

OM 85-6-P-213



32D12SW0065 63.4970 HARKER

010

SUMMARY REPORT
OF
GEOPHYSICS AND DIAMOND DRILLING
ON THE
HARKER TOWNSHIP
LARDER LAKE MINING DIVISION PROPERTY
OF MISSION-HARKER EXPLORATION LTD.
PROJECT #6256

February 21, 1986
Timmins, Ontario

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32D12SW0065 63.4970 HARKER

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1.0 SUMMARY

In October 1985, Mission-Harker Exploration Ltd. acquired an option on four patented mining claims in Harker Township, Larder Lake Mining Division, Ontario. This property is underlain by what is believed to be the westerly strike extension of the Barrick Resources-McDermott gold prospect.

During November of 1985, David R. Bell Geological Services Inc. was contracted to manage a limited geophysical and diamond drill program on the Mission-Harker property. The geophysics consisted of a magnetometer and two VLF-EM surveys. In all a total of 1449.22 metres (4754.66 feet) of BQ core (1 7/16 inches) was obtained from eight holes. These holes were designed to test the above mentioned auriferous horizon.

The property was found to be underlain by intercalated Archean mafic metavolcanics and metasediments. These rock units were found to be the host for a series of parallel to sub-parallel deformational zones. It is within these horizons that the anomalous gold values are obtained.

The best and most consistent assay results were obtained from holes 6256-85-1 and -2 and holes 6256-86-7 and -8, from what was found to be the upper most of two alteration zones. In light of these results, it is felt that the Mission-Harker property shows excellent potential for hosting an economic gold deposit.

Therefore, a three phase follow-up program is recommended. Phase one, drill hole location and boundary survey and phase two, induced polarization and geological surveys. Both phase one and two will precede the proposed 4700 metre diamond drilling phase.

2.0 INTRODUCTION

In December of 1985, David R. Bell Geological Services Inc., was contracted to plan, implement and complete a \$126,000. exploration program on behalf of Mission Harker Exploration Ltd. This program consisted of linecutting, geophysics and diamond drilling.

Approximately 13.7km of grid lines were cut with the baseline having an east-west orientation and the crosslines running north-south. This grid system was used for control between, and coordination of, the later phases of the program.

Magnetometer and VLF-EM geophysical surveys were completed to aid in program planning and geological interpretation. The diamond drilling phase of this program entailed eight holes totalling 1,449.22 metres.

The intention of this program was to locate and test for the strike extension of the deformation-alteration zone which hosts the Barrick Resources-McDermott Gold Prospect. It is known from personal experience, and communications with Barrick exploration staff that this host horizon has been found; via diamond drilling, on the Barrick-Manville Option to the east and the Barrick-Newmex Option to the west of the Mission Harker property.

With this knowledge it was apparent that the Mission Harker property held above average potential for hosting an economic gold bearing horizon.

3.0 PROPERTY AND OWNERSHIP

On October 10, 1985, Mission Harker Exploration Ltd. acquired an option on four contiguous patent mining claims in Harker Township, Larder Lake Mining Division, Ontario.

Under the terms of this agreement, the company is to expend on this property a minimum of \$150,000.00 on mining exploration by October 27, 1986. See Table 1 for claim numbers and Figure 2 for claim configuration.

4.0 LOCATION AND ACCESS

Matheson, a small community on Highway 101, is located 55km east of the property which in turn lies 17.5km west of the Ontario-Quebec border.

At this point, direct access to the property can be gained by turning south off of Highway 101 onto a dry-weather road. At a distance of approximately 2.4km this road is intersected from the south by a drill road. This road leads directly into the property but, in summer its use would be restricted to muskeg machine. See Figure 1 and Figure 3.

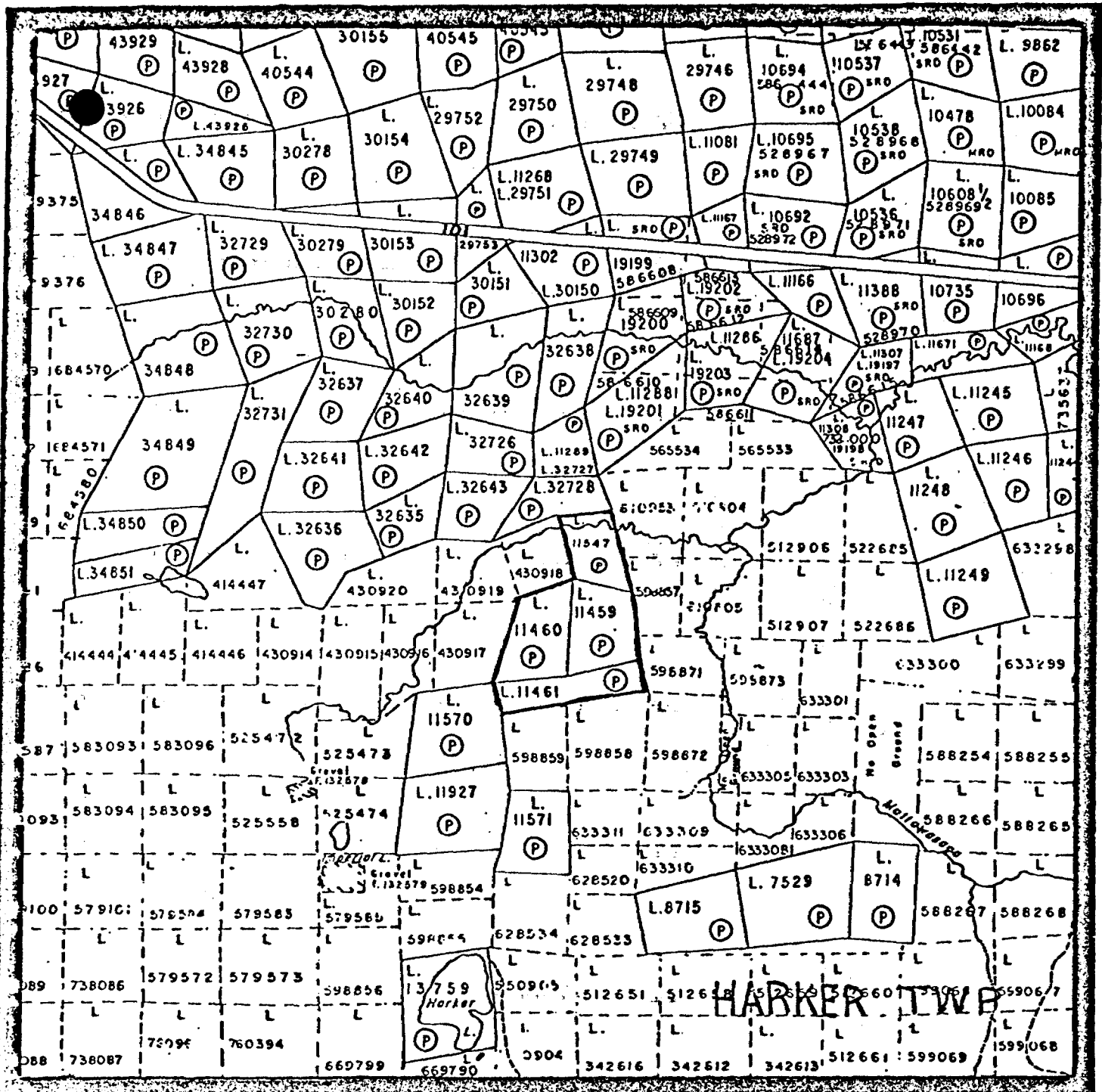
5.0 PHYSIOGRAPHY

The northernmost claim of the property is transected by the Madawasaga River. Here the relief is low and most of the area is covered by a thick spruce swamp. A gradual increase in elevation is noted in a southward direction, to a point where a south-westerly trending ridge truncates this lower ground. The southern side of the ridge is gently sloped and decreases slowly in elevation to the property boundary.

The vegetation present, somewhat characterizes these features in the relief. Spruce, alder and some cedar exist in the lower more swampy sections, while birch and poplar have grown among the spruce in higher, drier areas.



DAVID R. BELL GEOLOGICAL SERVICES INC.	
MISSION-HARKER EXPLORATION LTD.	
GENERAL LOCATION MAP	
Feb. 19, 1986	Figure 1



DAVID R. BELL GEOLOGICAL SERVICES INC.

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CLAIMS CONFIGURATION

Scale
1 to 31680

Feb. 19, 1986

Figure 2

TABLE I

LIST OF CLAIMS

Claim Number

Claim Status

Location

L11547

Patent

Harker Township,
Larder Lake
Mining Division

L11549

Patent

Harker Township,
Larder Lake
Mining Division

L11460

Patent

Harker Township,
Larder Lake
Mining Division

L11461

Patent

Harker Township,
Larder Lake
Mining Division

Overburden noted during the drill program was thin to moderate, and consisted predominantly of sand and gravel. The thickest section encountered was approximately 18 metres (drill width) with the narrowest being 3 metres. It is suspected that drilling further to the north would encounter a substantial increase in overburden.

Winters here are usually long and cold with abundant snowfall, while summers are hot, humid and relatively short.

6.0 POWER AND WATER

The nearest power line is located approximately 25km to the west. This line was established to service Perry Lake Wilderness Lodge, and would only be sufficient to support a small mining operation.

Water could be obtained from the Mattawasaga River which traverses the northernmost claim.

7.0 ANCILLARY SERVICES

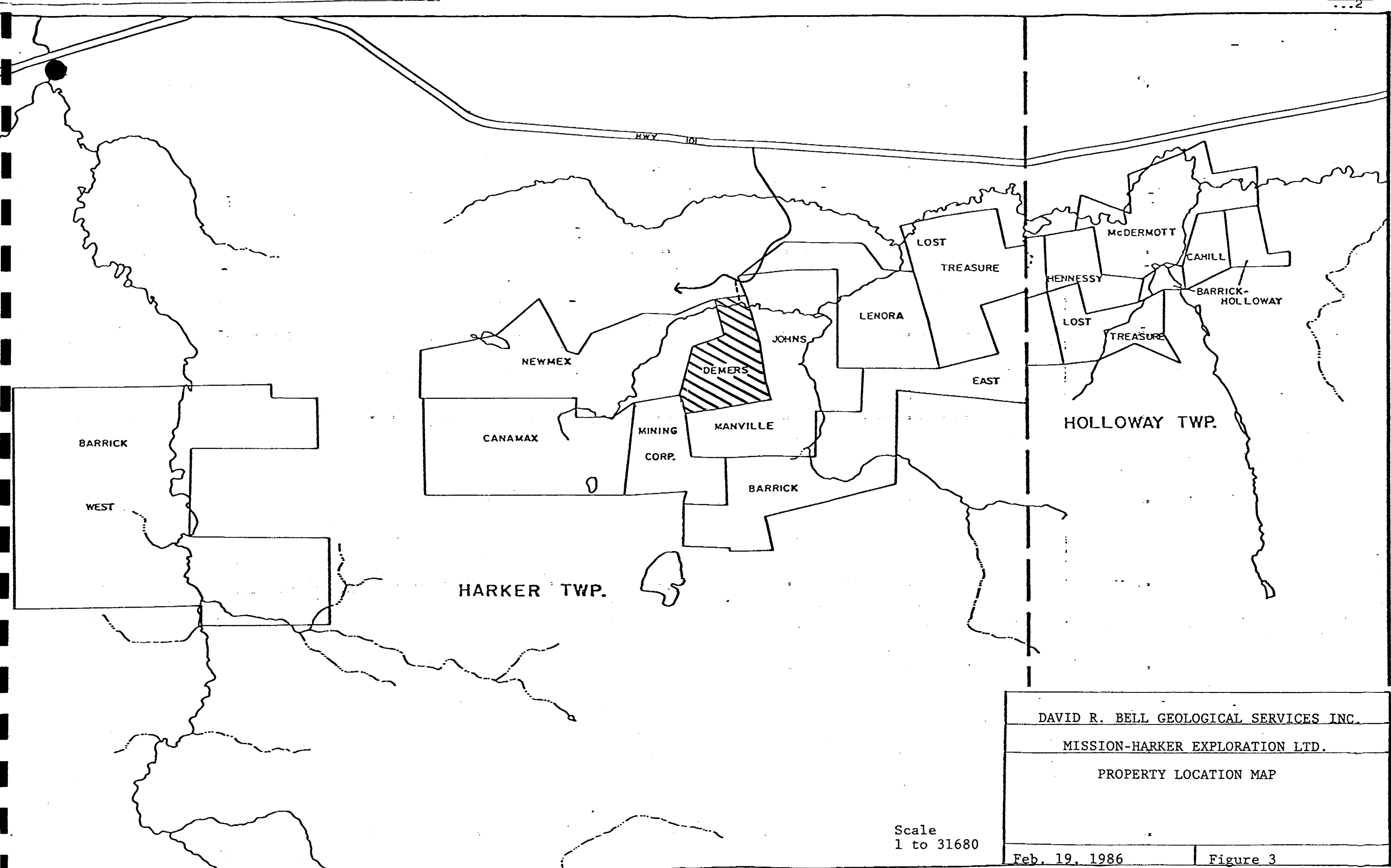
Matheson, which lies approximately 55km to the west, could supply small goods and services but, larger materials would have to be obtained in Timmins or Kirkland Lake.

8.0 PREVIOUS WORK

Although the claims are patent, record of the work which enabled the claims to be brought to patent could not be found in the Toronto Assessment Files.

9.0 REGIONAL GEOLOGY

The geology of the region is described in a report written by L.S. Jensen, 1982, "Geology of The Lightning River Area."



DAVID R. BELL GEOLOGICAL SERVICES INC.	
MISSION-HARKER EXPLORATION LTD.	
PROPERTY LOCATION MAP	
Feb. 19, 1986	Figure 3

Scale
1 to 31680

"Except for Keweenawan diabase dikes, all the bedrock is of Early Precambrian (Archean) age. A map of the stratigraphy and a table of stratigraphic units are shown in Figures 4 & 5, Tab. 2 & 3.

The oldest rocks are calc-alkalic basalts, andesites, dacites, and rhyolites called the Hunter Mine Group. These rocks occur at the west end of Upper Lake Abitibi, south parts of Indian Reserve No. 70, Rand, Lamplugh, and Frecheville Townships and in Quebec, east of the map-area where they have been named. The Hunter Mine Group is characterized by "rhyolite complexes" composed by breccias cut by numerous subvolcanic dikes of andesite, dacite, and rhyolite composition. These rocks contain feldspar and quartz phenocrysts. The complexes grade into bedded tuffs and tuff-breccias which in turn grade into cherts, iron formations, and in places, wacke. The facies changes in the Hunter Mine Group suggest a large calc-alkalic pile once existed in the vicinity of the Lake Abitibi Batholith. The rhyolite complex in Rand Township is surrounded by calc-alkalic basalt and andesite flows interlayered with tuff breccias of the same composition as well as dacite and rhyolite.

Overlying the Hunter Mine Group are komatiitic and tholeiitic lavas of the Stoughton-Roquemaure Group which is more than 10km thick in its type-section. In the type-section it overlies the Hunter Mine Group in Roquemaure Township and forms a steeply southeast-dipping monoclinial succession, the upper part of which forms the bedrock in the northeast half of Stoughton Township. The upper part of this succession can be traced westward across Lake Abitibi where again, the lavas can be seen to overlie the Hunter Mine Group. Elsewhere, the Stoughton-Roquemaure Group is intruded by the Lake Abitibi Batholith toward its base.

The calc-alkalic metavolcanics of the Hunter Mine Group in the Lamplugh area are cut by stocks and sills of peridotite which may have been feeders for the komatiitic lavas. In the south part of Lamplugh Township, the calc-alkalic rocks are overlain by a thick, flat-lying fractionated komatiitic lava flow which may have been ponded on the irregular calc-alkalic metavolcanic topography. The flow consists of a massive basal peridotite layer overlain by pyroxenite and gabbro similar in composition to magnesium-rich tholeiitic basalt. At higher elevations, the flow is capped by a finely bedded, 30cm

thick unit of calc-alkalic dacite tuff overlain by thick massive flows of iron-rich tholeiitic basalt. A similar group of rocks occur in the north part of Garrison Township, except, here they are tipped steeply on their side to the north.

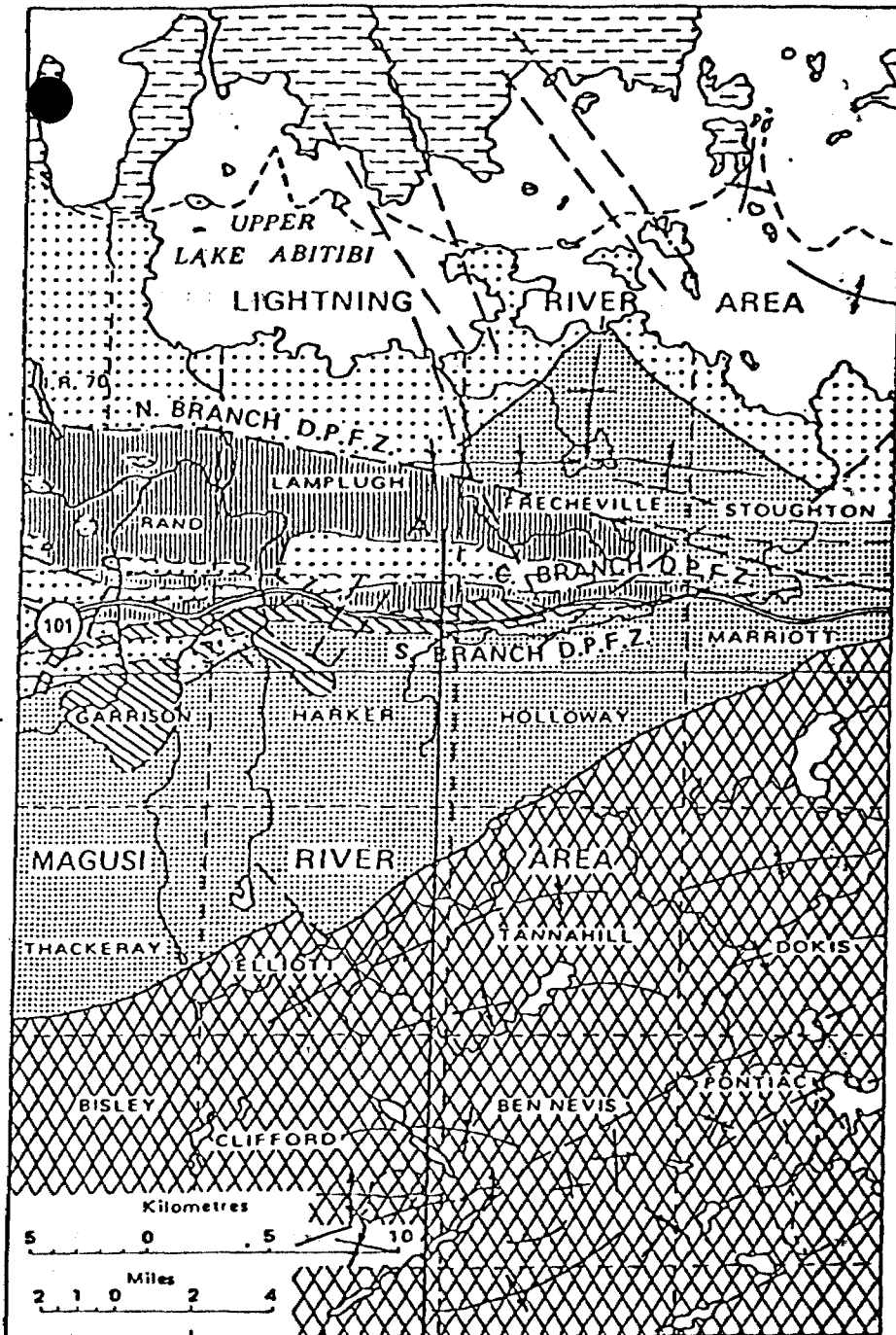
Fault-bounded wedges of komatiitic lava are also found along the Destor Porcupine Fault Zone and are considered as well, to be part of the Stoughton-Roquemaure Group.













Komatiitic volcanism forming the Stoughton-Roquemaure Group appears to have begun in the basin to the south and spread northward engulfing the calc-alkalic volcanic pile represented by the Hunter Mine Group.

The Stoughton-Roquemaure Group is conformably overlain by iron-enriched tholeiitic lavas referred to as the Kinojevis Group. At the top of the 10km thick type-section of the Stoughton-Roquemaure Group, numerous layers of finely bedded calc-alkalic felsic tuff-breccias, tuffs, cherts, argillites, graphitic sediments, and ironstone appear in the metavolcanic succession with the tholeiitic lavas. Komatiitic lavas disappear from the succession and the lavas show a pronounced iron-enrichment in the upper 5km thick metavolcanic succession of the 15km thick southwest facing monoclinical succession forming the northeast side of the triangular syncline in Frecheville Township. Upward in the Kinojevis Group, the bedded tuffs and sediments decrease toward the centre of the triangular syncline.

The tholeiitic lavas of the Kinojevis Group can be traced into the south part of Stoughton Township where they cross the Destor-Porcupine Fault Zone and can be followed westward south of the Destor-Porcupine Fault Zone. South of the fault zone, the Kinojevis Group attains a thickness greater than 10km and is overlain by calc-alkalic metavolcanics belonging to the Blake River Group.

Along the south part of the main Destor-Porcupine Fault Zone, stocks and dikes of syenite, syenodiorite, and quartz-monzonite intrude the Kinojevis Group and the fault-bounded wedges of metasediments, alkalic and komatiitic metavolcanics. These intrusive rocks are absent north of the Destor-Porcupine Fault Zone as are the alkalic metavolcanics."



-  Fault
-  Syncline
-  Anticline
-  Conformable contact
-  Unconformable contact
-  Intrusive contact
-  Abitibi Batholith
-  Destor - Porcupine Complex
-  Blake River Group
-  Kinojevis Group
-  Stoughton - Roquemaure Group
-  Hunter Mine Group

B

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REGIONAL GEOLOGY AND
STRUCTURE

Feb. 19, 1986

Figure 4

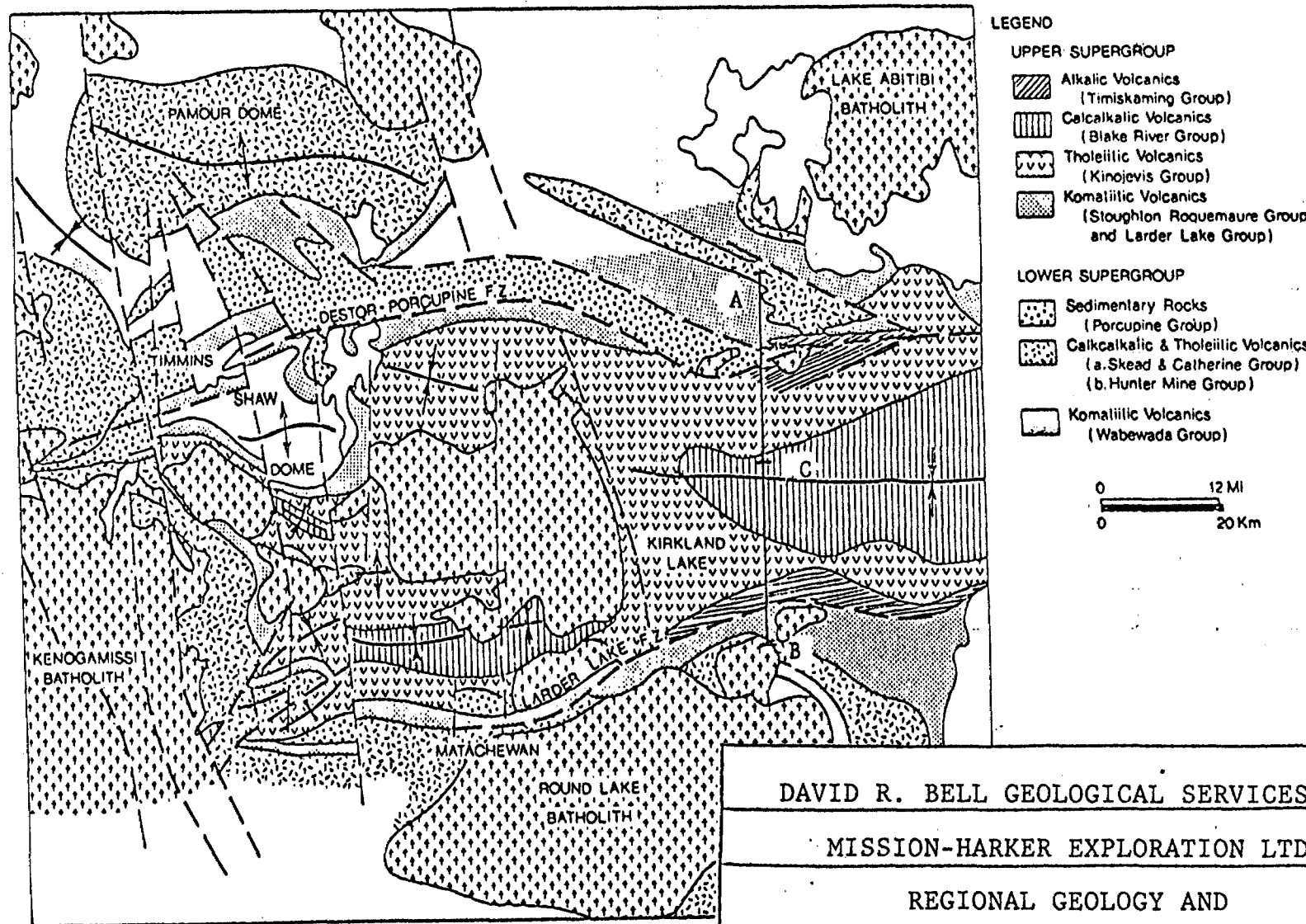


Figure 5 - Stratigraphy and structural geology of the Timmins-Kirkland Lake area.

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REGIONAL GEOLOGY AND
STRUCTURE

Feb. 19, 1986

Figure 5

TABLE 2 Table of lithological units for the Lightning River
- Magusi River Areas (after Jensen, 1982)

PHANEROZOIC

CENOZOIC

QUATERNARY

PLEISTOCENE AND RECENT

Till, reworked till, esker sand and gravel, varved clay,
dune sand, alluvium, and peat.

UNCONFORMITY

PRECAMBRIAN

MIDDLE TO LATE PRECAMBRIAN (PROTEROZOIC)

MAFIC INTRUSIVE ROCKS

18. Diabase, quartz diabase (Keweenawan)

INTRUSIVE CONTACT

EARLY PRECAMBRIAN (ARCHEAN)

MAFIC INTRUSIVE ROCKS

17. Diabase (Matachewan)

INTRUSIVE CONTACT

FELSIC INTRUSIVE ROCKS

16. Equigranular and porphyritic syenodiorite, monzonite,
feldspar porphyry, pegmatite, lamprophyre.

INTRUSIVE CONTACT

ALKALIC METAVOLCANICS

FELSIC METAVOLCANICS

15. Sodic trachyte, benmorite, alkalic dacite, rhyolite

MAFIC METAVOLCANICS

14. Hawaiite, alkali basalt, mugearite, nephelinite.

METASEDIMENTS

13. Conglomerate, wacke, arkose, argillite, sandstone,
iron stone.

TABLE 2 cont'd

UNCONFORMITY

FELSIC INTRUSIVE ROCKS

12. Trondhjemite, quartz diorite, diorite

INTRUSIVE CONTACT

MAFIC INTRUSIVE ROCKS

11. Gabbro, quartz gabbro, hornblende gabbro, granophyre

INTRUSIVE CONTACT

ULTRAMAFIC INTRUSIVE ROCKS

10. Peridotite, dunite, pyroxenite, redingite

INTRUSIVE CONTACT

UPPER CALC-ALKALIC METAVOLCANICS

Felsic Metavolcanics

9. Massive flow breccia, tuff breccia, crystal tuff, feldspar and quartz feldspar porphyritic rhyolitic and dacitic rocks

MAFIC AND INTERMEDIATE METAVOLCANICS

8. Massive and pillowed flows, pillow-breccia, pyroclastic breccia volcanoclastic tuff, lapilli-tuff, amygdaloidal, porphyritic feldspar, basaltic and andesitic rocks.

