



42A01NE0123 80 TECK

010

DIAMOND DRILLING

TOWNSHIP: TECK

REPORT NO: 80

WORK PERFORMED FOR: BATTLE MOUNTAIN (CANADA) INC.

RECORDED HOLDER: SAME AS ABOVE

: OTHER

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
L1111440/L1132280	KGR-91-01	512.5 M	JUNE/91	(1)
L1111440	KGR-91-02	124.1 M	JUNE/91	(1)
L1111441/L1132251	KGR-91-03	298.0 M	JUNE/91	(1)
L1111443/L1132251	KGR-91-04	313.3 M	JUNE/91	(1)
L1111443	KGR-91-05	310.5 M	JULY/91	(1)
L1111453	KGR-91-06	145.08 M	JULY/91	(1)
	KGR-91-07	252.1 M	JULY/91	(1)
L1111442/L1111441	KGR-91-08	306.8 M	JULY/91	(1)
L1111439	KGR-91-09	265.0 M	JULY/91	(1)

2527.38 m

NOTES: (1) #W9180.05108, FILED FEB/92

BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT

DIAMOND DRILLING REPORT

June - July, 1991

RAND PROPERTY
(Kirkland Gold Rand Property)

TECK TOWNSHIP, LARDER LAKE MINING DIVISION

ONTARIO, CANADA

Kirkland Lake, Ontario
Project # 75-JV-28

W. Benham
August 30, 1991

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ONTARIO, CANADA

VOLUME 1

Kirkland Lake, Ontario
Project # 75-JV-28

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DC-026	Section 10298E, Hole KGR91-02	1:500
DC-027	Section 10200E, Hole KGR91-03	1:500
DC-028	Section 9950E, Hole KGR91-04	1:500
DC-029	Section 9700E, N $\frac{1}{2}$, Hole KGR 91-05	1:500
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DC-032	Section 10100E, Hole KGR91-08	1:500
DC-033	Section 10650E, Hole KGR 91-09	1:500

1.0 SUMMARY

During June 10th to July 18th, 1991, a diamond drilling programme was carried out by Battle Mountain (Canada) Inc. (BMCI) on the Kirkland Gold Rand (Rand) property located in Teck Township, Larder Lake Mining Division, Kirkland Lake, Ontario. Nine holes were drilled to test geological and geophysical targets outlined by previous exploration work completed by BMCI in 1991 and Kirkland Gold Rand Mines Ltd. in 1937. A total of 2527.4 metres were drilled and 1598 sawn core samples were assayed for gold.

No economic mineralization was intersected during the drilling programme. Narrow, 0.70 to 2.60 metre wide, quartz + pyrite zones, which assayed 1.51 to 4.10 g/t Au, were intersected to the southwest of the 1937 underground workings.

This poorly defined, weakly mineralized structure may be the continuation, to the east of the Murdock Creek Fault, of the mineralized "102" structure, which was discovered in 1989 on the adjoining Amalgamated Kirkland property, to the west of the Rand claims.

Hole KGR91-01 intersected a weakly mineralized, 9.0 metre wide interval, which is probably part of the West Drift - Hole 1937-18 vein system.

Weakly anomalous gold intersections, 0.5 to 5.0 metres wide, were encountered in altered, sheared sediments and volcanics which are associated with the Middle Harvey Fault and the Larder Lake Fault.

No further work is recommended for Rand property at this time.

2.0 INTRODUCTION

This report describes the results of the diamond drilling programme completed by Battle Mountain (Canada) Inc. (BMCI) during June 10th to July 18th, 1991, on the Kirkland Gold Rand (Rand) property, which is located in the Kirkland Lake Mining District, Teck Township, Ontario. Nine holes were drilled to test geological and geophysical targets which were outlined by previous surface exploration by BMCI in 1991 and underground work by Kirkland Gold Rand Ltd. and Hudson-Rand Gold Mines Ltd. during the period 1937 to 1947.

2.1 Property

The Kirkland Gold Rand property consists of nine unpatented mining claims, optioned by Queenston Mining Inc. (QMI) from Mountain Lake Resources Inc. under an option agreement dated September 10, 1990, whereby QMI can earn up to a 75% interest in the claims. Since the Rand claims fall within the area of interest in an agreement between QMI and BMCI dated June 15, 1989, BMCI has the right to earn a 70% interest in any interest acquired by QMI in the Rand claims.

Eight of the nine claims correspond with historical patents which formed the original Kirkland Gold Rand property which became open at various dates and were staked in the years shown below. Current Assessment Work Credits up to, but excluding, the 1991 geological mapping are also shown as man-days and as dollars at the conversion rate of \$22 per man day to correspond to the new Ontario Mining Act.

<u>Claim No.</u>	<u>Historical Patent</u>	<u>Date of Record</u>	<u>Current Ass. Days</u>	<u>Current Ass. \$</u>
L.1049642.		Dec. 5, 1988	105	\$2,310
L.1111439	L.6680	June 1, 1989	83	\$1,826
L.1111440	L.6679	June 1, 1989	107.75	\$2,370
L.1111441	L.6681	June 1, 1989	105	\$2,310
L.1111442	L.6678	June 1, 1989	105	\$2,310
L.1111453	L.6682	June 1, 1989	82	\$1,804
L.1132251	L.2678	May 18, 1990	0*	
L.1132280	L.2679	May 18, 1990	45	\$ 990
L.1146063	L.5941	May 18, 1990	60	\$1,320

* On Extension until November 29th, 1991

2.2 Location and Access

The property is located in the Larder Lake Mining Division in the south eastern quarter of Teck Township in and south of the town of Kirkland Lake (NTS 42 A/1; UTM 572250E/5331750N). The northern three claims are located under the town to the east of Comfort Street and to the south of King Street. (See Drawing No. 1).

Access to the northern claims is provided by Pollock Avenue, Premier Avenue and Earl Street. The Harvey Kirkland Road crosses the northeastern corner of the property. The east-west trending Northland Power hydro transmission line right-of-way transects the claims. Trails and old bush roads leading from these streets and roads provide excellent access to the entire property.

3.0 PREVIOUS WORK

The Rand property was originally explored during the early periods of prospecting in the Kirkland Lake area. Early development on the property, in the late 1910's and early 1920's, was undertaken by Ontario-Kirkland Gold Mines and Ontario-Montreal Mines. Later, work was continued by Kirkland Premier Mines which focused on narrow, pyritic quartz veins on claim L.1132280.

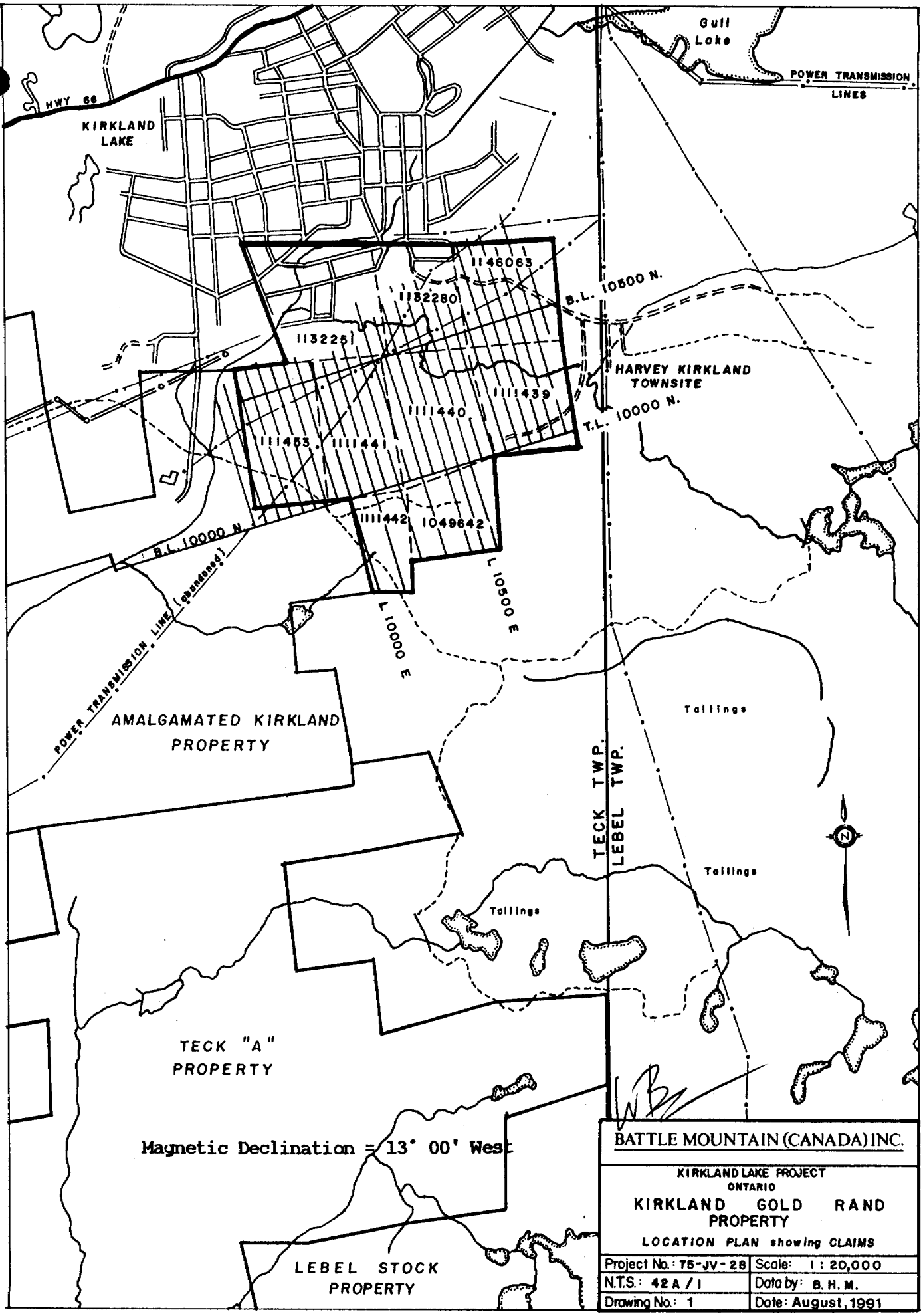
In 1931, Kirkland Gold Rand Ltd. was organized, but commencement of operations was delayed until 1935 due to lack of financing. Between 1935 and 1937 two shafts were sunk and six levels developed to the 800 foot (244 m) level and the No. 1 winze sunk to the 1425 foot (434 m) level. Kirkland Gold Rand Mines was succeeded by Hudson-Rand Gold Mines who re-opened and re-sampled the underground workings from September, 1946 to May, 1947.

A full description of the Kirkland Gold Mine is given in the report titled: "Historical Data Compilation on the Kirkland Gold Rand Mine", by M. W. Masson, August, 1991.

During the 1970's, various exploration programmes, which consisted of prospecting, mapping, geophysics and diamond drilling, were carried out by Kerr Addison Ltd. and Newmont Exploration Ltd. in the Larder Lake Group to the south of the Larder Lake Fault. In 1974, Kerr Addison Mines Ltd. drilled four winkle holes (AXT core), totalling 330 feet, in the vicinity of trenching in the at approximately line 104+50E, 99+00N of the present grid system.

In 1978 Newmont Exploration carried out magnetometer, VLF-EM and IP surveys on what is now claim L.1049642. A fence of two holes (D78-1, D78-7), for a total of 452 metres was drilled in the same area as the previous Kerr Addison drilling and stripping. Weakly anomalous gold values were reported in cherty magnetite iron formations within quartz-carbonate altered volcanics of the Larder Lake Group. The best intersections were 430, 470 and 1010 ppb Au over widths of one metre each.

During January, 1991 a new grid was cut by Northland Technical Surveys as an extension of the 1989 grid on the adjacent Amalgamated Kirkland property, using the common corner point of the Rand and Amalgamated Kirkland properties at line 100+00E, 100+00N. Subsequently, in February, 1991, magnetometer and VLF-EM surveys were carried out by Timmins Geophysics Ltd. on behalf of Battle Mountain (Canada) Inc. (Londry 1991). During January to March, 1991 a compilation was completed of the historical data on the Kirkland Gold Rand Mine (Masson, 1991a). In May, 1991 the surface geology was mapped at a scale of 1:2,500, during which 164 grab samples were collected and assayed for gold (Masson, 1991b). The geological mapping report included recommendations for drill testing of the various altered and weakly mineralized zones identified from the mapping and the earlier compilation study.



Magnetic Declination = 13° 00' West

WB

BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
ONTARIO

**KIRKLAND GOLD RAMP
PROPERTY**

LOCATION PLAN showing CLAIMS

Project No.: 75-JV-28	Scale: 1 : 20,000
NTS: 42 A / 1	Data by: B. H. M.
Drawing No.: 1	Date: August, 1991

4.0 REGIONAL GEOLOGY

The Kirkland Lake area is situated in the central part of the Archean, Abitibi Greenstone Belt, on the south limb of the major east-west trending, east plunging Blake River synclinorium which is located approximately at the mid-point between the Round Lake and Lake Abitibi Batholiths.

The northern and southern limbs of this synclinorium are marked by wide east-west trending deformation zones known as the Porcupine-Destor and Cadillac-Larder Lake Breaks, respectively. The Cadillac/Larder Lake Break (deformation zone) can be traced from Val d'Or, Quebec to the Matachewan area in Ontario and lies immediately south of the Town of Kirkland Lake. The Larder Lake Break passes through the southern part of the Rand property.

All of the historically significant and presently producing gold mines in the Kirkland Lake district are located to the north of the Larder Lake Break, mostly along a sub-parallel structure known as the Kirkland Lake Main Break.

5.0 PROPERTY GEOLOGY

The Rand property is underlain by two, distinct geological domains. The northern domain consists of interbedded Timiskaming conglomerates, graywackes, mudstones and trachyte ash-, lapilli- and block-tuffs, which have been intruded by irregular shaped bodies of syenite and syenite porphyry.

The southern domain includes mafic to ultramafic volcanics and associated sediments (iron formation, graywacke) of the Larder Lake Group (LLG), in part intruded by small syenite and felsite bodies, and hosting a broad zone of quartz + carbonate ± fuchsite altered rocks which are associated with the Larder Lake Fault. Part of the Murdock Creek Stock lies along the south margin of the property.

Three sub-parallel faults, which strike 055° - 075°, are interpreted to cross the property in the north, central and southern parts of the claim group and are referred to as the North Harvey Fault, Middle Harvey Fault and the Larder Lake Fault-North Branch, (formerly known as the South Harvey Fault, Thomson, 1950). The Larder Lake Fault-North Branch marks the contact between the Timiskaming Group to the north and the Larder Lake Group to the south.

Two late cross faults, which strike 030° - 035° are interpreted in the central part of the property. These sinistral, southeast dipping faults, which are sub-parallel to the Murdock Creek Fault to the west, offset the stratigraphy and the earlier structures about 100 to 150 metres in the horizontal sense; however, their vertical movements are unknown.

The geology of the property is described in greater detail in a BMCI report dated August, 1991 by M. W. Masson (1991,b), entitled "Report on Geological Mapping and Sampling, Rand Property".

6.0 GEOPHYSICS

VLF electromagnetic and magnetic surveys were carried out during February, 1991 by Timmins Geophysics Ltd. (Londry 1991). The magnetic survey outlined grid east-west trending zones of low and high linear magnetics, which are offset by north-northeast striking features interpreted as southeast dipping cross faults. The linear zones of low magnetic amplitudes were interpreted to mark the continuation of the Amalgamated Kirkland "99", "100", "102" and "103" structures, and the Larder Lake Fault Zone, onto the Rand claims to the northeast of the Murdock Creek Fault.

Mapping during May 1991 located altered sericitic syenite, trachyte tuff, graywacke and conglomerates in the areas of low magnetics. Grab samples of the altered, weakly pyritic rocks returned some weakly anomalous gold assays.

Locally weak, poorly defined, VLF-electromagnetic anomalies are associated with the low magnetic anomalies located within the Timiskaming Group rocks. These anomalies may be due to conductive overburden, shear zones or sulphide mineralization.

Within the Larder Lake Group volcanics a single line moderate strength VLF-EM anomaly is located on line 101+00E, 99+00N. Drilling by Newmont Mining Ltd., in 1978 to the east and west of this anomaly, intersected pyritic, argillaceous sediments within highly altered, carbonated mafic to ultramafic volcanics.

7.0 DRILLING

7.1 Drilling Programme

Diamond drilling on the Rand property was started on June 10th and completed July 18th by Heath & Sherwood Drilling (1986) Inc. of Kirkland Lake, Ontario under the supervision of W. Benham. Nine holes were drilled for a total of 2527.4 metres. A total of 1598 sawn core samples were assayed for gold, using one assay ton fusions, by Swastika Laboratories Ltd. The core is presently stored at BMCI's warehouse which is located in the Industrial Plaza on Government Road West in Kirkland Lake.

7.2 Drill Results

The results of the drilling are described in drill logs KGR91-01 to KGR91-09 (Appendix I) and illustrated on drill sections DC-024 to DC-033 which accompany this report. Eight holes were logged by M. Masson and one hole, KGR91-06, was logged by W. Benham. The drill hole geology, projected up-dip, is shown in plan on Drawing GL-021, a revised version of the Rand surface geology plan. Drill hole locations are shown on Drawing DP-002. A summary listing of the diamond drill holes and including significant intersections greater than 1.0 g/t Au or greater than 3.0 metres is presented in Table 1. Assays greater than 100 ppb are listed in Table 2. Assay certificates are located in Appendix II and all sampled intervals and assays results are recorded in the drill logs.

