.5	156.0	PYROCLASTIC CONGLOMERATE (2)					

86-84

900.00N
3228.00E



PLAN VIEW

-5000 5000

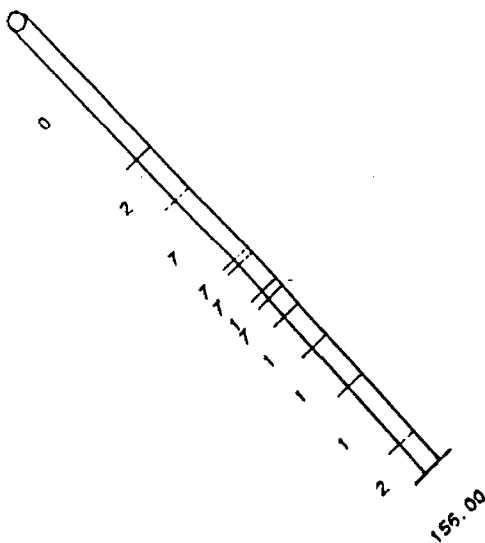
-4900 4900

-4800 4800

-4700 4700

-4600 4600

-4500



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCES

MIRADO PROJECT

SECTION VIEW
HOLE 86-84

E 3228
N 900

AZIMUTH 76
DIP -45

Scale 1" = 50'

Coords: 900.0N 3228.0E

HOLE NO.: 86-84

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4958.0

Length: 156.0

Dip Tests

156.00 76.0 -48.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	46.5	OVERBURDEN (0)						
46.5	61.0	PYROCLASTIC CONGLOMERATE (2)						
61.0	82.7	QUARTZ-FELDSPAR PORPHYRY (7)						
82.7	84.5	QUARTZ-FELDSPAR PORPHYRY (7)						
84.5	93.5	QUARTZ-FELDSPAR PORPHYRY (7)						
93.5	96.0	ANDESITE / DACITE (1)						
96.0	102.0	QUARTZ-FELDSPAR PORPHYRY (7)						
102.0	112.8	ANDESITE / DACITE (1)						

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
112.8	126.3	ANDESITE / DACITE (1)						
126.3	146.0	ANDESITE / DACITE (1)						
146.0	156.0	PYROCLASTIC CONGLOMERATE (2)						

86-85

844.00N
3306.00E



PLAN VIEW

-5000

5000

-4900

4900

-4800

4800

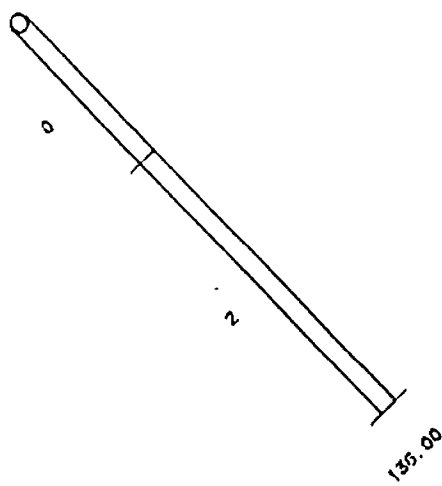
-4700

4700

-4600

4600

-4500



SCALE 1"=50'



FEET

GOLDEN SHIELD RESOURCE	
MIRADO PROJECT	
SECTION VIEW	
HOLE 86-85	
E 3306	AZIMUTH 76
N 844	DIP -45
Scale 1" = 50'	

Golden Shield Resources Ltd.

Page: 1

Coords: 844.0N 3306.0E

HOLE NO.: 86-85

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4957.0

Length: 136.0

Dip Tests

136.00 76.0 -46.0

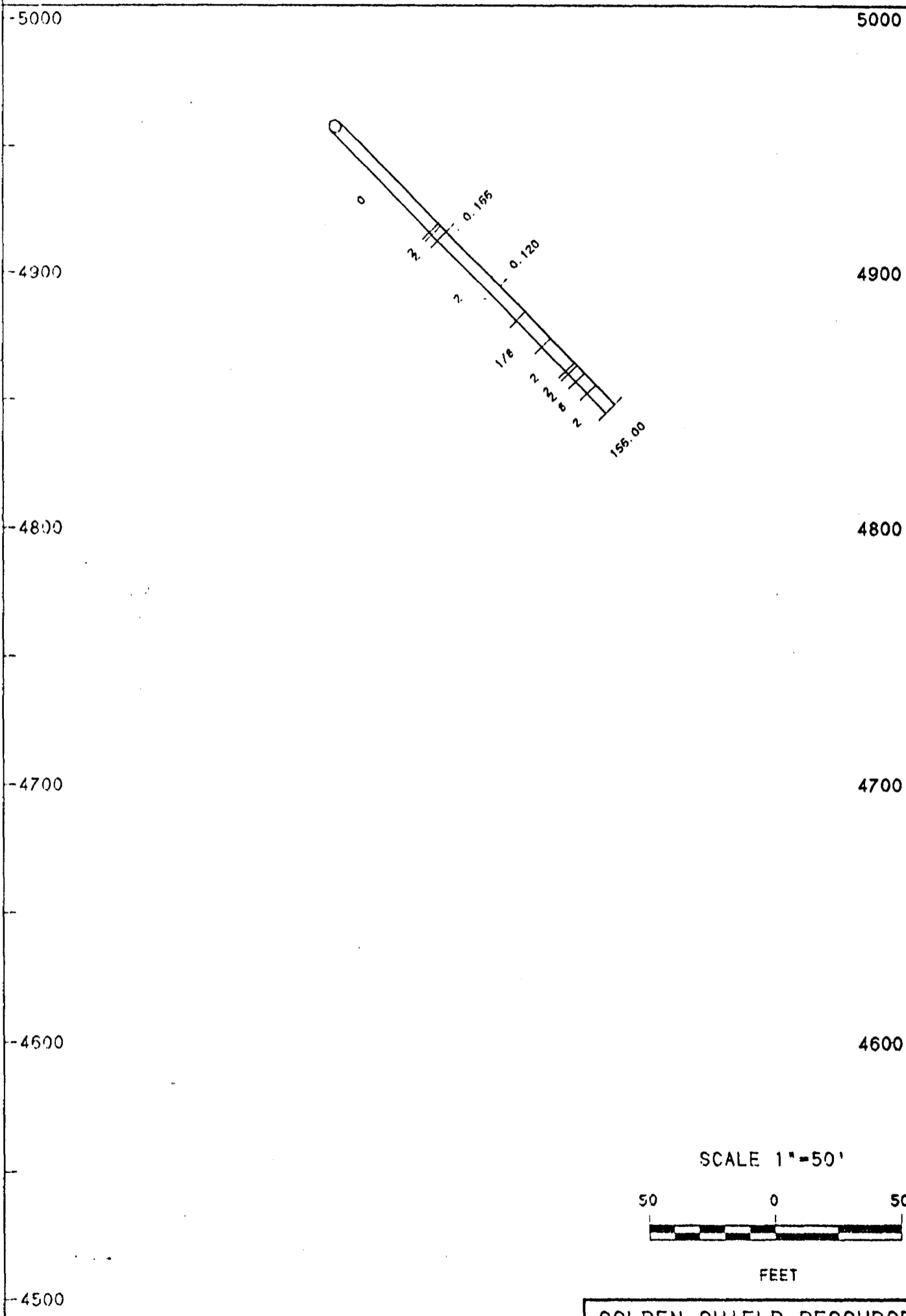
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	47.0	OVERBURDEN (0)						
47.0	136.0	PYROCLASTIC CONGLOMERATE (2)						

86-86

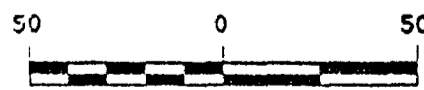
832.00N
3246.00E



PLAN VIEW



SCALE 1" = 50'



FEET

GOLDEN SHIELD RESOURCES	
MIRADO PROJECT	
SECTION VIEW HOLE 86-86	
E 3246 N 832	AZIMUTH 76 DIP -45
Scale 1" = 50'	