THOLEIITIC METAVOLCANICS

Felsic Metavolcanics

7. Spherulitic and granular tuff, tuff-breccia, cherty tuff, dacite and rhyolite.

IRON-RICH MAFIC METAVOLCANICS

6. Black to dark green, massive pillowed, pillow-breccia, hyaloclastic, variolitic, amygdaloidal basalt, andesite rocks, and interflow sediments.

MAGNESIUM-RICH METAVOLCANICS

5. Grey to green, massive, pillowed, pillow breccia, hyaloclastic, variolitic, porphyritic feldspar, amygdaloidal basaltic rocks and interflow sediments.

TABLE 2 cont'd

KOMATIITIC METAVOLCANICS

Basaltic Metavolcanics

4. Massive, pillowed, pillow-breccia, hyaloclastic, variolitic, spinifex-textured basaltic rocks.

ULTRAMAFIC METAVOLCANICS

3. Massive, pillowed, polysutured, spinifex-textured ultramafic rocks.

UNCONFORMITY

LOWER CALC-ALKALIC METAVOLCANICS

Felsic Metavolcanics

2. Tuff-breccia, crystal tuff, tuff, quartz and feldspar porphyritic rhyolitic and dacitic rocks, argillite, chert, and ironstone.

MAFIC AND INTERMEDIATE METAVOLCANICS

1. Massive, pillowed, pillow-breccia, pyroclastic breccia, tuff, amygdaloidal basaltic and andesitic rocks.

TABLE 3 Lithological Units Comprising Rock Groups (After Jensen, 1982) refer to Table 2

	<u>GROUP NAMES</u>	<u>LITHOLOGIC UNITS</u>
Upper Supergroup	Destor-Porcupine Complex	Felsic Intrusives (16) + Alkalic Metavolcanics (14, 15) Metasediments (13).
	Abitibi Batholith	Felsic Intrusives (12 when north of L. Abitibi)
	Black River Group	Upper Calc-Alkalic Metavolcanics (8+9) Mafic Intrusives (11) + Minor Felsic Intrusives (12)
	Kinojevis Group	Tholeiitic (5-7) + Komatiitic Metavolcanics (4).
	Stoughton - Roquemaure Group	Tholeiitic + Komatiitic Metavolcanics (3-6) Ultramafic Intrusives (10).
Lower Supergroup	Hunter Mine Group	Lower Calc-Alkalic Metavolcanics (1-2).

0.0 REGIONAL STRUCTURE

A comprehensive interpretation of the structural geology, from the Lightning River Area to the Kirkland Lake-Larder Lake district, has been developed by L.S. Jensen (1981, 1982), a synthesis of his work is presented below:

"Major fault zones such as the Destor-Porcupine Fault zone and the Kirkland Lake-Larder Lake Fault zone evolved during the deposition of volcanic and sedimentary rocks of the Upper Supergroup along the margins of the older volcanic piles represented by the Lower Supergroup. (see Figure 5)

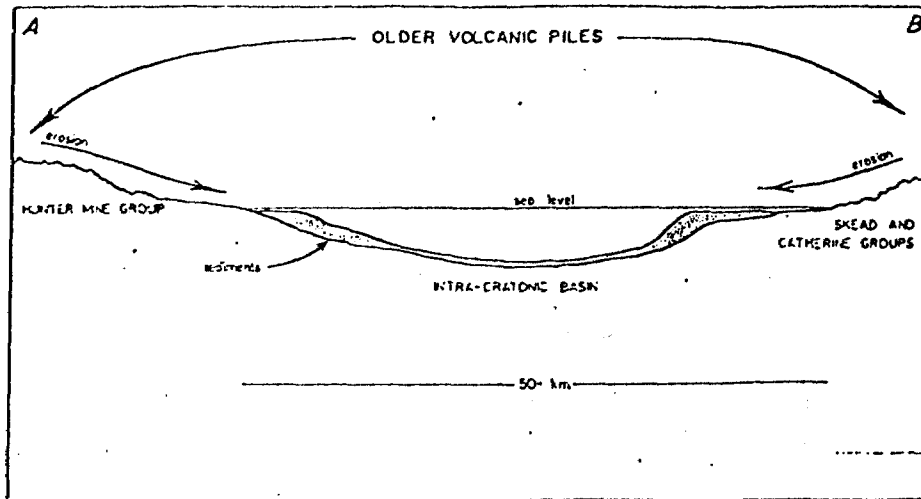
Stage I: Prior to the deposition of the Upper Supergroup, the older volcanic piles consisted of calc-alkalic cone-like volcanoes surrounded by a shallow water shelf that extended outward toward a deeper water ocean basin (Figure 6). Turbidites and chemical sediments and tuff were probably deposited on the shelf and nearby ocean basin by currents eroding the older volcanic pile.

Stage II: At the onset of the next volcanic cycle, ultramafic flows were emplaced on the floor of the ocean basin and the sedimentary and calc-alkalic volcanic rocks marginal to the older volcanic piles (Figure 7). Ultramafic to mafic lava began to fill the basin and engulf the older felsic volcanics and associated sediments...

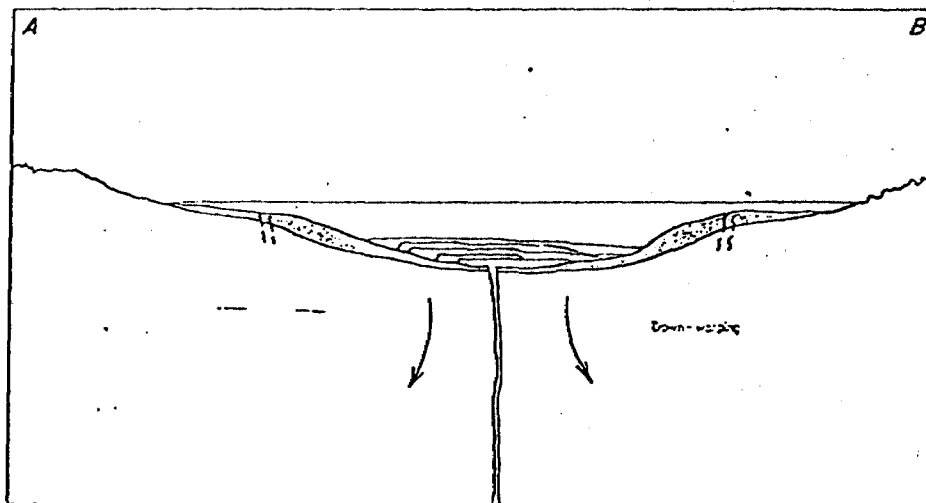
.....as the ultramafic lava accumulated, the weight probably depressed the floor of the basin and initiated fracturing (early expressions of the Destor-Porcupine and Kirkland Lake-Larder Lake fault zones) and slumping along the margins of the older volcanic piles.....

.....the fractures probably provided channelways for hydrothermal brines rising to the surface.

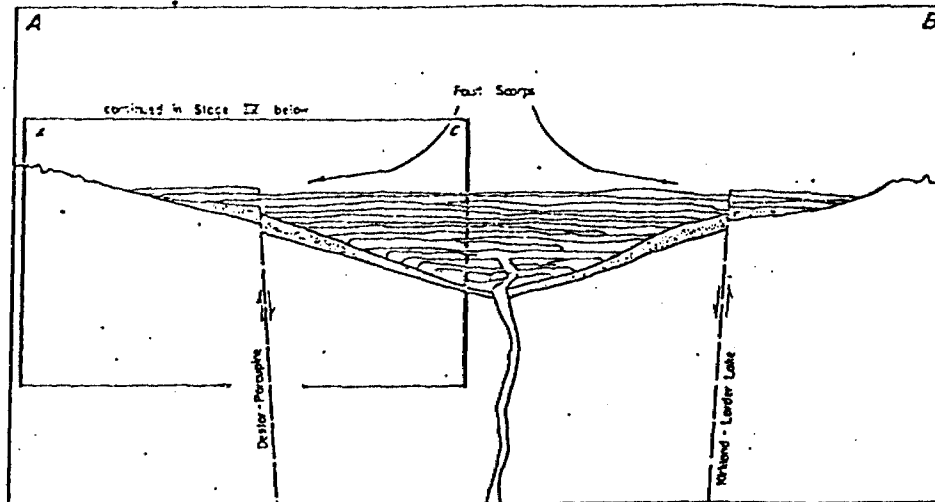
Stage III: As the basin filled with komatiitic rocks and sedimentary rocks and ultimately tholeiitic rocks, the weight of the accumulating rocks continued to depress the floor of the basin. Much of this movement probably occurred in the komatiites and



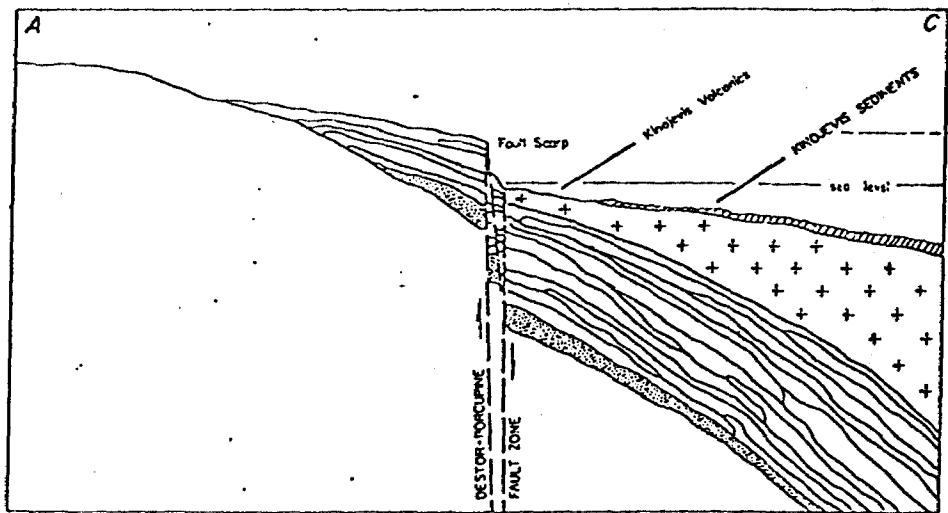
STAGE I: Deposition of Porcupine Group Sediments Within
 FIG. 6 an Intra-cratonic Basin



STAGE II: Extrusion of Stoughton Roquemoure Komatiitic
 FIG. 7 Volcanics From Deep Crystal Fractures, initiation
 of Basinal Subsidence



STAGE III: Continuing Komatiitic Volcanism and Crustal Depression Creates a Rapidly Subsiding Graben. The flanks of the Synclinatorium (Jensen, 1981), are bounded on the north and south of the Destor-Porcupine and the Kirkland Lake-Larder Lake Fault Zone, respectively.

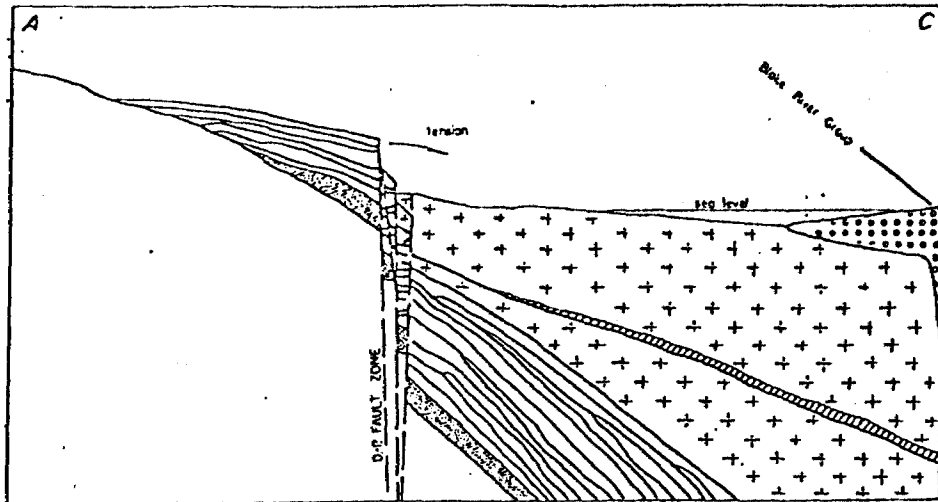


STAGE IV: Transition from komatiitic to tholeiitic volcanism - deposition of the Kinojevis Group. Thick (100m) sequences of sediments are deposited during breaks in eruptive activity. With constant reworking of sediments, gold is concentrated in fluvial and deltaic environments, and eventually, in local basins. Graben subsidence continues.

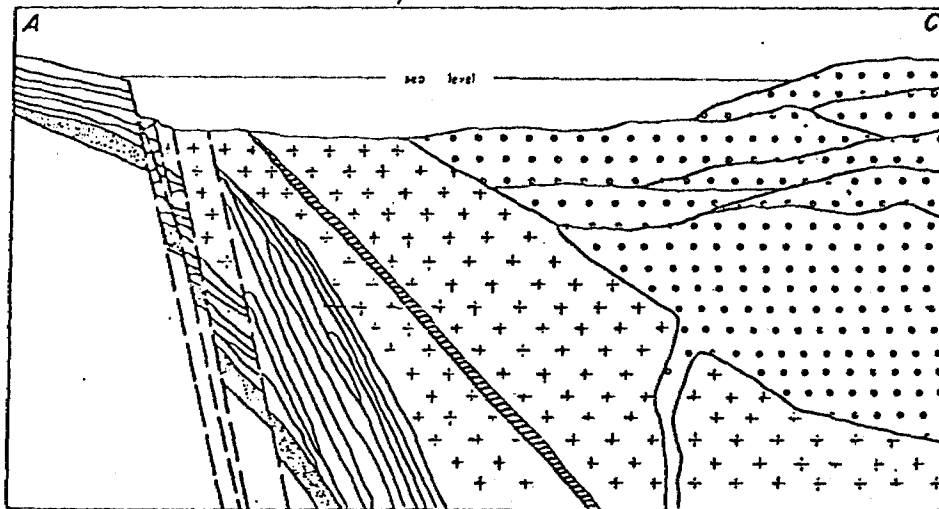
sediments near the margin of the shelf (Figure 8) resulting in the serpentinization of the komatiites and the formation of talc-chlorite schist. The movement produced downward displacement of the rocks on the basin-side of the fault zone relative to the same rocks resting on the shelf of the older volcanic pile. In the Kirkland Lake area, this displacement is estimated to be 20 to 30km, while an estimated displacement of 10-20km for the Lightning River Area is proposed.

Stave IV: At this stage, the emplacement of calc-alkalic volcanic rocks, towards the core of the newly formed volcanic pile was probably associated with an inward collapse of the older volcanic rocks towards the centre of the original basin (Figure 9). Melting of the down-dropped sedimentary and volcanic rocks at the base of the volcanic pile may have produced felsic magma and hydrothermal solutions which penetrated upward along the fault zones resulting in extensive carbonatization, silicification, and deposition of gold in fracture zones of the younger rocks. Such a mechanism would explain the presence of gold in felsic intrusive rocks of the Kirkland Lake area, and gold in quartz-carbonate veins of tholeiitic and komatiitic flow-rocks in other mining camps.

Stave V: The final event was the compression of the fracture zone, possibly associated with the intrusion of granitic batholiths on either side of the fault zone. This caused tight folding and additional fracturing along the fault zones. Migration of the gold into the hinge zones of folds and other dilation zones probably occurred at this stage." (see Figures 10 and 11)



STAGE V-I: Accelerating subsidence applies tension to the
 FIG. 10 Destor-Porcupine Fault Zone. Burial of the
 Kinojevis Sediments by Kinojevis Volcanics and
 high crustal heat flow produces local carbona-
 tization and silicification. Gold undergoes
 limited redistribution under locally produced
 hydrothermal conditions "offshore", island-arc
 calc-alkaline volcanism (Blake River Group),
 begins from a rising magma chamber.



STAGE V-II: With continued extrusion of the Blake River Group,
 FIG. 11 inward collapse of the graben produces dilation of
 the Destor-Porcupine Fault Zone. A second basin
 forms to the north of the growing island-arc vol-
 canic piles. The collapse is a time of hydro-
 thermal and granitic intrusive activity.

1.0 GEOPHYSICS

Although the approximate location of the Barrick horizon was known, magnetometer and VLF surveys were performed in order to try and further delineate this zone. These surveys were also completed in an effort to locate other areas of potential interest on the property.

The magnetometer survey was performed using a Scintrex MP-2 Proton Magnetometer, while the VLF survey was completed using a Geonics EM 16. During the VLF survey two stations were read; Cutler, Maine and Annapolis, Maryland. This was done so as to define conductive bodies which parallel stratigraphy, as well as those that are perpendicular to it. These surveys were conducted over the previously cut grid, with readings taken at 25 meter intervals. The VLF readings were taken facing north. Locally, during the magnetometer survey, readings were taken at 12.5 meter intervals.

When the VLF surveys were completed the information was taken and a Fraser Filter was applied to it; both contour plans and pseudosections were developed. Although both surveys brought out distinct and similar features, minor differences were noted. Some of the anomalies brought out by one survey, were shown to be more continuous and have different attitudes when seen in the other survey, and vice versa. The fact that they showed somewhat contrasting features, when considered together, allowed for a more correct interpretation of the geology.

In light of the findings of the present program, it would appear that the VLF-EM survey using the transmitter located at Cutler, Maine, has best defined what possible is the Upper Zone.

The magnetometer survey appears to have outlined the volcanics and the metasediments. The sedimentary rocks have shown up as a low.

Both the magnetometer and VLF survey seem to indicate that a complex system of easterly and northerly faulting has occurred on the property.

12.0 DIAMOND DRILL PROGRAM

The diamond drill program was initiated on December 6, 1985 and after a short break for Christmas and New Years, was completed on January 28, 1986.

A total of 1449.22 metres of BQ (1 7/16" core size) diamond drilling was completed during the program (see Table 4), with core recovery averaging about 99.9%. The drilling was conducted in eight (8) holes, that were designed to test what was believed to be an east-west trending gold bearing alteration - deformation horizon. As a result of the program it was realized that in fact a total of three zones are present on the property.

Hole 6256-85-1 was intended to locate the auriferous zone, but in fact two horizons, an "upper" and "lower" zone were found. At this time it was not clear as to which zone represented the strike extension of the Barrick horizon, but the alteration as seen in both zones gave encouragement for the possibility of receiving at least anomalous gold values.

It was then planned that hole 6256-85-2, moving south and west from hole -85-1 would probe for the possible down dip and down plunge continuation of these zones. The down dip and down plunge attitude of the mineralized horizon has become apparent from work completed by Barrick Resources on their option properties. Hole -85-2 unfortunately had to be temporarily postponed, due to the difficulty of moving the drill to the top of the ridge.

The second hole to be completed in this program was 6256-85-3, which was intended to test for the strike extension of these two deformational horizons, being 150 metres due west of hole -85-1. These zones were intersected and in fact did appear to be strike extensions of the zones as seen in hole -85-1, but the degree of alteration had diminished to the point that anomalous results were not anticipated.

TABLE 4

MISSION HARKER EXPLORATION LTD.

DIAMOND DRILL PROGRAM SUMMARY

Hole No.	Location		Bearing	Dip	Length	Start	Finish
6256-85-1	L25+00W	1+75N	360°	-50°	152.40	Dec. 8, 1985	Dec. 11, 1985
6256-85-2	L25+62.5W	1+18N	360°	-50°	224.64	Dec. 20, 1985	Jan. 7, 1986
6256-85-3	L26+50W	1+80N	360°	-50°	152.66	Dec. 15, 1985	Dec. 18, 1985
6256-86-4	L26+50W	2+50N	360°	-50°	198.12	Jan. 9, 1986	Jan. 12, 1986
6256-86-5	L27+00W	1+75N	360°	-50°	152.40	Jan. 13, 1986	Jan. 15, 1986
6256-86-6	L26+00W	1+18N	360°	-70°	191.05	Jan. 17, 1986	Jan. 20, 1986
6256-86-7	L26+00W	1+18N	360°	-50°	225.55	Jan. 20, 1986	Jan. 24, 1986
6256-86-8	L26+50W	1+00N	360°	-60°	<u>152.40</u>	Jan. 25, 1986	Jan. 28, 1986

Total 1,449.22m
(4754.66 ft)

Upon acquisition of the appropriate equipment, access to the top of the ridge could be gained and therefore hole -85-2 was completed. Again as in holes -85-1 and -85-3 two zones were encountered. The Upper Zone was the most encouraging returning one section of 2.98 gm/tonne over 4.22 metres. The Lower Zone showed a wide section of alteration, with a section of foliated (sheared) basalt occupying the central portion of this zone.

Hole 6256-86-4 was drilled as a sectional hole to -85-3 being collared 70 metres to the north. This hole, which in part was designed to test a broad VLF-EM conductor, encountered only one alteration-deformation zone equivalent to the Lower Zone-B. Again the degree of alteration and brecciation was disappointing and anomalous gold results were not expected.

Continuing with the westerly stepouts, hole 6256-86-5 was collared and drilled due west of -85-3. Two horizons were again encountered, but as later drilling would show, these two zones (plus the zones in holes -85-3 and -86-4) were in fact a conjugate pair of the Lower zone as found in holes -85-1 and 2. The alteration and deformation horizons in hole -86-5 being very similar to the ones in hole -85-3 and -86-4, were discouraging with low gold values expected.

Therefore with the best results, to the completion of hole -86-5, being received from -85-2, a westerly stepout of 37.5 metres from this collar was planned. Holes 6256-86-6 and -86-7 were drilled from the same set-up, -86-6 at -70° was intended to probe only the Upper Zone, while -86-7 at -50° was designed to test both the Upper and Lower Zones. Visual inspection of the Upper Zone in both holes gave encouragement and suggested that at least anomalous gold results would be returned.

Therefore the final hole, 6256-86-8 a 50 metre westerly and 18 metre southerly stepout was drilled. The results of this hole, designed to test only the Upper Zone, were very encouraging with the alteration zone being very much wider than expected. Due to budgetary restrictions, the hole was stopped in the Upper Zone, before undeformed and unaltered rocks were encountered.

13.0 PROPERTY GEOLOGY

In general, from information obtained during the drill program, the property was found to be underlain by a series of fine to coarse grained basaltic flows. They are composed predominantly of pyroxene, and for the most part, are moderately to intensely fractured. Some sections of good clean pristene basalts were noted as well.

Intercalated within these flows is a sequence of interbedded greywackes and argillites. The sediments are the eastern extension of a north-east trending belt, which culminates in a wedge shape on the Mission-Harker property. The argillites are comprised of siltstone, mudstone and graphitic black shales, which are the most abundant of the three. These units may represent a turbidite sequence.

After the completion of the first hole it was noted that two separate zones of alteration exist. An upper, more intensely altered zone, and a lower zone. The alteration consists of silicification, hematization, carbonatization, seritization and dolomitization. It was not known at this time whether the Upper or Lower Zone was the extension of the Barrick horizon to the east. As the program continued, further drilling to the west indicated that three zones of alteration exist. The Upper Zone, and a bifurcation of the Lower Zone resulting in two separate but related deformational horizons (see 4950m Level Plan).

As more data from the drill program was made available it became apparent that the lower zones, and not the upper zone, were actually the strike extension of the Barrick horizons to the east and west. These lower zones were dominantly confined to deformational packages within the basalts.

The Upper Zone is now thought to be an independent, but genetically related deformational zone, that predominantly coincides with the north-easterly trending interflow sedimentary horizon.

For a detailed account of the geology see the drill logs which accompany this report.

14.0 STRUCTURE

The general structure and attitude of the rock units on the property seems to be very simple. The sedimentary and volcanic rock sequences have an east-northeast strike and dip steeply to the south.

Although the structure appears to be very simple, a complex series of parallel faulting and resulting deformation zones exist. The two dominant orientations are parallel and perpendicular to the stratigraphy. The fact that there are a series of faults parallel to stratigraphy lends some credence to the theories of L.S. Jensen (1981). (See Regional Structure)

The degree of deformation within these zones varies from a shear developed foliation to intensely ground and brecciated sections. This occurs as both narrow discrete units and broad variably developed horizons. It is within these zones, particularly the sections that are highly deformed, that the gold mineralization is found.

15.0 MINERALIZATION AND ALTERATION

A total of three mineralized-alteration zones were located on the Mission-Harker property during this program. Holes -85-1, -2 and -86-7 intersected all three zones, while holes -86-6 and -8 cored only the upper most zone.

15.1 Alteration

The mineralization and alteration is hosted within deformational (i.e., brecciation) zones or horizons, that locally cross-cut stratigraphy, with the degree and intensity

of this alteration showing a marked increase with an increase in brecciation. An intimately associated feature of these deformational horizons are the parallel to subparallel, fault gouges, which are represented by narrow up to 3cm clay to clay-grit seams. These clay seams may represent the last phase of deformation, a reactivation of the fault-breccia deformational horizon. Numerous east-west to south-west trending fault zones have been interpreted for this region. These structures are believed to be genetically related to the Destor-Porcupine Fault Zone (Jensen 1981).

The target horizons have been described and categorized on the basis of alteration and to a slightly lesser degree brecciation. This alteration when best developed can be seen to increase from a margin of foliated basalt or variably silicified zone, through transitionally silicified material to a central core of silicified zone material. This pattern is then reversed and will grade back to a margin of variably silicified material or foliated basalt and finally to unaltered basalt or sediment.

As previously mentioned the dominant form of alteration is silicification, which can be observed in part, by the increase in hardness, and by a grey to pale grey discolouration of the host.

In conjunction with the silicification, other alteration types present are hematization, carbonatization, dolomitization and sericitization.

The hematization is the most dominant of these other alteration types, and can be seen as fracture halos in the basalts. When the degree of fracturing increases to the stage of brecciation, the hematization dominates and the rock takes on a purple to purple grey colour.

A tertiary phase of alteration after silicification and hematization is observed to be the dolomitization. This is characterized by a pale brown to honey brown colour and the alteration is seen to follow the hematization into fractures, showing the later time relationship. An intensely altered section will be almost if not entirely pale brown in colour.

Carbonatization can be seen in three dominant forms, as fracture fillings, and two varieties which are apparently, genetically related to the silicification, hematization and dolomitization. The randomly oriented fractures may either pre or post date the main bulk of the alteration, and do not appear to be related to the gold mineralization. The carbonatization can also be found in foliation planes and fractures parallel to the foliation and can signify the proximity to a zone at higher alteration. A later pervasive style of carbonatization that overprints all other alteration types is also noted. This last form of alteration appears to correlate with a decrease in gold values. An alteration event in this form and post gold emplacement, may flood the system and carry away any free gold, leaving only pyrite protected gold.