Hole KGR91-01 was drilled to test below the West Drift Vein, which was explored during the 1930's on the 450 foot (137 m) and 800 foot (244 m) levels from the Kirkland Gold Rand No. 1 and No. 2 shafts, and above the underground hole 1937-18 intersection, which assayed 10.63 g/t Au over 2.65 metres at a vertical depth of 525 metres, within a deeper syenite body.

Gold anomalous, faulted, deformed, sericitic graywackes and mudstones with <0.5 -2% blue-grey quartz veinlets, 0.5 to 1% pyrite, and traces of chalcopyrite were intersected over nine metres. The highest assay from this section was from 436.0 to 437.0, with 1.79 g/t Au over 1.0 metre, in a mudstone with < 0.5% pyrite and < 0.5% quartz veinlets.

A narrow quartz-pyrite zone, which was intersected at 255.0 to 256.5 metres, assayed 1.51 g/t Au over 1.50 metres including 2.93 g/t Au over 0.50 metres. This section is just north of the contact between the volcanic rocks and a narrow syenite body to the south and the sedimentary member to the north which hosts the Rand Mine.

Hole KGR91-02 tested a low magnetic zone and coincident VLF-EM anomaly. Sheared, sericitic, graywackes, mudstones and conglomerates, with no appreciable sulphide mineralization, were intersected in the target area. No significant assays were returned and the VLF-EM anomaly was not explained, but is probably due to changes in the thickness or type of overburden in the area of Rand Creek.

Hole KGR91-03 tested the projected eastern extension of strongly altered syenites in an area of low magnetics, as well as a weak VLF-EM anomaly in an overburden covered area. The interval from 242.9 to 245.5 assayed 2.66 g/t Au over 2.60 metres including 22.04 g/t Au over 0.30 metres from 243.6 to 243.9. This sample, which contained a 20 cm wide quartz + pyrite zone with 3-5%

pyrite and 5% quartz, was intersected at the north contact of a syenite, at 243.65 metres. This mineralized zone is possibly equivalent to that at 255.0 to 256.5 in hole KGR91-01, just north of the syenite.

Hole KGR91-04, 250 metres west of KGR91-03, was drilled to test a 75 metre wide, hematitic, sericitic and bleached syenite with weakly anomalous grab samples along its southern contact, as well as some associated magnetic lows. Hole 4 intersected hematitic syenite from 159.6 to 181.2, bleached sericitic syenite from 185.0 to 234.5 and hematitic, weakly porphyritic syenite from 234.5 to 298.3. The linear zone of low magnetic amplitudes at 10560N corresponds to a narrow band or bed of sheared sericitic sediments within the syenite from 181.2 to 185.0 metres, rather than an anticipated mineralized structure. The interval from 267.0 to 269.0 which contains 0.5% pyrite and trace chalcopyrite, disseminated and along fractures, adjacent to a fault at 268.8, assayed 1.27 g/t Au over 2.0 metres including 2.29 g/t Au over 1.0 metres. It may also correspond to the intersections at similar depths in holes KGR91-01 and KGR91-03.

Hole KGR91-05, 250 metres west of hole 4, was drilled to test parallel zones of low magnetics to the west of the altered syenite. Weakly porphyritic, sericitic and silicified syenite was intersected from 188.90 to 192.00, 196.95 to 282.80 and 286.20 to 310.50 (the end of the hole and the property boundary). At 266.00, the syenite locally contains up to 5% dark grey patchy quartz veining, a pervasive silicification and 0.5% disseminated pyrite. Narrow intervals returned geochemically anomalous assays of 0.12 to 0.51 g/t Au over 0.50 - 2.00 metres. Sericitic conglomerates with 0.5% disseminated pyrite at the syenite contact at 286.2 metres assayed 4.10 g/t Au over 0.70 metres, and may correspond to the same zone as in holes KGR91-01, -03 and -04.

Hole KGR91-06 tested sheared conglomerates with geochemically anomalous gold, a broad zone of low magnetic amplitudes and two VLF-EM anomalies. Strongly sheared, faulted, sericitic conglomerates and graywackes and chloritic mudstones were intersected from 26.60 to 124.50 metres. These sediments are locally drag-folded and crenulated. Sheared conglomerates with 2% boudinaged white quartz veining and trace pyrite from 83.00 to 86.00 assayed 0.13 g/t Au over 3.0 metres, comparable with the anomalous surface samples in this same area.

Hole KGR91-07 was drilled to test the southern trachyte tuff band and the sericitic altered zones at the southern and northern contacts of the volcanics with the adjacent sediments. No significant mineralization was encountered.

Hole KGR91-08 tested a VLF-EM anomaly within green-brown carbonated volcanic rocks of the Larder Lake Group as well as the North Branch of the Larder Lake Fault in contact with the Timiskaming sediments. Carbonated mafic to ultramafic volcanic rocks with interflow graphitic and magnetite-bearing banded sedimentary rocks and iron formation were intersected. The Larder Lake Fault is marked by a 8.8 metre wide section of green-brown carbonated volcanics in contact with sericitic, sheared Timiskaming graywacke, as well as a 2mm wide graphitic slip. A magnetic, weakly porphyritic, fractured syenite was intersected from 141.20 to 171.20 metres. Narrow sections of this syenite with sericitic quartz veining and 0.5 - 1% pyrite assayed 0.12 - 1.30 g/t Au over widths of 0.5 - 1.0 metres.

Hole KGR91-09 tested the North Branch of the Larder Lake Fault and a wide overburden covered area to the north of the fault. The fault is marked by a 10cm wide mud gouge at 47.6 metres. Sheared sericitic conglomerates and graywackes and chloritic mudstones were intersected from 152.40 to 227.00 metres. Bleached, sericitic, silicified, brecciated mafic volcanics with trace to 1% pyrite

from 28.30 to 31.50 and 42.50 to 47.00 assayed 0.23 g/t Au over 3.20 metres and 0.14 g/t Au over 4.50 metres respectively. Sheared, sericitic conglomerates with trace pyrite and minor quartz veining from 156.00 to 161.00 metres assayed 0.11 g/t Au over 5.00 metres.

7.3 Discussion of Drill Results

No economic mineralization was intersected by the 1991 drilling programme. Narrow quartz + pyrite zones have similar widths and gold contents as the veins which were mapped and sampled on surface in the vicinity of the old Rand underground workings.

The weakly mineralized 9.00 metre wide section which was intersected from 435.00 to 444.00 metres in hole KGR91-01 is probably part of the West Drift - Hole 1937-18 vein system.

The gold bearing, pyrite + quartz and pyrite zones intersected in hole KGR91-01 at 255 metres, hole KGR91-03 at 243 metres, hole KGR91-04 at 267 metres and hole KGR91-05 at 286 metres may be associated with a common weak structure. It is unknown if this inferred structure is the continuation of the Amalgamated Kirkland mineralized "102" structure, or the "103" structure to the east of the Murdock Creek Fault.

Weakly anomalous gold mineralization was encountered in sheared, sericitic conglomerates in holes KGR91-06 and KGR91-09 over core lengths of 3.00 to 5.00 metres. The significance of these intersections is unknown.

The weakly anomalous gold mineralization intersected in altered pyritic Larder Lake Group sediments and volcanics in holes KGR91-08 and KGR91-09 is similar to the zones encountered in the 1978 Newmont Mining Ltd. drilling to the east and west along strike of the Larder Lake Fault.

Holes KGR91-08 and KGR91-09 indicate that the Larder Lake Fault dips 50° to 60° to the south.

8.0 CONCLUSIONS AND RECOMMENDATIONS

No economic gold mineralization was intersected by the 1991 Rand diamond drill programme. Mineralized quartz + pyrite zones were encountered which are similar to the narrow, high grade veins which were explored underground in 1935-47 from the Kirkland Gold Rand shaft to a vertical depth of 244 metres without any economic success.

No further work is recommended at this time.

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TABLE 1

BOTTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT, ONTARIO

**SUMMARY LISTING OF DIAMOND DRILL HOLES
INCLUDING SIGNIFICANT INTERSECTIONS (> 1.0 g/t Au OR > 3.0 m)**

RAND PROPERTY

Hole No.	Collar				Length		Dates		Intersections			
	Easting	Northing	Dip	Azimuth	Proposed	Total	Started (1991)	Completed	From	To	Length (metres)	Au g/t
KGR-91-01	10350	10500	-70	341	550.00	512.50	11-Jun	20-Jun	255.00	256.50	1.50	1.51
									435.00	444.00	9.00	0.27
									including 436.00	437.00	1.00	1.48
KGR-91-02	10298	10395	-70	341	125.00	124.10	21-Jun	23-Jun	No Significant Assays			
KGR-91-03	10200	10460	-45	341	200.00	298.00	23-Jun	26-Jun	242.90	245.50	2.60	2.66
									including 243.60	243.90	0.30	22.04
KGR-91-04	9950	10400	-45	341	300.00	313.30	27-Jun	01-Jul	267.00	269.00	2.00	1.27
									including 267.00	268.00	1.00	2.29
KGR-91-05	9700	10390	-45	341	300.00	310.50	01-Jul	05-Jul	285.50	286.20	0.70	4.10
KGR-91-06	9700	10085	-45	341	250.00	145.10	07-Jul	08-Jul	83.00	86.00	3.00	0.13
KGR-91-07	9850	10185	-45	341	140.00	252.10	08-Jul	11-Jul	No Significant Assays			
KGR-81-08	10150	9825	-45	341	300.00	306.80	11-Jul	14-Jul	No Significant Assays			
KGR-91-09	10650	10112	-45	341	300.00	265.00	15-Jul	18-Jul	28.30	31.50	3.20	0.23
									42.50	47.00	4.50	0.14
									156.00	161.00	5.00	0.11
TOTAL					2465	2527.4						

TABLE 2

KIRKLAND LAKE PROJECT, ONTARIO

RAND PROPERTY

30-Jul 1991

SUMMARY LISTING OF DIAMOND DRILL HOLE ASSAYS GREATER THAN 100 ppb

Hole No.	Collar		Total Length	From	To	Description	Assays				Intersection Averages							
	East	North					From	To	Length	Au, g/t	From	To	Length (metres)	Au μ /t				
KGR-91-01	10350	10500	512.50	24.60	65.00	Conglomerate - North Harvey Fault Hematitic, breccia veinlets	59.00	60.00	1.00	0.14								
				51.85	65.00													
				239.50	283.30	Graywacke 2-3% disseminated to banded pyrite, minor quartz calcite stringers	255.00	255.50	0.50	1.32					255.00	256.50	1.50	1.51
				255.35	256.20		255.50	256.00	0.50	0.28								
							256.00	256.50	0.50	2.92								
				287.00	289.00	Graywacke, strongly sericitic Foliated, sheared, <1% pyrite	287.00	288.00	1.00	0.46					287.00	289.00	2.00	0.37
							288.00	289.00	1.00	0.27								
				294.20	305.00	Graywacke to Mudstone/Siltstone contact marked by sericite slip.	294.00	295.00	1.00	0.12								
				412.00	429.35	Graywacke, unaltered	419.00	420.00	1.00	0.11								
				429.35	438.30	Mudstone 0.5 cm quartz + calcite veinlet with 1% pyrite + chalcopyrite	435.00	436.00	1.00	0.22								
				435.70			436.00	437.00	1.00	1.48								
							437.00	437.50	0.50	0.12								
				438.30	448.30	Graywacke Fault Zone, schistose, sericitized, 5-10% quartz + calcite veinlets, minor pyrite	437.50	438.30	0.80	0.14								
438.30	446.35	438.30	439.00	0.70	0.06													
		439.00	440.00	1.00	0.02													
		440.00	441.00	1.00	0.16													
		441.00	442.00	1.00	0.01													
438.30	441.00	Foliated, sericitized with 1-2% pyrite	442.00	443.00	1.00	0.01												
			443.00	444.00	1.00	0.36	435.00	444.00	9.00	0.27								
KGR-91-02	10298	10395	124.10	46.50	63.60	Conglomerate, foliated.	61.00	62.00	1.00	0.19								
KGR-91-03	10200	10460	298.00	60.60	72.60	Shear Zone, mylonitic, ash-tuff, lapilli- tuff and conconglomerate, 5% sericite.	62.00	62.50	0.50	0.14								
							65.00	65.50	0.50	0.14								
				242.30	243.65	Syenite, lower 25 cm with 3-5% sericite Graywacke/Mudstone 4 cm blue-grey quartz vein, 3-5% pyrite Hematized, sericitized graywacke	242.90	243.60	0.70	0.17					242.90	245.50	2.60	2.66
				243.65	298.00		243.60	243.90	0.30	22.04								
				243.65	243.85		243.90	244.70	0.80	0.03								
				243.85	244.70		244.70	245.50	0.80	0.19								
			257.00	258.00	1.00	0.11												
KGR-91-04	9950	10400	313.30	234.50	298.30	Syenite 0.5% fine pyrite, disseminated and fractures, trace chalcopyrite	267.00	268.00	1.00	2.29	267.00	269.00	2.00	1.27				
				267.05	268.70		268.00	269.00	1.00	0.25								

TABLE 2

KIRKLAND LAKE PROJECT, ONTARIO

RAND PROPERTY

30-Jul 1991

SUMMARY LISTING OF DIAMOND DRILL HOLE ASSAYS GREATER THAN 100 ppb

Hole No.	Collar		Total Length	From	To	Description	Assays				Intersection Averages						
	East	North					From	To	Length	Au, g/t	From	To	Length (metres)	Au g/t			
KGR-91-05	9700	10390	310.50	196.95	282.80	Syenite	268.70	269.20	0.50	0.51							
							273.00	275.00	2.00	0.22							
							277.00	278.00	1.00	0.11							
							280.00	281.00	1.00	0.13							
				282.80	286.20	Conglomerate, weakly to moderately sericitized 0.5% finely disseminated pyrite, two 2-5 mm white quartz veinlets	283.50	284.00	0.50	0.26							
							285.95	286.20	0.70	4.10							
							286.20	310.50	Syenite, crackle breccia	290.00					291.00	1.00	0.13
										308.00					309.00	1.00	0.12
KGR-91-06	9700	10085	145.10	77.20	86.30	Conglomerate, sheared, sericitic, trace pyrite, 1-2% quartz veins	83.00	84.00	1.00	0.17	83.00	86.00	3.00	0.13			
							84.00	85.00	1.00	0.12							
							85.00	86.00	1.00	0.11							
KGR-91-07	9850	10185	252.10							No significant assays							
KGR-81-08	10150	9825	306.80	141.20	171.20	Syenite, magnetic, trace-1% pyrite	142.00	143.00	1.00	0.14							
							145.50	146.00	0.50	0.23							
							148.50	149.00	0.50	0.30							
				171.20	180.50	Iron Formation/Sediments Magnetic, potassic alteration, trace pyrite Graywacke/Mudstone/Conglomerate Weakly to strongly sericitic	152.00	153.00	1.00	0.12							
							178.00	179.00	1.00	0.19							
							203.00	293.00	1.00	0.16							
							229.00	231.00	2.00	0.17							

APPENDIX I
DIAMOND DRILL LOGS

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-01

PAGE: 1 of 16

PROPERTY	Kirkland Gold Rand	DATE LOGGED	June 11-20 1991	EASTING	10350
TOWNSHIP	Teck	LOGGED BY	M.W. Masson	NORTHING	10500
CLAIM No.	L 1111440, L 1132280	SIGNED BY	<i>[Signature]</i>	ELEVATION	
STARTED	June 10, 1991	DRILLED BY	Heath & Sherwood	LENGTH	512.5
COMPLETED	June 19, 1991	SURVEYED BY	MWM, Tropari	UNITS	metres
PURPOSE	To test down-dip extension of the West Drift Vein and the up-dip extension of the 1937-hole 18 gold intersection.	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ

DEPTH	AZIMUTH	DIP
Collar	339	69
244.00	339	52
360.00	337	45
512.00	337	40

COMMENTS West Drift - Hole 18 vein system intersected at 435.0 - 444.0

SUMMARY LOG

ASSAY SUMMARY

INTERVAL		DESCRIPTION	INTERVAL		DESCRIPTION	INTERVAL		LENGTH in metres	AVERAGE Au g/t
From	To		From	To		From	To		
0.00	9.75	OVERBURDEN	283.30	287.00	SYENITE				
9.75	21.80	BLOCK TUFF	287.00	289.00	GRAYWACKE	59.00	60.00	1.00	0.14
21.80	24.60	ASH - LAPILLI TUFF			Sheared, sericitic fault zone @ 60° tca.				
24.60	65.00	CONGLOMERATE	289.00	294.20	GRAYWACKE				
		Strongly foliated to schistose. Possible cross-fault or North Harvey Fault.	294.20	305.00	MUDSTONE	255.00	256.50	1.50	1.51
65.00	83.80	SYENITE	305.00	404.00	GRAYWACKE				
		Hematitic to sericitic with possible tuffaceous inclusions.	404.00	412.00	373.50 - 386.00 Patchy pyritic zone.	256.00	256.50	0.50	2.93
83.80	100.00	CONGLOMERATE	412.00	429.35	MUDSTONE	287.00	298.00	2.00	0.37
		Chlorite			GRAYWACKE	294.00	295.00	1.00	0.12
100.00	234.90	CONGLOMERATE	429.35	438.30	423.75 - 424.40 Pyrite zone. Disseminated to banded pyrite up to 15%.	419.00	420.00	1.00	0.11
		Chlorite + hematite ± magnetite			MUDSTONE				
234.90	239.50	CONGLOMERATE	438.30	448.30	<0.5% Pyrite, <1% quartz veining, trace chalcopyrite.	435.00	444.00	9.00	0.27
239.50	283.30	GRAYWACKE			GRAYWACKE				
		255.10 - 255.35 Pyrite zone. 3-5% pyrite + quartz + calcite.	448.30	462.30	438.30 - 446.35 Deformed, sheared graywacke. 1-2% pyrite, 1-3% quartz veining.	436.00	437.00	1.00	1.48
		255.35 - 256.20 Patchy, 2-3% disseminated pyrite	462.30	474.50	CONGLOMERATE				
		267.05 - 278.20 Patchy pyritic zones	474.50	488.80	GRAYWACKE				
					MUDSTONE				

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-01

PAGE: 2 of 16

PROPERTY	Kirkland Gold Rand	DATE LOGGED	June 11-20 1991	EASTING	10350
TOWNSHIP	Teck	LOGGED BY	M.W. Masson	NORTHING	10500
CLAIM No.	L 1111440, L 1132280	SIGNED BY		ELEVATION	
STARTED	June 10, 1991	DRILLED BY	Heath & Sherwood	LENGTH	512.5
COMPLETED	June 19, 1991	SURVEYED BY	MWM, Tropari	UNITS	metres
PURPOSE	To test down-dip extension of the West Drift Vein and the up-dip extension of the 1937-hole 18 gold intersection.	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ

DEPTH	AZIMUTH	DIP
Collar	339	69
244.00	339	52
360.00	337	45
512.00	337	40

COMMENTS West Drift - Hole 18 vein system intersected at 435.0 - 444.0

SUMMARY LOG

ASSAY SUMMARY

INTERVAL From To		DESCRIPTION	INTERVAL From To		DESCRIPTION	INTERVAL From To		LENGTH in metres	AVERAGE Au g/t
488.80	512.50	BLEACHED SERICITIC GRAYWACKE							
	512.50	E. O. II.							