Coords: 832.0N 3246.0E

HOLE NO.: 86-86

Azimuth: 76.0

Mirado Project

Dip: -45.0

Elevation: 4957.0

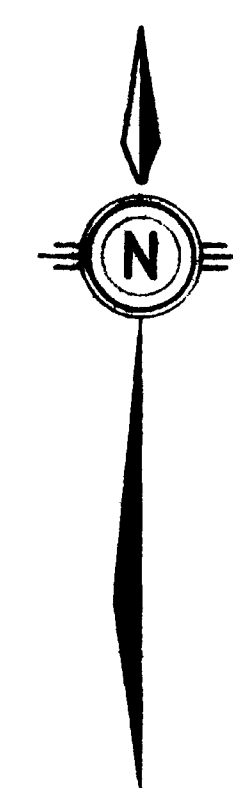
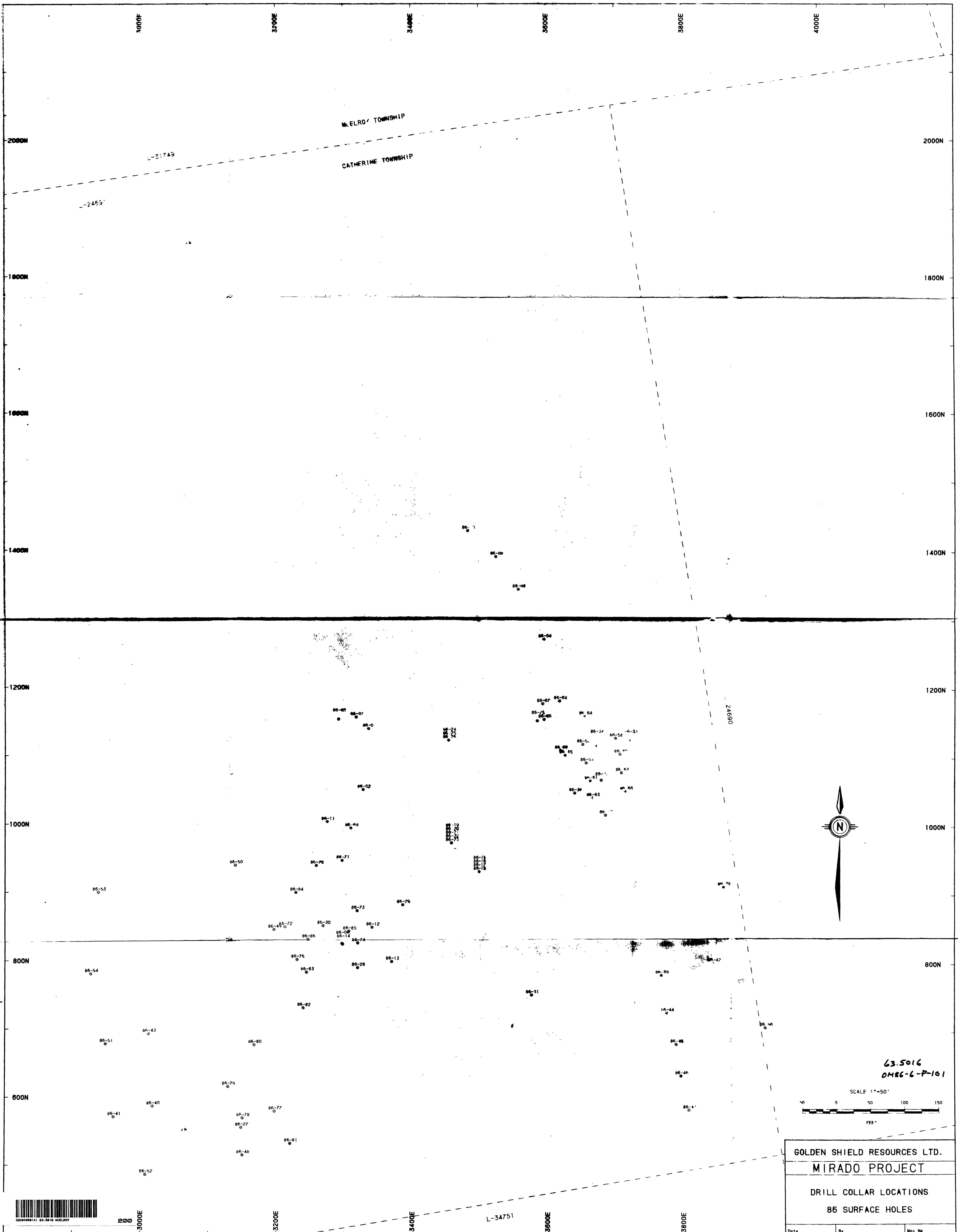
Length: 156.0

Dip Tests

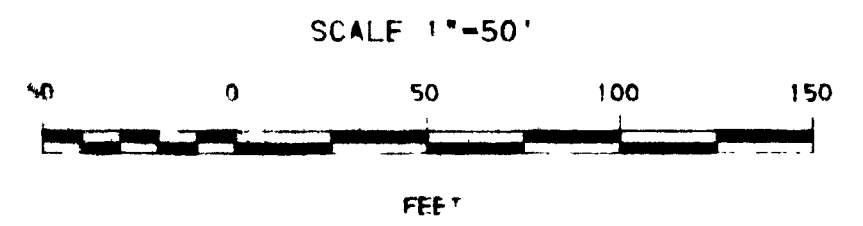
156.00 76.0 -46.0

from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
0.0	56.0	OVERBURDEN (0) Overburden.						
56.0	57.3	PYROCLASTIC CONGLOMERATE (2)						
57.3	60.5	PYROCLASTIC CONGLOMERATE (2) Chl. Conglomerate fragments, angular to sub-rounded in a sil. matrix, 1-3% pyrite gradational Sil./sericitized light green matrix with chl. And talc flecks.						
60.5	105.2	PYROCLASTIC CONGLOMERATE (2)	43264	60.5	63.5	3.0	0.166	n/a
			43271	86.0	91.0	5.0	0.120	n/a
105.2	119.5	ANDESITE / DACITE / METADIORITE (1/8)						
119.5	133.0	PYROCLASTIC CONGLOMERATE (2)						

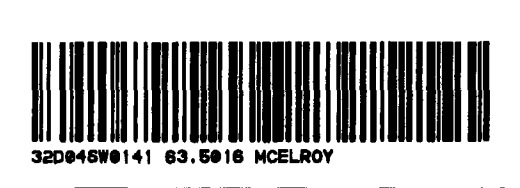
from (ft)	to (ft)	Description	Sample No.	from (ft)	to (ft)	length (ft)	Au oz	Check oz
133.0	134.5	PYROCLASTIC CONGLOMERATE (2)						
134.5	138.8	PYROCLASTIC CONGLOMERATE (2)						
138.8	145.3	METADIORITE (8)						
145.3	156.0	PYROCLASTIC CONGLOMERATE (2)						