Sericitization is noted locally and may be dominantly seen within the altered sediments, but may be a substitute for the dolomitization, given the appropriate host.

The nomenclature developed, generally referring to the type of silicification is briefly described below:

Silicified Zone

An extremely hard rock, showing a volumetric measure of silicification ranging from 95-100%. These zones may show several other forms of alteration and several stages of overprinted intensely developed brecciation.

Transitionally Silicified Zone

Generally a variably brecciated rock, with the silicification being controlled by this earlier deformation event. By volume, silicification ranges from 5-95%. These zones will also host a variety of other alteration types.

Variable Silicified Zone

The host is variably brecciated, ranging from only locally to intensely developed, with the silicification being less than 5% and not intensely developed. These zones will locally show other alteration types.

Alteration Zone

This is a category used to denote zones of poorly developed silicification, i.e., less than variably silicified types and generally lacking any well developed alteration.

These above mentioned categories are applied to either basalts or sediments depending upon where the alteration is developed (Transitionally Silicified Basalt or Transitionally Silicified Sediments).

15.2 Mineralization

Pyrite is the dominant form of sulphide mineralization present, with only a minor amount of chalcopyrite being found in holes -85-1 and -86-8. Pyrite contents ranged from trace to 20% and was found in all rock types during this program.

Within the alteration zones a loose correlation between pyrite and gold content is observed. Therefore elevated pyrite content, along with intense alteration and brecciation give the most positive indications of higher gold values.

The best and most consistent gold results have been received from the Upper Zone (see Table 5), specifically as intersected in holes 6256-85-1 and -2 and holes 6256-86-7 and -8.

All holes that intersected this zone returned wide sections of anomalous assays. For example the zone in hole -86-8, although lacking complete sample coverage, will average no less than 1.08 gm/tonne (0.032 oz/ton) across a drill width of 74.60 metres (244.75 feet).

The Lower Zone did also return anomalous results, but only from the upper or A portion, where an apparently continuous zone of mineralization can be traced from section to section (see 4950m Level Plan). The B portion of this Lower Zone, as tested to-date, shows a substantially lower degree of gold enrichment, when compared to the other two horizons. This would explain the lack of gold values in hole -86-4, which tested only the B portion of this Lower Zone.

At this point in the program, it is apparent that the best and most consistent mineralization is hosted by a south-westerly trending structure (Upper Zone). This structure lies dominantly within a deformed and altered sedimentary horizon. Locally this alteration will include marginal and included sections of basalt, which have a tendency to give better gold assays.

16.0 CONCLUSIONS

As a result of this drill program it was found that the Mission-Harker property is underlain by a series of west to southwest trending mafic volcanic rocks, with associated interflow sediments. The volcanic rocks are composed of a sequence of very fine to coarse grained basaltic flows, which show both massive and flow contact features. Greywackes and argillites form the interflow sediments, with mudstone, claystones and graphitic black shales comprising the argillites.

Two dominant structural trends have been shown to exist by both the diamond drilling and particularly the geophysical surveys. These trends are oriented in northerly and easterly directions. From the drilling to-date, it is apparent that these easterly trending structures act as the control for the alteration and gold mineralization. The northerly trending features appear to represent a later stage of movement, that post-dates gold emplacement, and cause a dislocation of the local stratigraphy.

From information obtained during the drill program, it was found that the property is underlain by at least two of these easterly trending structures. These structural horizons, being fault-breccia zones, have been categorized on the basis of position, by the terms Upper and Lower Zone.

Varying degrees of alteration are associated with these two horizons. The areas of most intense brecciation are generally found to be the most highly altered. The gold values, whether anomalous or ore grade show the greatest affinity for these alteration-breccia zones. The Upper Zone shows the best brecciation and alteration and as a result has yielded the highest gold values to-date (see Table 5).

From the results of this drill program it is clear that the Upper Zone has excellent potential for hosting economic gold mineralization.

17.0 RECOMMENDATIONS

Due to the positive results received from the diamond drilling, a three phase follow-up program is recommended. The first phase, a land survey, should be completed to properly locate the exterior claim boundaries, as well as locate the baseline and all drill hole collar locations.

Phase two would entail induced polarization (IP) and geological surveys, that would be conducted prior to the diamond drill program.

TABLE 5

MISSION HARKER EXPLORATION LTD.

i of ii

GOLD BEARING INTERSECTIONS

gold

Hole Number	Start	End	Length (m)	gm/tonne m	oz/ton ft	Zone Number
6256-85-1	49.25	57.97	8.72	0.88/8.72	0.026/28.61	upper zone
includes	53.05	54.91	1.86	2.17/1.86	0.063/6.10	
6256-85-1	131.30	133.02	1.72	0.46/1.72	0.013/5.64	lower zone A
6256-85-2	96.30	112.52	16.22	1.34/16.22	0.039/53.21	upper zone
includes	104.30	112.52	8.22	1.89/8.22	0.055/26.97	
includes	108.30	112.52	4.22	2.98/4.22	0.087/13.85	
6256-85-2	193.12	195.15	2.03	2.20/2.03	0.064/6.66	lower zone A
6256-85-2	199.00	200.00	1.00	0.41/1.00	0.012/3.28	lower zone A
6256-85-3	82.00	84.00	2.00	0.48/2.00	0.014/6.56	lower zone A
6256-86-4	no intersections over 0.34 gms/tonne					
6256-86-5	79.00	80.39	1.39	0.34/1.39	0.01/4.56	lower zone A
6256-86-6	54.60	55.60	1.00	0.41/1.00	0.012/3.28	
6256-86-6	88.00	89.30	1.30	0.48/1.30	0.014/4.27	
6256-86-6	102.56	117.95	15.39	0.46/15.39	0.013/50.49	
includes	102.56	105.44	2.88	0.37/2.88	0.011/9.45	upper zone
includes	107.83	117.95	10.12	0.158/10.12	0.017/33.20	
6256-86-6	154.20	154.82	0.62	2.61/0.62	0.076/2.03	*hbz
6256-86-7	51.63	82.60	30.97	1.23/30.97	0.036/101.61	upper zone
includes	51.63	55.74	4.11	0.38/4.11	0.011/13.48	
includes	59.20	60.71	1.51	15.92/1.51	0.464/4.95	
includes	78.86	81.62	2.76	2.28/2.76	0.067/9.06	
6256-86-7	152.60	155.60	3.00	0.43/3.00	0.013/9.84	lower zone A

*hydrothermal breccia zone

TABLE 5 cont'd

MISSION HARKER EXPLORATION LTD.
GOLD BEARING INTERSECTIONS CONT'D

ii ● ii

Hole Number	Start	End	Length (m)	gold		Zone Number
				<u>gm/tonne</u> m	<u>oz/ton</u> ft	
6256-86-8 includes	95.62	100.62	5.00	3.45/5.00	0.101/16.40	upper zone
	95.16	97.62	2.00	7.49/2.00	0.218/6.56	upper zone
6256-86-8	103.66	104.15	0.49	6.17/0.49	0.180/1.61	upper zone
6256-86-8	127.51	129.30	1.79	6.03/1.79	0.176/5.87	upper zone
6256-86-8	136.83	139.44	2.61	4.99/2.61	0.146/8.56	upper zone
6256-86-8 includes	143.94	151.48	7.64	2.19/7.64	0.064/25.07	upper zone
	143.94	146.61	2.67	3.80/2.67	0.111/8.76	upper zone

The induced polarization survey is intended to better define the mineralized horizons, especially the Upper Zone. It is anticipated that this limited IP coverage will require four days to complete.

At this time, a full scale mapping program is not recommended, but a limited examination of known bedrock exposures would enhance the overall geological understanding of this property. This would be advantageous especially in areas where the known mineralized horizons might outcrop. A total of four days of mapping will be sufficient to complete this phase.

Phase three, the diamond drilling portion of this program, is designed to define the nature and dimensions of the known mineralized horizons. The Upper Zone will be the main target of this phase. This would entail approximately 4700 metres (15,420 feet) of diamond drilling.

18.0 BUDGET

Phase I - Boundary SurveySurvey Costs

4.0km exterior boundary

1.5km baseline

8 drill hole collar locations

- estimated

10,000.00

Phase II - Induced Polarization and Geological SurveyInduced PolarizationSurvey Costs

3.2km @ 0.80km/day

4.0 days @ \$1200./day

4,800.00

Supervision

1.0 days @ \$300./day

300.00

Map Preparation

2.0 days @ \$300./day

600.00

GeologySurvey Costs

4 days @ \$500./day

2,000.00

- includes geologist and assistant

Report and Map Preparation

2 days @ \$300./day

600.00

Field Accommodation and Living Expenses

500.00

Travel - gas and kilometer charge

500.00

Total - Phase I and II

\$19,300.00Phase III - Diamond Drilling

- all inclusive

4700 metres @ \$91.84/metre

431,648.00

Total - Phase III

431,648.00

Total - Phase I, II and III	450,948.00
Plus 10% contingencies	<u>45,094.80</u>
Total	\$496,042.80
	say <u>\$496,000.00</u>

Respectfully submitted,

Stephen W. Conquer, B.Sc.

Mike Simunovic, B.Sc.

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Satterly, J.

1951: Geology of Harker Township, Cochrane District; Ontario Dept. of Mines Annual Report, Vol. LX, part VII, 1951; with accompanying Map No. 1951-4. Geology 1948 and 1949.

1953: Geology of the North Half of Holloway Township, Cochrane District; Ontario Dept. of Mines Annual Report, Vol. LXII, part VII, 1953, pl-38; with accompanying Map No. 1953-4.

PERSONNEL

Stephen W. Conquer
261 Third Avenue
Timmins, Ontario
P4N 1E8

December 1, 1985 - December 20, 1985
January 6, 1986 - February 21, 1986

Mike Simunovic
261 Third Avenue
Timmins, Ontario
P4N 1E8

December 1, 1985 - December 20, 1985
January 6, 1986 - February 21, 1986

CERTIFICATE OF QUALIFICATIONS

I, Stephen Conquer hereby certify:

1. that I am a geologist employed by David R. Bell Geological Services Inc., 261 Third Avenue, Timmins, Ontario
2. that I am a graduate of the University of Waterloo, holding a Bachelor of Science degree (1979)
3. that I have been practising my profession as a geologist since 1979
4. that I do not have nor do I expect to receive either directly or indirectly, any interest in this property or the securities of Mission-Harker Exploration Ltd.

February 21, 1986
Timmins, Ontario

Stephen W. Conquer, B.Sc.

CERTIFICATE OF QUALIFICATIONS

I, Mike Simunovic hereby certify:

1. that I am a geologist employed by David R. Bell Geological Services Inc., 261 Third Avenue, Timmins, Ontario
2. that I am a graduate of Lakehead University in Thunder Bay, holding a Bachelor of Science degree in Geology (1983)
3. that I do not have nor do I expect to receive either directly or indirectly, any interest in this property or the securities of Mission-Harker Exploration Ltd.

February 21, 1986
Timmins, Ontario

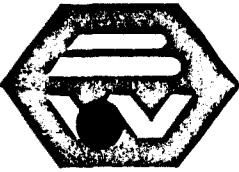
Mike Simunovic, B.Sc.

ACKNOWLEDGEMENTS

The firm of David R. Bell Geological Services Inc. would like to express their appreciation to the following companies, without who's assistance the successful completion of this program would not have been possible.

- 1) Norex Drilling
- 2) Bell-White Laboratories
- 3) Henry T. Gonzales - Linecutting Services
- 4) American Barrick Resources Corp.

APPENDIX I
ASSAY RESULTS FROM DIAMOND DRILLING



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 39160

DATE: December 18, 1985

SAMPLE(S) OF: Core(60)

RECEIVED: December, 1985

SAMPLE(S) FROM: Mr. S. Conquer, David R. Bell Geological Services Inc.

PROJECT: 6256

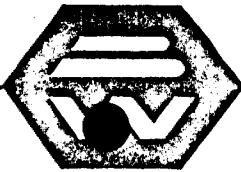
<u>Sample No.</u>	<u>Gold gram</u>	<u>Sample No.</u>	<u>Gold gram</u>
0001	0.21	0031	1.10
2	3.98*	2	0.07
3	Trace	3	0.07
4	Trace	4	0.07
5	Trace	5	Trace
6	Trace	6	0.21
7	Trace	7	0.14
8	Trace	8	Trace
9	Trace	9	Trace
0010	Trace	0040	0.07
1	Trace	1	Trace
2	Trace	2	Trace
3	Trace	3	Trace
4	0.07	4	Trace
5	Trace	5	Trace
6	Trace	6	Trace
7	0.69	7	0.07
8	0.34	8	0.34
9	0.75	9	0.55
0020	0.89	0050	Trace
1	2.81	1	Trace
2	1.58	2	Trace
3	0.07	3	Trace
4	0.55	4	Trace
5	0.41	5	Trace
6	Trace	6	Trace
7	0.07	7	0.07
8	0.48	8	0.14
9	Trace	9	Trace
0030	0.07	0060	Trace

* Checked.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER 



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 41310

DATE: December 31, 1985

SAMPLE(S) OF: Core(51)

RECEIVED: December, 1985

SAMPLE(S) FROM: Mr. Stephen Conquer, David R. Bell Geological Services Inc.

PROJECT: # 6256

<u>Sample No.</u>	<u>Gold gram</u>	<u>Sample No.</u>	<u>Gold gram</u>
0061	Trace	0089	Trace
2	Trace	0090	0.07*
3	Trace	1	Trace
4	Trace	2	Trace
5	Trace	3	Trace
6	0.21	4	0.07*
7	Trace	5	Trace
8	0.27	6	Trace
9	Trace	7	0.07*
0070	Trace	8	0.07*
1	Trace	9	3.15**
2	Trace	0100	0.62
3	Trace	1	0.41
4	0.07*	2	0.41
5	0.07*	3	0.21
6	Trace	4	0.55
7	0.07*	5	1.37
8	0.55	6	0.69
9	0.41	7	0.48
0080	0.27	8	0.41
1	Trace	9	6.62**
2	Trace	0110	2.74
3	Trace	1	3.77**
4	0.07*		
5	0.07*		
6	Trace		
7	Trace		
8	Trace		

* Estimated.

** Checked.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 0104

DATE: January 14, 1986

SAMPLE(S) OF: Core(46)

RECEIVED: January, 1986

SAMPLE(S) FROM: Mr. M. Siminovic,
David R. Bell Geological Services Inc.

PROJECT: 6256

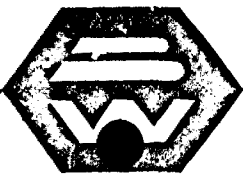
<u>Sample No.</u>	<u>Gold gram</u>	<u>Sample No.</u>	<u>Gold gram</u>
112	Trace	135	0.96
3	Trace	6	Trace
4	0.07*	7	0.07
5	Trace	8	0.21
6	Trace	9	Trace
7	Trace	140	0.41
8	Trace	1	0.07
9	Trace	2	Trace
120	Trace	3	Trace
1	Trace	4	Trace
2	Trace	5	Trace
3	Trace	6	Trace
4	Trace	7	Trace
5	Trace	8	Trace
6	0.21	9	Trace
7	Trace	150	Trace
8	Trace	1	Trace
9	Trace	2	Trace
130	Trace	3	0.07
1	Trace	4	Trace
2	Trace	5	Trace
3	0.14	6	Trace
4	3.53**	7	0.75

* Estimated.

** Checked.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 0133

DATE: January 20, 1986

SAMPLE(S) OF: Core(46)

RECEIVED: January, 1986

SAMPLE(S) FROM: Mr. M. Simunovic, David R. Bell Geological Services Inc.

PROJECT: # 6256

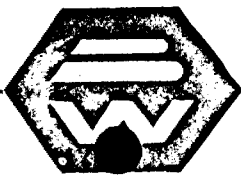
<u>Sample No.</u>	<u>Gold gram</u>	<u>Sample No.</u>	<u>Gold gram</u>
0158	0.07*	0181	Trace
9	0.41	2	Trace
0160	0.49	3	Trace
1	Trace	4	Trace
2	Trace	5	Trace
3	Trace	6	Trace
4	0.07*	7	Trace
5	0.07*	8	Trace
6	Trace	9	Trace
7	Trace	0190	Trace
8	Trace	1	Trace
9	Trace	2	Trace
0170	Trace	3	Trace
1	Trace	4	Trace
2	0.07*	5	Trace
3	0.07*	6	Trace
4	0.34	7	Trace
5	Trace	8	Trace
6	Trace	9	Trace
7	Trace	0200	Trace
8	0.21	1	Trace
9	Trace	2	Trace
0180	0.07*	3	Trace

* Estimated.

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PER 



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P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 0159

DATE: January 24, 1986

SAMPLE(S) OF: Core(29)

RECEIVED: January, 1986

SAMPLE(S) FROM: Mr. M. Simunovic, David R. Bell Geological Services Inc.

PROJECT: 6256

<u>Sample No.</u>	<u>Gold gram</u>
0204	Trace
5	0.41
6	Trace
7	Trace
8	Trace
9	0.48
0210	0.07*
1	0.75
2	Trace
3	0.41
4	Trace
5	0.07*
6	0.07*
7	0.27
8	0.41
9	0.69
0220	0.96
1	0.75
2	0.75
3	0.48
4	0.41
5	0.34
6	0.27
7	0.75
8	Trace
9	Trace
0230	Trace
1	Trace
2	2.61**

* Estimated.

** Checked.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

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BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 0177

DATE: January 29, 1986

SAMPLE(S) OF: Core(71)

RECEIVED: January, 1986

SAMPLE(S) FROM: Mr. Stephen Conquer, David R. Bell Geological Services Inc.

PROJECT: 6256

<u>Samp.No.</u>	<u>Gold gram</u>	<u>Samp.No.</u>	<u>Gold gram</u>	<u>Samp.No.</u>	<u>Gold gram</u>
0233	0.69	0257	0.41	0281	0.07*
4	0.14	8	0.41	2	Trace
5	0.48	9	0.21	3	0.07*
6	0.21	0260	0.07*	4	0.07*
7	0.07*	1	0.21	5	Trace
8	0.07*	2	0.27	6	0.21
9	Trace	3	1.23	7	Trace
0240	14.26**	4	1.58	8	Trace
1	19.17**	5	1.37	9	Trace
2	0.82	6	5.28**	0290	Trace
3	0.27	7	0.27	1	0.07*
4	0.27	8	0.07*	2	Trace
5	0.55	9	Trace	3	0.07*
6	0.14	0270	Trace	4	Trace
7	Trace	1	0.21	5	Trace
8	Trace	2	Trace	6	Trace
9	0.27	3	Trace	7	Trace
0250	0.21	4	Trace	8	Trace
1	0.14	5	0.07*	9	Trace
2	0.82	6	0.27	0300	Trace
3	0.07*	7	0.21	1	Trace
4	0.48	8	0.82	2	0.07*
5	0.07*	9	0.07*	3	0.07*
6	0.89	0280	Trace		

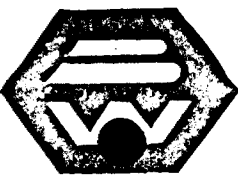
* Estimated.

** Checked.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH-AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

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BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

NO. 0203

DATE: February 4, 1986

SAMPLE(S) OF: Core(63)

RECEIVED: January, 1986

SAMPLE(S) FROM: Mr. M. Simunovic, David R. Bell Geological Services Inc.

PROJECT: 6256

<u>Sample No.</u>	<u>Gold gram</u>	<u>Sample No.</u>	<u>Gold gram</u>
0304	0.48	0336	0.14
5	0.27	7	0.48
6	0.07*	8	0.96
7	0.21	9	1.03
8	0.41	0340	5.49**
9	0.21	1	6.72**
0310	0.62	2	0.41
1	0.34	3	0.96
2	0.27	4	0.62
3	0.75	5	0.41
4	0.34	6	0.41
5	0.27	7	0.34
6	0.96	8	0.62
7	0.48	9	4.42**
8	0.75	0350	4.97**
9	0.96	1	5.83**
0320	1.65	2	1.17
1	0.55	3	0.27
2	0.14	4	0.48
3	0.48	5	0.27
4	0.41	6	0.41
5	0.34	7	2.74
6	0.21	8	2.13
7	9.22**	9	5.25**
8	5.76**	0360	0.34
9	0.62	1	1.65
0330	1.44	2	1.23
1	0.14	3	1.17
2	6.17**	4	2.06
3	0.62	5	1.10
4	0.14	6	0.96
5	0.34		

* Estimated.

** Checked.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE RECORD

Project 6256 Harker Twp.

Company Mission Harker Exploration Ltd.

Hole No. 6256-85-1

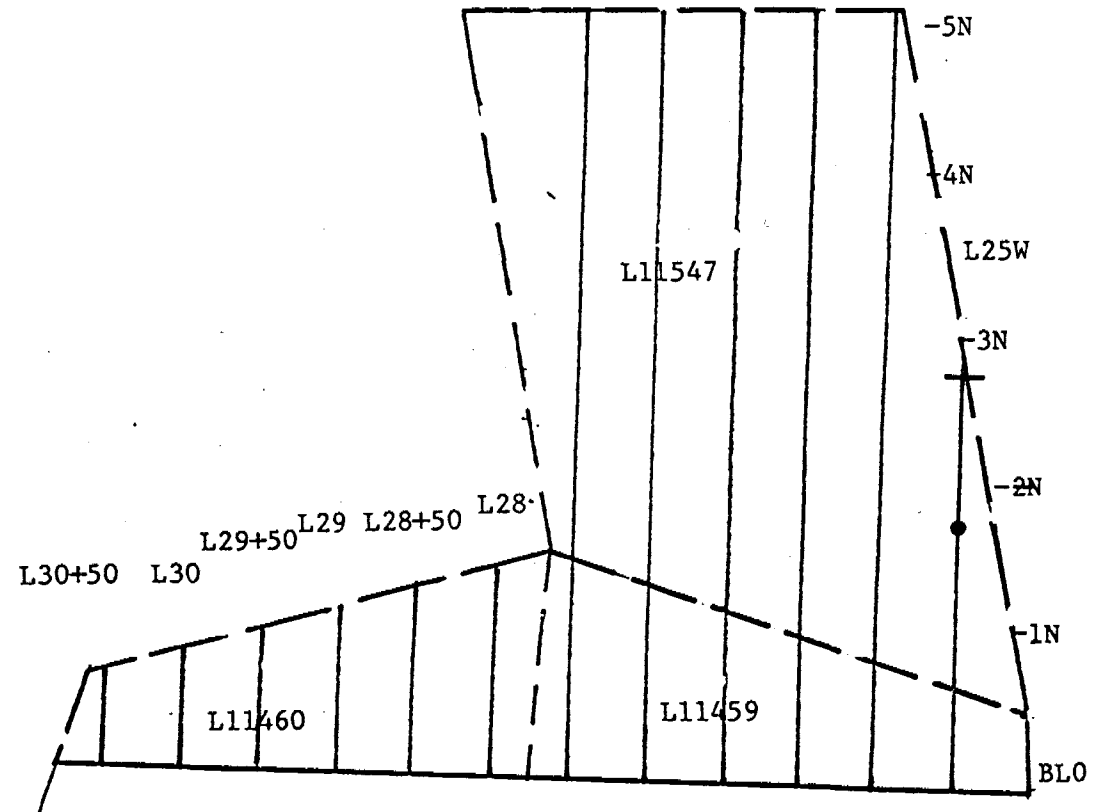
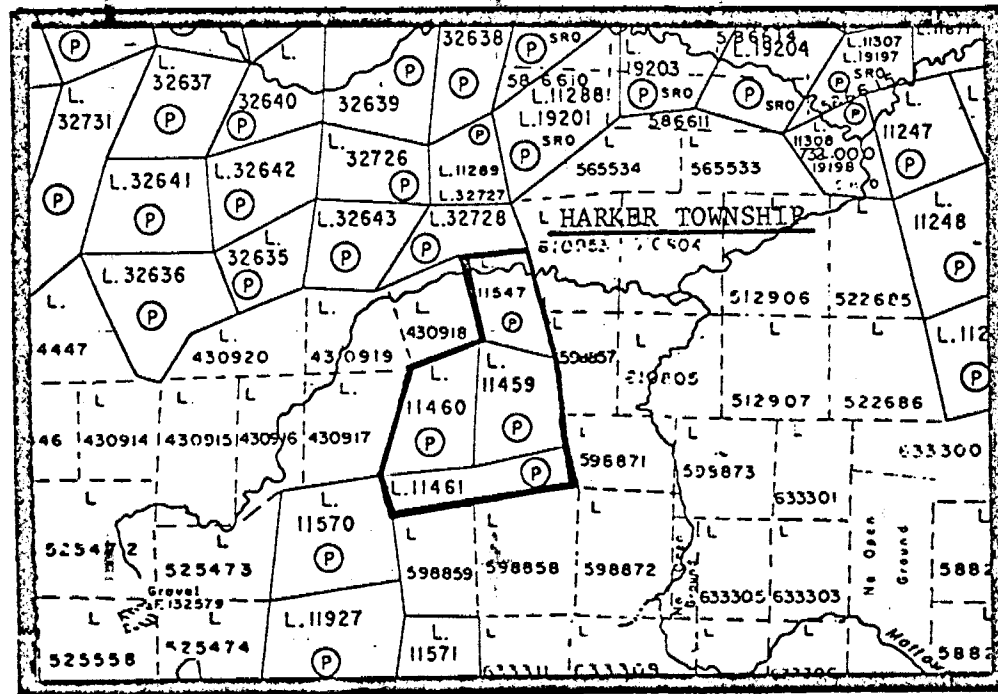
LOCATION	DIP TEST		LEVEL	Surface	HORIZONTAL COMPONENT	DATE STARTED
AREA or TWP. <u>Harker Twp.</u>	FOOTAGE	ANGLE			102.00m	Dec. 8/85
		RECORDING			VERTICAL COMPONENT	DATE FINISHED
	<u>0.00m</u>				120.75m	Dec. 11/85
CLAIM NO. <u>L11547</u>	<u>19.50m</u>		ELEVATION	<u>4991.96</u>	BEARING	LOGGED BY
	<u>91.44m</u>				<u>360°</u>	<u>Stephen Conquer</u>
	<u>152.40m</u>		LATITUDE	<u>L25+00W</u>	LENGTH	PURPOSE
NTS <u>32D12</u> UTM					<u>152.40</u>	<u>to test gold bearing horizon</u>
			DEPARTURE	<u>1+75N</u>	CORE LOCATION	TOT. RECOVERY
					<u>MMNR Kirkland Lake core library</u>	<u>99.9%</u>

DIAMOND DRILL HOLE LOCATION SKETCHES
CLAIM MAP Scale: 1 to 31680

DIAMOND DRILL HOLE LOCATION
WITH RESPECT TO CLAIM BOUNDARIES
Scale: 1 to 5000

Signature *Stephen Conquer*
Mike Sumner

L27+50 L27 L26+50 L26 L25+50



David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256-Harker Twp.

Company Mission Harker Exploration Ltd.