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-01

PAGE: 3 of 16

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
0.00	9.75	OVERBURDEN Sand, boulder till										
9.75	17.40	COARSE TRACHYTE BLOCK TUFF Massive to weakly foliated, moderately to strongly magnetic. Matrix is very fine to fine grained, dark green chloritic ash. 20-30% framework of monolithic, red syenite/trachyte clasts up to 10-15 cm (average 3-5 cm). Clasts are angular to well rounded and matrix supported. 17.20 Fault @ 52° tca. 17.20 - 17.35 Chlorite + sericite + ankerite shear zone, predominantly chloritic slips with moderate ankeritic stain.										
17.40	21.80	LAPILLI TUFF Well foliated @ 50° tca, sericitized heterolithic tuff. Clasts are strongly elongated and comprised of 70% red-brown heterolithic tuff and 30% chloritic, mafics. Primary magnetite bands up to 0.5 cm wide, with subhedral, < 1 mm magnetite grains. 1% spotty leucoxene throughout.										
21.80	24.60	ASH - LAPILLI TUFF Massive to moderately foliated, dark green, fine-grained ash with interbedded lapilli sections with up to 5-7% clasts. Locally strongly magnetic. 1% late cross-cutting white quartz ± albite veinlets, up to 1 cm, frequently display small scale sinistral faulting (< 1 cm). 24.45 - 24.60 Fault @ 45° tca; chlorite + sericite + quartz + calcite veinlets. Strong, sharp, tight chloritic fault with 5% barren, <0.5 cm, buff-white quartz veinlets marks volcanic/sediment contact.	16001	21.00	22.00	1.00					10-15	0.03
			16002	22.00	23.00	1.00						0.02
			16003	23.00	24.00	1.00						0.01
			16004	24.00	24.70	0.70				5	5-10	0.01

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-01

PAGE: 4 of 16

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
24.60	65.00	<p>CONGLOMERATE - NORTH HARVEY FAULT ZONE Quite variable in degrees of deformation from massive to foliated to schistose. Sericite alteration increases with amount of deformation. Zones of strongest deformation are described below. Typically dark green, chloritic polymictic conglomerate, matrix supported, with up to 15% rounded to stretched pebbles. Strong clast and fabric elongation @ 45° - 55° tca.</p> <p>27.90 - 28.80 Trachyte-tuff, fine-grained, red brown, ash-tuff, with 10-15% crushed, broken red trachyte clasts (1-2 mm) and 1% magnetite. Sharp sericitic contacts @ 50° tca. 1-2% barren, irregular quartz veinlets.</p> <p>28.80 - 30.80 Strongly deformed, sericitized conglomerate with 25% sericite and strong clast elongation at 50° tca. Zone contains 1% barren white irregular quartz veinlets.</p> <p>30.80 - 32.50 Graywacke: moderately well foliated @ 50° tca with 10% wispy sericite, and minor late white quartz (< 1%).</p> <p>45.85 - 46.10 Three pyrite stringers, up to 0.5 cm wide, with small included wall-rock fragments 1-3 mm wide. Stringers carry 10-15% very fine grained pyrite + sericite somewhat discontinuous and parallel to fabric @ 35°.</p> <p>46.45 - 46.60 Quartz vein: barren white-buff quartz + ankerite vein with wispy chlorite + sericite internally and strong chlorite + sericite along contacts @ 50° tca.</p> <p>44.30 - 48.70 Strongly deformed sericitized zone. Original rock type is</p>	16005	24.70	25.50	0.80					0.01	
			16006	25.50	26.00	0.50					NIL	
			16007	26.00	27.00	1.00					0.02	
			16008	27.00	27.70	0.70					0.01	
			16009	27.70	28.20	0.50			2	2	0.01	
			16010	28.20	28.70	0.50					0.01	
			16011	28.70	29.70	1.00			1	25-30	0.01	
			16012	29.70	30.20	0.50					0.01	
			16013	30.20	31.00	0.80					0.04	
			16014	31.00	32.00	1.00			1	10	0.01	
			16015	32.00	33.00	1.00					0.01	
			16016	33.00	34.00	1.00					0.02	
			16017	42.00	43.00	1.00					0.05	
			16018	43.00	43.50	0.50					0.01	
			16019	43.50	44.30	0.80					0.04	
			16020	44.30	45.00	0.70				0.5	30	0.01
			16021	45.00	45.70	0.70				0.5	30	0.02
			16022	45.70	46.20	0.50	100	<1	0.5-1	25-30	0.01	
			16023	46.20	46.70	0.50			3-4	15	0.01	
			16024	46.70	47.70	1.00				20-25	0.05	
			16025	47.70	48.70	1.00				20-25	0.02	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-01

PAGE: 5 of 16

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		unrecognizable (possibly tuffaceous). Zone is strongly foliated to sheared, light yellow-green with 30-40% wispy to laminated sericite and patchy hematite staining. Strong foliation fabric @ 35°-40° tca.										
	48.70 - 49.90	Rubbly core.	16026	48.70	49.40	0.70	80			5-10		0.01
	49.90 - 50.50	Lost core.	16027	49.40	49.90	0.50			3	5-10		0.02
	48.70 - 51.85	Sheared-foliated polymictic conglomerate. Dark green, chloritic (up to 10% sericite) with strong fabric and pebble elongation @ 40-45° tca.	16028	50.50	51.00	0.50	100			3-5		NIL
			16029	51.00	51.85	0.85			5-7	1-2		0.01
	51.30 - 51.85	5-7% irregular white-brown quartz ± ankerite veins in strongly contorted chloritic conglomerate.										
	51.85 - 65.00	Highly altered and deformed, but appears to be intercalated trachyte tuff and graywacke. It varies from dark to light green to brown to purple and contains pervasive hematite and 2-3 cm wide, hematite ± specularite breccia veinlets with wall rock inclusions. 1-5% barren, irregular late quartz veinlets and patchy zones of strong sericite alteration.	16030	51.85	52.50	0.65			1-5		Hem+Ser	NIL
			16031	52.50	53.00	0.50						NIL
			16032	53.00	54.00	1.00						0.01
			16033	54.00	55.00	1.00						0.01
			16034	55.00	56.00	1.00						0.01
			16035	56.00	57.00	1.00						0.01
			16036	57.00	58.00	1.00						0.01
			16037	58.00	59.00	1.00						0.01
			16038	59.00	60.00	1.00						0.14
			16039	60.00	61.00	1.00						NIL
			16040	61.00	62.00	1.00						NIL
			16041	62.00	63.00	1.00						0.01
			16042	63.00	64.00	1.00						0.02
			16043	64.00	65.00	1.00						0.02
65.00	83.80	SYENITE										
	65.00 - 66.30	Very fine grained red-brown felsite with 5% patchy, wispy sericite and 1% hematitic veinlets. The upper contact is sharp and marked by a 0.5 cm wide barren white quartz vein and strong sericite	16044	65.00	65.50	0.50			1	5		0.01
			16045	65.50	66.30	0.80			1	5		NIL

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-01

PAGE: 7 of 16

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
83.80	100.00	<p>CONGLOMERATE Upper contact, as well as from 83.80 - 85.00, is moderately deformed, chloritic. Strongly hematitic, weakly to moderately deformed, polymictic, with predominantly chlorite + hematite and patchy sericite alteration.</p> <p>83.80 - 85.00 Strongly hematitic. 94.00 - 100.00 Intercalated with up to 0.75 m narrow zones of hematite ash tuff.</p>	16067	83.80	84.60	0.80				1-2 Hem	NIL	
			16068	84.60	85.50	0.90					NIL	
100.00	234.90	<p>ASH TUFF Massive, fine-grained, dark green to black with 2-3% late white-pink quartz + calcite veinlets throughout with no preferred orientation. Pervasively hematitic with numerous sharp chloritic fractures (blocky core). Patchy magnetics and specularite. Occasional lapilli clasts are evident. Intercalated graywacke horizons < 1 m wide. Lower contact of unit is sharp and non-deformed.</p> <p>151.20 Finely laminated bedding @ 45° tca. 224.10 Fault @ 45° tca; sharp, 1 cm wide, chloritic mud slip with white-pink quartz + calcite veinlets.</p>										
234.90	239.50	<p>CONGLOMERATE Unaltered polymictic pebble conglomerate. Angular to well rounded, poorly sorted, granitoid, feldspar porphyry, mafic volcanics, and jasper clasts. Weak to moderate clast elongation at 45-50° tca. Lower contact is sharp, undeformed and somewhat irregular @ 40° tca.</p>										
239.50	283.30	<p>GRAYWACKE Massive to poorly bedded, fine-grained, with fine rock fragments the same as in the conglomerates. Typically undeformed and unaltered and carries scattered, angular, dark green siltstone and mudstone rip-up clasts and the occasional narrow mudstone bed. Minor sections with banded magnetite beds @ 30° tca. Cut by 1-2% late pink</p>	16069	245.00	246.00	1.00	100			Chl	0.01	
			16070	246.00	247.00	1.00					0.01	
			16071	247.00	248.00	1.00					NIL	
			16072	248.00	249.00	1.00					0.02	

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

HOLE: KGR-91-01

PAGE: 8 of 16

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		calcite veinlets up to 1 cm wide.	16073	249.00	250.00	1.00					0.01	
			16074	250.00	251.00	1.00					0.01	
			16075	251.00	252.00	1.00					NIL	
			16076	252.00	253.00	1.00					0.02	
			16077	253.00	254.00	1.00					0.02	
			16078	254.00	255.00	1.00					0.03	
	255.10 - 255.35	2-3 cm wide white-pink quartz + calcite breccia veinlet with 1-2% subhedral pyrite within vein + on vein boundary. Wall rock to vein is moderately bleached and silicified with finely disseminated pyrite.	16079	255.00	255.50	0.50	100	3	2		1.32	
			16080	255.50	256.00	0.50		1-2	<1		0.28	
	255.35 - 256.20	Patchy zones of 2-3% disseminated to weakly banded pyrite and very minor quartz ± calcite stringers.	16081	256.00	256.50	0.50		≤0.5			3.18	2.67
	256.40	Fault @ 55° tca; chlorite +sericite + quartz + calcite. Sharp, tight strong chloritic slip, 1.5 cm wide, with white quartz + calcite veinlet.	16082	256.50	257.00	0.50					0.02	
			16083	257.00	258.00	1.00					NIL	
			16084	258.00	259.00	1.00		0.5			0.04	
			16085	259.00	260.00	1.00					0.03	
			16086	260.00	261.00	1.00					NIL	
			16087	261.00	262.00	1.00					0.01	
			16088	262.00	263.00	1.00					0.02	
			16089	263.00	264.00	1.00	100				0.02	
			16090	264.00	265.00	1.00					0.01	
			16091	265.00	266.00	1.00					0.03	
			16092	266.00	267.00	1.00					0.03	
	267.05 - 267.20	Bleached-fractured to pseudo-brecciated graywacke with sharp sericitic slips and 2-3% quartz+ calcite veinlets and 1-2% disseminated pyrite.	16093	267.00	267.50	0.50		1-2	2-3	5	0.02	
			16094	267.50	268.00	0.50					0.02	
			16095	268.00	269.00	1.00					0.01	
			16096	269.00	270.00	1.00					0.02	
			16097	270.00	270.90	0.90					NIL	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-01

PAGE: 9 of 16

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		271.00	0.05% disseminated pyrite over a 2 cm wide area proximal to a sharp, tight (0.05 cm) chloritic slip.	16098	270.90	271.40	0.50		0.5	0.5		0.06
				16099	271.40	272.00	0.60					NIL
				16100	272.00	273.00	1.00					0.02
				16101	273.00	274.00	1.00					0.03
				16102	274.00	275.00	1.00					0.04
				16103	275.00	275.50	0.50					0.03
				16104	275.50	276.00	0.50					0.01
		276.00 - 278.20	Grades to a very fine grained dark green mudstone with narrow graywacke beds @ 35° tca. Entire section is cut by 5-7% white-pink quartz veinlets up to 1 cm wide. Some of the narrow graywacke interbeds contain 0.5% sub-euhedral pyrite. Graywacke at syenite contact is sericitized over 3-5 cm and has 1-2% pyrite associated with 1-3 mm wide quartz veinlets.	16105	276.00	277.00	1.00		<0.5	4-5		NIL
				16106	277.00	277.50	0.50			3-5		NIL
				16107	277.50	278.30	0.80		<0.5	5		NIL
				16108	278.30	279.00	0.70					NIL
				16109	279.00	280.00	1.00					NIL
				16110	280.00	281.00	1.00					0.01
				16111	281.00	282.00	1.00					0.02
				16112	282.00	282.70	0.70					0.01
				16113	282.70	283.30	0.60		<1	3	1-2	0.02
283.30	287.00	SYENITE										
		Upper contact is very sharp @ 45° tca with 1-2% pyrite in graywackes adjacent to contact. Syenite is massive, fine grained, reddish-brown with 3-5% wispy anastomosing sericite on micro-fractures throughout unit. 1% late quartz. Non-magnetic, non-mineralized. Lower contact is sharp and irregular.										
				16114	283.30	284.00	0.70			1	3-5	0.01
				16115	284.00	285.00	1.00			1	3-5	NIL
				16116	285.00	286.00	1.00			1	3-5	0.05
				16117	286.00	287.00	1.00			1	3-5	NIL
287.00	289.00	GRAYWACKE										
		Moderately to strongly deformed foliated to sheared, with minor mudstone; 1-2% irregular blebby quartz pods and strong sericite slips throughout @ 60° tca. Patchy < 1% disseminated pyrite.										
				16118	287.00	288.00	1.00		<1	1-2	5-10	0.46
				16119	288.00	289.00	1.00					0.27

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-01

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
289.00	294.20	GRAYWACKE Massive, greyish-green, fine-grained, with 2-3% late white-buff quartz veinlets < 1 cm wide.	16120	289.00	290.00	1.00						NIL
			16121	290.00	291.00	1.00						0.01
			16122	291.00	292.00	1.00						NIL
			16123	292.00	293.00	1.00						0.01
			16124	293.00	294.00	1.00						0.04
294.20	305.00	MUDSTONE / SILTSTONE Upper contact marked by a 0.5 cm sericite slip @ 55° tca. Typically very fine grained to aphanitic grey-green to yellow-green and highly sericitic and foliated. 1-3% irregular, contorted quartz veinlets (frequently pygmatically folded). Contains very minor, patchy pyritic zones with ≤ 0.5% pyrite. Lower contact with graywackes is gradational.	16125	294.00	295.00	1.00						0.12
			16126	295.00	296.00	1.00						0.03
			16127	296.00	297.00	1.00						0.07
			16128	297.00	298.00	1.00						0.01
			16129	298.00	299.00	1.00						NIL
			16130	299.00	300.00	1.00						0.05
			16131	300.00	301.00	1.00						0.04
			16132	301.00	302.00	1.00						NIL
			16133	302.00	303.00	1.00						NIL
			16134	303.00	304.00	1.00						NIL
305.00	404.00	GRAYWACKE Massive to poorly bedded, dark grey to green with weak sericitic spotting. 0.5% mudstone fragments scattered throughout and narrow intercalated mudstone beds. 326.00 - 326.70 Weakly bleached graywacke with 0.5% disseminated pyrite associated with fine, hair-like chloritic fractures. 360.70 - 361.80 Polymictic pebble conglomerate with sharp contacts @ 70° tca.	16136	324.00	325.00	1.00						NIL
			16137	325.00	326.00	1.00						0.02
			16138	326.00	326.50	0.50						0.03
			16139	326.50	327.00	0.50		≤0.5				NIL
			16140	327.00	328.00	1.00						0.06
			16141	372.50	373.00	0.50		≤0.5			NIL	