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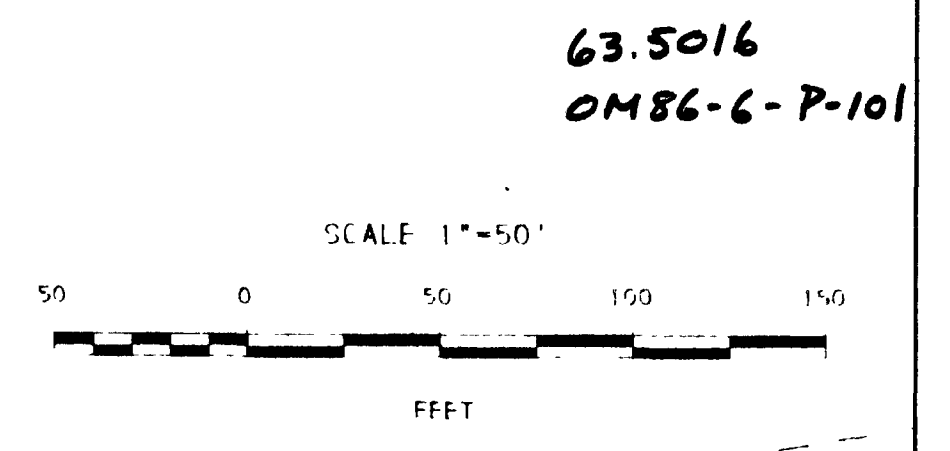
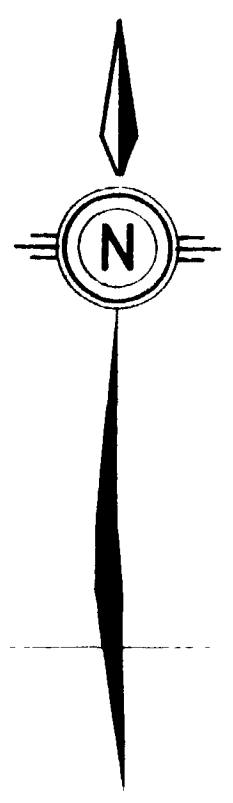
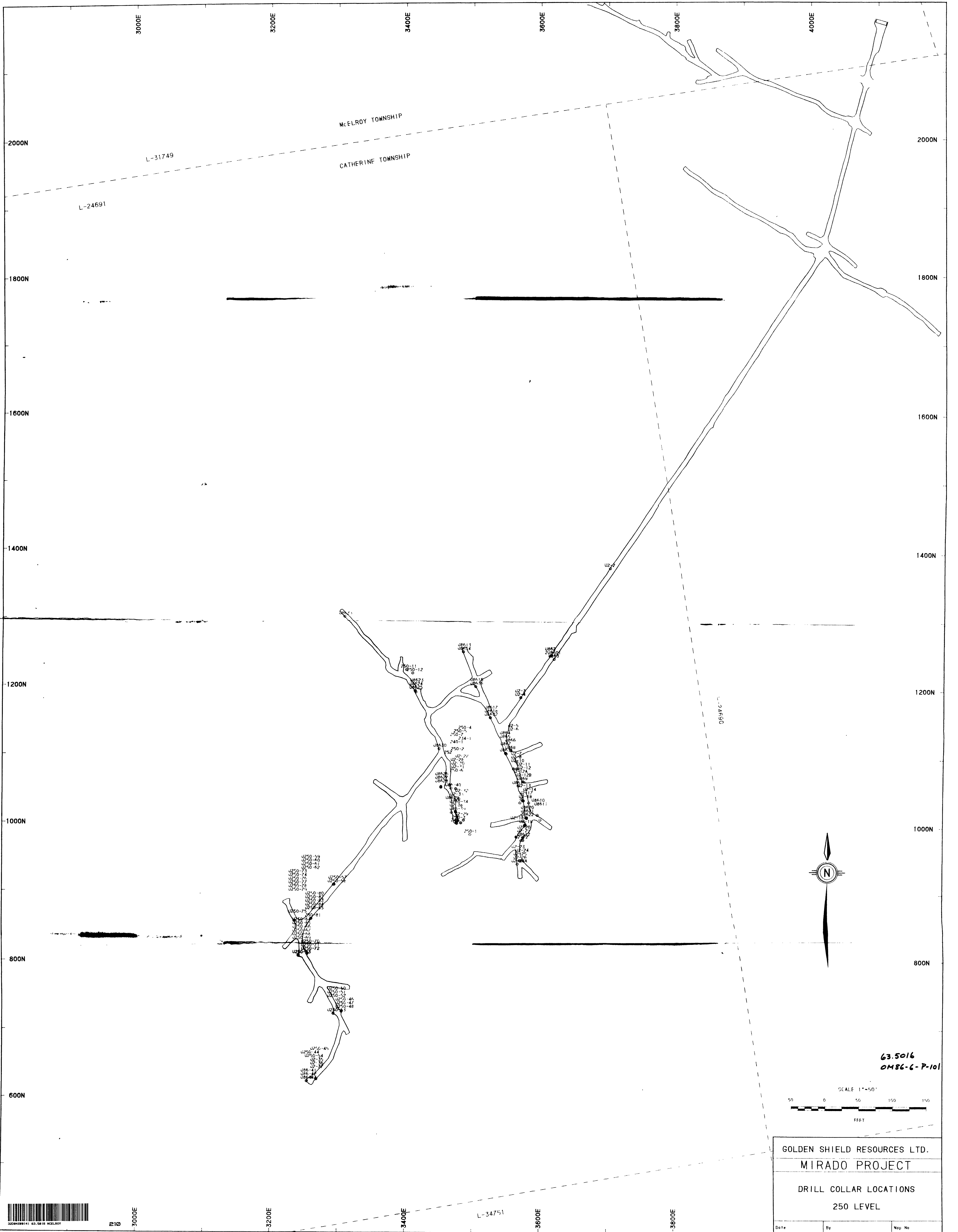