HOLE No. 6256-85-1 Page 2 of 6

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS						
FROM	TO				NUMBER 6256	FROM	TO	LENGTH	Au g/t	GW					
		-py 7-10% as f-mg disseminations and aggregate masses in chlc remnants and fractures -generally py shows cubic shape -lower section shows wh-pa gn colour instead of pur-gy -cb in fractures 36.55-40.92: variably sid-hemd zone, 32% sin -dk gn with pu col in sid sections -locally brick red strongly hem -locally mag cb in fractures -py 1-3%, locy up to 5% -crude foln or fractures @ 40° TCA 40.92-41.25: mafic dyke-gy gn pervasively cb'd, sharp lower contact, upper contact lost in rubble													
41.25	50.07	<u>Foliated Basalt</u> -f-vfg variably foliated unit gn to gngy with local pu (hemd) sec -foln planes hild by wispy ygn micaceous material probably stress related -foliation also highlighted by cbn -py 1-2% -foliation @ 42° -micro fractures show displacement, top block up, bottom block down -44.86-44.97 sid-hemd (py) dyke sharp contacts and have wt feldspar phenocrysts													
50.07	62.84	<u>Silicified Zone</u> -intensely silicified (95-100%) and hemd locally dold -most intense altn shown by pa bn to hon cold dold sections, with hemd sec being shown by pur colour													
					1-3	0003	36.55	37.55	1.00	tr					
					1-3	0004	37.55	38.55	1.00	tr					
					1-3	0005	38.55	39.52	0.97	tr					
					1-3	0006	39.52	40.54	1.02	tr					
					1-3	0007	40.54	40.92	0.38	tr					
					tr	0008	40.92	41.25	0.33	tr					
					1-2	0009	41.25	42.25	1.00	tr					
					1-2	0010	42.25	43.25	1.00	tr					
					1-2	0011	43.25	44.25	1.00	tr					
					1-2	0012	44.25	45.23	0.98	tr					
					1-2	0013	45.23	46.25	1.02	tr					
					1-2	0014	46.25	47.25	1.00	0.07					
					1-2	0015	47.25	48.25	1.00	tr					
					1-2	0016	48.25	49.25	1.00	tr					
					1-2	0017	49.25	50.07	0.82	0.69	0.57				
					3-5	0018	50.07	50.90	0.83	0.34	0.28				
					10-15	0019	50.90	51.95	1.05	0.75	0.79				
					20-25	0020	51.95	53.05	1.10	0.89	0.98				
					20.25	0021	53.05	53.94	0.89	2.89	2.50			2.17g/t	1.86m

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-85-1 Page 3 of 6

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS					
FROM	TO				NUMBER 6256	FROM	TO	LENGTH	Au g/t	GW				
		-altn fracture bx controlled with intense bxn to intense altn -py content averages 1-3% as fg disseminations locally up to 20-25% and in fractures and clots -main fractures @ 35° and 70° and main @ 45° TCA -fractures late cb filled and may show doln with dold halos into hemd rock -non-mag, locy massive cpy sections -locy rubbled 50.07-54.80m												
		50.07-53.05: 40% dold after hemn, py avg 15%, 51.20 fault zone		15-20	0022	53.94	54.91	0.97	1.58	1.53				0.79
				3-5	0023	54.91	55.95	0.07	0.07	0.07				9.74
				3-5	0024	55.95	56.97	1.02	0.55	0.56				
				3-5	0025	56.97	57.97	1.00	0.41	0.41				
				3-5	0026	57.97	58.99	1.02	tr					
				3-5	0027	58.99	59.99	1.00	0.07					
				3-5	0028	59.99	60.97	0.98	0.48					
				3-5	0029	60.97	61.58	0.61	tr					
				3-5	0030	61.58	62.18	0.60	0.07					
		53.05-53.94: 70% doln, but also shows relict or retrograde chl and min pervasive cbn -foln @ 53.94m to 40°												
		53.94-62.18: hemd, with only minor doln along and as halos to fractures -cb filled fractures, with local minor pervasive cbn -intensity of sin decreased down section												
		62.18-62.84: dold (70%) hemd, sid, 30% py		30%	0031	62.18	62.84	0.66	1.10	0.73				
62.84	66.52	<u>Variably Silicified Basalts</u>												
		-fg pur, variably sid basalts, highly hemd, strongly mag from 64.95		1-2	0032	62.84	63.84	1.00	0.07					
		-very similar to above section from 53.94-62.18 except sin weakly developed locally and no doln		1-2	0033	63.84	64.84	1.00	0.07					
		-py 1-2%		1-2	0034	64.84	65.84	1.00	0.07					
		-foln or fractures @ 50° TCA @ 62.75 @ 35° @ 66.40		1-2	0035	65.84	66.52	0.68	tr					

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

Company Mission Harker Exploration Ltd.

HOLE No. 6256-85-1 Page 4 of 6

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS						
FROM	TO				NUMBER 6256	FROM	TO	LENGTH	Au g/t						
66.52	107.15	<p><u>Basalt</u></p> <p>-vfg-mg flows from massive to flow top bx</p> <p>-66.52-89.51: f-mg gygn, strongly mag flows -eip and cb fractures -locy min hemn-sin-bxn i.e., 77.40 @ 20° TCA and 82.20 @ 20° TCA with minor doln</p> <p>-79.03-81.85: fault zone - rubbled and weathered core with clay-grit</p> <p>89.51-92.56: Flow Top bx - aph, srnd-ang fragments in fg matrix -bx frag hemd-sid and vesicular -also secondary hemd-sid bx zones i.e., 91.75 @ 25° TCA</p> <p>92.56-107.15: f-mg massive flow, gygn, mag tr-1% py -only locally mag below 106.70</p>													
				2-3	0036	77.33	77.83	0.50	0.21						
				3-5	0037	81.90	82.90	1.00	0.14						
				1-3	0038	89.51	90.51	1.00	tr						
				1-3	0039	90.51	91.51	1.00	tr						
				3-5	0040	91.51	92.56	1.05	0.07						
107.15	130.12	<p><u>Variably Silicified Basalt</u></p> <p>-f-mg massive flow as above, except now shows moderately - well developed fracturing that locally approaches bxn -in these bxd zones weakly developed hemn-sin is noted along with py up to 4% -best @ 109.00-110.00m</p> <p>107.15-cb qtz filled shear-bx zone @ 20° TCA 130.00 @ 35° TCA - foliation</p>													
				1-3	0041	108.00	109.00	1.00	tr						
				1-3	0042	109.00	110.00	1.00	tr						
				1-3	0043	110.00	111.00	1.00	tr						
				1-3	0044	123.78	124.78	1.00	tr						
				1-3	0045	124.78	125.78	1.00	tr						
				1-3	0046	125.78	126.78	1.00	tr						

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-85-1 Page 5 of 6

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS					
FROM	TO				NUMBER 6256	FROM	TO	LENGTH	Au g/t	GW				
130.12	144.12	<p><u>Transitionally Silicified Basalt</u></p> <p>-hemm-sin and min doln is developed to a greater degree than variably silicified basalt noted above, especially sin and doln</p> <p>-sin averages 10-15% being generally concentrated in more bxd zones</p> <p>-this zone is more highly foliated, with foliation planes averages 50-60° TCA</p> <p>-py content ranges from tr to 15-20% locally</p> <p>-doln @ 130.25 and 131.70m</p> <p>-where altn is low rock is echlc gn</p> <p>-clay seams</p> <p>1mm @ 133.01m @ 60° TCA</p> <p>2cm @ 136.47 @ 65° TCA</p> <p>1mm @ 137.50 @ 55° TCA</p> <p>composite { 1mm @ 138.84 @ 55° TCA</p> <p>6mm @ 138.93 @ 55° TCA</p> <p>1cm @ 139.04 @ 55° TCA</p> <p>6mm @ 139.21 @ 55° TCA</p> <p>133.96-135.96: chlc sec, sin less than 5%</p> <p>135.96-139.90: sin not intense but averages 30%, py 3-5%</p> <p>-sin with hemm, min dol and ser is found in narrow zones up to lcm between foliation planes</p> <p>139.90-144.12: altn as sin (well developed) up to 60% with hemm and moderately developed doln and min sern, py 10-15%</p> <p>-bxd - only locy foliated</p>												
				5-7	0047	130.12	131.30	1.18	0.07					
				10-15	0048	131.30	132.04	0.74	0.34	0.25	0.46			
				10-15	0049	132.04	133.02	0.98	0.55	0.54	1.72			
				5-7	0050	133.02	133.96	0.94	tr					
				1-3	0051	133.96	134.96	1.00	tr					
				1-3	0052	134.96	135.96	1.00	tr					
				3-5	0053	135.96	136.99	1.03	tr					
				3-5	0054	136.99	137.98	0.99	tr					
				3-5	0055	137.98	138.93	0.95	tr					
				3-5	0056	138.93	139.90	0.97	tr					
				10-15	0057	139.90	140.90	1.00	0.07					
				10-15	0058	140.90	141.91	1.01	0.14					
				10-15	0059	141.91	142.91	1.00	tr					
				10-15	0060	142.91	144.12	1.21	tr					

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE RECORD

Project 6256-Harker Twp.

Company Mission Harker Exploration Ltd.

Hole No. 6256-85-2

LOCATION		DIP TEST		LEVEL	HORIZONTAL COMPONENT		DATE STARTED
AREA or TWP. Harker Twp.	FOOTAGE 0.00	ANGLE		Surface	155.00m		Dec. 20/85
		RECORDING	CORRECTED		VERTICAL COMPONENT		DATE FINISHED
CLAIM NO. L11547	60.96	-50°	-50°	ELEVATION	162.00m		Jan. 7/86
	121.92		-47°	LATITUDE	360°		LOGGED BY Stephen Conquer
	182.88		-46°	DEPARTURE	224.64		PURPOSE to test gold bearing horizon
NTS 32D/12 UTM	224.64		-44°	L25+62.5W	MMNR core library		TOT. RECOVERY 99.9%
			-43°	1+18N	Kirkland Lake		

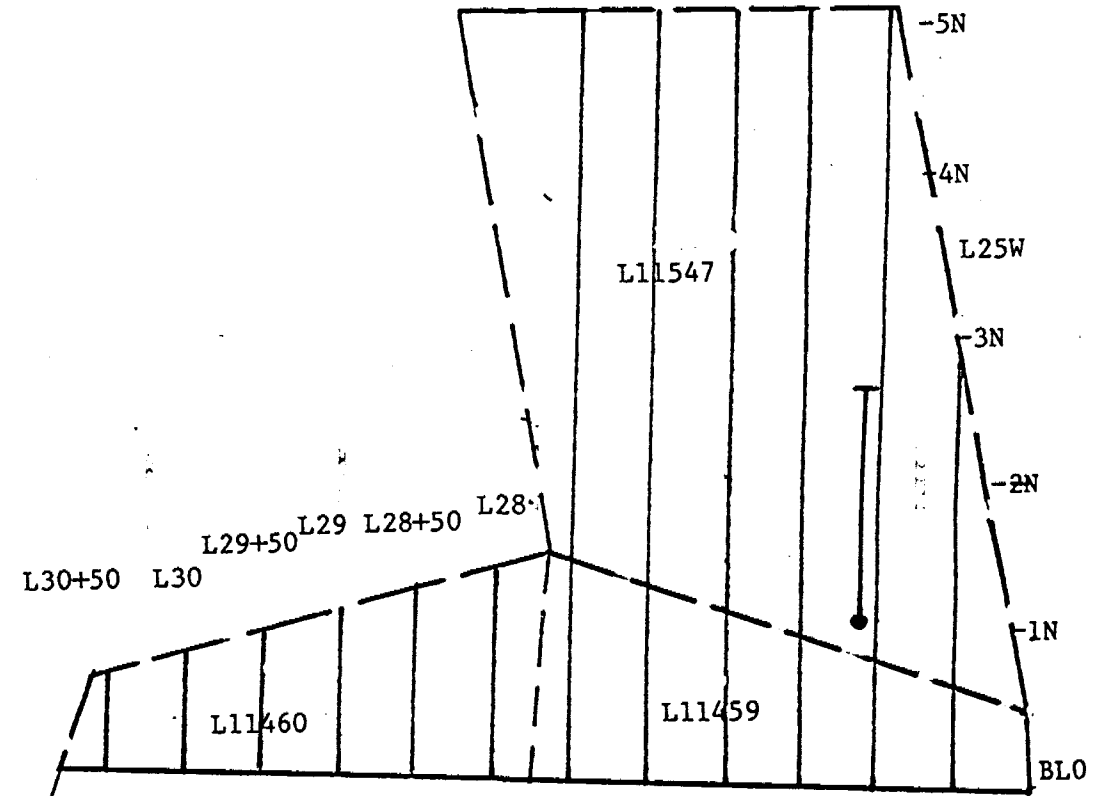
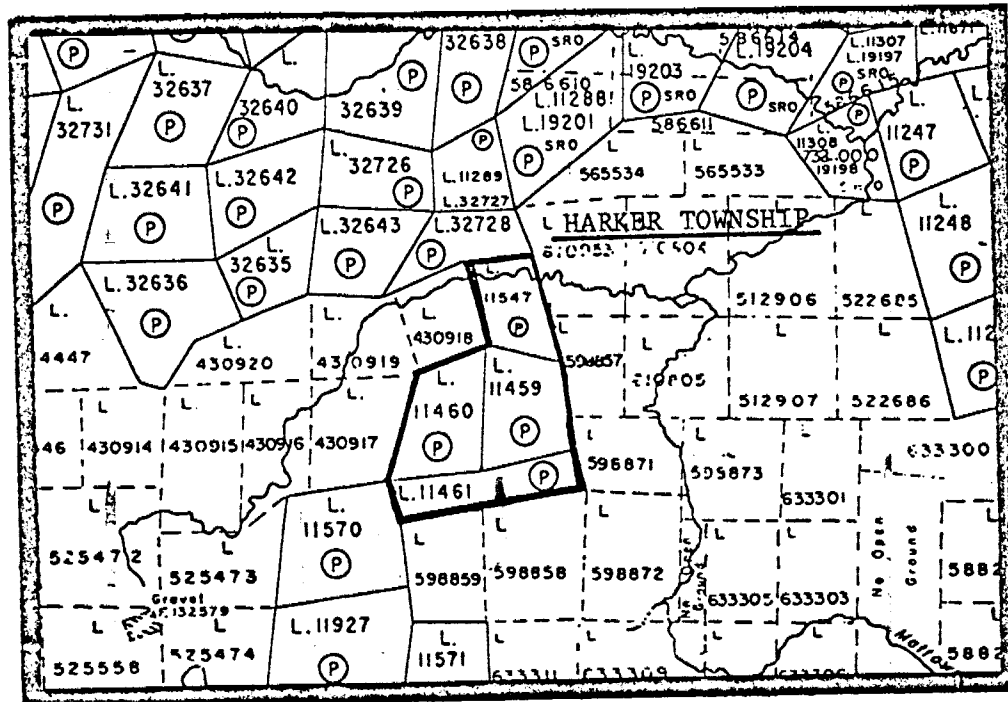
DIAMOND DRILL HOLE LOCATION SKETCHES
CLAIM MAP Scale: 1 to 31680

DIAMOND DRILL HOLE LOCATION
WITH RESPECT TO CLAIM BOUNDARIES
Scale: 1 to 5000

Signature *Stephen Conquer*

Mike Sumner

L27+50 L27 L26+50 L26 L25+50



David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

Company Mission Harker Exploration Ltd.

HOLE No. 6256-85-2 Page 2 of 6

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	SULPHIDES	SAMPLE			ANALYTICAL RESULTS							
FROM	TO				NUMBER 6256	FROM	TO	LENGTH	Au g/t	GW					
3.04	81.38	<u>Basalt cont'd</u> 37.44-81.38: fg-vfg massive flow cont'd 80.05: py increase to 2-3%, plus locally magnetic to 81.38m													
81.38	98.30	<u>Sediments</u> 81.38-98.00: greywacke - fg, gy-gngy -upper contact weakly alt'd by above basalt -variably bedded - 40° TCA @ 81.60m -25° TCA @ 89.30m -py averages 1-2%, with up to 3% locally and tr-1% cpy -moderately to strongly magnetic locally -minor cb in bedding planes with local pk colour suggest K-spar alt'n i.e., 89.30m -bedding planes locally highlighted by wispy micaceous material-possibly sericite suggests shear developed foliation -late randomly oriented fractures are qtz-cb filled and locally show sid holes i.e., 87.70m - late cb fractures locally @ 90° to bedding -98.00-98.30: argillaceous with graphite which grades to greywacke	40° 25°												
98.30	104.30	<u>Silicified Zone - Sediments</u> -intensely sid (95-100% sid) -101.00m: becomes moderately to well fractured with narrow bx zones -bedding @ 45° TCA @ 98.38m -py 7-10% as disseminations and fracture fillings -clay seams 101.60m @ 42° TCA - 1mm 101.73m @ 65° TCA - 1mm 102.43m @ 45° TCA - 2cm - clay-grit	45°												
				tr-1	0097	87.47	88.47	1.00	0.07						
				tr-1	0098	88.47	89.47	1.00	0.07						
				tr-1	0158	95.30	96.30	1.00	0.07						
				tr-1	0159	96.30	97.30	1.00	0.41						
				tr-1	0160	97.30	98.30	1.00	0.49						
				7-10	0099	98.30	99.30	1.00	3.15	3.15					
				7-10	0100	99.30	100.30	1.00	0.62	0.62					
				7-10	0101	100.30	101.30	1.00	0.41	0.41					
				7-10	0102	101.30	102.30	1.00	0.41	0.41					
				7-10	0103	102.30	103.30	1.00	0.21	0.21					
				7-10	0104	103.30	104.30	1.00	0.55	0.55					
														1.47	
														14.22	

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-85-2 Page 3 of 6

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	SULPHIDES	SAMPLE				ANALYTICAL RESULTS					
FROM	TO				NUMBER 6256	FROM	TO	LENGTH	Au g/t	Gw				
104.30	109.05	<u>Silicified Zone - Basalts</u> -contact poorly defined -becomes intensely (very fine) bxd -hem'n-dol'n becomes apparent -continuation of above zone												
				7-10	0105	104.30	105.30	1.00	1.37	1.37				
				7-10	0106	105.30	106.30	1.00	0.67	0.67				
				7-10	0107	106.30	107.30	1.00	0.48	0.48				
				7-10	0108	107.30	108.30	1.00	0.41	0.41				
				7-10	0109	108.30	109.05	0.75	6.62	4.97			1.89gm	8.22m
109.05	112.00	<u>Variably Silicified Basalt</u> -f-vfg massive flow, gngy to gn locally mag -alt'n and bxn has decreased from above si'd zone -only locally sid (approx. 5%) with hem'n-dol'd associated with bxn												
				1%	0110	109.05	110.05	1.00	2.74					
				1%	0157	110.05	111.52	1.47	0.75					
				1%	0111	111.52	112.52	1.00	3.77					
112.00	133.92	<u>Basalt</u> -gn to pa gn flows, well structured from vfg to cg, with flow top and basal flow sections, moderately to strongly magnetic locally 112.00-130.14: f-vfg massive flow as variably sid basatl above but lacks bxn-alt'n -locally magnetic 130.14-136.00: f-mg massive flow, locally mag 134.84-135.53: intermediate to mafic intrusive 136.00-147.76: m-cg massive flow 147.76-149.07: f-mg massive flow 149.07-150.84: f-vfg massive flow												
				tr	0161	112.52	113.52	1.00	tr					
				tr	0162	113.52	114.52	1.00	tr					
				tr	0163	114.52	115.52	1.00	tr					

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-85-2 Page 5 of 6

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS						
FROM	TO				NUMBER 6256	FROM	TO	LENGTH	Au g/t	GW					
		187.71-189.22: poor-moderate bxn with minor increase in altn		tr-1	0128	187.71	188.63	0.92	tr						
				tr-1	0129	188.63	189.22	0.59	tr						
189.22	201.36	<u>Transitionally Silicified Basalt</u> -f-vfg, variably bxd rock shows varying degrees of alt'n with sin averaging 20-25% of the rock but is poorly developed													
		189.22-197.03: dominantly dk gn-locally pur with pa bn sections -pur colour due to the presence of hem while pa bn due to dol -dol indicates increased altn which coincides with increased bxn and generally higher py -sin poorly developed with respect to intensity but averages 30% -pervasively cbd with cb filled fractures -py 3-5% locally up to 20% -locally mag		1-2	0130	189.22	190.14	0.92	tr						
				1-2	0131	190.14	191.16	1.02	tr						
				3-5	0132	191.16	192.15	0.99	tr						
				5	0133	192.15	193.12	0.97	0.14						
				5-7	0134	193.12	194.10	0.98	3.53	3.46		2.20			
				3-5	0135	194.10	195.15	1.05	0.96	1.01		2.03			
				3-5	0136	195.15	196.15	1.00	tr						
				3-5	0137	196.15	197.03	0.88	0.07						
		-clay seams @ 25° TCA @ 189.22m - 1mm @ 50° TCA @ 193.16m - 4mm													
		197.03-201.36: sin weakly developed averaging 5-10% in bxd fragments -possible retrograde alteration of above zone -foliation imparted by orientation of fragments and wispy micaceous material @ 50° TCA @ 198.20m -chloritic matrix -most fragments cbd, very minor mag locally -clay seam 198.76m @ 30°TCA		1-2	0138	197.03	198.00	0.97	0.21						
				1-2	0139	198.00	199.00	1.00	tr						
				1-2	0140	199.00	200.00	1.00	0.41	0.41					
				1-2	0141	200.00	201.36	1.36	0.07						

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE RECORD

Project 6256 Harker Twp.

Company Mission Harker Exploration Ltd.

Hole No. 6256-85-3

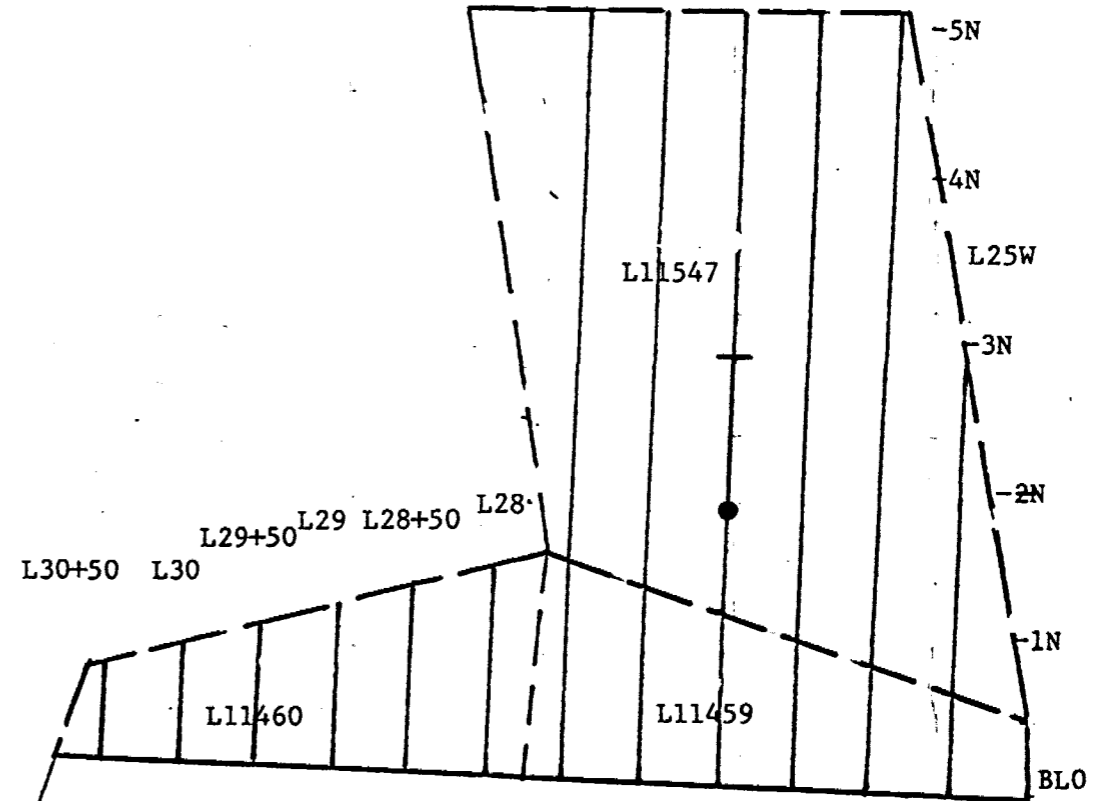
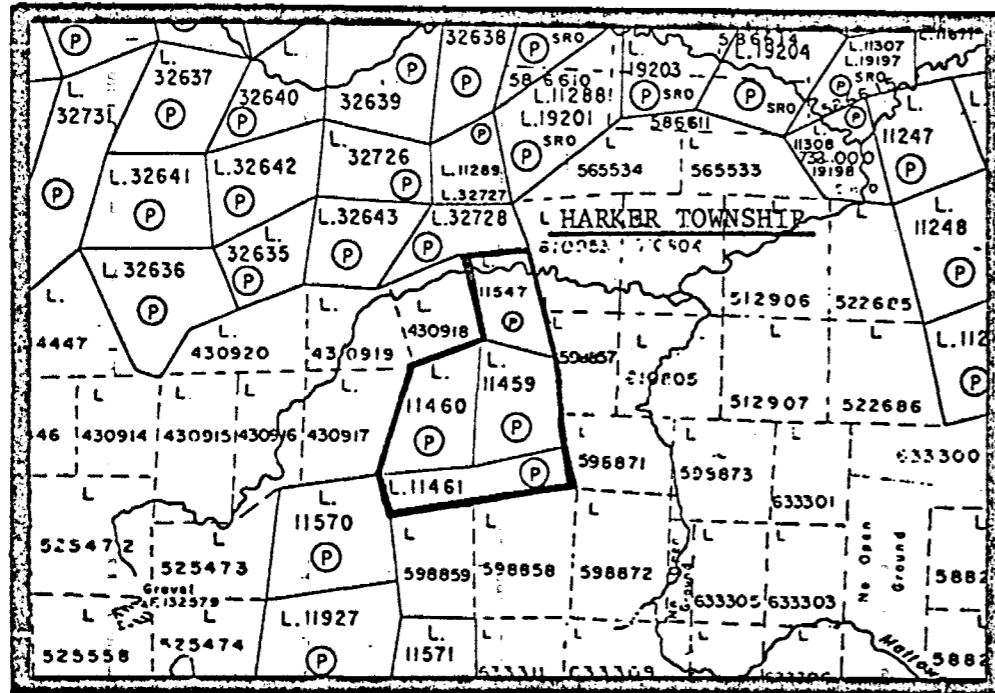
LOCATION	DIP TEST		LEVEL	Surface	HORIZONTAL COMPONENT	DATE STARTED	
AREA or TWP. Harker Township	FOOTAGE	ANGLE		ELEVATION	VERTICAL COMPONENT	DATE FINISHED	
		RECORDING	CORRECTED				
CLAIM NO. L11547	0.00m	-50°	-50°	5001.00m	121.50m	Dec. 18/85	
	13.72m		-49°				
	76.20m		-48°				
NTS 32D/12 UTM	152.40m		-46°	LATITUDE	L26+50W	BEARING	360°
				DEPARTURE	1+80N	LENGTH	152.66m
				CORE LOCATION	core library Kirkland Lake	PURPOSE	to test gold bearing horizon
				TOT. RECOVERY	99.9%	zone	

DIAMOND DRILL HOLE LOCATION SKETCHES
CLAIM MAP Scale: 1 to 31680

DIAMOND DRILL HOLE LOCATION
WITH RESPECT TO CLAIM BOUNDARIES
Scale: 1 to 5000

Signature *Mike Simunovic*
Stephen Conque

L27+50 L27 L26+50 L26 L25+50



David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-85-3 Page 1 of 8

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS							
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t							
0	11.58	Overburden: casing left in hole														
11.58	12.3	<u>Argillaceous Metasediments</u> -graphitic, possible boulder -1-2% py, locally 5% in clots and stringers -foliation $\approx 20^\circ$ -some cubic py Sample - 6256-0061 - graphitic sediments - 1-2% py, locally 5% in clots and stringers	20°	5%	0061	11.58	12.3	.88	tr							
12.3	74.15	<u>Basalt</u> -aphanitic flows - fine grained green-grey composed of pyroxene and amphibole -chlorite on slip planes -no foliation -qz-carb fracturing various directions, dominant is $\approx 65^\circ$ -flow top breccia present here -persists for $\approx 30'$ -chlorite filled seams, fractures, fragments -localized silicification -<1% py, 2-5% locally where silicification and fracturing are more abundant -some vesicles present -possible that a couple of minor flows exist here Sample - 6256-0062 -silicified basalt not highly -1% py, 2-5% locally -qz-carb fracture filling	65°		0062	12.3	13.3	1	tr							

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DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-85-3 Page 6 of 8

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS							
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t							
120	133.52	<p><u>Alteration Zone (Breccia?)</u></p> <ul style="list-style-type: none"> - ≈ 102 magnetism drops off (local now) -after 102 core becomes a lighter shade of green -≈105.4 start getting what appears to be <u>pillow salvages</u> (epidotized, chloritic) -intensely fractured now, some qz-carb veining with potassic alt. -dominant fracture direction approx. -after 111 no pillows evident -114.26 clay seam <u>fault?</u> -not magnetic now -115-115.7 potassic alt. in fractures -locally silicified <p>-slight silicification of the core</p> <ul style="list-style-type: none"> -hematized -foliated (lower section more highly) -upper section more pervasive carb. -lower section carb along foliation -some fragments evident -120.27 clay seam <u>fault?</u> -≈126m foliation -dolomitized frag. present as well <p><u>Sample</u> - 6256-0082</p> <ul style="list-style-type: none"> -slightly silicified, hematized zone -appears to have been brecciated -carb alt. -tr py <p><u>Sample</u> - 6256-0083</p> <ul style="list-style-type: none"> -same as 0082 <p><u>Sample</u> - 6256-0084</p> <ul style="list-style-type: none"> -same as 0082 	53°													
			45°													
			58°													
			52°		0082	120	121	lm	tr							
				tr	0083	121	122	lm	tr							
					0084	122	123	lm	.07							

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

Company Mission Harker Exploration Ltd.