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

HOLE: KGR-91-01

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Scr	Au, g/t	Au, Check	
	373.50 - 386.00	Weak, diffuse patchy pyrite zones in massive dark graywackes. Zones are characteristically very subtle and localized over a few centimetres and consist of hair-line pyritic veinlets, 1-2 mm in width, associated with fine sericite cracks and minor disseminations. Possibly weakly silicified. Locally a weakly striped appearance over 10-15 cm. Local pyrite concentration up to 5% over a few cm's but overall \leq 1%.	16142	373.00	374.00	1.00		0.5-1				NIL	
			16143	374.00	375.00	1.00		\leq 0.5					NIL
			16144	375.00	376.00	1.00		\leq 0.5					NIL
			16145	376.00	377.00	1.00		\leq 0.5					NIL
			16146	377.00	378.00	1.00		\leq 0.5					0.01
			16147	378.00	378.00	0.00		\leq 0.5					0.01
	378.90 - 379.10		2-3 cm wide pyritic veinlet with 5-10% very fine grained subhedral pyrite.	16148	378.50	379.50	1.00		1				NIL
		16149		379.50	380.00	0.50							NIL
		16150		380.00	381.00	1.00		\leq 0.5					NIL
		16151		381.00	382.00	1.00							0.01
		16152		382.00	383.00	1.00							NIL
		16153		383.00	384.00	1.00							NIL
		16154		384.00	385.00	1.00							NIL
		16155		385.00	386.00	1.00		\leq 0.5					NIL
		16156		386.00	387.00	1.00							0.01
		16157		387.00	388.00	1.00							0.01
		16158		388.00	389.00	1.00							NIL
		16159		389.00	390.00	1.00							0.02
		16160		390.00	391.00	1.00							NIL
		16161		391.00	392.00	1.00							NIL
		16162	392.00	393.00	1.00							NIL	
		16163	393.00	394.00	1.00							NIL	
	394.20 - 394.40	White quartz + sericite vein with \leq 0.5% disseminated pyrite. Vein is virtually barren with pyrite on vein margins in sericitic graywacke.	16164	394.00	394.50	0.50		\leq 0.5	2-3	3-5		NIL	
			16165	394.50	395.00	0.50				1-2			NIL
	395.45 - 395.90	Brecciated graywacke/mudstone with angular wall rock clasts floating in a white quartz + calcite vein material. $<$ 0.5% disseminated pyrite.	16166	395.00	396.00	1.00		\leq 0.5	2			0.01	
			16167	396.00	397.00	1.00							NIL
	401.90	Fault @ 20° tca: sericite + chlorite + calcite. Sharp tight (2-3 mm) sericite slip with moderate mud gouge.	16168	397.00	398.00	1.00						NIL	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-01

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Scr	Au, g/t	Au, Check
404.00	412.00		<p>MUDSTONE Massive to poorly bedded, light to dark green to grey. Very fine grained to aphanitic. Bedding @ 70° tca. Upper contact sharp @ 45° tca. Lower contact is gradational with graywacke.</p>	16169	410.00	411.00	1.00					NIL
			16170	411.00	412.00	1.00					NIL	
412.00	429.35	<p>GRAYWACKE Fine grained, massive to poorly bedded @ 60° tca. Very clean, undeformed, unaltered, with 0.5 - 1% mudstone rip-up clasts scattered throughout. Typically with scattered pyritic veinlets, generally less than 1 cm wide.</p>	16171	412.00	413.00	1.00					NIL	
			16172	413.00	414.00	1.00		≤0.5			NIL	
			16173	414.00	415.00	1.00					0.01	
			16174	415.00	416.00	1.00					0.01	
			16175	416.00	417.00	1.00					NIL	
			16176	417.00	418.00	1.00					NIL	
			16177	418.00	419.00	1.00					0.01	
			16178	419.00	420.00	1.00					0.11	
			16179	420.00	421.00	1.00					0.02	
			16180	421.00	422.00	1.00					NIL	
			16181	422.00	423.00	1.00					0.01	
			16182	423.00	423.70	0.70		≤0.5			0.02	
		423.75 - 424.40 Weakly disseminated 0.05 - 1% pyrite grading to semi-massive, banded pyrite (10-15% pyrite) beds up to 2 cm wide. Pyrite is fine-grained, sub to euhedral; possibly primary sulphides in massive dark graywackes. No associated quartz veining or magnetite.	16183	423.70	424.50	0.80		3-5			NIL	
			16184	424.50	425.00	0.50					0.01	
			16185	425.00	426.00	1.00					NIL	
			11851	428.40	429.00	0.60		≤0.5	≤0.5		0.01	
429.35	438.30	<p>MUDSTONE Massive to well-bedded, dark green, aphanitic mudstone. Upper contact very sharp @ 65° tca. Bedding at 65°-75° tca. Lower contact sharp @ 45° tca.</p>	11852	429.00	430.00	1.00			≤0.5		0.01	
		430.00 - 431.00 Small scale, sinistral faulting of beds with up to 1 cm displacement.	11853	430.00	431.00	1.00			≤0.5		0.01	
			11854	431.00	432.00	1.00			≤0.5		0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-01

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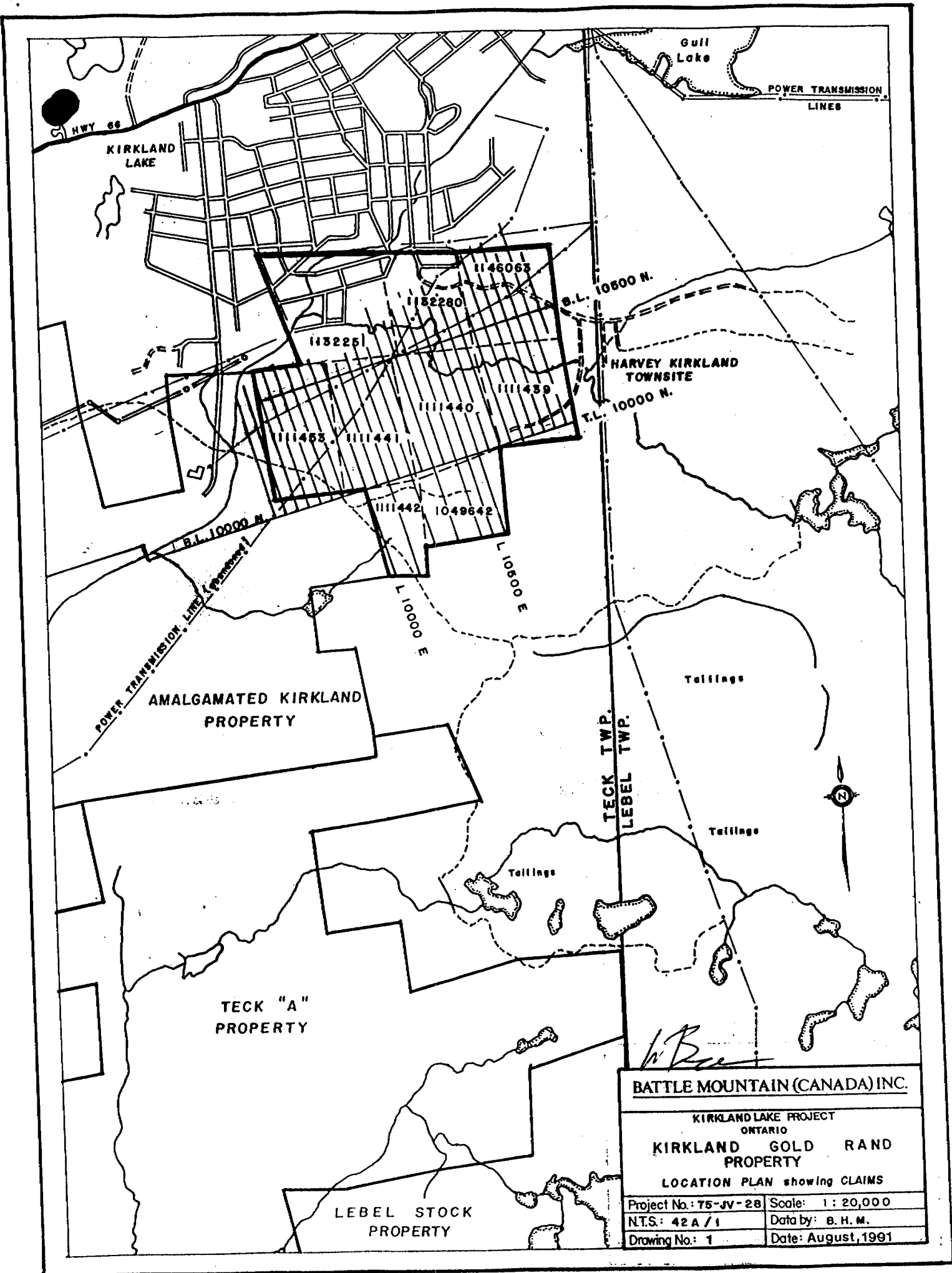
INTERVAL		DESCRIPTION	SAMPLE							ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
		433.00 - 434.30 Low angle fault @ 0°-05° tca; sharp, strong chlorite ± mud, break 2 mm - 1 cm wide, with late quartz + calcite veinlets and pods.	11855	432.00	433.00	1.00			≤0.5			0.01	
			11856	433.00	434.00	1.00			≤0.5			0.06	
		434.80 Two, 1 -2 cm, pyritic clots associated with white quartz.	16186	434.00	434.50	0.50						0.03	
		435.70 0.5 cm wide quartz ± calcite veinlet with 1% pyrite + chalcocopyrite.	16187	434.50	435.00	0.50			<0.5	<1		0.04	
			16188	435.00	436.00	1.00			≤0.5	<1	Tr. cp	0.22	
			16189	436.00	437.00	1.00			≤0.5	<1	Tr. cp	1.79	1.16
		437.90 - 438.00 Fault @ 50° tca. Sericite + quartz. Highly sericitic slip planes with moderate fault gouge and barren quartz veining.	16190	437.00	437.50	0.50			<0.5	<1	Tr. cp	0.12	
			16191	437.50	438.30	0.80			<0.5	<1	Tr. cp	0.14	
438.30	448.30	GRAYWACKE											
		438.90 - 439.00 Fault @ 45° tca, sericite ± quartz. Strongly foliated to sheared, sericitic fault with 2% quartz and 0.5% pyrite.	16192	438.30	439.00	0.70			1-2	1		0.06	
			16193	439.00	440.00	1.00			1-2	2-3		0.02	
		438.30 - 441.00 Deformed, foliated sericitized graywacke with 1-2% pyrite, 1-3% wispy sericite, 1-2% quartz and quartz breccia veinlets.	16194	440.00	441.00	1.00			1-2	<1		0.16	
			16195	441.00	442.00	1.00				3	5-10	0.01	
		438.30 - 446.35 Fault zone characterized by moderately to strongly deformed (schistose), sericitized graywackes with 5 - 10% late quartz ± calcite veinlets, strong sericitic slips and minor pyrite. Fault @ 45° tca.	16196	442.00	443.00	1.00				1-2	5-10	0.01	
			16197	443.00	444.00	1.00			0.5-1	1	5-10	0.36	
			16198	444.00	445.00	1.00			≤0.5	5	30-50	0.01	
			16199	445.00	445.80	0.80				5-10	30-50	0.01	
			16200	445.80	446.35	0.55				3-4	30-50	0.01	
		446.35 - 448.30 Strongly deformed, sheared, sericitized graywacke with 5% barren, white quartz veinlets. Sharp, sheared contacts @ 47° tca.	16201	446.35	447.00	0.65					5	0.01	
			16202	447.00	447.85	0.85					5	NIL	
			16203	447.85	448.30	0.45				5	30-50	0.02	
448.30	462.30	CONGLOMERATE											
		Massive, undeformed to weakly foliated polymictic pebble conglomerate. Clast supported with 35-40% angular to sub-rounded pebbles.	16204	448.30	449.00	0.70						NIL	
			16205	449.00	450.00	1.00						0.02	
			16206	450.00	451.00	1.00						NIL	
			16207	451.00	452.00	1.00						NIL	
			16208	452.00	453.00	1.00						NIL	
			16209	453.00	454.00	1.00						NIL	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-01

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Scr	Au, g/t	Au, Check	
462.30	474.50	GRAYWACKE Massive to moderately well bedded, dark grey-green, graywacke. Bedding @ 50° tca and displays cross-bedding in clasts and minor mudstone interbeds.	16210	454.00	455.00	1.00						0.01	
			16211	455.00	456.00	1.00						NIL	
			16212	456.00	457.00	1.00						NIL	
			16213	457.00	458.00	1.00						NIL	
			16214	458.00	459.00	1.00						NIL	
			16215	459.00	460.00	1.00						NIL	
474.50	488.80	MUDSTONE/GRAYWACKE Unit is predominately light to dark green, aphanitic mudstone with narrow, intercalated graywacke horizons. Mudstones are typically sericitic and frequently schistose while graywacke remains relatively undeformed. 483.00 - 485.30 Unit is bleached grey-white with strong sericite alteration and 2-3% barren white quartz veinlets. Lower contact is gradational into predominantly graywackes.	16216	474.00	475.00	1.00						NIL	
			16217	475.00	476.00	1.00						NIL	
			16218	476.00	477.00	1.00						NIL	
			16219	477.00	478.00	1.00						NIL	
			16220	478.00	479.00	1.00						0.02	
			16221	478.00	480.00	2.00						0.07	
			16222	480.00	481.00	1.00						0.09	
			16223	481.00	482.00	1.00						NIL	
			16224	482.00	483.00	1.00						NIL	
			16225	483.00	484.00	1.00					2-3	25	NIL
			16226	484.00	484.50	0.50					2-3	25	NIL
			16227	484.50	485.30	0.80					2-3	25	NIL
			16228	485.30	486.00	0.70							NIL
			16229	486.00	487.00	1.00							NIL
			16230	487.00	488.00	1.00							0.02
16231	488.00	488.80	0.80							NIL			



W. B. ...

BATTLE MOUNTAIN (CANADA) INC.

KIRKLANDLAKE PROJECT
ONTARIO
KIRKLAND GOLD RAND PROPERTY
LOCATION PLAN showing CLAIMS

Project No: 75-JV-28	Scale: 1 : 20,000
N.T.S.: 42 A / 1	Data by: B. H. M.
Drawing No: 1	Date: August, 1991

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-02

PAGE: 1 of 6

PROPERTY	Kirkland Gold Rand	DATE LOGGED	June 19-23 1991	EASTING	10298
TOWNSHIP	Teck	LOGGED BY	<i>Mark Masson</i>	NORTHING	10395
CLAIM No.	L 1111440	SIGNED BY	<i>[Signature]</i>	ELEVATION	
STARTED	June 19, 1991	DRILLED BY	Heath & Sherwood	LENGTH	124.1
COMPLETED	June 22, 1991	SURVEYED BY		UNITS	metres
PURPOSE	To test VLF-EM and low magnetic anomalies.	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	Low magnetics due to sediments, VLF-EM due to faulting at 58.0 and 92.0 (?)				