GOLDEN SHIELD RESOURCES LTD.		
MIRADO PROJECT		
DRILL COLLAR LOCATIONS		
86 SURFACE HOLES		
Date	By	Map No



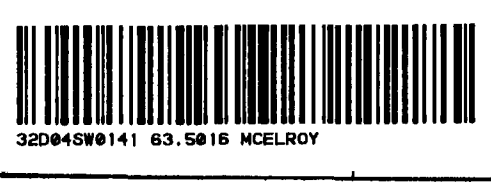
200
3000E

L-34751



GOLDEN SHIELD RESOURCES LTD.
MIRADO PROJECT
DRILL COLLAR LOCATIONS
250 LEVEL

Date _____ By _____ Map No _____



210

3000E

3200E

3400E

L-34751

3600E

3800E

L-31749

L-24691

L-24970

McELROY TOWNSHIP

CATHERINE TOWNSHIP

3000E

3200E

3400E

3600E

3800E

4000E

2000N

2000N

1800N

1800N

1600N

1600N

1400N

1400N

1200N

1200N

1000N

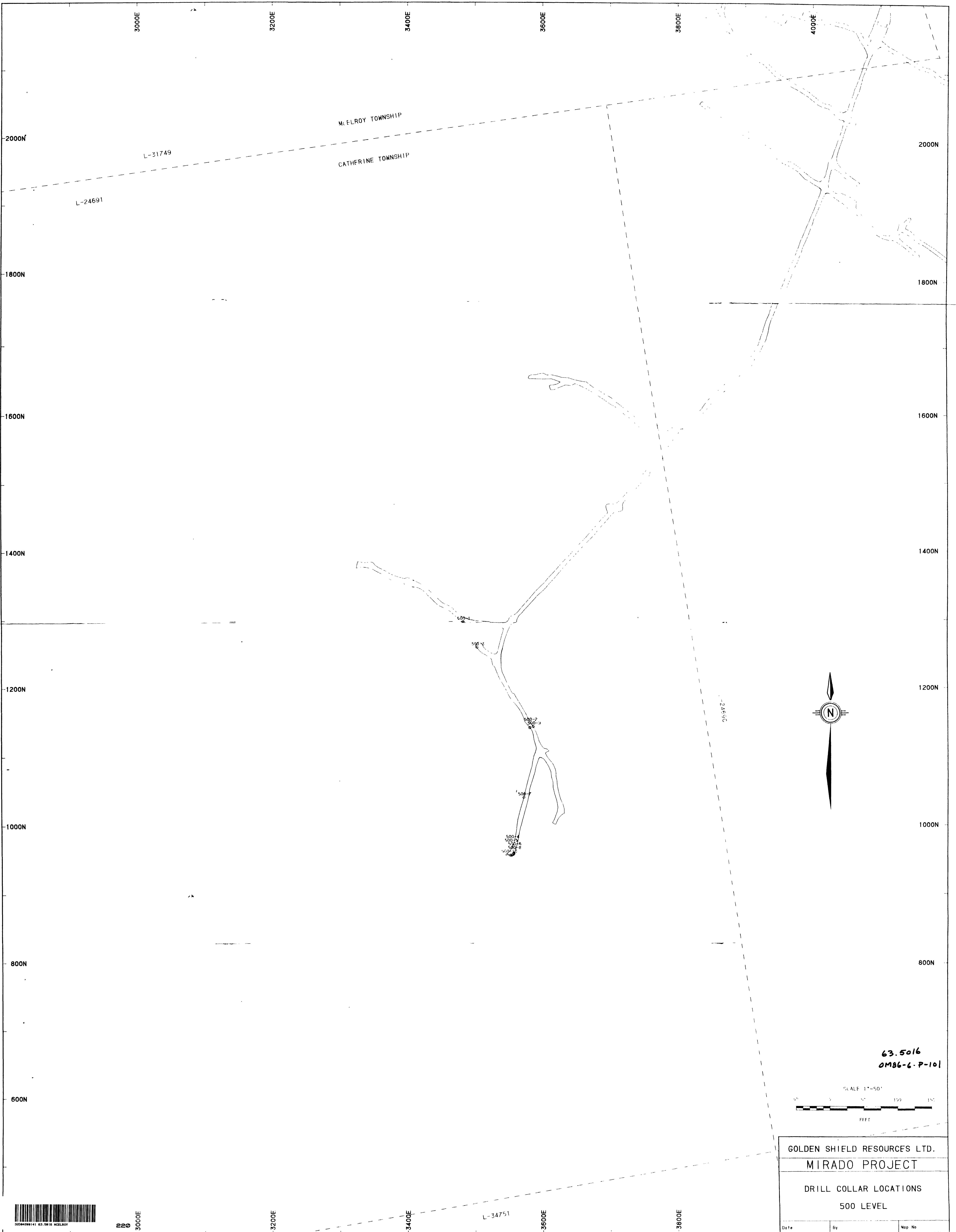
1000N

800N

800N

600N

600N



L-24691
L-31749

McELROY TOWNSHIP
CATHERINE TOWNSHIP

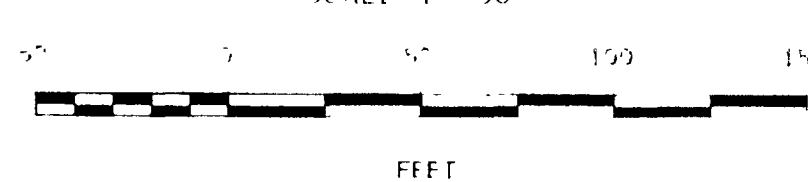
L-24692

500-1
500-2
500-3
500-4
500-5
500-6
500-7
500-8

L-34751

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SCALE 1"=50'



GOLDEN SHIELD RESOURCES LTD.
MIRADO PROJECT
DRILL COLLAR LOCATIONS
500 LEVEL

Date _____ By _____ Map No _____



220 3000E

3200E

3400E

3600E

3800E

2000N

1800N

1600N

1400N

1200N

1000N

800N

600N

2000N

1800N

1600N

1400N

1200N

1000N

800N

3000E

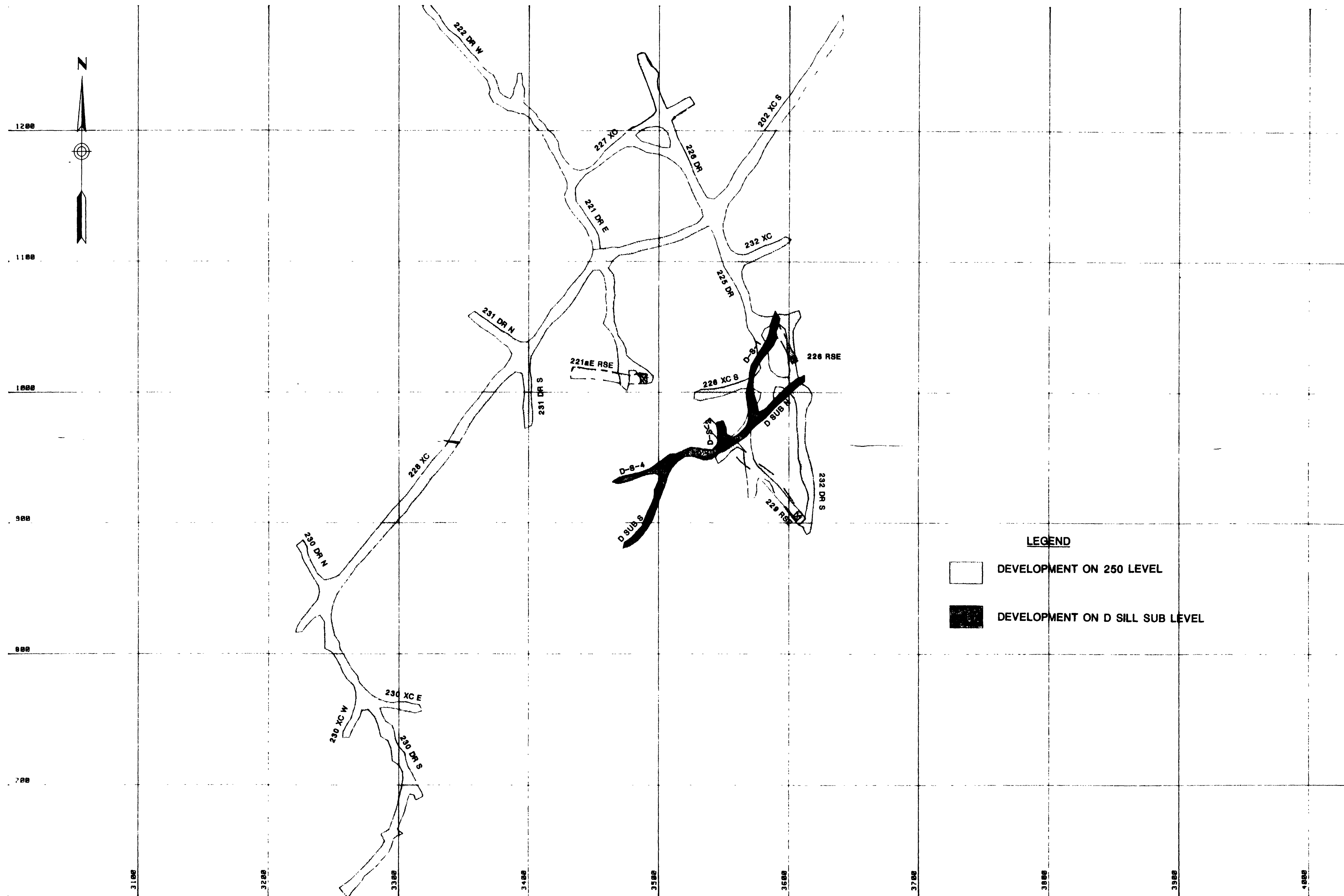
3200E

3400E

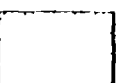

3600E

3800E

4000E



LEGEND

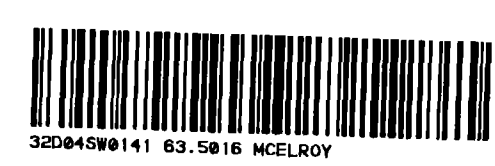
-  DEVELOPMENT ON 250 LEVEL
-  DEVELOPMENT ON D SILL SUB LEVEL

GOLDEN SPIRIT
MINE PLAN
SCALE - NOT TO SCALE
15 May 1986

1986 DEVELOPMENT

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FIGURE 4-1
1986 DEVELOPMENT WORK





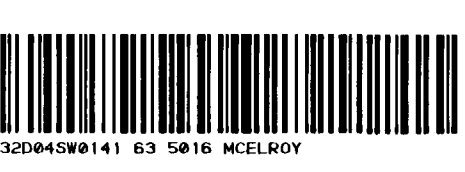
TEST HOLE	DEPTH	REMARKS
230-1	100'	...
230-2	120'	...
230-3	140'	...
230-4	160'	...
230-5	180'	...
230-6	200'	...
230-7	220'	...
230-8	240'	...
230-9	260'	...
230-10	280'	...
230-11	300'	...
230-12	320'	...
230-13	340'	...
230-14	360'	...
230-15	380'	...
230-16	400'	...
230-17	420'	...
230-18	440'	...
230-19	460'	...
230-20	480'	...
230-21	500'	...
230-22	520'	...
230-23	540'	...
230-24	560'	...
230-25	580'	...
230-26	600'	...
230-27	620'	...
230-28	640'	...
230-29	660'	...
230-30	680'	...
230-31	700'	...
230-32	720'	...
230-33	740'	...
230-34	760'	...
230-35	780'	...
230-36	800'	...
230-37	820'	...
230-38	840'	...
230-39	860'	...
230-40	880'	...
230-41	900'	...
230-42	920'	...
230-43	940'	...
230-44	960'	...
230-45	980'	...
230-46	1000'	...
230-47	1020'	...
230-48	1040'	...
230-49	1060'	...
230-50	1080'	...
230-51	1100'	...
230-52	1120'	...
230-53	1140'	...
230-54	1160'	...
230-55	1180'	...
230-56	1200'	...
230-57	1220'	...
230-58	1240'	...
230-59	1260'	...
230-60	1280'	...
230-61	1300'	...