HOLE No. 6256-85-3 Page 7 of 8

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS							
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t							
		Sample - 6256-0085 -same as 0082			0085	123	124	1m	.07							
		Sample - 6256-0086 -same as 0082			0086	124	125	1m	tr							
		Sample - 6256-0087 -same as 0082			0087	125	126	1m	tr							
		-at 125.70m -foliation @ 40° to core axis -carb filled fractures strike NW-SE and dip approx. 80°	80°													
		Sample - 6256-0088 -same as 0082			0088	126	127	1m	tr							
		Sample - 6256-0089 -same as 0082			0089	127	128	1m	tr							
		-@ 127.50m -foliation @ 25° to core axis -possible crenulation cleavage @ 60° to core axis plunge 80-85° to W -cleavage @ approx. 90° to foliation	25° 60° 90°													
		Sample - 6256-0090 -same as 0082			0090	128	129	1m	.07							
		Sample - 6256-0091 -same as 0082			0091	129	130	1m	tr							
		Sample - 6256-0092 -same as 0082			0092	130	131	1m	tr							
		Sample - 6256-0093 -same as 0082			0093	131	132	1m	tr							

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-85-3 Page 8 of 8

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS							
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t							
		<p><u>Sample - 6256-0094</u> -same as 0082</p> <p>-@ 132.20m -foliation @ 35° to core axis -crenulation cleavage 1) @ 85° to foliation, 65° to core axis west plunge @ 80°-75° 2) @ 50° to foliation, 35° to core axis east plunge?</p> <p><u>Sample - 6256-0095</u> -same as 0082</p> <p>-as reach bottom of zone, alteration decreases becomes more spotty, in all the zone is weakly alt. -foliation 133.4m -133.54 clay seam <u>fault</u>] McKenna -133.62 clay seam <u>fault</u>] Fault?</p>	35°		0094	132	133	1m	.07							
133.52	152.66	<p><u>Basalts</u></p> <p>-fine to medium grained -grey-green magnetic -fractures -138-140.2 larger mafic clots -after this it fines out again -possible pillows -150.6-151 silicified section 10% py -carbonatized</p> <p><u>Sample - 6256-0096</u> -silicified, carb section -10% py</p> <p>- ≈ 152 narrow 20cm breccia zone due to intrusion of qz-carb -end of hole 152.66</p>	45° 60° 67° 40°		0095	133	133.52	.52m	tr							
					0096	150.6	151.02	.42	tr							

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DIAMOND DRILL HOLE RECORD

Project 6256- Harker Twp

Company Mission Harker Exploration Ltd.

Hole No. 6256-86-4

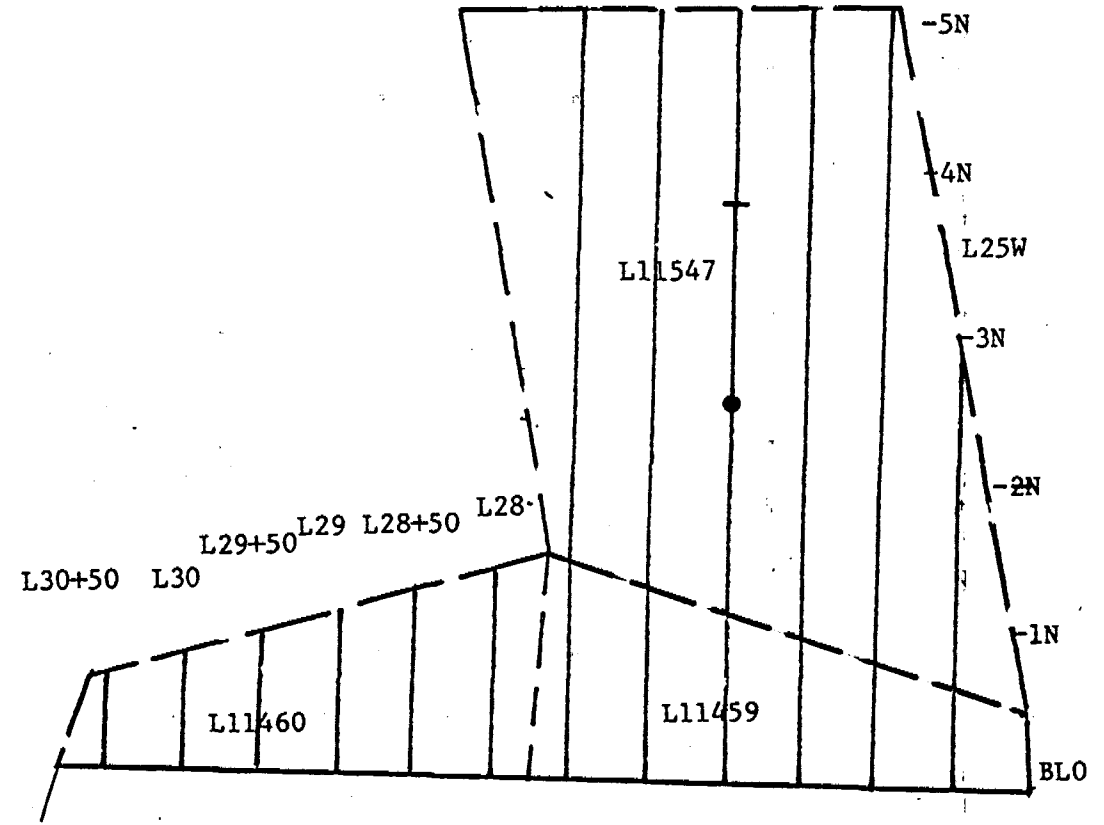
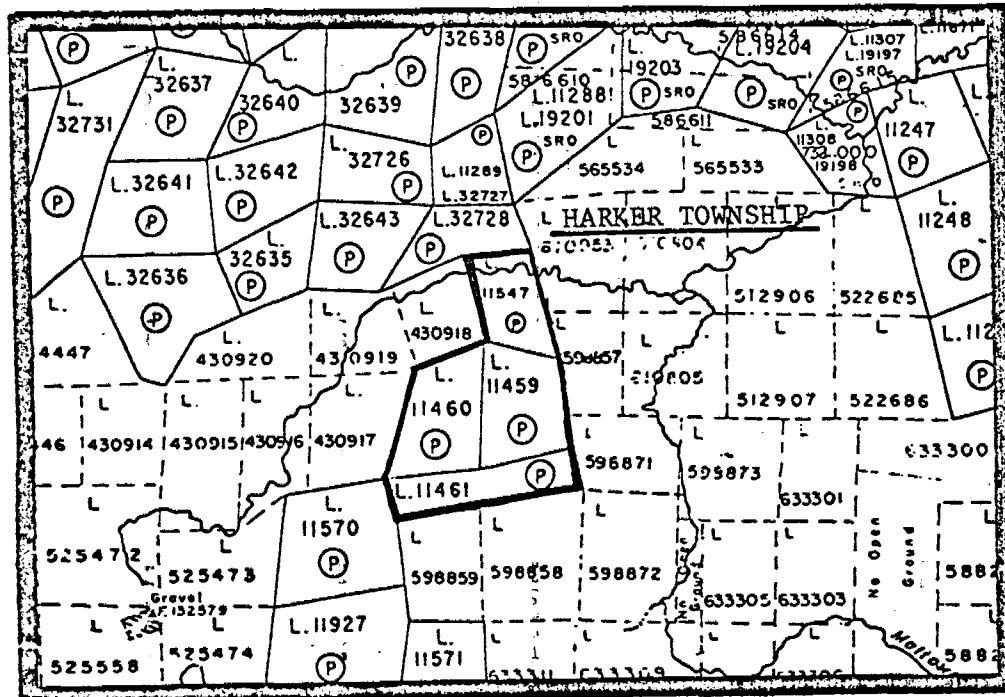
LOCATION	DIP TEST		LEVEL	Surface	HORIZONTAL COMPONENT	DATE STARTED
AREA or TWP. Harker Twp.	FOOTAGE	ANGLE		ELEVATION	VERTICAL COMPONENT	DATE FINISHED
		RECORDING	CORRECTED			
CLAIM NO. L11547	0.00		-50°	5000.00	148.00m	January 9/86
	60.96		-49°			
	121.92		-48°			
NTS 32D/12 UTM	182.88		-46°	LATITUDE	BEARING	LOGGED BY
				L26+50W	360°	Mike Simunovic
				DEPARTURE	LENGTH	PURPOSE
				2+50N	198.12	to test gold horizon and VLF-EM conductor
					CORE LOCATION	TOT. RECOVERY
					Core library Kirkland Lake	99.9%

DIAMOND DRILL HOLE LOCATION SKETCHES
CLAIM MAP Scale: 1 to 31680

DIAMOND DRILL HOLE LOCATION
WITH RESPECT TO CLAIM BOUNDARIES
Scale: 1 to 5000

Signature Mike Simunovic
Steph Conner

L27+50 L27 L26+50 L26 L25+50



David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-86-4 Page 2 of 7

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS							
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t							
		<p>Sample - 6256-0145 -12.92-13.1 potassic alt. -fract., hem., silic. minor -py 1%</p> <p>Sample - 6256-0146 -same as 0145</p> <p>Sample - 6256-0147 -same as 0145</p> <p>-16.5m fracturing begins to die out -14.5 foliation 40°, not a true foliation but all fragments and fractures seem to be oriented at this angle (shearing?) -at 18.0m fracturing intensifies once again (qz-carb filled) -still hem. in some slip planes -minor foliation imparted in certain sections 42° -preferred fracture direction 50° -26.0 to 26.62 coarsening of core no apparent contacts appears graded -possible dike -core still locally foliated with minor hem. along fol., also minor carb and silic. along foliation -this type of alteration continues to about 39.05m -at 39.05m a 13cm fault zone exists -here a 4cm clay seam is located -this probably represents the McKenna <u>fault</u></p> <p>-at 39.5 a minor .5cm clay seam exists <u>fault</u></p> <p>Sample - 6256-0148 -loc foliated bas, hematized, silicified, carbonatized associated with foliation, low py with increase with foliation</p>		1%	0145	12.85	13.6	.75m	tr							
				40	0146	13.60	14.60	1.00	tr							
				42° 50°	0147	14.60	15.60	1.00	tr							
				66° 50°	0148	33.00	34.05	1.05	tr							

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-86-4 Page 4 of 7

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS								
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t								
		<p>- ≈53m bleaching of core and fracturing due to intrusion of qz-carb</p> <p>- ≈55m get coarsening becomes medium grained</p> <p>- weakly magnetic to magnetic</p> <p>- not much fracturing</p> <p>- 64.8m becomes fine to medium grained</p> <p>- possible pillow selvages here as well - possible flow top, some vesicles now</p> <p>- ≈68m number of vesicles increases</p> <p>- many tiny dark vesicles (vesicular basalt)</p> <p>- some carb filled</p> <p>- core is no longer magnetic</p> <p>- some possible pillow selvages</p> <p>- vesicles end at 74m</p> <p>- after 74 core still fine to medium grained</p> <p>- possible that this sequence represents a series of thin flows</p> <p>- at 77.0m possible flow top, following this we have another series of thin flows varying from fine to medium grained</p> <p>- from 77.0m to 84.42m intense qz-carb veining</p> <p>- 80.82-80.92 thin section of 2-5% py, highly carbonatized, highly magnetic</p> <p>- 82.5 flow top again, fragments with interstitial chlorite</p> <p>- ≈83.2 possible flow tube thin lcm foliated zone after which there is a marked increase in grain size compared to previous core</p> <p>- <u>medium grained</u> after 83.2m</p> <p>- 83.2-84.42 leucoxene growths present</p> <p><u>Sample - 6256-0156</u></p> <p>- possible hydrothermal breccia zone</p> <p>- local silicification</p> <p>- potassic alt. in fractures</p> <p>- 2% py in clots</p> <p>- chlorite in fractures</p>															
			52°			0156	87.96	88.70	.74m	tr							

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE RECORD

Project 6256 Harker Twp.

Company Mission Harker Exploration Ltd.

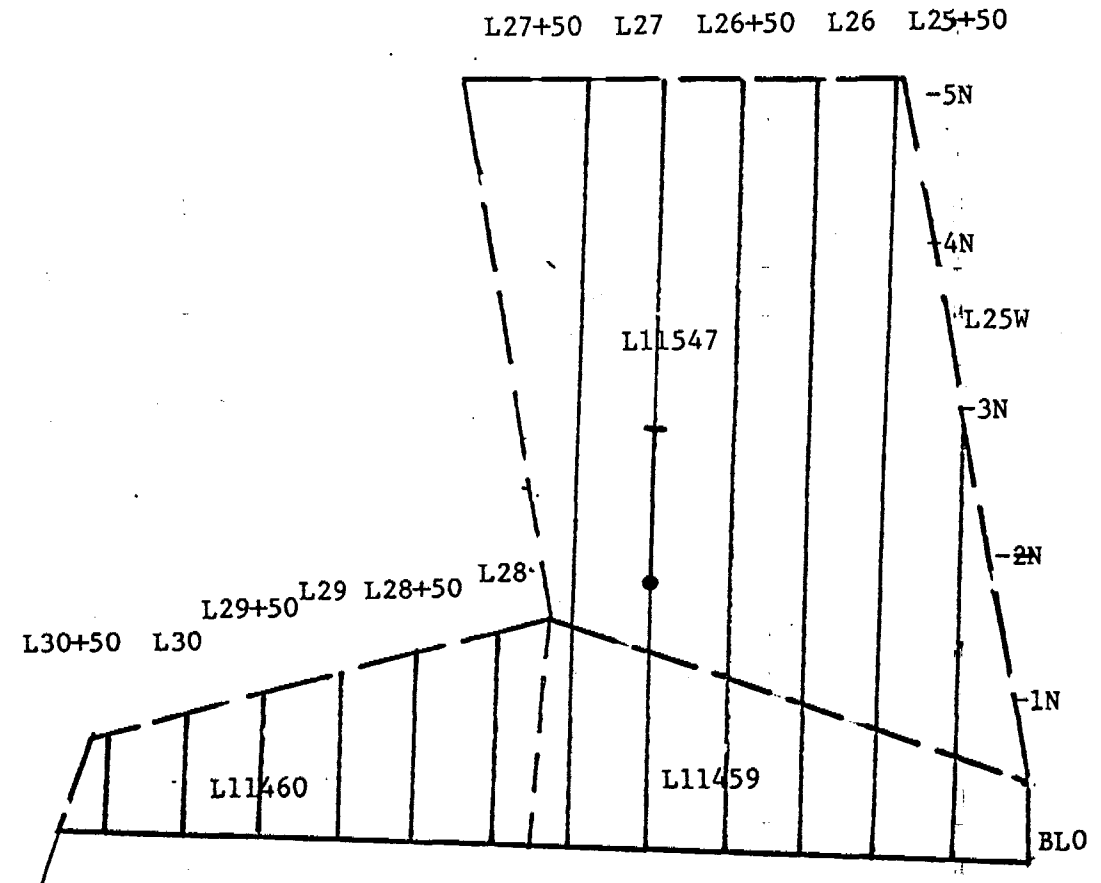
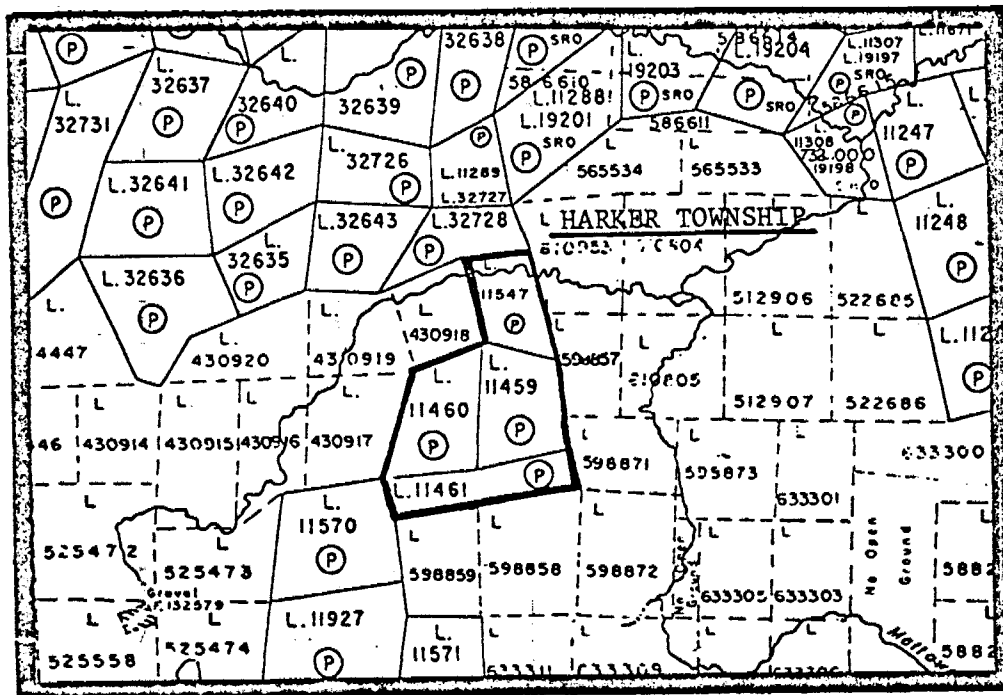
Hole No. 6256-86-5

LOCATION	DIP TEST		LEVEL	HORIZONTAL COMPONENT	DATE STARTED
AREA or TWP. Harker Twp.	FOOTAGE	ANGLE		ELEVATION	DATE FINISHED
		RECORDING	CORRECTED		
	0.00		-50°	5002.00	Jan 13/86
	18.90		-50°		
CLAIM NO. L11547	79.86		-50°	100.50m	Jan 15/86
NTS 32D/12 UTM	140.82		-46°		
			LATITUDE L27+00W	BEARING 360°	LOGGED BY S. Conquer
			DEPARTURE 1+75N	LENGTH 152.40	PURPOSE to test gold bearing horizon
				CORE LOCATION core library Kirkland Lake	TOT. RECOVERY 99.9%

DIAMOND DRILL HOLE LOCATION SKETCHES CLAIM MAP Scale: 1 to 31680

DIAMOND DRILL HOLE LOCATION WITH RESPECT TO CLAIM BOUNDARIES Scale: 1:1 to 5000

Signature *[Handwritten Signature]*
Mike Simonovic



David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

Company Mission Harker Exploration Ltd.

HOLE No. 6256-86-5 Page 2 of 6

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS						
FROM	TO				NUMBER 6256	FROM	TO	LENGTH	Au g/t						
18.90	77.87	<p><u>Basalts cont'd</u></p> <p>48.45-72.50: f-vfg massive flow</p> <p>50.82-51.15: monzonitic dyke</p> <p>64.20m - degree of fracturing increases down section, epidote in fractures dominate to 70.25, carb in fractures dominate below this mark</p> <p>72.50-77.87: basal flow-partly masked due to amount of fracturing and possible alteration</p> <p>-faint pale green (epidotized) round to subrounded fragments in a dk green matrix</p> <p>72.50-73.40 wy mag 73.40-77.87 mody mag -clay seam @ contact @ 25° TCA</p>													
77.87	79.00	<p><u>Foliated Basalt</u></p> <p>-distinctive feature is the "shear" developed foliation as represented by wispy green to brown micaceous material</p> <p>-green to pale brown colour -vfg -foliation @ 50° TCA @ 78.50m</p>			0172	76.89	77.87	0.98	0.07						
79.00	80.39	<p><u>Sediments</u></p> <p>-graded argillaceous - greywacke sequence</p> <p>-argillites are graphitic with 3-5% py as disseminations and nodular growths in bedding planes, well bedded</p>		5 3-5	0173	77.87	79.00	1.13	0.07						
					0174	79.00	80.39	1.39	0.34						

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE RECORD

Project 6256 Harker Twp.

Company Mission Harker Exploration Ltd.

Hole No. 6256-86-6

LOCATION	DIP TEST		LEVEL	HORIZONTAL COMPONENT	DATE
AREA or TWP. Harker	FOOTAGE	ANGLE		Surface	STARTED Jan 17/86
		RECORDING	CORRECTED		DATE FINISHED Jan 20/86
CLAIM NO. L11547	0.00	-70	-70°	ELEVATION 5009.5	BEARING 360
	60.96		-68°	LATITUDE L26+00W	LOGGED BY M. Simunovic
	121.92		-67°	DEPARTURE 1+18N	PURPOSE test gold bearing horizon
NTS 32D/12 UTM	182.88		-67°	CORE LOCATION Kirkland Lake	TOT. RECOVERY 99.9%

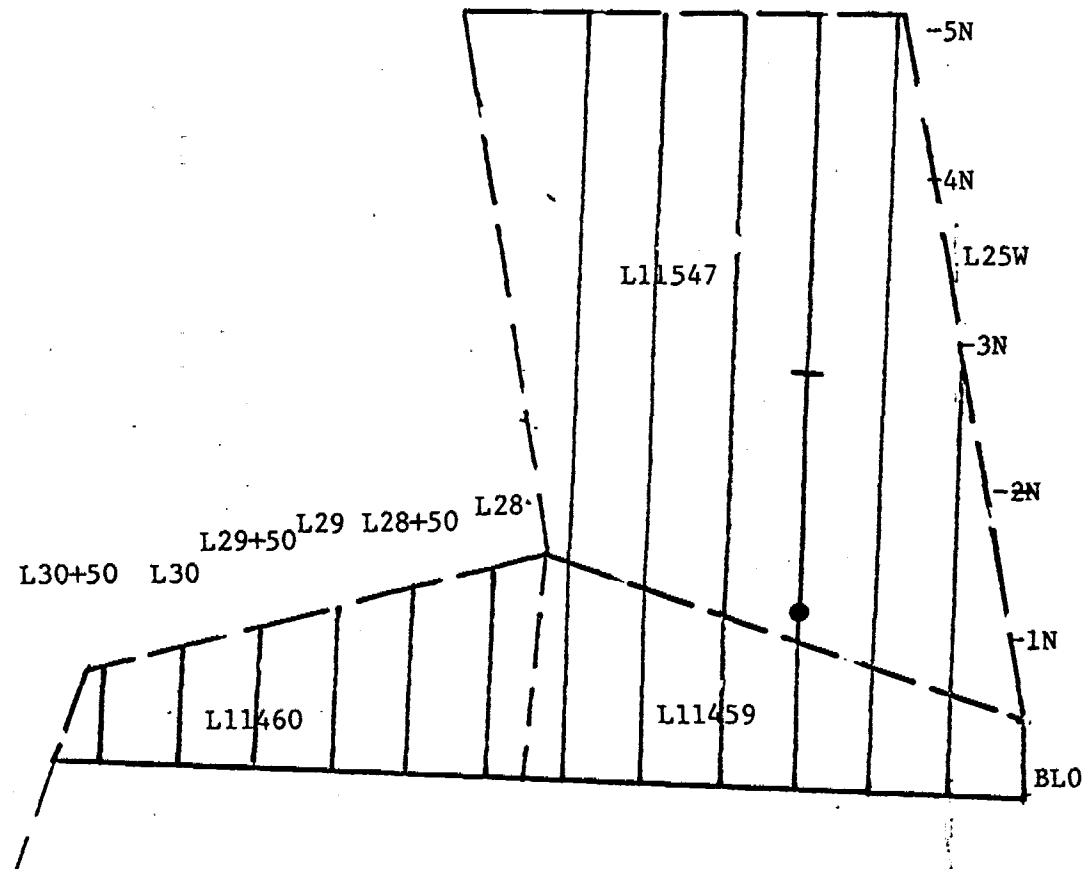
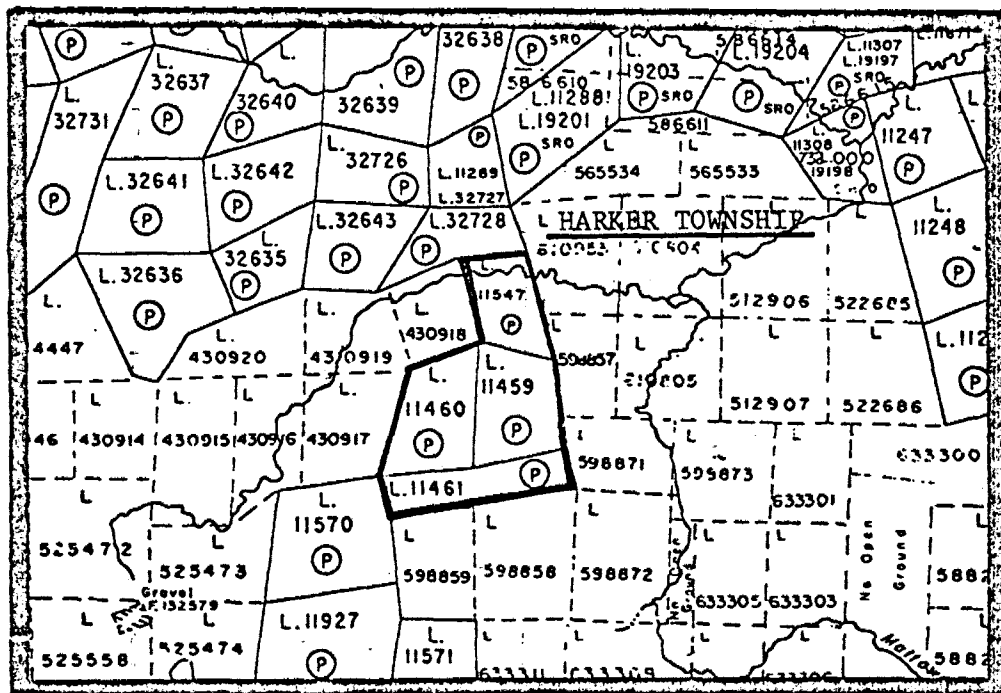
DIAMOND DRILL HOLE LOCATION SKETCHES
CLAIM MAP Scale: 1 to 31680

DIAMOND DRILL HOLE LOCATION
WITH RESPECT TO CLAIM BOUNDARIES
Scale: 1 to 5000

Signature M. Simunovic

Stephen Conyn

L27+50 L27 L26+50 L26 L25+50



David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-86-6 Page 5 of 9

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS								
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t		GW						
		-other later fractures are white in colour and filled with carbonate -py occurs as a primary feature as well as fine disseminations within the breccia zones and siliceous fractures -no pervasive carbonatization is noted within the zone -the zone averages approx. 20%py -105.8 clay seam possible fault (McKena?) -within the Main Silicified Zone some sections appear to be more highly silicified than others, this can be seen as a higher degree of bleaching of the core, these sections are more intensely brecciated as well -less bleached sections appear to more highly exemplify the original rock	37°	20%													
		Sample - 6256-0211 -variably silic. greywacke -tr-2% py			0211	102.56	103.51	.95m	.75		0.71						
		Sample - 6256-0212 -same as 0211			0212	103.51	104.66	1.15m	tr		0.04		0.37				
		Sample - 6256-0213 -main silic. zone -highly silic. greywacke -tr-2% py			0213	104.66	105.44	.78m	.41		0.32						
		Sample - 6256-0214 -silic. argillite -tr-2% py			0214	105.44	106.21	.65m	tr		.022						
		Sample - 6256-0215 -silic. argillite - 20% py			0215	106.21	107.02	.81m	.07		.06						

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

Company Mission Harker Exploration Ltd.