DEPTH	AZIMUTH	DIP
Collar	341	70
47.50		70
124.00		66

SUMMARY LOG

ASSAY SUMMARY

INTERVAL		DESCRIPTION	INTERVAL		DESCRIPTION	INTERVAL		LENGTH in metres	AVERAGE Au g/t
From	To		From	To		From	To		
0.00	3.80	OVERBURDEN							
3.80	10.60	CONGLOMERATE Sheared, chlorite ± sericite ± quartz							
10.60	32.00	ASH TUFF							
32.00	46.50	GRAYWACKE/MUDSTONE							
46.50	63.60	CONGLOMERATE							
63.60	67.20	SYENITE Hematitic							
67.20	81.10	GRAYWACKE							
81.10	87.50	BLOCK TUFF							
87.50	109.50	ASH TUFF							
109.50	124.10	CONGLOMERATE							
	124.10	E. O. H.							
							61.00 62.00	1.00	0.19

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-02

PAGE: 2 of 6

INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
0.00	3.80	OVERBURDEN Casing pulled.										
3.80	10.60	CONGLOMERATE Strongly foliated to sheared, polymictic pebble conglomerate. Clast elongation and schistosity @ 50° tca. Shear is comprised of numerous sharp chloritic slips and minor, barren quartz veinlets with interstitial elongated pebbles and patchy sericitic zones. Lower contact is sharp.	16249	3.80	4.50	0.70			<1		0.06	
			16250	4.50	5.00	0.50					0.01	
			16251	5.00	6.00	1.00					0.02	
			16252	6.00	7.00	1.00					0.02	
			16253	7.00	8.00	1.00					0.02	
			16254	8.00	9.00	1.00					0.02	
			16255	9.00	10.00	1.00					0.01	
			16256	10.00	10.60	0.60					0.01	
10.60	32.00	ASH TUFF Massive, dark greenish-brown, very fine-grained ash tuff. Weakly hematitic and moderately to strongly magnetic. In part well bedded @ 45° tca.										
		13.65 - 13.70 White pink quartz + calcite vein @ 60° tca with 1 bleb of chalcopyrite.	16257	10.60	11.60	1.00					0.01	
			16258	13.50	14.00	0.50			1	Tr. cp	0.01	
			16259	20.00	21.00	1.00					0.01	
			16260	21.00	21.80	0.80					0.01	
		21.80 - 23.95 Distinctive laminated or banded appearance with alternating zones from a few to 25 centimetres wide of hematite and sericite alteration and parallel quartz ± albite stringers.	16261	21.80	22.40	0.60				5	0.01	
			16262	22.40	23.00	0.60			1	5	0.01	
		23.95 - 25.00 Sheared-foliated graywacke @ 55° tca. Strongly foliated to sheared chloritic graywacke with 3% barren white quartz veinlets.	16263	23.00	24.00	1.00			1-2	5	0.01	
			16264	24.00	25.00	1.00					0.01	
			16265	25.00	26.00	1.00					0.01	
		26.20 Fine-grained, massive to laminated sericite ± hematite altered ash-tuff. Colour from red-purple to yellow-green. Typically non-magnetic.	16266	26.00	27.00	1.00					0.01	
			16267	27.00	28.00	1.00					0.01	
			16268	28.00	29.00	1.00					0.01	
			16269	29.00	30.00	1.00					0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-02

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
32.00	46.50	GRAYWACKE/MUDSTONE/CONGLOMERATE	16270	30.00	31.00	1.00						0.03
			16271	31.00	32.00	1.00						0.01
			16272	32.00	32.50	0.50		0.5	<1	30-40		0.01
			16273	32.50	33.30	0.80		0.5		30-40		0.02
			16274	33.30	33.80	0.50		≤0.5	3	25-30		0.01
			16275	33.80	34.30	0.50						0.01
			16276	34.30	34.80	0.50		<0.5	1	25		0.01
			16277	34.80	35.45	0.65		<0.5	1	25		0.01
			16278	35.45	35.90	0.45		0.5	3-5	10-15		0.03
			16279	35.90	36.80	0.90						0.01
			16280	36.80	37.80	1.00						0.01
			16281	37.80	38.30	0.50		<0.5	0.5			NIL
			16282	38.30	39.00	0.70		<0.5	1	50		NIL
			16283	39.00	39.80	0.80						0.01
			16284	39.80	40.30	0.50						0.01
			16285	40.30	41.00	0.70		0.5				NIL
			16286	41.00	42.00	1.00		0.5				NIL

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-02

PAGE: 4 of 6

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
			are polymictic red jasper, syenite and coarse granitoid, but conspicuously sparse. 0.5% fine-grained pyritic veinlets up to 1-2 mm wide parallel to foliation.	18287	42.00	42.90	0.90			0.5		
	42.90 - 44.60	Dark to yellow-green aphanitic, laminated mudstone with 1-2% late barren quartz ± albite veinlets.	16288	42.90	43.60	0.70						0.01
	44.60 - 45.50	Quartz stockwork. At least 3 generations of irregular quartz masses cross-cutting veinlets and quartz breccia veins intruding altered sericitized graywacke. Veins are generally barren except for a few coarse sub-euhedral pyrite cubes. 0.5% pyrite in altered wall rock.	16289	43.60	44.60	1.00						0.01
			16290	44.60	45.50	0.90	100	≤0.5	25-30			NIL
			16291	45.50	46.50	1.00						NIL
46.50	63.60	CONGLOMERATE Massive to well foliated, poorly sorted polymictic conglomerate. Quite fresh, weakly, chloritic with elongated mafic clasts and rounded quartz and quartz porphyry clasts. Foliated @ 45°-50° tca.										
	58.00	Fault @ 50° tca. Rubbly core of sheared pebbles and chlorite slips. Dry and barren.										
	59.50	Notable increase in red syenitic clasts.										
			16292	61.00	62.00	1.00						0.19
			16293	62.00	63.00	1.00						0.04
			16294	63.00	63.60	0.60						0.02
63.60	67.20	SYENITE Massive to porphyritic, hematitic, with 5-7% barren clear-white quartz veinlets, two to three generations. Upper contact is sharp and irregular with sericite alteration at contact in the conglomerate. Lower contact also sharp, irregular and marked by 5 cm barren quartz vein.	16295	63.60	64.20	0.60			5-7			0.02
			16296	64.20	65.20	1.00						0.01
			16297	65.20	66.20	1.00						0.03
			16298	66.20	67.20	1.00			5-7			0.03

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-02

PAGE: 5 of 6

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Scr	Au, g/t	Au, Check
67.20	81.10		<p>GRAYWACKE Massive to weakly foliated, light green, with 1-2% angular, sericitized mudstone clasts. Weakly bedded @ 50° tca.</p> <p>75.00 - 76.00 Polymictic pebble conglomerate.</p> <p>79.00 - 81.10 0.5-1% pyrite as veinlets on tight sericitic slips and minor disseminations.</p>	16299	67.20	68.00	0.80					0.04
			16300	68.00	69.00	1.00					NIL	
			16301	75.00	76.00	1.00					0.01	
			16302	76.00	77.00	1.00					0.02	
			16303	77.00	78.00	1.00					0.01	
			16304	78.00	79.00	1.00					0.01	
			16305	79.00	80.00	1.00		0.5	2-3	10-15	0.01	
			16306	80.00	80.50	0.50		0.5-1			0.07	
			16307	80.50	81.10	0.60		0.5-1			0.02	
81.10	87.50	<p>BLOCK TUFF Massive to weakly foliated, coarse, irregular, angular to rounded, redsyenite/trachyte clasts up to 10 cm (monolithic) in a fine-grained, dark green-black ash matrix. Strongly magnetic. Lower contact is gradational over one to two metres with ash tuff.</p>	16308	81.10	82.00	0.90					0.01	
			16309	82.00	83.00	1.00					0.02	
87.50	109.50	<p>ASH TUFF Massive to very well bedded (laminated) @ 55°-60° tca. Dark green-black, buff-brown, reddish or purple. Typically very fine grained trachyte ash with the occasional lapilli clast scattered throughout. Moderately to strongly magnetic.</p> <p>91.60 - 92.00 Fault @ 05° tca. Tight strong break 3 mm wide with chlorite + quartz + calcite + mud gouge.</p> <p>106.00 - 109.50 Lapilli/block tuff with red syenitic clasts in dark green chloritic ash.</p>										
109.50	124.10	<p>CONGLOMERATE Well foliated with strong pebble stretching @ 55° tca; displays patchy zones of sericite and hematite alteration of clasts and almost pervasive sericitization of</p>	16310	109.50	110.00	0.50					NIL	
			16311	110.00	111.00	1.00					0.02	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-03

PAGE: 1 of 11

PROPERTY	Kirkland Gold Rand	DATE LOGGED	June 23-26 1991	EASTING	10200
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10460
CLAIM No.	L 1111441, L 1132251	SIGNED BY	<i>[Signature]</i>	ELEVATION	
STARTED	June 22, 1991	DRILLED BY	Heath & Sherwood	LENGTH	298.0
COMPLETED	June 26, 1991	SURVEYED BY		UNITS	metres
PURPOSE	To test low magnetic anomaly east of the car dump syenite.	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	Quartz-pyrite zone at northern contact of syenite.				

DEPTH	AZIMUTH	DIP
Collar	342	45
46.00		44
91.00		44
139.00		42
183.00		39
229.00		38
274.00		37

SUMMARY LOG

ASSAY SUMMARY

INTERVAL From To		DESCRIPTION	INTERVAL From To		DESCRIPTION	INTERVAL From To		LENGTH in metres	AVERAGE Au g/t
0.00	9.30	OVERBURDEN	139.00	150.00	GRAYWACKE				
9.30	21.00	BLOCK/LAPILLI TUFF	150.00	182.00	ASH TUFF				
21.00	36.00	CONGLOMERATE	182.00	195.80	CONGLOMERATE	62.00	62.50	0.50	0.14
36.00	43.00	ASH/LAPILLI TUFF	195.80	212.90	GRAYWACKE	65.00	65.50	0.50	0.14
43.00	46.20	CONGLOMERATE	212.90	214.25	SYENITE				
46.20	55.00	ASH TUFF	214.25	215.60	GRAYWACKE	242.90	245.50	2.60	2.66
55.00	59.20	CONGLOMERATE	215.60	217.80	SYENITE				
59.20	60.60	LAPILLI TUFF	217.80	218.00	MUDSTONE				
60.60	72.60	FAULT ZONE - NORTH HARVEY FAULT?	218.00	234.80	SYENITE	243.60	243.90	0.30	22.04
72.60	87.20	ASH TUFF	234.80	242.30	MUDSTONE	257.00	258.00	1.00	0.11
87.20	95.70	DEFORMED CONGLOMERATE	242.30	243.65	SYENITE				
95.70	97.40	SYENITE	243.65	298.00	GRAYWACKE/MUDSTONE				
97.40	100.00	LAPILLI TUFF			243.65 - 243.85 Quartz + pyrite zone				
100.00	101.35	MUDSTONE							
101.35	101.65	SYENITE							
101.65	103.00	ASH TUFF	298.00		E. O. H.				
103.00	103.55	SILTSTONE							
103.55	123.70	ASH TUFF							
123.70	139.00	CONGLOMERATE							

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-03

PAGE: 3 of 11

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Scr	Au, g/t	Au, Check
46.20	55.00	ASH/LAPILLI TUFF Light green to buff-brown, massive, ash/lapilli tuff. Moderately magnetic, weakly- to well-bedded @ 65° tca. Locally bleached to tight buff.										
55.00	59.20	CONGLOMERATE Foliated to weakly banded polymictic conglomerate.										
	57.00 - 59.20	Appears to be a somewhat gradational mixing with trachyte ash tuff. Dirty green-brown, heterolithic clasts, weakly magnetic.	16321	56.00	57.00	1.00					NIL	
	57.40 - 58.20	Hematitic zone. Reddish brown to mauve with 5% white quartz or plagioclase spots up to 0.5 cm and 1% late quartz + carbonate veinlets. Contacts are gradational over a few centimetres. Looks similar to the syenite. Possible hematite alteration front?	16322	57.00	57.40	0.40					NIL	
			16323	57.40	58.30	0.90			1		0.01	
			16324	58.30	59.20	0.90					0.04	
59.20	60.60	LAPILLI/BLOCK TUFF Massive coarse monolithic block tuff with 5% sub-rounded, red syenite/trachyte clasts floating in a very fine grained ash matrix. Strongly magnetic. Upper contact sharp, marked by tight sericite slip @ 60° tca. Lower contact gradational with deformed, laminated tuffs.										
			16325	59.20	60.00	0.80					NIL	
			16326	60.00	60.60	0.60					0.01	
60.60	72.60	SHEAR ZONE Sheared @ 65° tca. Strongly foliated to laminated to sheared with a pseudo-mylonitic banded appearance. Appears to be intercalated ash-tuff, lapilli-tuff and conglomerate with strongly elongated and flattened heterolithic clasts within a highly chloritic and weakly sericitic ground mass. Entire zone displays patchy strong magnetics and contains 1% late, barren quartz veinlets and very minor pyrite. Possible North Harvey fault zone.										
			16327	60.60	61.40	0.80					0.01	
			16328	61.40	62.00	0.60					NIL	
			16329	62.00	62.50	0.50					0.14	
			16330	62.50	63.50	1.00					NIL	
			16331	63.50	64.00	0.50					NIL	
			16332	64.00	65.00	1.00					0.01	
			16233	65.00	65.50	0.50					0.14	
			16234	65.50	66.00	0.50					0.01	
			16335	66.00	67.00	1.00					0.02	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-03

PAGE: 4 of 11

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
				16336	67.00	67.50	0.50					0.02
			16337	67.50	68.20	0.70					0.01	
			16338	68.20	69.00	0.80					NIL	
			16339	69.00	69.70	0.70					NIL	
			16340	69.70	70.50	0.80					NIL	
			16341	70.50	71.00	0.50					0.06	
			16342	71.00	71.80	0.80					NIL	
		71.70 - 72.60 Fractured/brecciated tuff with strong chlorite + sericite slips and breccia veinlets fracturing red trachytic clasts up to 3 cm.	16343	71.80	72.60	0.80					NIL	
72.60	87.20	ASH TUFF Massive to well bedded @ 55° tca. Dark green to brown to mauve. Minor intercalated lapilli horizons up to 0.5 m wide. Strongly magnetic. 1% late barren quartz veinlets.	16344	72.60	73.50	0.90					NIL	
			16345	73.50	74.00	0.50					NIL	
			16346	74.00	75.00	1.00					NIL	
			16347	86.00	87.00	1.00					0.01	
87.20	95.70	CONGLOMERATE Very distinctive purple-brown, moderately deformed, hematized, polymictic conglomerate. Clasts, 5-7%, are angular to sub-rounded with strong stretching at 40° tca and include mafic volcanics, feldspar porphyry, and jasper. Matrix is light red, fine-grained trachyte ash, with little to no quartz apparent. Non-magnetic. 5% sericite alteration as wisps, spots and destruction of mafic clasts.	16348	87.00	87.50	0.50					0.01	
			16349	87.50	88.50	1.00					0.01	
			16350	88.50	89.00	0.50					NIL	
			16351	89.00	90.00	1.00					NIL	
			16352	90.00	91.00	1.00					NIL	
			16353	91.00	92.00	1.00					NIL	
			16354	92.00	93.00	1.00					NIL	
			16355	93.00	94.00	1.00					0.01	
			16356	94.00	95.00	1.00					NIL	
			16357	95.00	95.70	0.70					NIL	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-03

PAGE: 5 of 11

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
95.70	97.40	SYENITE Massive, fine-grained to weakly porphyritic with 1% rounded to subhedral phenocrysts or "eyes". Red-brown, with 1% spotty sericite alteration and 2% irregular quartz veinlets and minor angular mafic clots. Non-magnetic. Upper contact sharp @ 45° tca and marked by a laminated quartz + chlorite vein 1 cm wide. Lower contact is sericitic, sharp and irregular @ 40° tca.	16358	95.70	96.40	0.70							
			16359	96.40	97.40	1.00			2	1		NIL	NIL
97.40	100.00	LAPILLI TUFF Reddish brown (very similar to previous syenite), very fine grained ash matrix, with 1-2% angular, sericitized clasts. Matrix appears to be ± 25% small red (1-2 mm), sub-rounded aphanitic trachyte clasts. Non-magnetic and very hard to distinguish from syenite.	16360	97.40	98.00	0.60							
			16361	98.00	99.00	1.00						NIL	0.03
			16362	99.00	100.00	1.00						0.01	
100.00	101.35	MUDSTONE Dirty green-brown, well laminated, aphanitic. Bedding is very irregular, contorted, 0.5-1 mm laminae with small scale micro-faulting. 1% barren, white quartz veinlets up to 1 cm.	16363	100.00	100.50	0.50				1			
			16364	100.50	101.40	0.90				1		NIL	NIL
101.35	101.65	SYENITE Narrow fine grained syenite dyke with 2-3% wispy sericite and sharp irregular contacts.	16365	101.40	101.65	0.25						NIL	
101.65	103.00	ASH TUFF Massive, fine-grained, purple-grey. 1-2% hematized magnetite grains evident. Non-magnetic. 101.65 - 102.10 Irregular 1 cm quartz + sericite vein, sub-parallel tca.	16366	101.65	102.50	0.85					2		
			16367	102.50	103.00	0.50						NIL	NIL

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-03

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		intercalated with minor graywacke/conglomerate horizons < 1 m wide and contains some angular, aphanitic mudstone clasts. Bedding quite limited and marked by magnetite beds and thin mudstone beds @ 35° tca. Very blocky and rubbly core, although not sheared, simply fractured.										
		162.50 - 182.00 Intercalated non-magnetic ash tuffs and graywacke frequently displaying angular, hematized mudstone clasts. Quite difficult to distinguish due to rubbly nature of core.										
182.00	195.80	CONGLOMERATE Massive to foliated polymictic conglomerate with strong, closely spaced, chloritic slips to give sheared appearance in places @ 50°-60° tca. Pebble rich with up to 5-60% polymictic pebbles. Lower contact sharp @ 65° tca.										
		182.00 - 189.00 Very rubbly.										
195.80	212.90	GRAYWACKE Massive to weakly bedded @ 40°-50° tca. Very fine grained with 0.5% angular mudstone clasts up to 2 cm and minor intercalated mudstone horizons up to 0.5 m.	16370	205.00	206.00	1.00					0.02	
			16371	206.00	207.00	1.00					NIL	
			16372	207.00	208.00	1.00					NIL	
			16373	208.00	209.00	1.00					NIL	
		209.00 - 212.90 Patchy hematite alteration proximal to pink-white quartz ± calcite veining.	16374	209.00	210.00	1.00					NIL	
			16375	210.00	211.00	1.00					NIL	
			16376	211.00	212.00	1.00					NIL	
		212.30 - 212.90 Deformed, sericitized with 5-7% barren white quartz veinlets.	16377	212.00	212.90	0.90					NIL	
212.90	214.25	SYENITE PORPHYRY Massive fine-grained to porphyritic red syenite with 2% wispy, irregular sericite seams. Upper contact is marked by sharp sericitic slips @ 28° tca. Lower contact is sharp, irregular intrusive type. Very minor pyrite noted on a few sericitic slips.	16378	212.90	213.60	0.70				2	NIL	
			16379	213.60	214.25	0.65				2	NIL	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-03