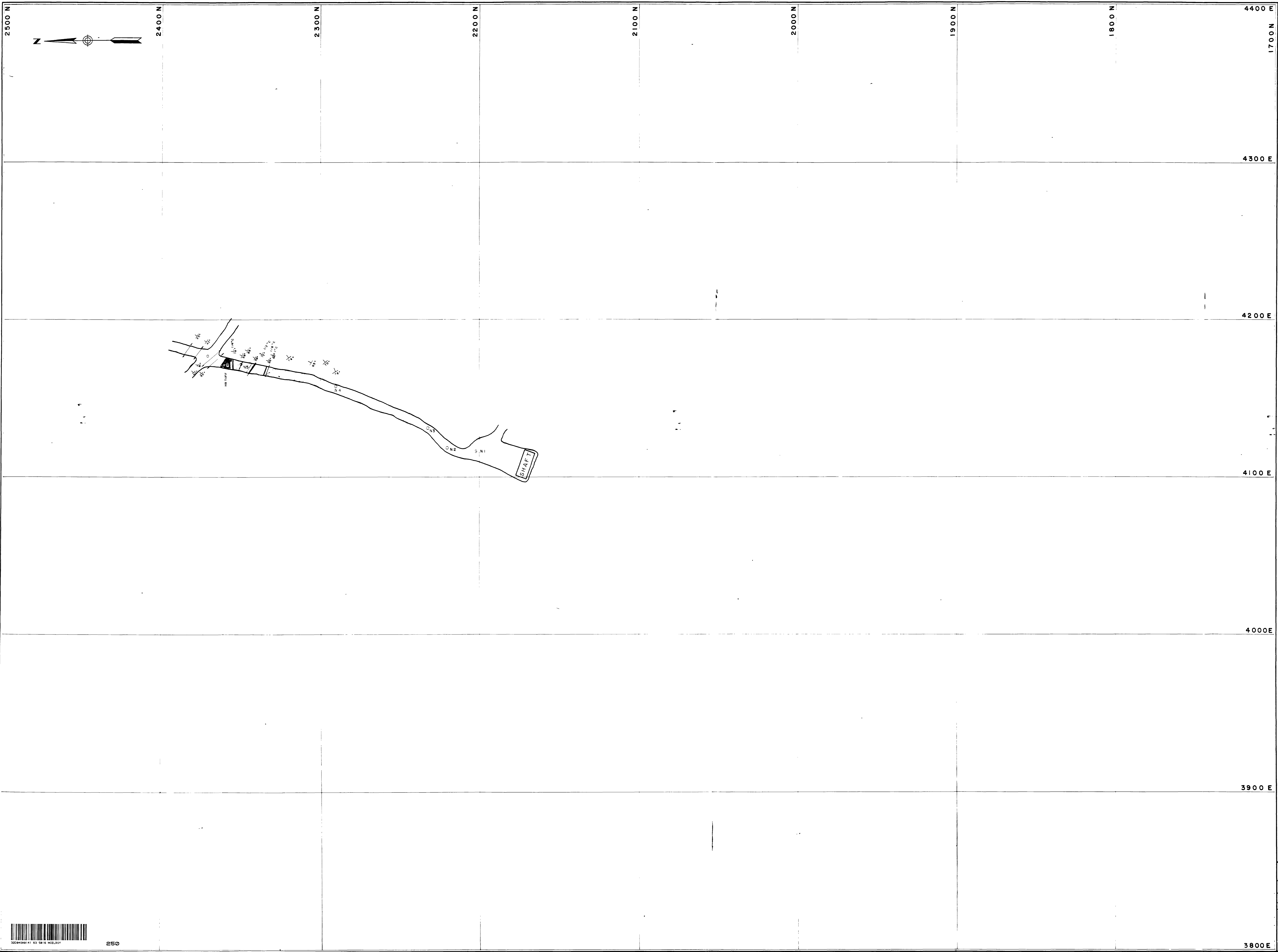
TEST HOLES
 1. 230-1
 2. 230-2
 3. 230-3
 4. 230-4
 5. 230-5
 6. 230-6
 7. 230-7
 8. 230-8
 9. 230-9
 10. 230-10
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 89. 230-89
 90. 230-90
 91. 230-91
 92. 230-92
 93. 230-93
 94. 230-94
 95. 230-95
 96. 230-96
 97. 230-97
 98. 230-98
 99. 230-99
 100. 230-100

SCALE 1"=40'

MIRADO GOLD MINE (GSR)
 250 LEVEL GEOLOGY PLAN
 (SOUTH ZONE)
 TESTHOLES and MUCK SAMPLES

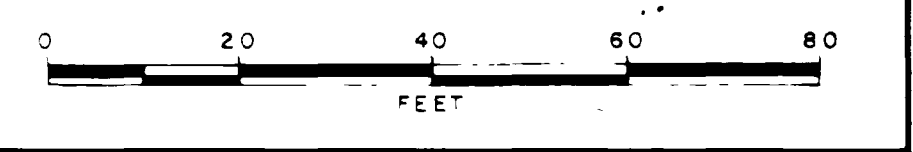
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0 MB6-6-P-101

FIGURE 1-3



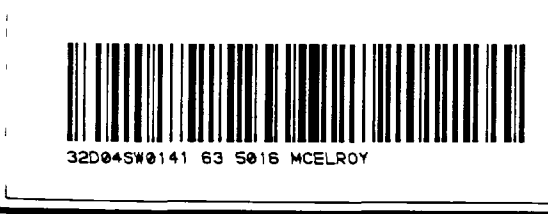
GOLDEN SHIELD RESOURCES LTD.

MIRADO PROJECT

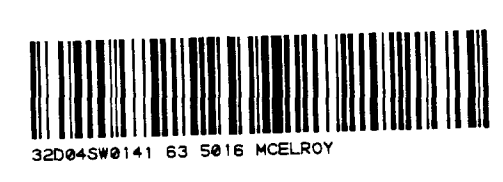
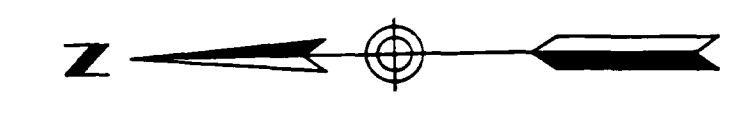
KIRKLAND LAKE AREA, ONTARIO

DEPT	DRAWN BY	DATE
TITLE	CHECKED BY	DATE
125 LEVEL	SCALE	1" = 20'
GEOLOGY	FILE NO.	
	DWG NO.	