HOLE No. 6256-86-6 Page 6 of 9

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS									
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t	GW								
					<p><u>Sample - 6256-0216</u> -silic argillite with some more highly bleached sections due to brecciation - 20% py</p> <p><u>Sample - 6256-0217</u> -same as 0216</p> <p><u>Sample - 6256-0218</u> -silic argillite, this section is more highly bleached due to increased brecciation and silica flooding - 20% py</p> <p>-109.25 slickensides, parallel core</p> <p><u>Sample - 6256-0219</u> -same as 0218</p> <p><u>Sample - 6256-0220</u> -same as 0218</p> <p><u>Sample - 6256-0221</u> -silic argillite - 20% py</p> <p>-from 112.69-117.95 the zone is a series of inter-bedded argillites and greywacke -117.95 is the end of the alteration -somewhere near the end of the zone is a contact between volcanics and sediments -approx. the last meter of the zone is hosted in basalt, the contact has been obliterated by the alteration</p>	10%												
						0216	107.02	107.83	.81m	.07	.06							
						0217	107.83	108.47	.64m	.27	0.17							
						0218	108.47	109.37	.90m	.41	0.37			0.58				
														10.12				
						0219	109.37	110.64	1.27m	.69	0.88							
						0220	110.64	111.86	1.22m	.96	1.17					0.46		
															15.39			
						0221	111.86	112.69	.83m	.75	0.62							

David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

Company Mission Harker Exploration Ltd.

HOLE No. 6256-86-6 Page 7 of 9

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS							
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t	GW						
		<p>Sample - 6256-0222 -silic greywacke -carb in fractures -20% py</p>			0222	112.69	113.88	1.19m	.75	0.89						
		<p>Sample - 6256-0223 -silic argillite -20% py</p>			0223	113.88	114.33	.55m	.48	0.26						
		<p>Sample - 6256-0224 -same as 0222</p>			0224	114.33	115.14	.81m	.41	0.33						
		<p>Sample - 6256-0225 -highly silicified argillite -same as 218 -some narrow honey-brown sericite</p>			0225	115.14	116.13	.99m	.34	0.34						
		<p>Sample - 6256-0226 -interbedded argillite and greywacke, silic -20% py</p>			0226	116.13	117.25	1.12m	.27	0.30						
117.25	191.05	<p><u>Basalt</u> -exact contact obliterated by silicification -initially basalt is somewhat silicified and hematized -tr-2% py</p>														
		<p>Sample - 6256-0227 -silic. basalt hem tr-2% py</p>			0227	117.25	117.95	.70m	.75	0.53						
		<p>Sample - 6256-0228 -basalt, 118.70 fracturing py assoc.</p>			0228	117.95	118.88	.93m	tr							

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DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-86-6 Page 8 of 9

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS						
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t		GW				
		<p><u>Sample - 6256-0229</u> -unaltered basalt</p> <p>-initially basalt is fine grained -these grade to fine to medium grained 122.65m massive - 129.35 basalts become coarse grained -127.10 qz-carb vein 11° to core axis -some potassic alteration assoc. -tr py -basalts are coarse grained to 135m -at 135m to 136.92 monzonitic dike -5-10% py throughout -upper contact -lower contact -137 slickensides on core movement approx. 90° TCA (cross fault)</p> <p><u>Sample - 6256-0230</u> -monzonitic dike -5-10% py</p> <p><u>Sample - 6256-0231</u> -same as 0230</p> <p>-137 narrow qz-carb vein almost parallel to core axis -potassic alteration assoc. -vein persists for almost .5m in length -after dike at 136.92 basalts are fine grained again -leucoxene growths from 136.92 to 139.29 -143.00 basalts grade to medium grained - 146.00 basalts become coarse grained - 147.00 start getting epidote assoc. with qz-carb fractures</p> <p><u>Sample - 6256-0232</u> -qz-carb intrusions -minor silicification; 2-5% py assoc.</p>	11												
			40° 45°	tr	0229	118.88	119.88	1m	tr						
					0230	135	136	1m	tr						
					0231	136	136.92	.92m	tr						
					.0232	154.2	154.82	.62m	2.61						

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DIAMOND DRILL HOLE RECORD

Project 6256 Harker Twp.

Company Mission Harker Exploration Ltd.

Hole No. 6256-86-7

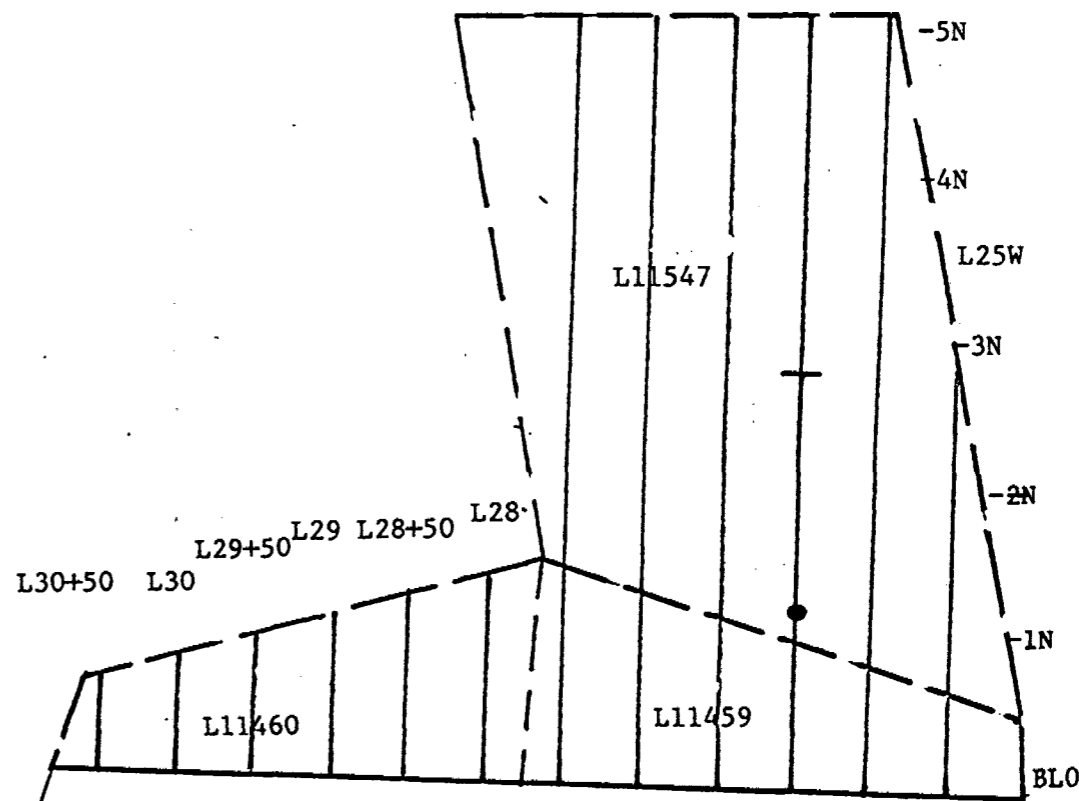
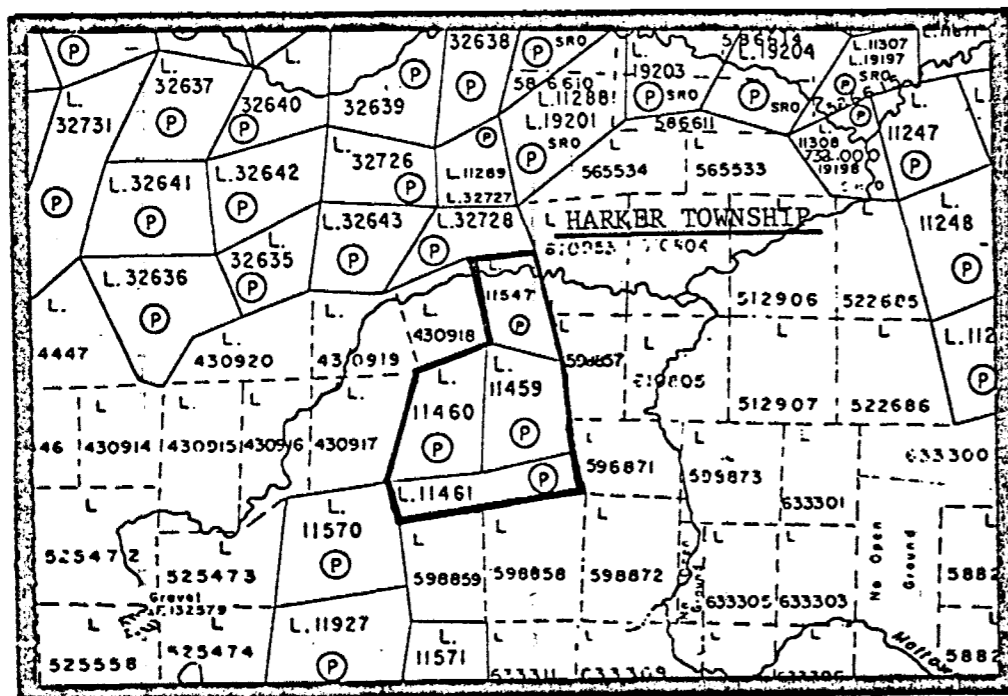
LOCATION		DIP TEST		LEVEL	HORIZONTAL COMPONENT		DATE	
AREA or TWP.	Harker Township	FOOTAGE	ANGLE		Surface	157.00m	STARTED Jan. 20/86	
			RECORDING	CORRECTED				
CLAIM NO.	L11547	0.00					DATE FINISHED Jan. 24/86	
		60.96		-50°	ELEVATION	161.00m		
		91.92		-46°	5009.5	BEARING	360°	LOGGED BY S. Conquer
		182.88		-44°	LATITUDE	225.55	test strike extension of gold zone, found in hole #2	
NTS	32D/12 UTM	225.55		-45°	DEPARTURE	1+18N	PURPOSE of gold zone, found in hole #2	
						CORE LOCATION	TOT. RECOVERY	
						core library Kirkland L.	99.9%	

DIAMOND DRILL HOLE LOCATION SKETCHES
CLAIM MAP Scale: 1 to 31680

DIAMOND DRILL HOLE LOCATION
WITH RESPECT TO CLAIM BOUNDARIES
Scale: 1 to 5000

Signature *Stephen Conquer*
Mike Immones

L27+50 L27 L26+50 L26 L25+50



David R. Bell Geological Services Inc.

DIAMOND DRILL HOLE LOG

PROJECT 6256-Harker Twp.

Company Mission Harker Exploration Ltd.

HOLE No. 6256-86-7 Page 2 of 8

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS						
FROM	TO				NUMBER 6256	FROM	TO	LENGTH	Au g/t		GW				
		1) 51.85-52.10m: weakly hem'd with 2-3% py around cb fractures		2-3	0233	51.63	52.67	1.04	0.69		0.72				
		2) 52.89-52.91: narrow weakly hem'd sid, 2-3% with cb @ 35° TCA	35°	2-3	0234	52.67	53.74	1.07	0.14		0.15				
		3) 53.10-53.14: cb'd - weakly hem'd dold sid, 3% py @ 30° TCA	30°	1-2	0235	53.74	54.74	1.00	0.48		0.48				
		4) 53.66-53.69: bx zone with hem'd -locally sid fragments in cb matrix base of bx zone sharp contact @ 1-2% py in cb rich fractures	35°		0236	54.74	55.74	1.00	0.21		0.21				
		5) 57.20-57.75: bx zone with angular to subrounded hem'd-sid and locally dol'd fragments in dolc-ser'c-hem'c matrix, py 3-5% locally 7-10% in dold matrix, nonmagnetic, upper contact gradational with cb'd halos around cb fractures, lower contact sharp @ showing truncation of bx, zone		3%	0238	57.00	57.95	0.95	0.07		0.07				
		-contact @ 45° TCA	53°	1-2	0239	57.95	59.20	1.25	tr		0.04				
59.20	74.16	<u>Transitionally Silicified Sediments</u>													
		-alt'd host is f-vfg, poorly to moderately bedded greywackes		3-5	0240	59.20	60.20	1.00	14.26		14.26				
				3-5	0241	60.20	60.71	0.51	19.17		9.78				
				5-7	0242	60.71	61.37	0.66	0.82		0.54				
				3-5	0243	61.37	62.13	0.76	0.27		0.21				
				5-7	0244	62.13	63.09	0.96	0.27		0.26				
		-the greywackes show 1-2mm qtz or fsp fragments locally i.e. 66.60m and tr-2% py		3-5	0245	63.09	64.11	1.02	0.55		0.56				
				3-5	0246	64.11	65.11	1.00	0.14		0.14				
				tr-1	0247	65.11	66.05	0.94	tr		0.03				
				tr-1	0248	66.05	67.05	0.01	tr		0.03				
		-bedding is locally highlighted by 1-2mm long sericite flakes		3-5	0249	67.05	67.52	0.47	0.27		0.13				
		-unaltered rock varies from gy to gn (chlc) to dk gn to bl		5-7	0250	67.52	68.52	1.00	0.21		0.21				
				3-5	0251	68.52	69.52	1.00	0.14		0.14				
				3-5	0252	69.52	70.24	0.72	0.82		0.59				
				3-5	0253	70.24	70.95	0.71	0.07		0.05				

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DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp

HOLE No. 6256-86-7 Page 3 of 8

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS							
FROM	TO				NUMBER 6256	FROM	TO	LENGTH	Au g/t	GW						
					<p>-approx. 45-50% of this unit is sid-with intensity varying from moderate to dominantly strong</p> <p>-altr types are hem-sin-doln</p> <p>-sin-hem'n gives a faint pur-gy colour to core as fracture halos, in bedding planes, in bx zones and as pervasive style altn</p> <p>-pa bn - orange red altn patches represent a further stage of altn as dol</p> <p>-with increased dol, py generally increased</p> <p>-dol as - central core in fractures that were previously alt'd - as almost pervasive alt'n where fracture density is high enough and in bx zones</p> <p>-no obvious relationship between alt'n and host rock</p> <p>-the best alt'd (intensely silicified) sections are found</p> <p>1) 60.71-61.37 2) 62.13-63.09</p> <p>3) 67.52-70.24 4) 70.95-71.86</p> <p>5) 72.17-73.18</p> <p>-bedding</p> <p>1) 45° @ 59.50m 2) 40° @ 63.10m</p> <p>3) 50° @ 65.50m 4) 52° @ 68.38m</p> <p>5) 38° @ 72.30m 6) 45° @ 74.50</p> <p><u>Silicified Sediments</u></p> <p>-intensely (95-100%) sid and bxd argillaceous sediments, py averages 7-10% locy up to 20%</p> <p>-primary py may locally average 3-5% with secondary or altn related py making up the rest</p>											
74.16	79.28															
					7-10	0258	74.16	75.16	1.00	0.41	0.41					
					7-10	0259	75.16	76.16	1.00	0.21	0.21					
					7-10	0260	76.16	77.16	1.00	0.07	0.07					
					7-10	0261	77.16	78.16	1.00	0.21	0.21					
					7-10	0262	78.16	78.86	0.70	0.27	0.19					
					7-10	0263	78.86	79.28	0.42	1.23	0.52					

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DIAMOND DRILL HOLE RECORD

Project 6256-Harker Twp.

Company Mission Harker Exploration Ltd.

Hole No. 6256-86-8

LOCATION		DIP TEST		LEVEL	HORIZONTAL COMPONENT		DATE STARTED
AREA or TWP.	Harker Twp.	FOOTAGE	ANGLE	Surface	81m	116m	Jan. 25/86
CLAIM NO.	L11547	0.00	RECORDING	ELEVATION	360°		DATE FINISHED
NTS	32D/12 UTM	60.97	CORRECTED	5012.5m			Jan 28/86
		121.95		LATITUDE			LOGGED BY
		152.40		L26+50W			M. Simunovic
				DEPARTURE			PURPOSE
				1+00N			to test strike extension of gold
							TOT. RECOVERY
							zone found in hole 2
							99.9%

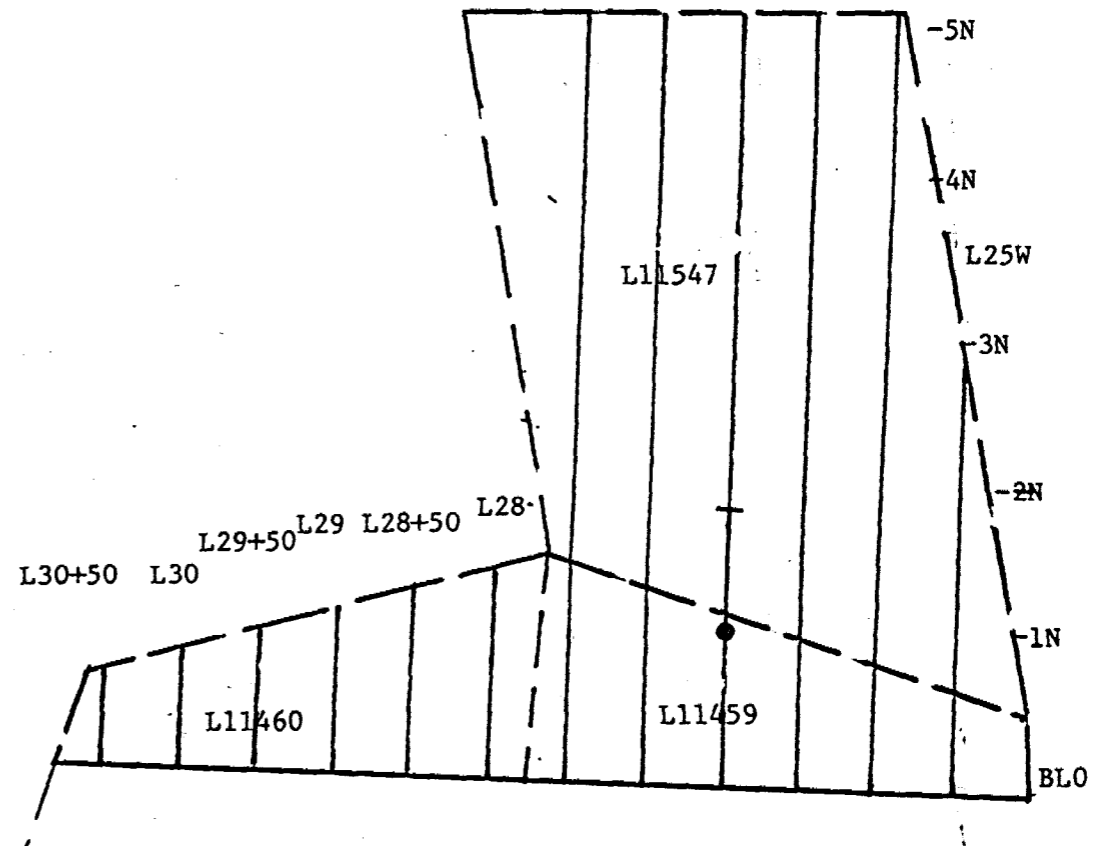
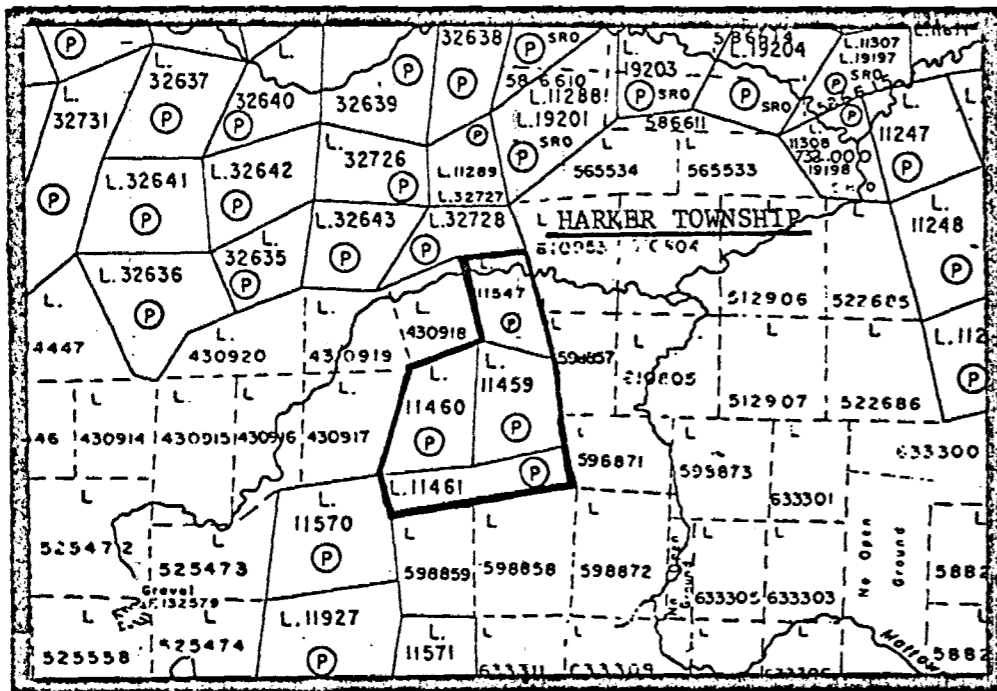
DIAMOND DRILL HOLE LOCATION SKETCHES
CLAIM MAP Scale: 1 to 31680

DIAMOND DRILL HOLE LOCATION
WITH RESPECT TO CLAIM BOUNDARIES
Scale: 1 to 5000

Signature *Mike Simunovic*

Stephen Conner

L27+50 L27 L26+50 L26 L25+50



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DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-86-8 Page 1 of 13

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS							
FROM	TO				NUMBER	FROM	TO	LENGTH	Au	GW						
									g/t							
0	3.04	Overburden: casing left in hole														
3.04	66.14	<p><u>Basalt</u> - fine grained massive basalt composed predominantly of pyroxene</p> <ul style="list-style-type: none"> -grey-green in colour -3.04-5.18 extremely fine grained -5.18 core gets slightly coarser still fine grained -≈11.27 more qz-carb fracturing is evident (irregular) -some chlorite filled fractures as well -≈11.27 becomes locally to slightly magnetic -≈10.65 leucoxene growths begin to develop (these come and go) -no evidence of flow top or bottom is evident to indicate a possible series of thin flows -leucoxene persists until approx. 17.37m -also ≈ 17.73 qz-carb fractures die out as well as magnetism <p><u>Sample - 6256-0304</u></p> <ul style="list-style-type: none"> -≈15.6 narrow section of silicification and hematization -some brecciation evident -py assoc. <ul style="list-style-type: none"> -after ≈ 17.37 basalts become fine to medium grained - ≈ 22.2 become medium grained - ≈ 28.1 basalts become coarse grained - ≈ 26.30 possible minor flow tube -narrow foliated sections fine grained -another narrow foliated section at 28.1 -foliation at top 45° -foliation at bottom 34° -32.61 <u>flow bottom</u> -not very well developed, nor is the subsequent flow top 														
			45° 34°		0304	15.2	16	.8m	.48	.38						

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DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-86-8 Page 2 of 13

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS								
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t	GW							
66.14	152.40				<ul style="list-style-type: none"> -some brecciation and fragmentation can be noted -33.5 <u>flow top</u> -not very well developed -some brecciation can be seen -vesicles can be noted in some places -epidote is assoc. with the brecciation -ends approx. 37.79 -after flow top ends a fine grained basalt exists -46.58-48.65 - leucoxene growths in core -this section is also slightly magnetic -47.5-47.90 <u>dioritic dike</u> -top contact irregular -bottom contact -46.55-48.0m slight coarsening of grain size in basalt -48.55-50.80 chlorite filled fractures -54.6-2.5cm section of silicification and hematization, brecciation also -58.35 minor 5cm section with fragments which have been hematized and silicified py. assoc. -60.70m localized foliated section <p style="margin: 10px 0 0 0;">Sample - 6256-0305</p> <ul style="list-style-type: none"> -61.4-61.75 carbonatized section in core 2-5% py -also qz-carb fracturing minor silicification py assoc. <p style="margin: 10px 0 0 0;"><u>Sediments</u></p> <ul style="list-style-type: none"> -greywacke with interbedded argillites (mudstones) -no distinct contact is evident -no flow bottom evidence -greywackes are composed of a grey-green matrix with tiny round quartz pebbles -argillites are extremely fine grained -some qz-carb fractures are present, and potassic alt. is assoc. with some of these 	45°											
			47°		0305	61.09	62.09	1m	.27	.27							

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DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

Company Mission Harker Exploration Ltd.