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
214.25	215.60	GRAYWACKE Weakly foliated, grey-green to mauve, hematitic greywacke with 0.5% angular mudstone clasts. Foliated @ 55° tca. Minor scattered pyrite ± 0.5%.	16380	214.25	215.00	0.75						NIL
			16381	215.00	215.60	0.60						NIL
215.60	217.80	SYENITE Red-brown, fine-grained to weakly porphyritic. Numerous small hair line fractures with sericite and 0.5% late, barren quartz veinlets. Upper contact sharp and irregular. Lower contact is sharp. Sericite slips @ 37° tca. ≤ 0.5% sericite altered angular clots (small xenoliths).	16382	215.60	216.50	0.90				1-2		NIL
			16383	216.50	217.00	0.50						NIL
			16384	217.00	217.80	0.80						NIL
217.80	234.80	SYENITE Red-brown, massive, fine-grained with 0.5-1% wispy sericite on micro-fractures and 1% late quartz veinlets. Minor, ≤0.5% scattered pyrite on sericitic micro-fractures throughout. 218.70 - 219.10 Dark to light green sericitized mudstone. Lower contact of syenite is sharp, irregular intrusive type. 219.10 Strong fault, sericite + chlorite + gouge at contact @ 35° tca. 224.25 2 cm quartz + sericite + pyrite veinlet @ 80° tca. 3-5% very fine pyrite in sericitized wall rock adjacent to vein. 225.10 - 225.50 Moderately sericitized graywacke inclusion with sharp intrusive contacts. 1% angular mudstone fragments.	16385	217.80	218.00	0.20						NIL
			16386	218.00	218.70	0.70						NIL
			16387	218.70	219.10	0.40						NIL
			16388	219.10	220.00	0.90						NIL
			16389	220.00	221.00	1.00						NIL
			16390	221.00	222.00	1.00						NIL
			16391	222.00	223.00	1.00						NIL
			16392	223.00	224.00	1.00						NIL
			16393	224.00	224.35	0.35		0.5	0.5	1-3		0.06
			16394	224.35	225.10	0.75		≤0.5		1-3		0.01
			16395	225.10	225.50	0.40		0.5		1-3		0.03
			16396	225.50	226.00	0.50				1-3		NIL
			16397	226.00	227.00	1.00				1-3		NIL
			16398	227.00	228.00	1.00				1-3		NIL
16399	228.00	229.00	1.00				1-3		NIL			
16400	229.00	230.00	1.00				1-3		NIL			

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-03

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
234.80	242.30	230.45 - 231.15 Hematized, sericitized graywacke inclusion with 2-3% late barren quartz veinlets.	16401	230.00	230.45	0.45					0.01		
			16402	230.45	231.15	0.70					NIL		
			16403	231.15	232.00	0.85					NIL		
			16404	232.00	233.00	1.00					NIL		
			16405	233.00	234.00	1.00					2-3	NIL	
			16406	234.00	234.80	0.80						NIL	0.02
234.80	242.30	MUDSTONE Aphanitic, yellow-green to dark green. Massive to well laminated with fine 1-3 mm banding which is frequently contorted and displaced by small scale faulting of a few centimetres. Typically quite soft and sericitic. Minor intercalated graywacke horizons.	16407	234.80	235.40	0.60					0.01		
			16408	235.40	236.00	0.60					0.01		
			16409	236.00	237.00	1.00					NIL		
			16410	237.00	238.00	1.00					NIL		
			16411	238.00	239.00	1.00					NIL		
			16412	239.00	240.00	1.00					0.02		
			16413	240.00	241.00	1.00					NIL		
			16414	241.00	241.50	0.50					NIL		
			16415	241.50	242.30	0.80					NIL		
242.30	243.65	SYENITE Massive, fine-grained, red-brown, with 1-3% sericitic micro-fractures and 2% barren white quartz veinlets. Upper contact is sharp sericitic slip @ 80° tca. Lower contact is very sharp, tight @ 70° tca. Bottom 25 cm has 3-5% sericite fractures parallel to contact which carry very minor pyrite + chalcopyrite.	16416	242.30	242.90	0.60					NIL		
			16417	242.90	243.60	0.70					0.17		
243.65	298.00	GRAYWACKE/MUDSTONE 243.65 - 243.85 Quartz + pyrite zone. Light green sericitized and weakly silicified graywacke with a 4 cm wide blue-grey to white quartz vein with 3-5% pyrite and trace chalcopyrite. Pyrite as fine dissemination in graywacke, somewhat coarser in quartz vein as well as minor chalcopyrite.	16418	243.60	243.90	0.30	100	3-5	5	10	21.07	23.01	

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

HOLE: KGR-91-03

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS					
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check		
	243.85 - 244.70	Hematized sericitized graywacke. Purple to light brown with disrupted hematized beds? sub-parallel tca.	16419	243.90	244.70	0.80					0.03			
			16420	244.70	245.50	0.80					0.19			
	244.70 - 264.55	Massive, dark green graywacke with intercalated mudstone horizons up to 1-2 meters wide. Weak bedding @ 30° tca which displays small scale folding in places.	16421	245.50	246.00	0.50					0.02			
			16422	246.00	247.00	1.00					0.01			
			16423	247.00	248.00	1.00					NIL			
			16424	248.00	249.00	1.00					NIL			
			16425	249.00	250.00	1.00					NIL			
			16426	250.00	251.00	1.00					NIL			
			16427	251.00	252.00	1.00					NIL			
			16428	252.00	253.00	1.00					NIL			
			16429	253.00	254.00	1.00					0.01			
			16430	254.00	255.00	1.00					NIL			
			16431	255.00	256.00	1.00					0.01			
			256.00 - 256.25	Narrow syenite dyke with sharp sericitic contacts.	16432	256.00	256.30	0.30					NIL	
					16433	256.30	257.00	0.70					0.01	
					16434	257.00	258.00	1.00					0.11	
					16435	258.00	259.00	1.00					0.01	
					16436	259.00	260.00	1.00					0.02	
					16437	260.00	261.00	1.00					NIL	
					16438	261.00	262.00	1.00					NIL	
16439	262.00	263.00			1.00					0.03				
264.55 - 270.50	Deformed sericitic graywacke and mudstone. Strongly foliated to sheared. Sericitized graywacke with numerous sericitic slips and tight faults @ 60° tca. Patchy areas are flooded with up to 5-10% barren, white quartz veins and pods.	16440	263.00	264.00	1.00					0.01				
		16441	264.00	264.55	0.55					0.02				
		16442	264.55	265.00	0.45					0.06				
		16443	265.00	266.00	1.00				5	10-15	0.01			
		16444	266.00	267.00	1.00					0.01				
		16445	267.00	268.00	1.00					0.03				
		16446	268.00	269.00	1.00					0.02				
		16447	269.00	270.00	1.00					0.02				
		16448	270.00	270.50	0.50					0.01				

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-04

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PROPERTY	Kirkland Gold Rand	DATE LOGGED	June 27 - July 1 1991	EASTING	9950
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10400
CLAIM No.	L 1111443, L 1132251	SIGNED BY	<i>[Signature]</i>	ELEVATION	
STARTED	June 26, 1991	DRILLED BY	Heath & Sherwood	LENGTH	313.3
COMPLETED	June 30, 1991	SURVEYED BY		UNITS	metres
PURPOSE	To test Car Dump Syenite.	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ

DEPTH	AZIMUTH	DIP
Collar	341	45
46.00		45
91.40		44
137.00		43
185.00		42
229.00		40
276.00		39

COMMENTS

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 8.80	OVERBURDEN					
8.80 11.00	BLOCK TUFF	100.50 132.80	BLOCK/LAPILLI TUFF			
11.00 21.60	ASH TUFF	132.80 159.60	ASH TUFF	238.00 239.00	1.00	0.11
21.60 48.50	BLOCK TUFF		142.40 - 142.50 8-10% quartz, 4-5% pyrite.			
48.50 61.00	CONGLOMERATE	159.60 181.20	148.20 - 149.60 0.5% pyrite, 1-2% quartz.			
61.00 64.50	GRAYWACKE/CONGLOMERATE	181.20 185.00	SYENITE	267.00 269.00	2.00	1.27
	Sericitic foliation @ 70° tca.		CONGLOMERATE		incl.	
64.50 66.50	SYENITE/HEMATITIC ASH TUFF?	185.00 234.50	Sericitic	267.00 268.00	1.00	2.29
66.50 70.55	CONGLOMERATE/GRAYWACKE		SYENITE			
70.55 74.00	CONGLOMERATE/BLOCK TUFF	234.50 298.30	Bleached, sericitic			
74.00 75.20	ASH TUFF		SYENITE			
75.20 78.80	SYENITE/HEMATITIC ASH TUFF?		267.05 - 268.70 0.5% pyrite			
78.80 85.00	CONGLOMERATE		268.70 - 268.80 Fault @ 65° tca.			
85.00 89.00	SYENITE/HEMATITIC ASH TUFF?		278.90 Fault @ 55° tca.			
89.00 91.40	CONGLOMERATE	298.30 313.30	278.00 - 282.00 0.5% pyrite			
91.40 93.70	GRAYWACKE		GRAYWACKE/MUDSTONE			
	Sheared @ 80° tca. sericitic					
93.70 100.50	ASH TUFF	313.30	E. O. H.			
	Sericitic					

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-04

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
0.00	8.80	OVERBURDEN										
8.80	11.00	BLOCK TUFF - MONOLITHIC Massive, dark green fine grained ash ground mass with 5-10% angular to subrounded red trachyte/syenite clasts up to 10cm. Strongly magnetic.										
11.00	21.60	ASH TUFF Fine grained, massive, dark green to brown. hematitic ash tuff. Minor Lapilli clasts scattered throughout. Moderately to strongly magnetic. Lower contact is quite sharp @ 65° tca.										
21.60	48.50	BLOCK/LAPILLI TUFF Typically massive, monolithic, hematitic block tuff with 3-10% angular to subrounded red trachyte clasts, up to 10cm, in a fine grained ash ground mass. Some local sections contain angular polymictic clasts such as mafic volcanics and are up to 0.5m wide with gradational contacts. These conglomerate horizons are weakly magnetic while tuffs are strongly magnetic. 1-2% late, white quartz ± calcite veinlets. Also is part intercalated with narrow horizons of dark red ash and lapilli tuffs.										
48.50	61.00	CONGLOMERATE Contact with previous block tuff is gradational over 2-3m and noted by gradual increase in exotic clasts such as jasper, quartz, porphyry, mafic volcanics and sediments. Primary clast type is fine grained, red syenite/trachyte which constitutes 50% of clast type. Unit is polymictic pebble conglomerate with patchy magnetics.	16468	52.50	53.00	0.50						0.01
			16469	53.00	54.00	1.00						0.01
			16470	54.00	55.00	1.00						0.01
			16471	55.00	56.00	1.00						0.01
		55.00 - 56.00 Deformed, fractured conglomerate. Fault zone @ 60° tca.	16472	56.00	57.00	1.00			5			0.01
		Moderately sericitized foliated matrix with crushed and fractured clasts.	16473	57.00	58.00	1.00						NIL
			16474	58.00	59.00	1.00						0.02
			16475	59.00	60.00	1.00						0.01
			16476	60.00	61.00	1.00						0.01

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-04

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
75.20	78.80	SYENITE? - ASH TUFF Massive, brick-red unit with 10% late, barren white quartz veins up to 2cm wide. Unit consists of 10% fine, aphanitic red trachyte? clasts (1-3mm) in a very fine grained to aphanitic matrix. A few clasts up to 3cm are evident in places. Moderately magnetic, very hard and brittle.	16495	75.20	76.00	0.80				10	0.01	
			16496	76.00	77.00	1.00				10	0.01	
			16497	77.00	78.00	1.00				10	0.01	
			16498	78.00	78.80	0.80				10	0.01	
	78.10	Fault @ 80° tca. Sericite chlorite. 2cm wide sericitic shear.										
78.80	85.00	CONGLOMERATE Fine grained light green polymictic conglomerate with 1-10% rounded to angular, stretched clasts in a fine grained pervasively sericitized graywacke matrix.	16499	78.80	79.40	0.60					0.01	
			14500	79.40	80.00	0.60					NIL	
			16501	80.00	81.00	1.00					NIL	
			16502	81.00	82.00	1.00					0.01	
			16503	82.00	83.00	1.00					0.01	
			16504	83.00	84.00	1.00					0.01	
			16505	84.00	85.00	1.00					0.01	
	84.90 - 85.00	Aphanitic, black mudstone at lower contact which is broken and rubbly.										
85.00	89.00	SYENITE? - ASH TUFF Massive, brick red unit with 5-10% late barren quartz veins up to 3-4cm wide. 10% subrounded, dark-red trachyte? clasts up to 3mm in a very fine grained red matrix which is typically micro-fractured and containing hair line sericite infillings. Moderately magnetic. Numerous tight chloritic ± quartz slips with very minor chalcopyrite evident. Lower contact is sharp, strong chlorite + sericite slip @ 55° tca.	16506	85.00	86.00	1.00				10	0.02	
			16507	86.00	87.00	1.00					0.01	
			16508	87.00	88.00	1.00					0.01	
			16509	88.00	89.00	1.00					0.01	
89.00	91.40	CONGLOMERATE Strongly foliated to sheared chloritic conglomerate. Tightly spaced chlorite slips @ 70° tca. Fractured to brecciated clasts. Sharp, tight contacts. Barren, non-mineralized.	16510	89.00	90.00	1.00					0.01	
			16511	90.00	91.00	1.00					0.01	
			16512	91.00	91.40	0.40					0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-04

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
91.40	93.70	GRAYWACKE Fine grained, light-green, moderately well foliated @ 80° tca. Pervasively sericitized. 1-2% late white-pink quartz ± calcite veinlets.	16513	91.40	92.00	0.60					0.01	
			16514	92.00	93.00	1.00					0.01	
			16515	93.00	93.70	0.70					0.01	
93.70	100.50	ASH TUFF - MODERATELY SERICITIC Massive to moderately foliated with patchy zones of sericite alteration. Typically fine grained, non-magnetic, comprised of 10-15% rounded to sub-angular red trachyte clasts up to 2-3mm in a very fine grained matrix. A few lapilli-block sized clasts are evident as well as some narrow zones of polymictic conglomerate < 0.5m wide. Very minor disseminated pyrite.	16516	93.70	94.40	0.70			0.5	5	0.01	
			16517	94.40	95.00	0.60					0.01	
			16518	95.00	96.00	1.00					0.01	
			16519	96.00	97.00	1.00					0.01	
			16520	97.00	98.00	1.00					0.01	
			16521	98.00	99.00	1.00					0.01	
			16522	99.00	100.00	1.00					0.01	
100.50	132.80	BLOCK/LAPILLI TUFF - MONOLITHIC Massive dark green with 5% coarse red trachyte/syenite clasts up to 1-cm in a very fine grained chloritic ash matrix. Strongly magnetic. Some larger clasts display distinct porphyritic texture. Unit is in part intercalated with narrow, polymictic conglomerate horizons ≤1m wide with predominately red trachyte clasts and minor exotic fragments. Grades to a finer grained ash tuff with 3-5% lapilli clasts.	16523	100.00	100.50	0.50					0.01	
			16524	100.50	101.00	0.50					NIL	
			16525	101.00	102.00	1.00					0.01	
			16526	102.00	103.00	1.00					0.01	
			16527	103.00	104.00	1.00					0.01	
			16528	104.00	105.00	1.00					0.01	
132.80	159.60	ASH TUFF Massive to finely laminated @ 65° tca. Colour variable from yellow-green to dark green to purple due to patchy zones of hematization. Moderately magnetic with primary magnetite evident as fine disseminations and as narrow beds 1-2mm wide. Unit is in part intercalated with narrow lapilli tuff and conglomerate/graywacke horizons less than 1m wide.	16529	138.00	139.00	1.00					0.02	
			16530	139.00	140.00	1.00					NIL	
			16531	140.00	141.00	1.00					0.01	
			16532	141.00	142.00	1.00					0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-04