3800 E



250



280

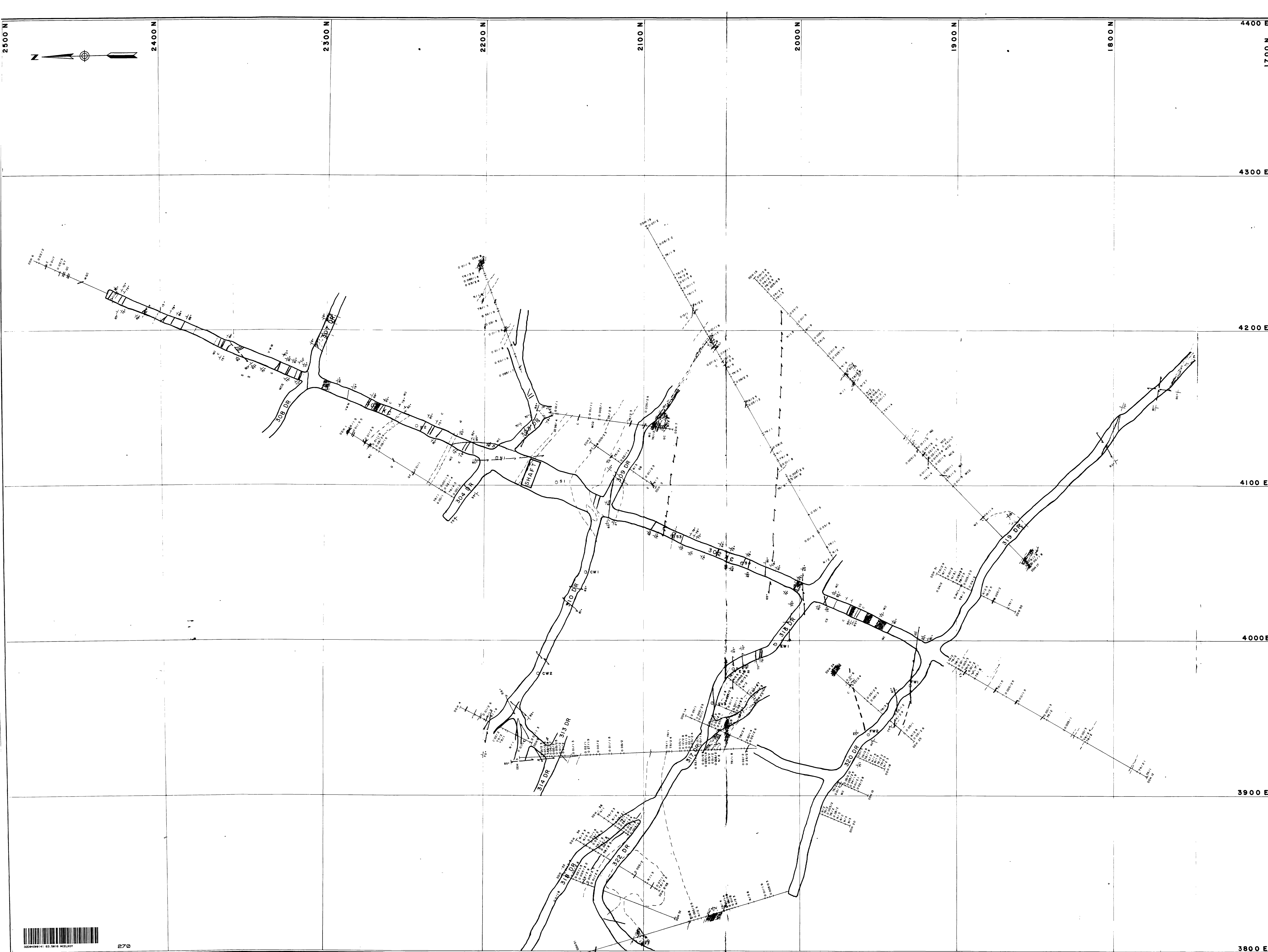
63.5014
OMSG-L-P-101

FIGURE 1-4



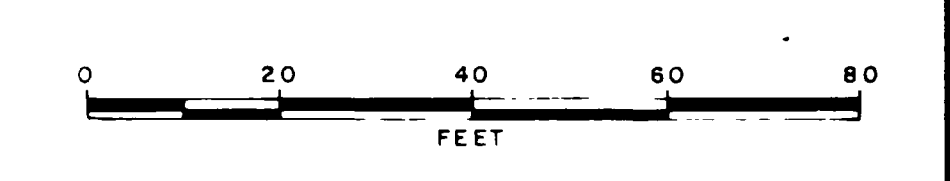
GOLDEN SHIELD RESOURCES LTD.	
MIRADO PROJECT	
KIRKLAND LAKE AREA, ONTARIO	
DEPT	
TITLE	
250 LEVEL	DRAWN BY DATE
GEOLGY	CHECKED BY DATE
	SCALE 1" = 20'
	FILE LOC
	DWG NO

3800 E

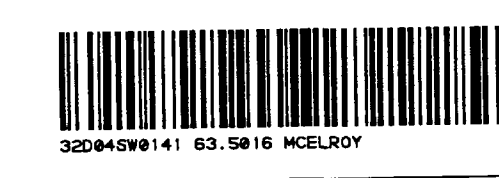


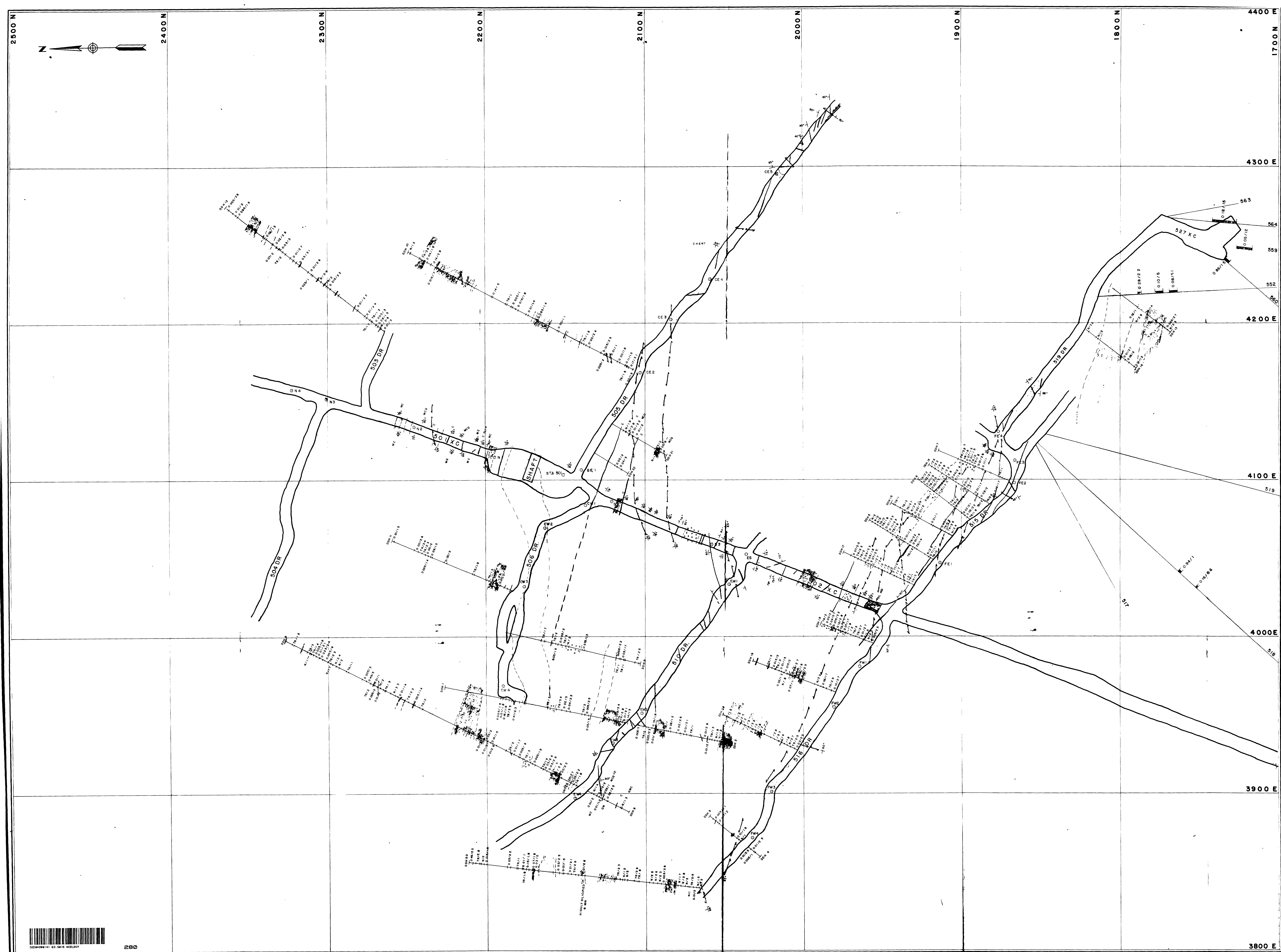
63.5016
0M86-6-P-101

FIGURE 1-5



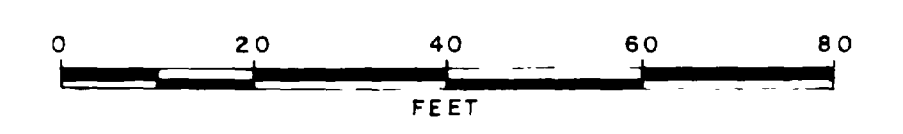
GOLDEN SHIELD RESOURCES LTD.	
MIRADO PROJECT	
KIRKLAND LAKE AREA, ONTARIO	
DEPT	
TITLE	
375 LEVEL	DRAWN BY DATE
GEOLOGY	CHECKED BY DATE
	SCALE 1" = 20'
	FILE LOT
	DWG NO