HOLE No. 6256-86-8 Page 3 of 13

	FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS							
	FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t	GW						
			-bedding 68m -bedding 70,85m -minor offsets in bedding evident -bedding 72.23 -bedding 75.0m -bedding 76.5m -coarsening of beds here seems to indicate a down-hole younging direction -76.98 <u>Alteration Zone begins</u> -76.98-80.76 transitionally silicified sediments -silicification here is patchy -also some sections here of honey-brown sericitic alt., assoc. with these is hematite -these minor sections appear to have been brecciated as well -fine diss. py is assoc. with these as well -approx. 50% of the rock here is silicified <u>Sample - 6256-0306</u> -unaltered greywacke and argillite <u>Sample - 6256-0307</u> -silicified section in grey-wacke -77.3 approx. 20cm of honey-brown sericitic alt. and hematite, py. assoc. <u>Sample - 6256-0308</u> -silicified greywacke <u>Sample - 6256-0309</u> -greywacke, relatively unaltered	36° 36° 35° 34° 32°													
						0306	75.85	76.98	1.13m	.07	.08						
						0307	76.98	77.80	.82m	.21	.17						
						0308	77.80	78.33	.53m	.41	.22						
						0309	78.33	79.04	.71m	.21	.15						

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DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-86-8 Page 5 of 13

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS							
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t	CW						
		Sample - 6256-0313 -same as 0312			0313	81.76	82.76	1m	.75	.75						
		Sample - 6256-0314 -same as 0312			0314	82.76	83.76	1m	.34	.34						
		Sample - 6256-0315 -silicified and intensely brecciated more highly bleached			0315	83.76	84.76	1m	.27	.27						
		Sample - 6256-0316 -same as 0312			0316	84.76	85.76	1m	.96	.96						
		Sample - 6256-0317 -same as 0312			0317	85.76	86.76	1m	.48	.48						
		Sample - 6256-0318 -same as 0315			0318	86.76	87.76	1m	.75	.75						
		Sample - 6256-0319 -same as 0315			0319	87.76	88.76	1m	.96	.96						
		Sample - 6256-0320 -same as 0315			0320	88.76	89.76	1m	1.65	1.65						
		Sample - 6256-0321 -same as 0315			0321	89.76	90.76	1m	.55	.55						
		Sample - 6256-0322 -highly bleached and silicified -lower .3 of a m. very highly bleached grey in colour -has a honey-brown tinge (sericite?)			0322	90.76	91.76	1m	.14	.14						

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DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

Company Mission-Harker Exploration Ltd.

HOLE No. 6256-86-8 Page 7 of 13

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS									
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t	GW								
		<p>-silicification and brecciation occur intermitently throughout the shales but the relatively unaltered sediments are hard on their own right</p> <p><u>Sample - 6256-0332</u> -greywacke 1-2% py</p> <p><u>Sample - 6256-0333</u> -silic. greywacke and argillite -10-20% py</p> <p><u>Sample - 6256-0334</u> -argillite -10-20% py</p> <p><u>Sample - 6256-0335</u> -slightly silic. argillite with a brecciated highly silic. section at 109m -10-20% py</p> <p><u>Sample - 6256-0336</u> -highly silicified and brecciated section -contains a section with some honey-brown coloured fragments -10-20% py</p> <p>-the honey-brown fragments noted in sample 0336 are found within highly silicified and brecciated sections -these sections have been bleached to a light grey colour -these sections have been intensely ground and some fragments are very fine</p> <p><u>Sample - 6256-0337</u> -same as 0336</p>																
						0332	103.66	104.15	.49m	6.17	3.24							
						0333	104.15	105.47	1.32m	.62	.82							
						0334	105.47	105.98	.51m	.14	.07							
						0335	108.45	109.45	1m	.34	.34							
						0336	117.85	119.0	1.15m	.14	.16							
						0337	120.82	121.80	.98m	.48	.47							

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DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

Company Mission Harker Exploration Ltd.

HOLE No. 6256-86-8 Page 8 of 13

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS							
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t	GW						
		-125.51 - 127.51 intensely brecciated and silicified section -silicification has entered along fractures developed by brecciation -fine disseminated py with this -at either end brecciation drops to nothing -highly bleached silicified sections with localized honey-brown colouration (sericite?) are present as well 125.51 to ≈ 126.51 -highly bleached sections appear to be very intensely brecciated possibly mylonatized														
		<u>Sample - 6256-0338</u> -highly bleached, grey, brecciated and silicified section with localized honey-brown colouration (sericite) -10-20% py			0338	125.51	126.51	1m	.96	.96						
		<u>Sample - 6256-0339</u> -highly brecciated and silicified section -10-20% py			0339	126.51	127.51	1m	1.03	1.03						
		<u>Sample - 6256-0340</u> -silicified argillite with localized bleaching and honey-brown colouration (sericite) -slight brecciation			0340	127.51	128.51	1m	5.49	5.49			6.03			
		<u>Sample - 6256-0341</u> -same as 0340			0341	128.51	129.30	.79m	6.72	5.31						
		<u>Sample - 6256-0342</u> -brecciated silic. argillite -10-20% py			0342	131.07	131.46	.39m	.41	.16						

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DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-86-8 Page 9 of 13

Company Mission Harker Exploration Ltd.

	FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS								
	FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t	CW							
			<p>Sample - 6256-0343 -silic. argillite -last .3m of sample is silicified and highly brecc.</p>			0343	131.46	132.46	1.0m	.96	.96							
			<p>Sample - 6256-0344 -silic. argillite -first .2m of sample is silicified and highly brecciated</p>			0344	132.46	133.19	.73m	.62	.45							
			<p>Sample - 6256-0345 -silic. argillite -20cm middle section highly brecciated and silic.</p> <p>-possible second alteration zone 134.1-140.60 -134.1-135.66 brecciated section -different in relation to brecciation which has occurred earlier -breccia here appears to be a later period episode -much drier looking -core here is composed of breccia fragments up to 2cm in width, very angular -this breccia is the result of a later qz-carb intrusion (it is noted between fragments) -some of the fragment note are silicified and honey-brown (sericite) in colour -these represent an earlier alteration which has later been breccia by the qz-carb infilling. Massive sections of this alteration were noted earlier in the core</p>			0345	133.19	134.1	.91m	.41	.37							
			<p>Sample - 6256-0346 -same as described 134.1-135.66</p>			0346	134.1	134.66	.56m	.41	.23							
			<p>Sample - 6256-0347 -same as described 134.1-135.66</p>			0347	134.66	135.66	1m	.34	.34							

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DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-86-8 Page 10 of 13

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS							
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t	GW						
		<p>Sample - 6256-0348</p> <p>-silic. argillite</p> <p>-some localized sections of brecciation and further silicification</p> <p>-136.83-139.44 intense brecciation and silicification of core</p> <p>-core in this section has been bleached now is beige in colour (possibly due to sericitization on dolomitization)</p> <p>-brecciation appears to have occurred after the bleaching</p> <p>-silicification assoc. with breccia</p> <p>-upper contact with argillite is very sharp</p> <p>-it is possible that these may originally have been a volcanic, round eyes which resemble vesicles can be seen here</p> <p>-10-20% py in fractures</p>			0348	135.66	136.83	1.17m	.62	.73						
		<p>Sample - 6256-0349</p> <p>-as described 136.83-139.44</p>			0349	136.83	137.83	1m	4.42	4.42						4.99 2.61
		<p>Sample - 6256-0350</p> <p>-same as 0349</p> <p>-cpy noted here also</p>			0350	137.83	138.74	.91m	4.97	4.52						
		<p>Sample - 6256-0351</p> <p>-same as 0349</p>			0351	138.74	139.44	.70m	5.83	4.08						
		<p>-clay seam 138.16</p> <p>-clay seams 138.3-138.4, core broken here no angle possible, appears possibly to be same as above</p>	33°													
		<p>Sample - 6256-0352</p> <p>-silic. argillite</p>			0352	139.44	140.60	1.16m	1.17	1.36						

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DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-86-8 Page 11 of 13

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS							
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t	CW						
		-brecciated, silicification assoc. -10-20% py -139.85 clay seam fault -140.60-143.94 series of interbedded greywackes and argillites -these rocks are locally silicified and brecciated intensely, some sections appear unaltered, 2-5% py -clay seam 142.15 fault, angle not possible core broken, but it appears to be at a low angle (best clay seam noted) <u>Sample - 6256-0353</u> -same as described in 140.60-143.94 <u>Sample - 6256-0354</u> -as described 140.60-143.94 <u>Sample - 6256-0355</u> -same as described in 140.60-143.94 <u>Sample - 6256-0356</u> -same as described 140.60-143.94 -143.94-149.76 greywacke, some sections are relatively unaltered, but localized section are brecciated and highly silicified -silica flooding accompanied the brecciation -where the brecciation and silicification is strongest, 10-20% py in clots & disseminations occurs otherwise 2-5% is evident -~1% occurs in the relatively unaltered sections -chlorite filled fractures in less altered material <u>Sample - 6256-0357</u> -relatively unaltered greywacke except for a central 20-30cm section of brecciation and silicification 10-20% py assoc.	20°													
					0353	140.60	141.37	.77m	.27	.21						
					0354	141.37	142.34	.97m	.48	.47						
					0355	142.34	143.06	.72m	.27	.19						
					0356	143.06	143.94	.88m	.41	.36						
					0357	143.94	144.94	1m	2.74	2.74						

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DIAMOND DRILL HOLE LOG

PROJECT 6256 Harker Twp.

HOLE No. 6256-86-8 Page 13 of 13

Company Mission Harker Exploration Ltd.

FOOTAGE		ROCK TYPE AND DESCRIPTION (alteration, structure, mineralization)	CORE ANGLES TO AXIS	% SULPHIDES	SAMPLE				ANALYTICAL RESULTS								
FROM	TO				NUMBER	FROM	TO	LENGTH	Au g/t	GW							
		<p>Sample - 6256-0364 -as described 149.76-151.0</p>			0364	150.63	151	.47m	2.06	.97							
		<p>Sample - 6256-0365 -silic. argillite -10-20% py</p> <p>-151.48-152.40 breccia zone -contains 30% py in clots, some fine disseminations in fragments and matrix -siliceous fragments -carb in late fractures -some qz-veining</p>			0365	151	151.48	.48m	1.10	.53							
		<p>Sample - 6256-0366 -as described 151.48-152.40</p> <p>End of Hole 152.40</p>			0366	151.48	152.40	.92m	.96	.88							

L31+50W L31+00W L30+50W L30+00W L29+50W L29+00W L28+50W L28+00W L27+50W L27+00W L26+50W L26+00W L25+50W L25+00W L24+50W L24+00W L23+50W

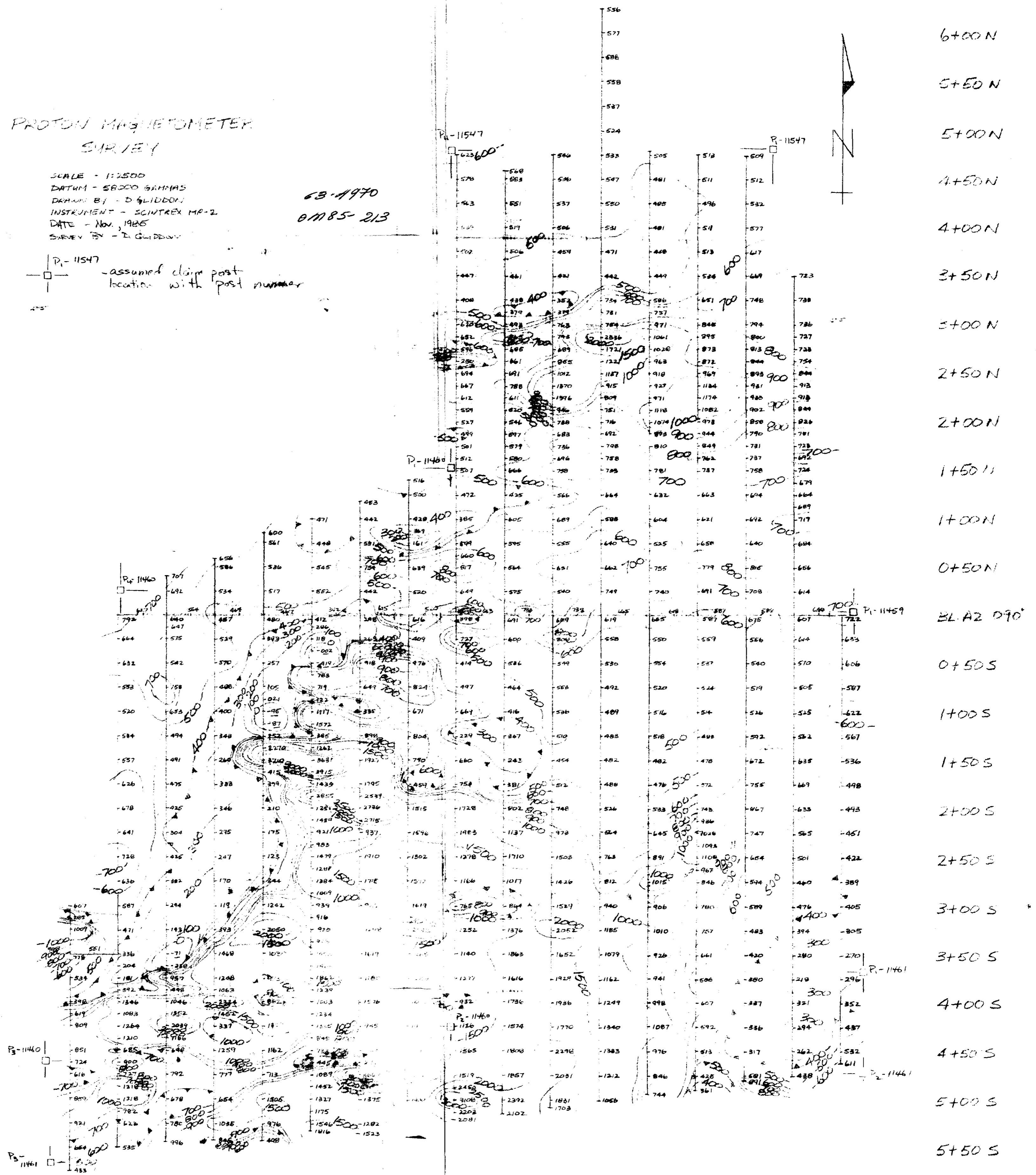
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3+00 N
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2+00 N
1+50 N
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0+50 N
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0+50 S
1+00 S
1+50 S
2+00 S
2+50 S
3+00 S
3+50 S
4+00 S
4+50 S
5+00 S
5+50 S

PROTON MAGNETOMETER SURVEY

SCALE - 1:2500
DATUM - SAGDO GANNAS
DRAWN BY - D GLEDDON
INSTRUMENT - SCINTREX MR-2
DATE - Nov, 1985
SURVEY BY - D GLEDDON

63-4970
OM 85-213

P₁-11547 - assumed claim post location with post number



L31+50W L31+00W L30+50W L30+00W L29+50W L29+00W L28+50W L28+00W L27+50W L27+00W L26+50W L26+00W L25+50W L25+00W L24+50W L24+00W L23+50W

OM 85-213
Mag 2.4 miles
ULF-EH 4.8
LABOUR 6 man days



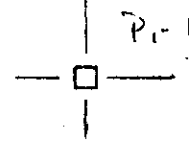
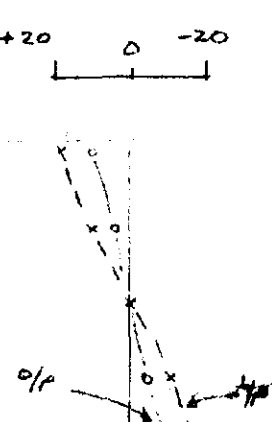
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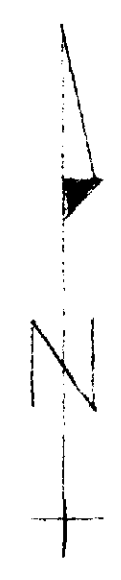
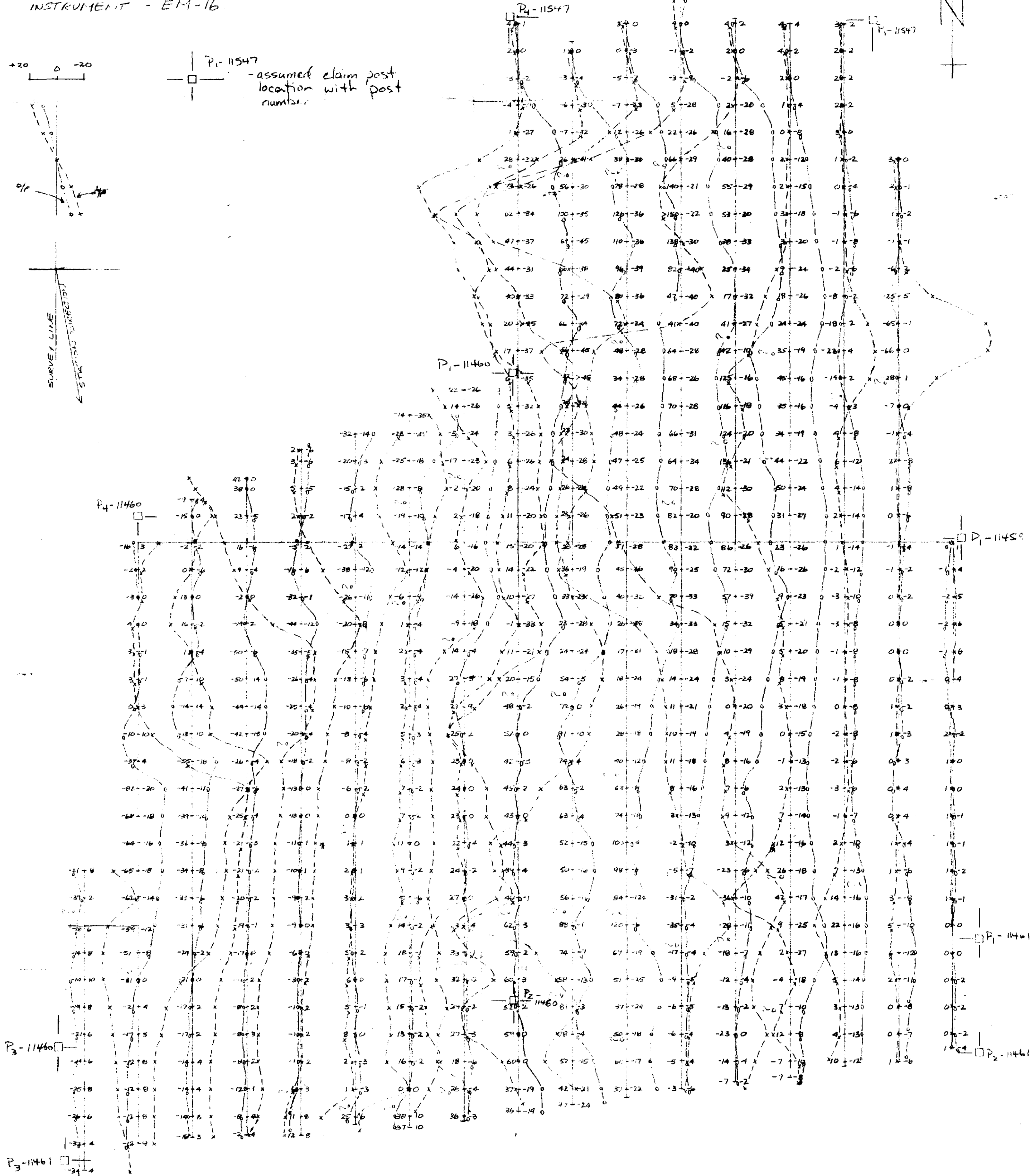
VLF SURVEY

TRANSMITTER
ANNAPOLIS, MARYLAND 21.48 Hz.
SURVEY BY - D. GLIDON
DATE - Nov. 1985
SCALE 1/2500
INSTRUMENT - EM-16

+20 0 -20



- assumed claim post location with post number



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0785-213
63-4970

24011

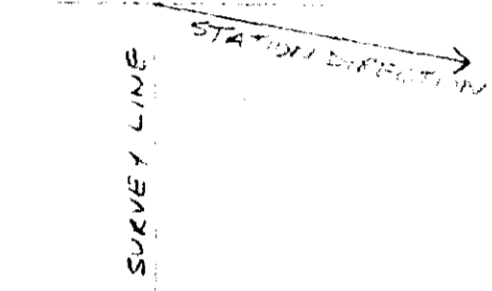
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VLF SURVEY
TRANSMITTER
CUTTER HEADS 24.0KHZ
SURVEY BY: D. GARDNER
DATE: Nov. 1955
SCALE 1:2500
INSTRUMENT - EM-16

P1-11547 - assumed claim post location and number



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BL AZ 090°

P3-11460

P2-11461

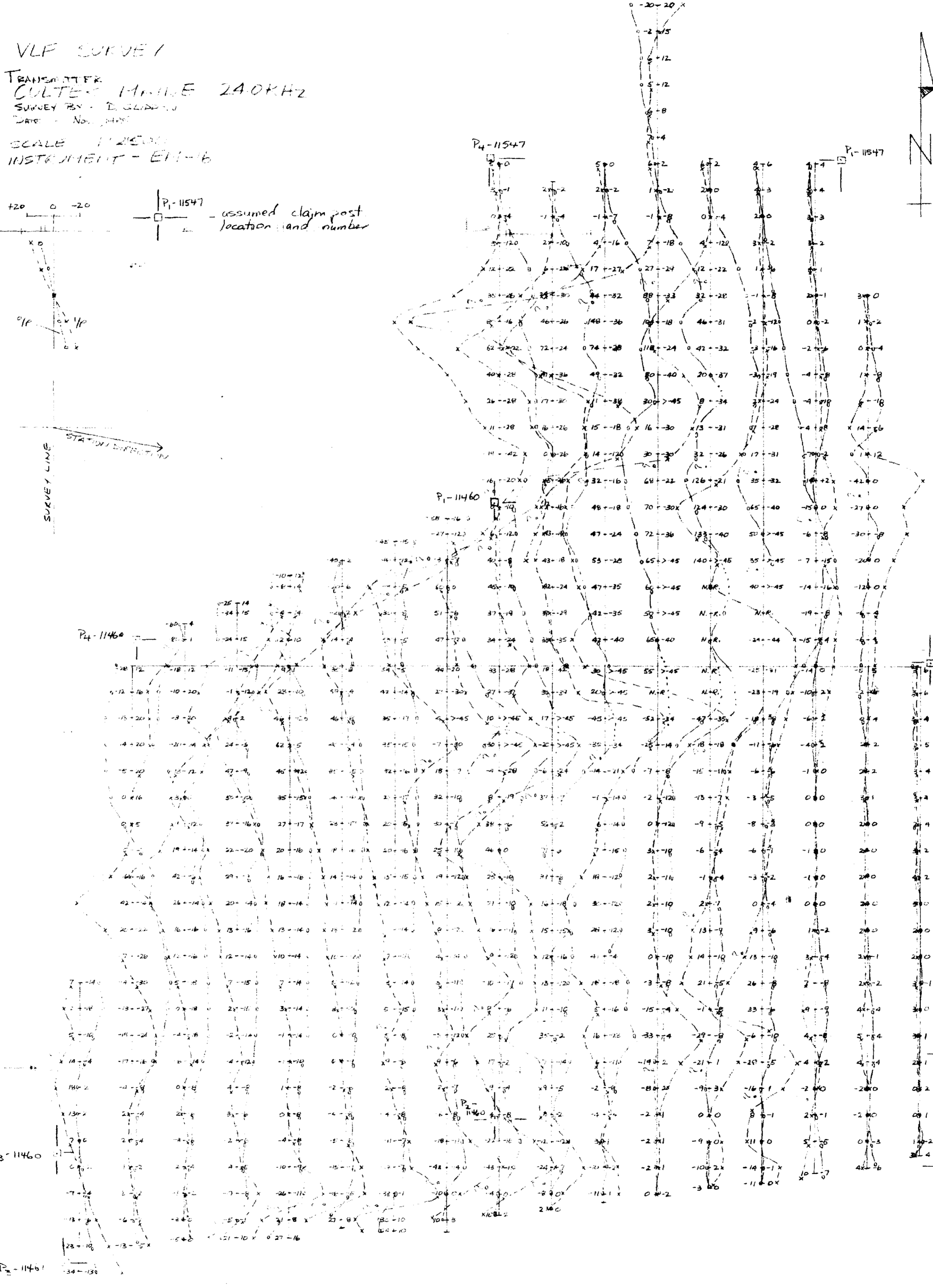
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P1-11460

P1-11549

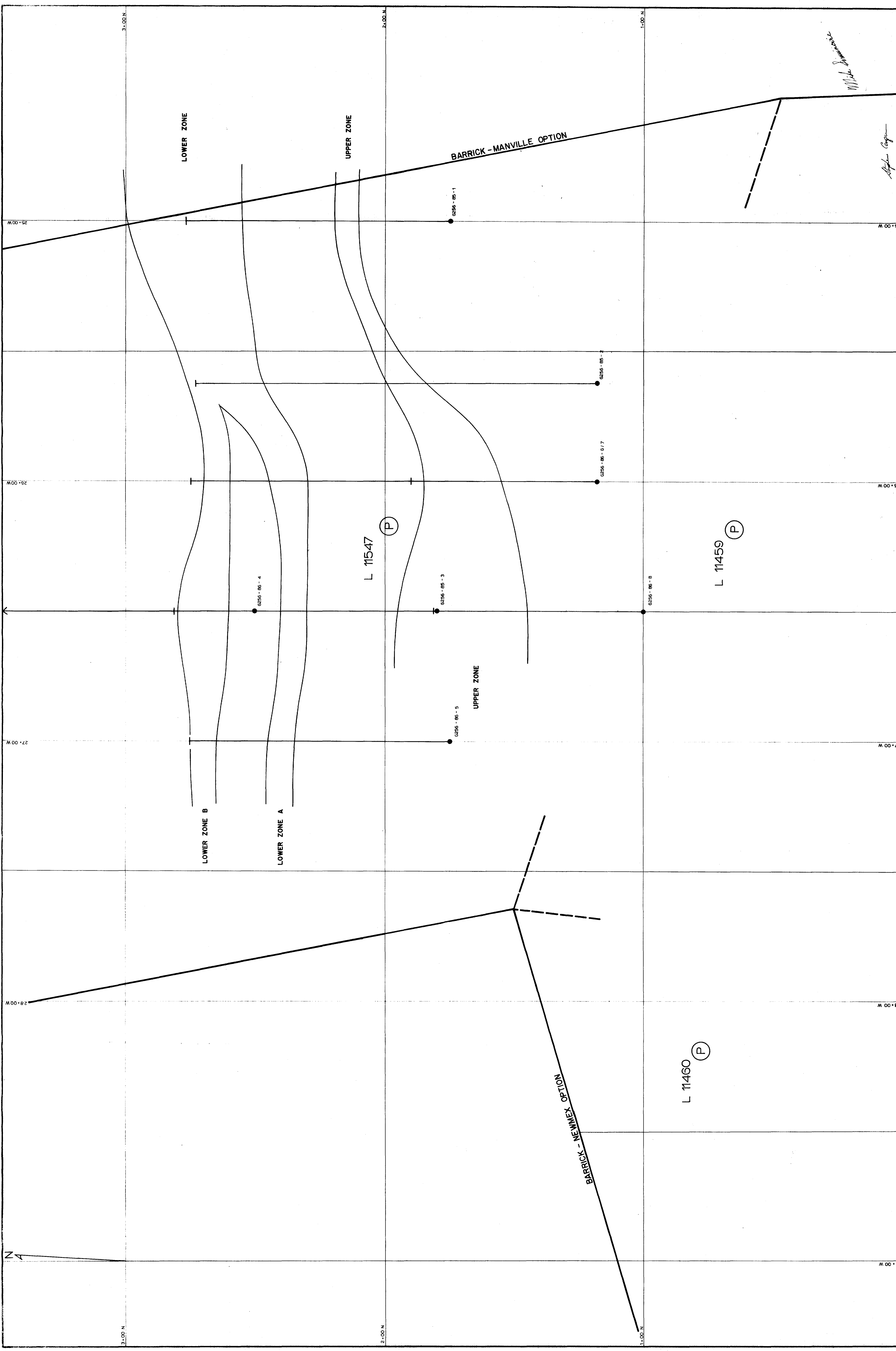
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P2-11461