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
	142.40 - 142.50	Quartz + pyrite zone. 4 narrow white quartz veins, 2-5mm wide with narrow pyrite stringers on vein boundaries. Weak to moderate sericite alteration halos evident proximal to veins.	16533	142.00	142.70	0.70		1	2		0.04	
			16534	142.70	143.50	0.80					NIL	
	143.40	Fault @ 30° tca. 1cm wide grey calcite + ankerite + mud break with open calcite vugs.	16535	143.50	144.00	0.50					NIL	
			16536	144.00	145.00	1.00					NIL	
			16537	145.00	146.00	1.00					NIL	
	146.20 - 147.10	Hematitic graywacke/conglomerate with sharp contacts @ 60° tca.	16538	146.00	147.00	1.00					0.02	
			16539	147.00	147.50	0.50					0.02	
			16540	147.50	148.20	0.70					0.04	
			16541	148.20	149.00	0.80					0.02	
			16542	149.00	149.70	0.70		≤0.5	1-2	10-15	0.01	
	148.30 - 149.60	Finely laminated, sericitized ash and mudstone with sporadic, narrow (≤ 1mm) pyrite veinlets and 1-2% irregular quartz veinlets + pods.	16543	149.70	150.30	0.60		<0.5	1	10-15	NIL	
			16544	150.30	151.00	0.70					NIL	
			16545	151.00	152.00	1.00					0.01	
			16546	152.00	153.00	1.00					0.02	
			16547	153.00	153.80	0.80					NIL	
	152.00 - 153.70	Fine grained reddish-purple hematized zone. Quite massive and syenitic in appearance but has gradational contacts with surrounding tuffs. Possibly narrow syenite sills intruding and digesting the surrounding tuffs.	16548	153.80	154.50	0.70					NIL	
			16549	154.50	155.00	0.50					0.08	
			16550	155.00	156.00	1.00					0.08	
			16551	156.00	157.00	1.00					NIL	
			16552	157.00	158.00	1.00					NIL	
16553			158.00	159.00	1.00					NIL		
16554			159.00	159.60	0.60					0.01		
153.70 - 159.60	Intercalated sericitic ash tuffs and hematitic tuff and/or syenite? Sharp to gradational contacts evident. 1-2% late quartz veining.	16555	159.60	160.25	0.65					NIL		
		16556	160.25	161.00	0.75				1-2	NIL		
		16557	161.00	162.00	1.00					NIL		
											0.01	
159.60	181.20	SYENITE Massive, fine grained, brick-red syenite with strong pervasive micro-fracturing with hairline sericite on fractures. Strong fractured appearance. Unit contains from 1-10% barren white quartz veining. In places unit contains small inclusions of sericitized	16555	159.60	160.25	0.65					NIL	
			16556	160.25	161.00	0.75					NIL	
			16557	161.00	162.00	1.00					NIL	

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
			sericitized and bleached with numerous sharp sericite slips and micro-fracturing. Occasional mafic inclusions altered to sericite ± fuchsite. Very homogeneous, barren, non-mineralized. No evidence of strong faulting associated with this bleaching.	16578	185.00	186.00	1.00						NIL
			16579	186.00	187.00	1.00						NIL	
			16580	187.00	188.00	1.00						0.03	
	188.20 - 188.30	10cm wide sericite + fuchsite altered inclusion with sharp contacts @ 50° tca.	16581	188.00	188.50	0.50						NIL	
			16582	188.50	189.00	0.50						NIL	
			16583	189.00	190.00	1.00						NIL	
			11864	190.00	191.00	1.00						0.01	
			11865	191.00	192.00	1.00			0.5		Ser	0.03	
			11866	192.00	193.00	1.00			0.5		Ser	0.03	
			11867	193.00	194.00	1.00					Ser	NIL	
			11868	194.00	195.00	1.00					Ser	NIL	
			16584	195.00	196.00	1.00					Ser	NIL	
			16585	196.00	197.00	1.00						0.02	
			16586	197.00	198.00	1.00						NIL	
			16587	198.00	199.00	1.00						NIL	
			16588	199.00	200.00	1.00						NIL	
			11869	200.00	201.00	1.00						NIL	
			11870	201.00	202.00	1.00						NIL	
			11871	202.00	203.00	1.00		Tr.			Ser	NIL	
			11872	203.00	204.00	1.00					Ser	NIL	
			11873	204.00	205.00	1.00					Ser	0.05	
			11874	205.00	206.00	1.00					Ser	0.01	
			11875	206.00	207.00	1.00					Ser	0.01	
			11876	207.00	208.00	1.00					Ser	NIL	
			11877	208.00	209.00	1.00					Ser	NIL	
			11878	209.00	210.00	1.00					Ser	NIL	
			16589	210.00	211.00	1.00		Tr.	Tr.		Ser	NIL	
			16590	211.00	212.00	1.00					Ser	NIL	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
			16591	212.00	213.00	1.00						NIL
			16592	213.00	214.00	1.00						NIL
			16593	214.00	215.00	1.00						NIL
			16594	215.00	216.00	1.00						0.01
			11879	216.00	217.00	1.00						NIL
			11880	217.00	218.00	1.00						NIL
			11881	218.00	219.00	1.00				Ser		NIL
			11882	219.00	220.00	1.00				Ser		NIL
			11883	220.00	221.00	1.00				Ser		NIL
			11884	221.00	222.00	1.00		Tr.	Tr.	Ser		NIL
			11885	222.00	223.00	1.00				Ser		NIL
			11886	223.00	224.00	1.00				Ser		NIL
			11887	224.00	225.00	1.00				Ser		NIL
			16595	225.00	226.00	1.00				Ser		NIL
			16596	226.00	227.00	1.00				Ser		NIL
			16597	227.00	228.00	1.00				Ser		NIL
			16598	228.00	229.00	1.00				Ser		NIL
			16599	229.00	230.00	1.00				Ser		0.06
			16600	230.00	231.00	1.00				Ser		NIL
			16601	231.00	232.00	1.00				Ser		0.01
			16602	232.00	233.00	1.00				Ser		NIL
			16603	233.00	234.00	1.00				Ser		0.01
			16604	234.00	234.50	0.50				Ser		0.01
		224.50	Fault @ 30° tca. Strong 1-2cm wide, sericite fault. Dry, barren.									
		233.10 - 233.20	Fault @ 60° tca. 10cm wide sericite schist with a 2-3 cm wide, barren white-grey quartz vein. Change from bleached, sericitic syenite to red hematitic syenite in quite abrupt and marked by a couple tight sericitic slips @ 234.5m @ 50-60° tca.									
234.50	298.30	SYENITE		Massive, fine grained to weakly porphyritic. Brick-red, hematitic, non-magnetic. 0.5% sericite altered, mafic xenoliths and tight sericite slips. 0.5-1% late, barren quartz veining. Lower contact marked by, 10cm wide, barren, sericite + quartz veining @								
			11888	234.50	235.00	0.50						NIL
			11889	235.00	236.00	1.00						NIL
			11890	236.00	237.00	1.00						0.05

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
	313.30	END OF HOLE	16666	312.00	312.50	0.50					0.01	
			16667	312.50	313.30	0.80					0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-05

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PROPERTY	Kirkland Gold Rand	DATE LOGGED	July 1 - 5, 1991	EASTING	9700
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10390
CLAIM No.	L 1111443	SIGNED BY	<i>[Signature]</i>	ELEVATION	
STARTED	July 1, 1991	DRILLED BY	Heath & Sherwood	LENGTH	310.5
COMPLETED	July 4, 1991	SURVEYED BY		UNITS	metres
PURPOSE	To test for the western extension of the Car Dump Syenite.	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	Casing pulled.				

DEPTH	AZIMUTH	DIP
Collar	341	45
46.00		43
91.50		41
137.00		38
185.00		37
229.00		36
275.00		35
307.00		34

SUMMARY LOG

ASSAY SUMMARY

INTERVAL From To		DESCRIPTION	INTERVAL From To		DESCRIPTION	INTERVAL From To		LENGTH in metres	AVERAGE Au g/t
0.00	3.80	OVERBURDEN	127.00	136.50	LAPILLI TUFF				
3.80	24.10	LAPILLI/BLOCK TUFF	136.50	161.50	ASH TUFF	268.70	269.20	0.50	0.51
24.10	27.50	SERICITIZED ASH TUFF	161.50	170.60	LAPILLI TUFF	273.00	275.00	2.00	0.22
27.50	29.00	SYENITE (TRACHYTE FLOW?)	170.60	171.00	FAULT ZONE	277.00	278.00	1.00	0.11
29.00	31.60	ASH/LAPILLI TUFF	171.00	182.00	SERICITIZED SILTSTONE	280.00	281.00	1.00	0.13
31.60	32.30	SYENITE (TRACHYTE FLOW?)	182.00	187.00	CONGLOMERATE/GRAYWACKE	283.50	284.00	0.50	0.26
32.30	32.80	LAPILLI TUFF	187.00	188.90	FAULT ZONE	285.50	286.20	0.70	4.10
32.80	33.50	SYENITE (TRACHYTE FLOW?)	188.90	192.00	SYENITE	290.00	291.00	1.00	0.13
33.50	61.00	BLOCK/LAPILLI TUFF	192.00	196.95	MUDSTONE/GRAYWACKE/CONGLOMERATE	308.00	309.00	1.00	0.12
61.00	69.00	GRAYWACKE			Strongly sericitized and deformed				
69.00	76.60	CONGLOMERATE	196.95	282.80	SYENITE				
76.60	82.00	ASH TUFF-SERICITIC	282.80	286.20	CONGLOMERATE				
82.00	85.50	LAPILLI TUFF	286.20	310.50	SYENITE				
85.50	93.90	SYENITE (TRACHYTE FLOW?)							
93.90	114.30	BLOCK TUFF							
114.30	118.60	LAPILLI TUFF		310.50	E. O. H.				
118.60	125.40	BLOCK TUFF							
125.40	127.00	ASH TUFF							

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
0.00	3.80	OVERBURDEN Casing pulled.										
3.80	24.10	LAPILLI/BLOCK TUFF Massive, undeformed, unaltered tuff comprised of 2-5% red lapilli to block sized clasts of syenite/trachyte, up to 15cm, often porphyritic, in a very fine grained, dark green, ash matrix. Strongly magnetic. 2% late white-pink quartz ± calcite veinlets. Occasionally a few minor exotic clasts (i.e. jasper) are evident but very rare.										
	20.00 - 24.10	Unit grades to a re-worked block tuff conglomerate comprised of 80% sub-rounded trachyte clasts (pebbles) and 20% exotic clasts of mafic volcanics, mudstone and minor jasper but little to no quartz. Moderately magnetic. Lower contact very sharp @ 50° tca.	16668	23.00	24.00	1.00					0.01	
24.10	27.50	ALTERED ASH TUFF Fine grained, massive yellow-green to epidote-green. Wispy, pervasive sericite alteration throughout. Minor intercalated lapilli horizons up to 15cm. Unit contains 0.5% late quartz + calcite veinlets with the occasional speck of chalcopyrite. Strongly magnetic.	16669	24.00	25.00	1.00			0.5	10	0.01	
			16670	25.00	26.00	1.00					0.01	
			16671	26.00	27.00	1.00					0.01	
			16672	27.00	27.50	0.50					0.01	
27.50	29.00	SYENITE PORPHYRY-(TRACHYTE FLOW)? Massive, reddish brown with 10-15% subhedral plagioclase phenocrysts up to 0.5cm in a very fine grained, feldspathic matrix + 1-2% chloritized amphibole. Both upper + lower contacts are sharp, irregular intrusive types. Strongly magnetic. Minor, late barren quartz veinlets.	16673	27.50	28.00	0.50					0.01	
			16674	28.00	29.00	1.00					0.01	
29.00	31.60	ASH/LAPILLI TUFF Massive to weakly foliated, grey-green ash tuff with 1% scattered heterolithic lapilli clasts. Moderately to strongly magnetic. Lower contact is a sharp chloritic slip @ 55° tca.	16675	29.00	30.00	1.00					0.01	
			16676	30.00	31.00	1.00					0.01	
			16677	31.00	31.60	0.60					0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-05

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
31.60	32.30	SYENITE PORPHYRY? - (TRACHYTE FLOW?) Massive, red-brown with 5-10% subhedral plagioclase phenocrysts in a very fine grained, dark matrix with 1% chloritized amphibole (augite) phenocrysts to 2mm. Some of these phenocrysts display pseudo-hexagonal outlines and may be feldspathoids (leucite?). Strongly magnetic, possibly a trachyte flow? Unaltered, undeformed, pseudo-trachytic texture. Lower contact is sharp and somewhat irregular.	16678	31.60	32.20	0.60					0.01	
32.30	32.80	LAPILLI TUFF Massive, dark green, comprised of 5% red trachyte lapilli clasts in a fine grained ash matrix. Strongly magnetic.	16679	32.30	32.80	0.50					NIL	
32.80	33.50	SYENITE PORPHYRY? (TRACHYTE FLOW?) Massive, very dark, with 5-10% subhedral phenocrysts, up to 0.5cm, which are frequently dusted with hematite. 1% sub-euhedral augite phenocrysts to 2mm. Strongly magnetic.	16680	32.80	33.50	0.70					0.01	
33.50	61.00	BLOCK/LAPILLI TUFF Massive, dark-green, ash matrix with 5-10% angular to sub-rounded, red trachyte clasts up to 10-15cm. Undeformed, unaltered. Overall the unit is predominantly monolithic with 1-2% heterolithic clasts evident in places. Strongly magnetic. In part intercalated with narrow ash and lapilli tuff horizons ($\leq 1m$).										
	48.30 - 48.40	Fault @ 40° tca. Chlorite + quartz + calcite. Dry chloritic shear with barren, white-pink quartz-calcite veinlets.	16681	33.50	34.50	1.00					0.01	
	59.50 - 61.00	Unit is well foliated with sharp chlorite + sericite slips throughout @ 55° tca.	16835	59.00	60.00	1.00					0.02	
			16682	60.00	61.00	1.00					0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-05

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
61.00	69.00	GRAYWACKE 61.00 - 63.90 Very fine grained, dark green chloritic graywacke. Well fractured with 3-5% irregular quartz ± ankerite stringers throughout. 63.90 - 68.70 Weakly to moderately sericitized graywacke with 1% polymictic pebbles scattered throughout. Moderately well foliated @ 55° tca. Grades to polymictic conglomerate @ 69m.	16683	61.00	62.00	1.00						0.04
			16684	62.00	63.00	1.00				3-5		NIL
			16685	63.00	63.90	0.90				3-5		0.01
			16686	63.90	64.50	0.60						0.03
			16687	64.50	65.00	0.50						0.01
			16688	65.00	66.00	1.00						0.01
			16689	66.00	67.00	1.00						0.01
			16690	67.00	68.00	1.00						0.01
			16691	68.00	69.00	1.00						0.01
			69.00	76.60	CONGLOMERATE Massive to moderately well foliated with clast elongation @ 55° tca., light grey-green polymictic pebble conglomerate. Matrix supported with 10% elliptical polymictic clasts. Non-magnetic. 74.00 - 76.60 Hematized graywacke. Massive, fine grained, mauve coloured with minor wispy sericite.	16692	73.00	74.00	1.00			
16693	74.00	75.00				1.00						0.01
16694	75.00	76.00				1.00						0.01
16695	76.00	76.60				0.60						0.02
16696	76.60	77.40				0.80						0.01
76.60	82.00	ASH TUFF Massive to well bedded @ 70° tca. Light green to yellow brown ash tuff. Comprised primarily of fine, crushed + fractured red trachyte fragments up to 2mm in a fine, wispy, sericitized ground mass. Up to 1-2% altered lapilli clasts are evident in places.	16697	77.40	78.00	0.60						NIL
			16698	78.00	79.00	1.00						0.01
			16699	79.00	80.00	1.00						0.01
			16700	80.00	81.00	1.00						0.01
			16701	81.00	82.00	1.00						0.01
82.00	85.50	LAPILLI/ASH TUFF Dark green, fine grained, chloritic ash matrix with 1-5% scattered, red trachyte	16702	82.00	83.00	1.00					0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-05

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t
125.40	127.00	<p>predominantly monolithic. Strongly magnetic. Lower contact is somewhat gradational over 1m.</p> <p>ASH TUFF Massive to weakly bedded @ 60° tca. Light green to grey, very fine grained trachyte ash with 1% scattered lapilli fragments. Strongly magnetic. Lower contact gradational.</p>									
127.00	136.50	<p>LAPILLI TUFF Massive, undeformed, unaltered. Grey-green, very fine grained ash matrix with 2-3% angular to rounded red trachyte clasts up to 5cm, average 1-2cm. Grades to massive to well bedded ash tuff @ 131m.</p>									
136.50	161.50	<p>ASH TUFFS Quite variable in colour and texture from light green to brown to red, massive to well bedded @ 70° tca. Undeformed, unaltered. Magnetite occurs as fine disseminations and as discreet laminae 1mm wide. Intercalated with lapilli and block tuff horizons ≤ 1m wide. Lower contact is gradational over 1-2m.</p>									
161.50	170.60	<p>LAPILLI TUFF Massive, undeformed. Dark green to black, fine grained ash matrix with 5% angular lapilli clasts up to 3cm. Clasts are predominantly monolithic, red syenite/trachyte which constitutes 95% of clast type evident. Moderately to strongly magnetic. Lower contact is sharp and abrupt and marked by a strong sericitic fault.</p>	16715	168.00	169.00	1.00					0.01
			16716	169.00	169.90	0.90					0.01
			16717	169.90	170.60	0.70					0.03
170.60	171.00	<p>FAULT ZONE Laminated to schistose to pseudo-mylonitic zone comprised predominantly of sericite + dark green chlorite wisps 1-2mm wide @ 55° tca. Small sigmoidal extension gashes (sinistral) infilled with white quartz are evident between strong sericite + chlorite slip planes. Small scale sinistral cross-faults with ≤ 0.5cm displacement post date shearing @ 45° tca.</p>	16718	170.60	171.10	0.50					0.01