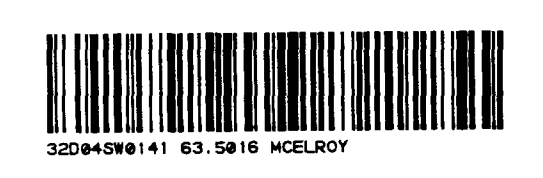


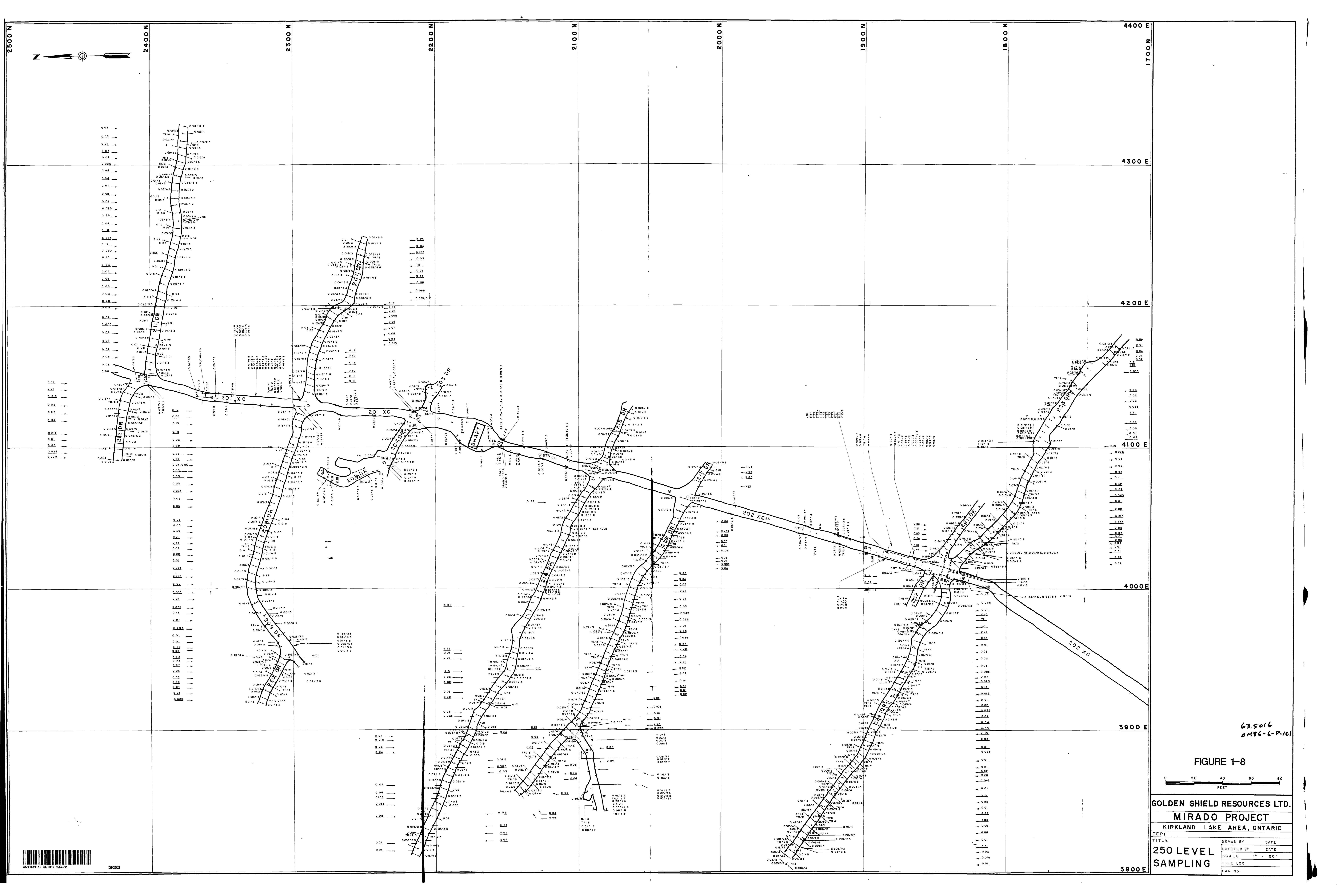
63.5016
DM86-G-7-101

FIGURE 1-6



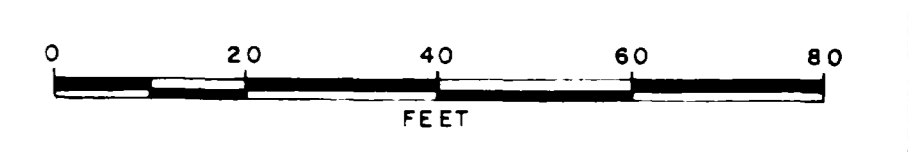
GOLDEN SHIELD RESOURCES LTD.	
MIRADO PROJECT	
KIRKLAND LAKE AREA, ONTARIO	
DEPT	DRAWN BY DATE
TITLE	CHECKED BY DATE
500 LEVEL	SCALE 1" = 20'
GEOLOGY	FILE LOC
	DWG NO





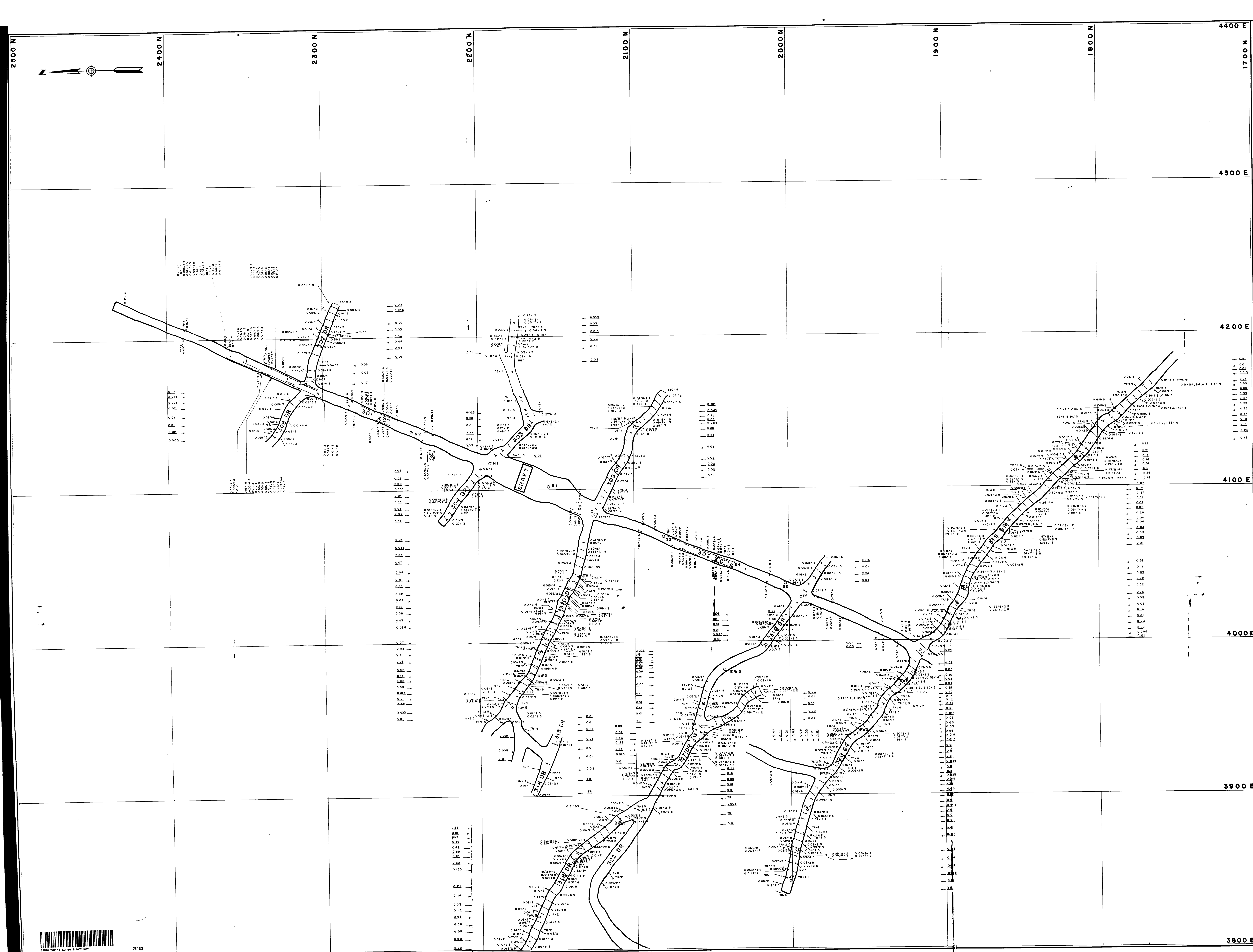
63.5016
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FIGURE 1-8