L31+50W L31+00W L30+50W L30+00W L29+50W L29+00W L28+50W L28+00W L27+50W L27+00W L26+50W L26+00W L25+50W L25+00W L24+50W L24+00W L23+50W





David R. Bell Geological Services Inc.
 Mission Harker Exploration Limited
 Harker Township Property
 Diamond Drill Plan

Alpha Copy

W. J. Bell

TWP/AREA: Harker, Twp	PROV: Ontario
MINING DIVISION: Larder Lake	PROJECT No. 6256
REFERENCES:	NTS No. 28 D/2
DRAWN: <i>M.B.</i>	DRAFTED: <i>M.B.</i>
SCALE: 1:500	DATE: Feb. 19, 1966
	CHECKED: <i>M.B.</i>
	SHEET No. 6256-85-1-1

0785-213
 6256-85-1-1

LEGEND

SYMBOLS

SOUTH

1 00 + 1

Baseline

1 00 N

2 00 N

3 00 N

NORTHERN

Bearing Deviation

5000 m Level

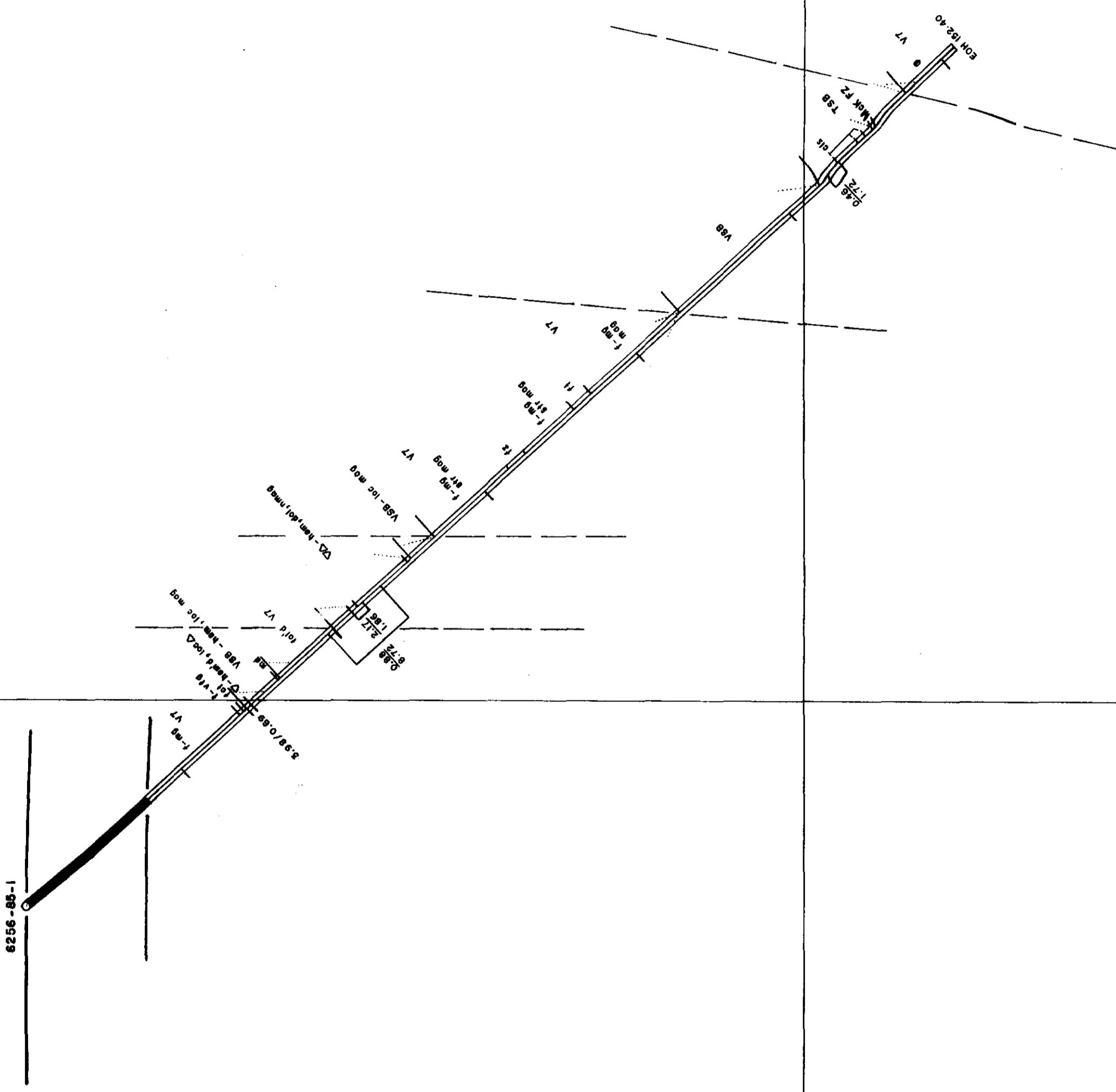
5000 m Level

4900 m

4900 m

4700 m

4700 m



LEGEND

- 7700 BASALT
- 5 SEDIMENT
- 32 SILICIFIED ZONE
- TS CARBONATIZED
- VS VARIABLY SILICIFIED

- Au Results**
- < 0.14 g/t
 - 0.14 - 0.11 g/t
 - < 0.10 g/t

SYMBOLS

- sh shear
- sl foliation
- sp locally
- sd carbonatized
- o pillowed
- o brecciated
- silicified
- z zone
- f flow
- foliation
- f fault
- mag magnetic
- n hematite
- dol dolomite
- sl fine grained
- mg medium grained
- cg coarse grained
- gph opphanitic

Step Page

David R. Bell Geological Services Inc
Mission Harker Exploration Limited

Harker Township Property
Drill Program
Section 25+00 W

DATE	1/1/86
BY	AJC
SCALE	1:2500
PROJECT	6356-86-7-3

01/85-2/3 63-1990



240

NORTH

SOUTH



Sign Page

Michael J. ...

David R. Bell Geological Services Inc.
 Mission Harker Exploration Limited

Harker Township Property
 Drill Program
 Section 25+50 W

PROV. Ontario
 PROJECT No. 62805
 MTS No. 32 D/12
 REFERENCES
 DRAWN: Z.L.C. DRAFTED: Z.L.C. CHECKED:
 SCALE: 1:500 DATE: Jan. 1996 SHEET No. 62805-313

LEGEND

Au. Results

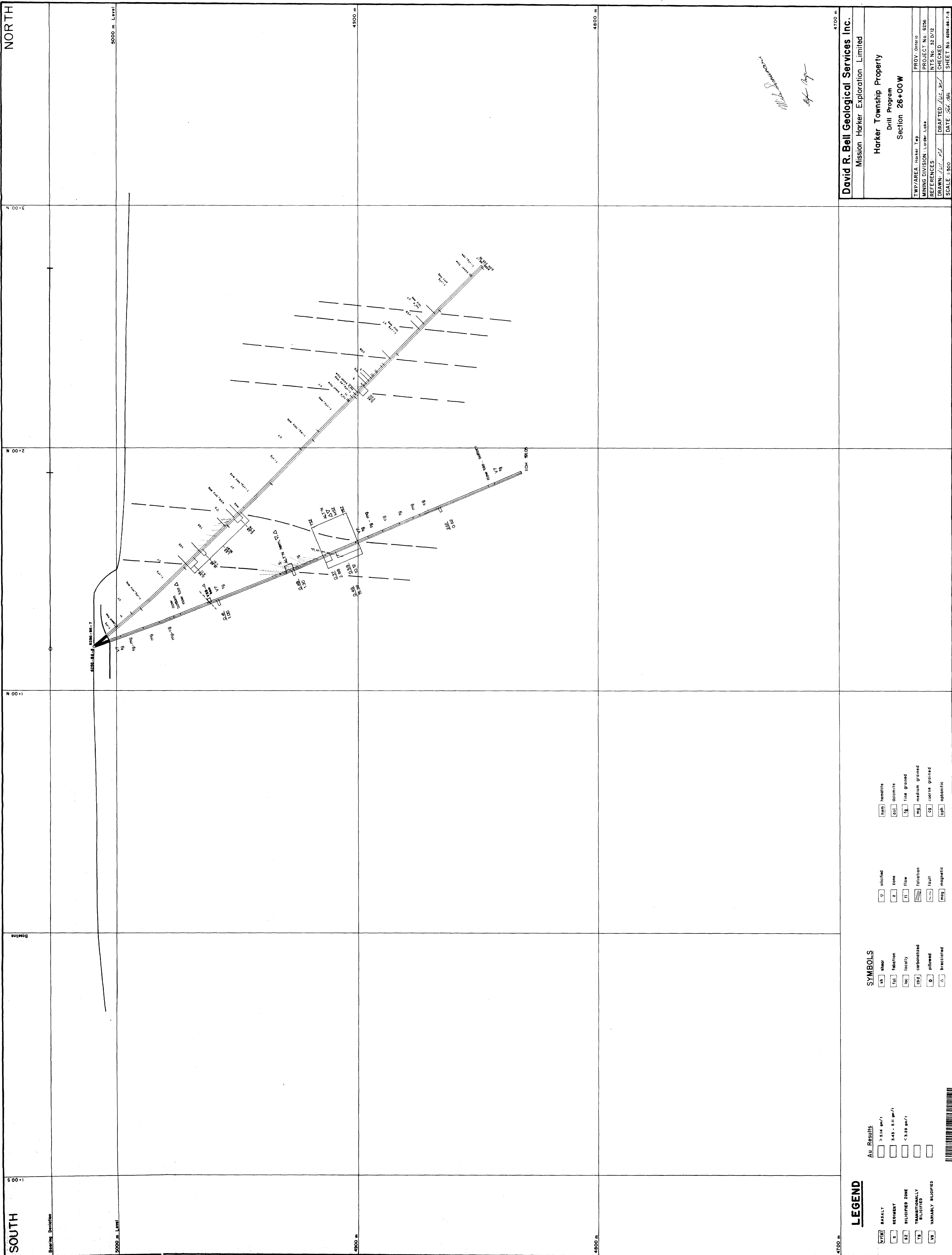
> 8.14 gm/t
 4.43 - 8.11 gm/t
 0.339 gm/t

SYMBOLS

sh. shor
 fol. foliation
 loc. locally
 carb. carbonized
 pill. pillowed
 brecciated

silicified
 zone
 flow
 foliation
 fault
 mag. magnetic

hematite
 dol. dolomite
 fine grained
 medium grained
 coarse grained
 sph. sphalerite



M. J. ...
A. J. ...

David R. Bell Geological Services Inc.
 Mission Harker Exploration Limited

Harker Township Property
 Drill Program
 Section 26+00W

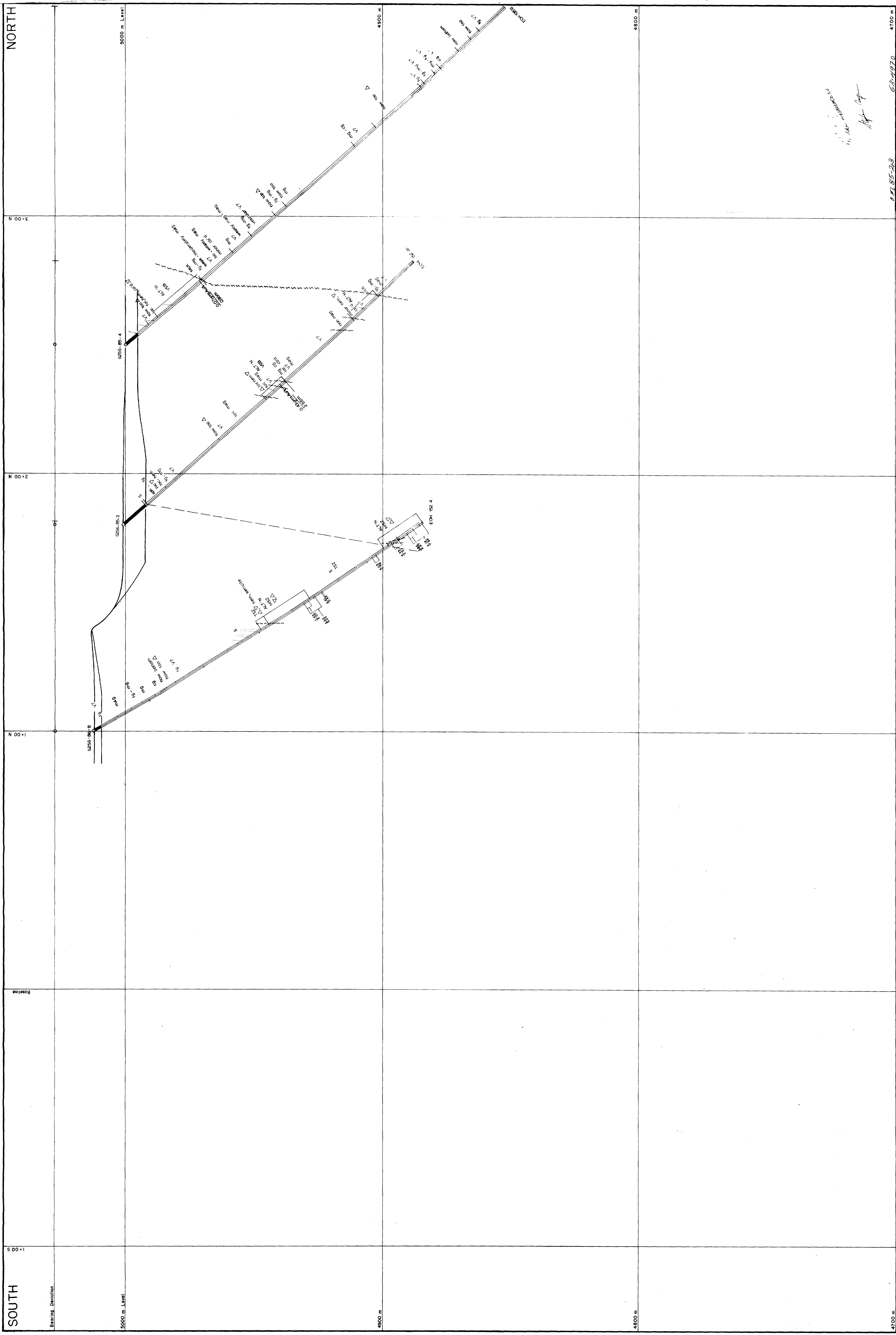
TWP/AREA: Harker, Twp. PROV: Ontario
 MINING DIVISION: Larder Lake PROJECT No. 6296
 REFERENCES: NTS No. 32 D/12
 DRAWN: M.J.C., A.J. DRAFTED: M.J.C., A.J. CHECKED:
 SCALE: 1:500 DATE: 5/24/94 SHEET No. 6296-88-7-3

4700 m
 4900 m
 9000 m Level

LEGEND

ALL RESULTS

< 0.14 g/t
 0.14 - 0.31 g/t
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 63-4970
David R. Bell Geological Services Inc.
 Mission Harker Exploration Limited
 Harker Township Property
 Drill Program
 Section 26+50W
 PROV. Ontario
 PROJECT No. 6246
 MINING DIVISION Larder Lake
 NTS No. 32 0/12
 DRAWN BY: [Signature]
 CHECKED: [Signature]

LEGEND

- Au. Results**
- > 5.14 gm/t
 - 4.43 - 5.11 gm/t
 - 3.33 gm/t
 - TRANSITIONALLY SILICIFIED
 - VARIABLY SILICIFIED

- SYMBOLS**
- BASALT
 - SEDIMENT
 - SHEAR
 - FOLIATION
 - LOCALITY
 - CARBONATED
 - PILLOWED
 - BRACCIATED

- SILICIFIED
- ZONE
- FLOW
- FOLIATION
- FAULT
- MAGNETIC
- MENDIITE
- OBLIVITE
- FINE GRAINED
- MEDIUM GRAINED
- COARSE GRAINED
- SPH. GRANITIC

SOUTH

NORTH

Bearing Deviation

1+00 S

2+00 N

1+00 N

3+00 N

5000 m Level

5000 m Level

4800 m

4900 m

4800 m

4800 m

4700 m

4700 m

LEGEND

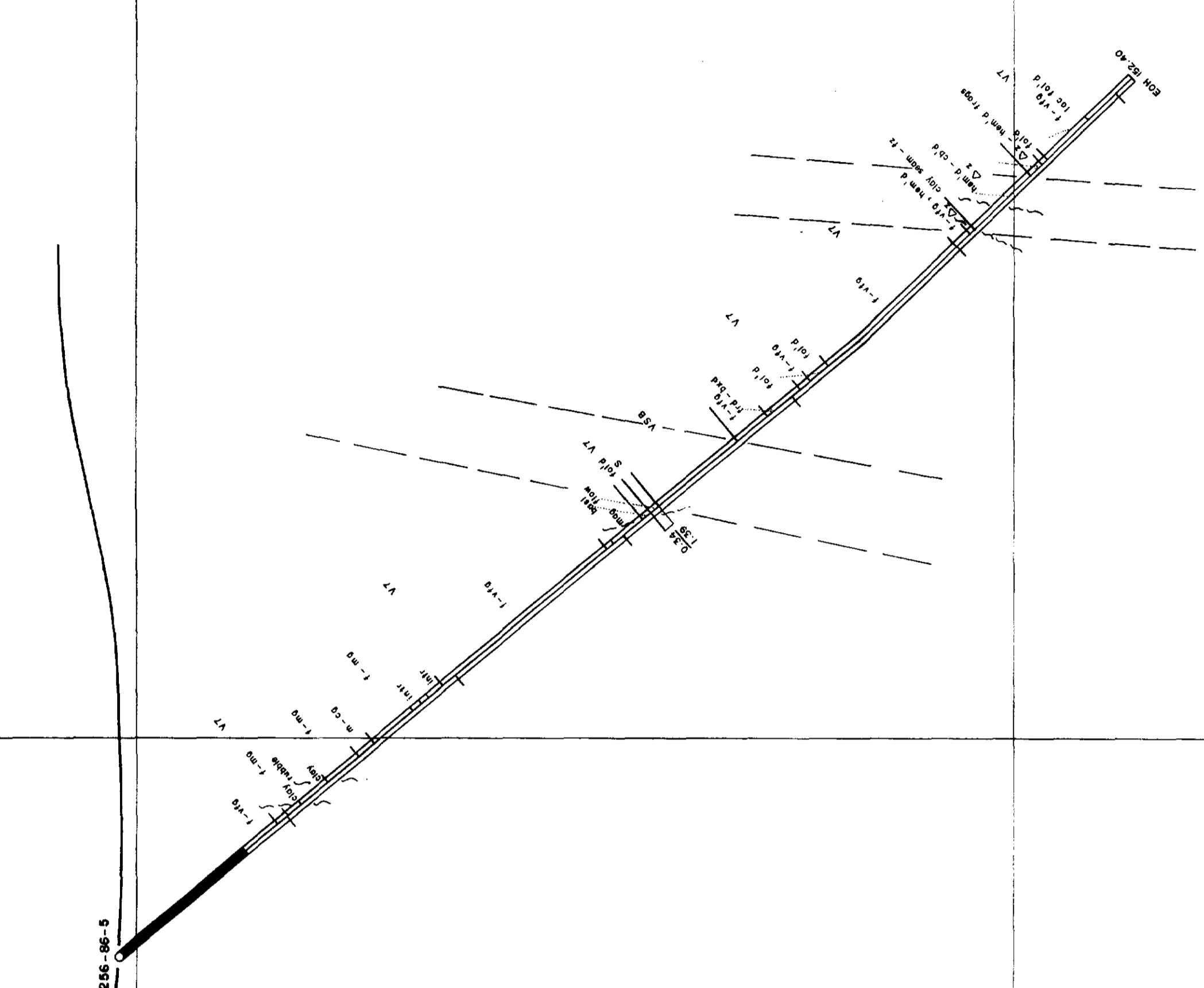
- [Symbol] BASALT
- [Symbol] SEDIMENT
- [Symbol] SILICIFIED ZONE
- [Symbol] TRANSITIONALLY SILICIFIED
- [Symbol] VARIABLY SILICIFIED

- Au Results
- [Symbol] > 2.14 gm/l
 - [Symbol] 3.43 - 5.11 gm/l
 - [Symbol] < 3.39 gm/l

- SYMBOLS
- [Symbol] shear
 - [Symbol] foliation
 - [Symbol] locality
 - [Symbol] carbonatized
 - [Symbol] pillowed
 - [Symbol] brecciated

- [Symbol] silicified
- [Symbol] zone
- [Symbol] flow
- [Symbol] foliation
- [Symbol] fault
- [Symbol] magnetic

- [Symbol] hematite
- [Symbol] dolomite
- [Symbol] fine grained
- [Symbol] medium grained
- [Symbol] coarse grained
- [Symbol] ophanitic

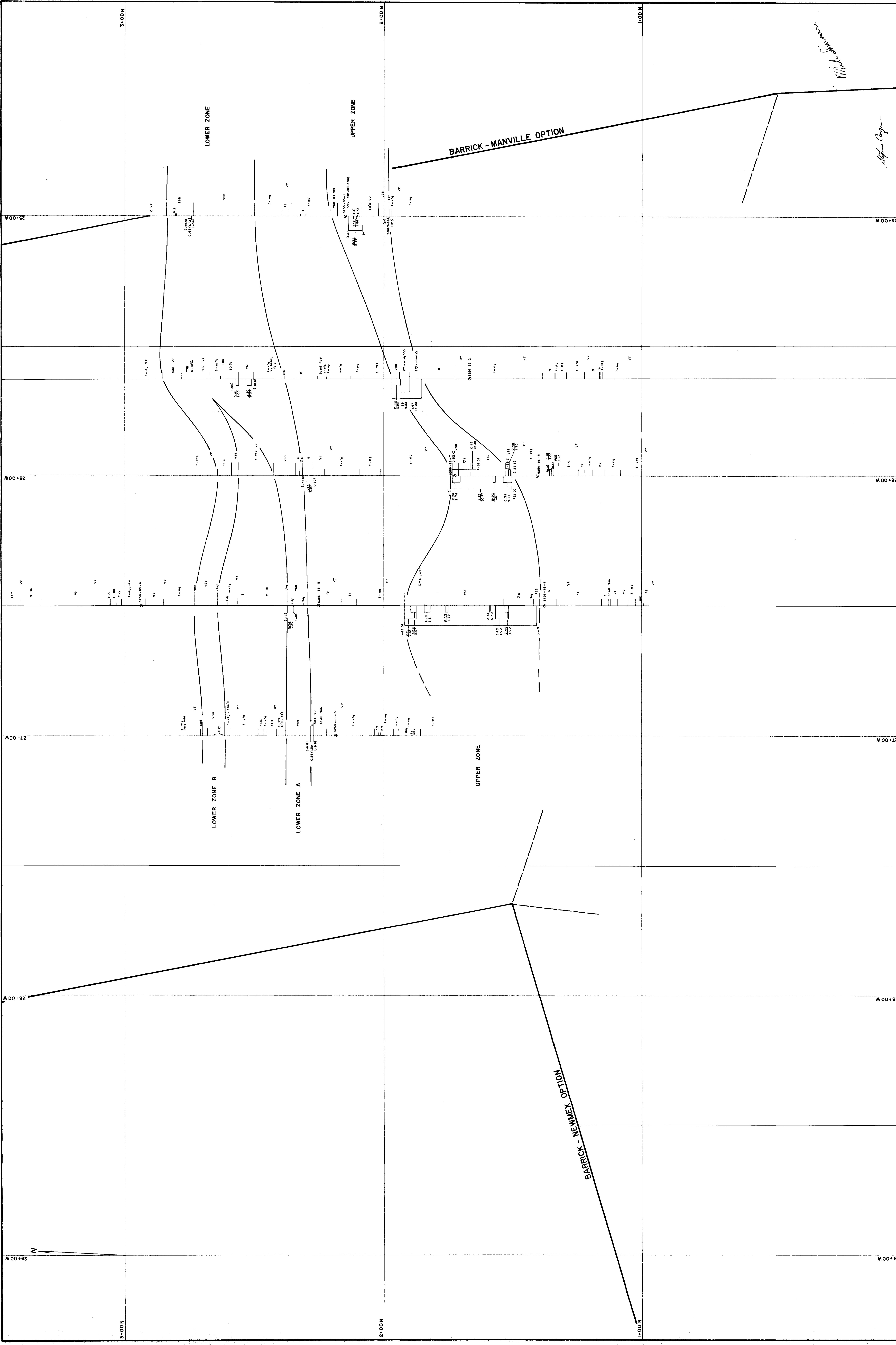


White Sulphur
High Cap

David R. Bell Geological Services Inc.
 Mission Harker Exploration Limited

Harker Township Property
 Drill Program
 Section 27+00W

TWP/AREA Harker, Twp. PROV. Ontario
 MINING DIVISION Laram, Lts. PROJECT No. 6256
 REFERENCES NT'S No. 32/D/2
 DRAWN: JLC DRAFTED: JLC CHECKED:
 SCALE: 1:500 DATE: 5/28/1994 SHEET No. 6256-27-7



David R. Bell Geological Services Inc.
 Mission Harker Exploration Limited
 Harker Township Property
 Level Plan
 4950 (-50m) Level Plan

PROV. Ontario
 PROJECT NO. 6256
 INTS. NO. 32 D/2
 DRAWN: *A.J.C.*
 CHECKED:
 SCALE: 1:500
 DATE: *5/24/1996*
 SHEET NO. 6256-94-1-2

BARRICK - MANVILLE OPTION
 BARRICK - NENMEX OPTION

LOWER ZONE A
 LOWER ZONE B
 UPPER ZONE

29+00W
 28+00W
 27+00W
 26+00W
 25+00W

3+00N
 2+00N
 1+00N

Au Results
 > 514 gm/t
 343 - 511 gm/t
 < 339 gm/t

LEGEND
 BASALT
 SEDIMENT
 SILICIFIED ZONE
 TRANSITIONALLY SILICIFIED
 VABABLY SILICIFIED
 OTHER
 TUFF
 LOCALITY
 CARBONIZED
 PILLARED
 BRECCIATED
 UNCLIFIED
 AREA
 DISTANCE ABOVE LEVEL