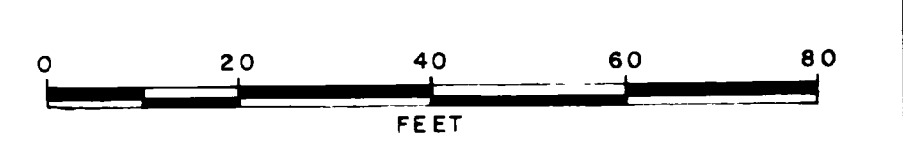
GOLDEN SHIELD RESOURCES LTD.	
MIRADO PROJECT	
KIRKLAND LAKE AREA, ONTARIO	
TITLE	DRAWN BY DATE
250 LEVEL SAMPLING	CHECKED BY DATE
FILE LOC	SCALE 1" = 20'
DWG NO.	



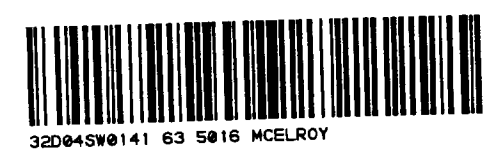


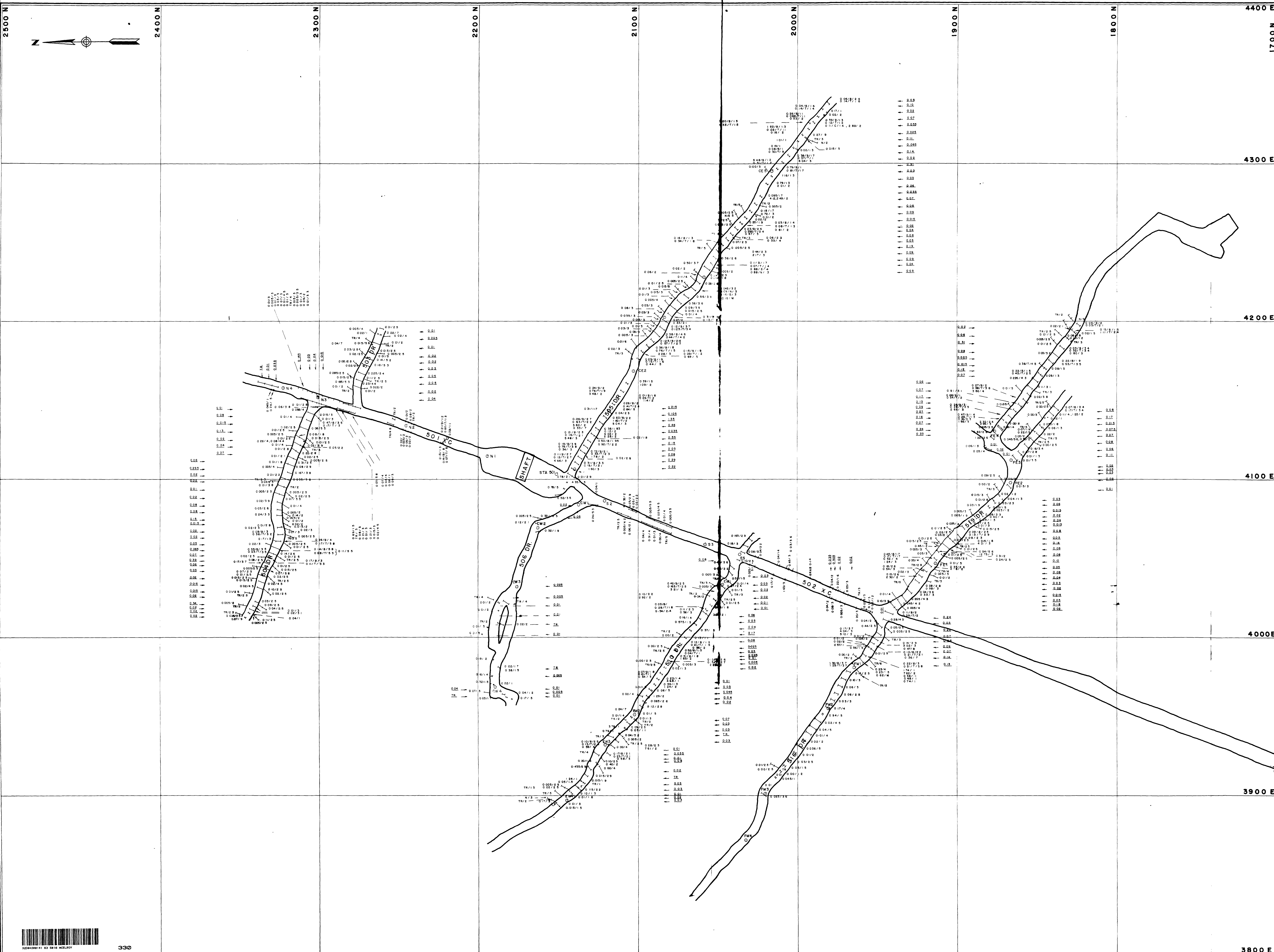
63.5016
086-6-P-101

FIGURE 1-9



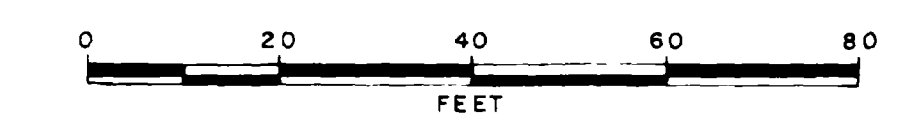
GOLDEN SHIELD RESOURCES LTD.	
MIRADO PROJECT	
KIRKLAND LAKE AREA, ONTARIO	
DEPT.	
TITLE	
375 LEVEL	DRAWN BY DATE
SAMPLING	CHECKED BY DATE
	SCALE 1" = 20'
	FILE LOC.
	DWG NO.





63-5016
0486-6-P-101

FIGURE 1-11



GOLDEN SHIELD RESOURCES LTD.	
MIRADO PROJECT	
KIRKLAND LAKE AREA, ONTARIO	
DEPT	
TITLE	DRAWN BY DATE
500 LEVEL	CHECKED BY DATE
SAMPLING	SCALE 1" = 20'
	FILE LOC
	DWG NO.