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-05

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
171.00	182.00		<p>SILTSTONE Massive light green-brown and comprised of 1-2% angular altered (sericite ± fuchsite) mudstone clasts up to 4cm (avg. 1cm) in a clear, very fine grained matrix. Matrix is light green-brown, quite soft with pervasive and wispy sericite alteration. No quartz, jasper or other lithics are evident. Minor late, barren quartz ± calcite veinlets.</p> <p>175.00 - 182.00 Unit becomes brecciated by dark green-black, chloritic veinlets which fracture and disrupt the light brown sediment leading to angular clast formation. This brecciation becomes intercalated with a poorly sorted conglomerate comprised of angular to sub-rounded clasts comprised of brecciated sediment described above and mudstone clasts + black aphanitic, chloritized clasts. No quartz, jasper or granitoid clasts present. Lower contact gradational.</p>	16719	171.10	172.00	0.90					0.01
			16720	172.00	173.00	1.00					0.03	
			16721	173.00	174.00	1.00					0.02	
			16722	174.00	175.00	1.00					0.01	
			16723	175.00	176.00	1.00					0.01	
			16724	176.00	177.00	1.00					0.01	
			16725	177.00	178.00	1.00					0.01	
			16726	178.00	179.00	1.00					0.01	
			16727	179.00	180.00	1.00					0.01	
			16728	180.00	181.00	1.00					NIL	
			16729	181.00	182.00	1.00					0.01	
182.00	185.00	<p>GRAYWACKE/MUDSTONE Massive, grey-green comprised of 5% angular mudstone clasts (≤ 5cm) in fine grained graywacke matrix with 5% quartz grains. A few black aphanitic clasts are scattered throughout. Lower contact gradational over 0.5-1m.</p>	16730	182.00	183.00	1.00					NIL	
			16731	183.00	184.00	1.00					NIL	
			16732	184.00	185.00	1.00					0.01	
185.00	187.00	<p>CONGLOMERATE Moderately well foliated @ 60° tca. Comprised of 50% pebble framework consisting of sub-rounded polymictic clasts ranging from 2mm to 6cm in a fine grained, weakly sericitized ground mass.</p>	16733	185.00	186.00	1.00					0.01	
			16734	186.00	187.00	1.00					NIL	
187.00	188.90	<p>FAULT ZONE Strong foliated to sheared @ 55-60° tca. Mylonized zone comprised predominantly of yellow-green sericite + interstitial brown siltstone and podiform to boudinaged quartz veins up to 1-2cm wide. Minor pink calcite veining also is present.</p>	16735	187.00	188.00	1.00					0.01	
			16736	188.00	188.90	0.90					0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-05

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
188.90	192.00	SYENITE Reddish-brown to green, quite massive and homogeneous with a pervasive micro-fracturing (crackle-breccia) which is infilled with hair-line sericite. Matrix in very fine grained to aphanitic and very hard, possibly silicified. One large pink, rounded quartz pod visible @ 189.9m. Upper and lower contacts are strong sericitic shears.	16737	188.90	189.70	0.80						0.01
			16738	189.70	190.40	0.70						NIL
			16739	190.40	191.00	0.60						NIL
			16740	191.00	192.00	1.00						NIL
192.00	196.95	MUDSTONE/GRAYWACKE/CONGLOMERATE Strongly sericitized and deformed zone of intercalated mudstone, graywacke and minor conglomerate. Mudstone portion is yellow-green, pervasively sericitic and displays highly contorted bedding with small scale step-faulting, \leq 0.5cm. Graywackes are reddish-brown and moderately hematitic, well foliated but not as sericitic as the muds. Throughout the zone are 3-5% irregular quartz pods and boudinaged veinlets up to 5cm wide. Strong, tight sericitic \pm gouge slips @ 55° tca. throughout. Barren, non-mineralized.	16741	192.00	193.00	1.00						0.03
			16742	193.00	194.00	1.00						0.02
			16743	194.00	195.00	1.00						NIL
			16744	195.00	196.00	1.00						0.01
			16745	196.00	197.00	1.00						NIL
196.95	282.80	SYENITE Massive fine grained to weakly porphyritic with up to 5% subhedral plagioclase phenocrysts to 0.5cm and 1-2% late quartz veinlets. Typically red-brown but grades to greenish-brown where syenite is sericitized and weakly silicified. Displays an almost pervasive crackle breccia texture due to fine anastomosing hair-line cracks infilled with sericite and occasionally minor pyrite and quartz. These sericitic zones are quite broad are and homogeneous and only more unique areas described below. Upper contact is sharp sericite + quartz slip 1cm wide. Lower contact of unit is sharp, irregular intrusive type. 204.80 - 205.10 Series of 1-2mm wide white to dark grey-green quartz + chlorite veinlets @ 40° tca.	16746	197.00	198.00	1.00				5-10		NIL
			16747	198.00	199.00	1.00				5-10		NIL
			16748	199.00	200.00	1.00				5-10		NIL
			16749	200.00	201.00	1.00				5-10		NIL
			16750	201.00	202.00	1.00				5-10		NIL
			16751	202.00	203.00	1.00				5-10		NIL
			16752	203.00	204.00	1.00				5-10		NIL
			16753	204.00	204.75	0.75				5-10		NIL
			16754	204.75	205.30	0.55			2	5-10		NIL
			16755	205.30	206.00	0.70				5-10		NIL
			16756	206.00	207.00	1.00				5-10		NIL
			16757	207.00	208.00	1.00						NIL
			16758	208.00	209.00	1.00						NIL

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

HOLE: KGR-91-05

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
			16759	209.00	210.00	1.00						NIL
			16760	220.00	221.00	1.00						NIL
			16761	221.00	222.00	1.00						NIL
			16762	222.00	223.00	1.00						0.01
			16763	223.00	224.00	1.00						0.01
	224.00 - 224.50	White to grey quartz breccia veinlets with angular wall rock inclusions. Non-mineralized.	16764	224.00	224.50	0.50			2-3			NIL
			16765	224.50	225.00	0.50						NIL
			16766	225.00	226.00	1.00						NIL
			16767	232.00	232.50	0.50				5-10		0.03
			16768	232.50	233.00	0.50			≤1	5-10		NIL
			16769	233.00	234.00	1.00						NIL
			16770	234.00	235.00	1.00						NIL
			16771	235.00	236.00	1.00						NIL
			16772	236.00	237.00	1.00						0.01
	237.00 - 240.00	Unit becomes less sericitic and more typically red, hematitic syenite with 0.5% sericitized mafic xenoliths up to 1-2cm.										
	238.10	Fault @ 20° tca. 1cm wide sericite + quartz + calcite slip.										
	243.80	Fault @ 30° tca. 2-3cm wide, quartz/calcite vein adjacent to a sharp sericite slip with minor smeared pyrite on slip face.	16773	243.00	243.80	0.80						NIL
			16774	243.80	244.20	0.40						NIL
			16775	244.20	245.00	0.80			2-3	5-10		0.01
			16776	250.00	251.00	1.00						NIL
			16777	251.00	252.00	1.00						0.01
			16778	252.00	253.00	1.00						0.01
			16779	253.00	254.00	1.00		<0.5	2-3			0.01
			16780	254.00	254.70	0.70				3-4		NIL
	254.55 - 254.62	Fault @ 80° tca. Strong sericite + gouge fault with 2 cm. wide white-pink quartz calcite vein.	16781	254.70	255.50	0.80				2		NIL
			16782	264.00	265.00	1.00						0.01
			16783	265.00	266.00	1.00						0.01
			16784	266.00	267.00	1.00						NIL
	266.00 - 276.00	Unit becomes notably silicified and carries up to 5% dark grey, patchy quartz veining, pervasive silicification and 0.5% disseminated	16785	267.00	268.00	1.00						NIL
								<0.5	1-2	5-10		0.01

BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG

HOLE: KGR-91-05

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		pyrite and pyrite on sericitic sutures.	16786	268.00	268.70	0.70		<0.5	2-3			
		Fault @ 40° tca. Sericite + quartz. 3-4cm wide blue-grey fractured quartz vein and silicified syenite bounded by sharp, tight sericite slips. 0.5% disseminated pyrite.	16787	268.70	269.20	0.50		0.5	3-4		0.01	
			16788	269.20	270.00	0.80		0.5	3-5		0.51	
		271.30 Fault @ 80° tca. 0.5cm wide strong sericite shear with quartz + calcite ± chlorite veinlet.	16789	270.00	271.00	1.00					0.04	
		271.80 - 272.00 Strongly silicified zone with white to grey quartz veinlets and pervasive silicification.	16790	271.00	271.50	0.50					0.01	
			16791	271.50	272.00	0.50		0.5	5		0.02	
			16792	272.00	273.00	1.00					0.02	
			16793	273.00	274.00	1.00			1-2		0.02	
			16794	274.00	275.00	1.00					0.26	
			16795	275.00	276.00	1.00					0.17	
			16796	276.00	277.00	1.00					0.03	
			16797	277.00	278.00	1.00					0.05	
			16798	278.00	279.00	1.00					0.11	
			16799	279.00	280.00	1.00			2-3		0.02	
			16800	280.00	281.00	1.00					0.02	
			16801	281.00	282.00	1.00					0.13	
			16802	282.00	282.80	0.80					0.03	
											0.04	
282.80	286.20	CONGLOMERATE Weakly to moderately sericitized, weakly foliated polymictic pebble conglomerate. Comprised of 10% sub-rounded, polymictic clasts up to 3-4cm floating in a weakly sericitic graywacke matrix. Lower contact is sharp and irregular.	16803	282.80	283.50	0.70						
			16804	283.50	284.00	0.50					0.01	
			16805	284.00	285.00	1.00					0.26	
			16806	285.00	285.50	0.50					0.03	
		285.95 - 286.20 0.5% finely disseminated pyrite.	11857	285.00	285.50	0.50					0.02	
		286.15 - 286.20 Two, 2-5mm, irregular white quartz veinlets with 1% pyrite along vein contacts.	16807	285.50	286.20	0.70		<0.5	<0.5	5	0.01	
			11858	285.50	286.20	0.70					5.50	5.07
											3.23	2.59

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-06

PROPERTY	Kirkland Gold Rand	DATE LOGGED	July 7-8, 1991	EASTING	9700
TOWNSHIP	Teck	LOGGED BY	W. Benham	NORTHING	10085
CLAIM No.	L 1111453	SIGNED BY	<i>[Signature]</i>	ELEVATION	
STARTED	July 5, 1991	DRILLED BY	Heath & Sherwood	LENGTH	145.08
COMPLETED	July 7, 1991	SURVEYED BY		UNITS	metres
PURPOSE	To test sheared, sericitic conglomerate with anomalous gold.	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	26.00 - 124.50 Sericitic, chloritic shear zone with quartz veining				

DEPTH	AZIMUTH	DIP
Collar	341	45
47.72		42
93.27		40
142.00		37

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 2.40	OVERBURDEN		Sheared, sericitic.			
2.40 4.60	CONGLOMERATE	65.00 66.30	MUDSTONE			
4.60 10.00	CONGLOMERATE/GRAYWACKE		Sheared @ 60° tca.	83.00 86.00	3.00	0.13
10.00 26.00	GRAYWACKE	66.30 68.55	GRAYWACKE			
	Sericitic		Sheared, sericitic.			
26.00 31.92	CONGLOMERATE	68.55 75.95	MUDSTONE			
	Sheared, sericitic.		Sheared, chloritic.			
31.92 32.85	GRAYWACKE		71.10 - 72.50 Fault zone			
32.85 33.25	MUDSTONE	75.95 77.20	GRAYWACKE			
	Chloritic		Sericitic.			
33.25 35.25	GRAYWACKE	77.20 86.30	CONGLOMERATE			
35.25 61.85	GRAYWACKE/MUDSTONE		Sheared, sericitic.			
	Sericitic, chloritic.	86.30 90.80	GRAYWACKE			
	46.30 - 52.00 Sheared, drag folded.		Sheared, sericitic			
	52.00 - 61.85 Sericitic, chloritic sheared @ 50° tca., crenulation clearance @ 30%. 5-15%, 0.1-1cm pygmatic grey quartz veining, trace pyrite.	90.80 93.80	MUDSTONE/GRAYWACKE/CONGLOMERATE			
		93.80 107.75	15% drag-folded, white quartz veining.			
			MUDSTONE			
61.85 65.00	CONGLOMERATE		Sheared, chloritic, sericitic.			
			105.5 Fault @ 60° tca.			

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-06

PAGE: 2 of 10

PROPERTY	Kirkland Gold Rand	DATE LOGGED	July 7-8, 1991	EASTING	9700
TOWNSHIP	Teck	LOGGED BY	W. Benham	NORTHING	10085
CLAIM No.	L 1111453	SIGNED BY		ELEVATION	
STARTED	July 5, 1991	DRILLED BY	Heath & Sherwood	LENGTH	145.08
COMPLETED	July 7, 1991	SURVEYED BY		UNITS	metres
PURPOSE	To test sheared, sericitic conglomerate with anomalous gold.	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	26.00 - 124.50 Sericitic, chloritic shear zone with quartz veining				

DEPTH	AZIMUTH	DIP
Collar	341	45
47.72		42
93.27		40
142.00		37

SUMMARY LOG				ASSAY SUMMARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
107.75 111.37	GRAYWACKE Sheared, sericitic					
111.37 113.55	ASH TUFF					
113.55 118.05	MUDSTONE/GRAYWACKE Strongly sheared.					
118.05 124.50	CONGLOMERATE Sericitic, sheared.					
124.50 142.95	TRACHYTE LAPILLI TUFF					
142.95 145.08	GRAYWACKE					
145.08	E. O. H.					

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-06

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
0.00	2.40		OVERBURDEN Sandy till with 0.5m boulders. Casing to 4.10m.									
2.40	4.60	CONGLOMERATE Light grey to yellow grey, moderately foliated @ 50° tca. with elongated mafic volcanic, quartz and sericitic rock clasts in a medium grained, sericitic graywacke matrix. Trace disseminated pyrite.	16836	2.40	3.50	1.10	95	Tr.		5	0.01	
			16837	3.50	4.60	1.10	95	Tr.		5	0.01	
4.60	10.00	CONGLOMERATE/GRAYWACKE Inter-bedded conglomerates and graywacke. 0.25 to 0.5 m wide conglomerate beds and 0.5 to 1.0m graywacke units. Moderately foliated @ 50-60° tca. (average 55° tca.). Weakly to locally strongly sericitic.										
	6.25 - 6.85	Sericitic zone with 1%, 0.2-0.5cm wide, discontinuous pyrite lenses and 0.5% disseminated pyrite. 0.5% pygmatic, 0.2cm wide, grey-white quartz veinlets.	16838	4.60	5.85	1.25		Tr.		5	0.01	
			16839	5.85	6.90	1.05		1	0.5	25	0.04	
			16840	6.90	7.90	1.00		Tr.		5	0.01	
	8.85 - 9.30	Sericitic, 1% irregular 0.2-1.0cm grey-white quartz veinlets in sericitic graywacke with a trace of pyrite.	16841	7.90	8.80	0.90		Tr.		5	0.01	
			16842	8.80	9.90	1.10		Tr.	1	10	0.01	
10.00	26.00	GRAYWACKE Grey to yellow grey, weakly to strongly altered, sericitic graywacke. Weakly to moderately foliated @ 55° tca. 0.1-1.5m wide sericitic sections with 1-10% irregular white to grey quartz veining, trace to 1% pyrite, 10-50% sericite.										
	10.00 - 11.05	5-10%, 0.1-1cm, irregular quartz ankerite veinlets in strongly sericitized graywacke. 10% pyrite, finely disseminated and 0.2cm irregular wispy veinlets.	16843	9.90	11.10	1.20	97	1	5-10	50	0.02	
			16844	11.10	11.85	0.75		Tr.	0.5	20	0.01	
	11.90 - 12.80	Three, 10cm wide, sericitic sections with 5-10% irregular 0.2-0.5cm, grey quartz veinlets and 0.5% finely disseminated pyrite in sericitic	16845	11.85	12.90	1.05	97	0.5	5	25	0.01	
			16846	12.90	13.90	1.00		Tr.		5	NIL	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-06

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		graywacke. Veining @ 45° tca.	16847	13.90	14.80	0.90		Tr.	0.5	5		
	14.05 - 16.05	Bleached, sericitic graywacke with 2-3%, 0.2-0.5cm, grey irregular quartz veinlets. Trace pyrite. Moderately foliated @ 55-60° tca. 5% late 0.1cm quartz-filled fractures at various angles.	16848	14.80	16.10	1.30		Tr.	3	25		NIL 0.01
	16.55	Rusty, carbonated fault @ 50° tca.										
	16.55 - 17.40	Sericitic, silicified graywacke with 0.5% irregular quartz veinlets.	16849	16.10	17.40	1.30	97		0.5	25	Sil	NIL
	17.70 - 18.90	Foliated @ 45-60° tca., 15-20% white-grey, 0.2-0.5cm, quartz veinlets. Trace pyrite in graywacke matrix. Moderately to strongly sericitic.	16850	17.40	18.00	0.60	97	Tr.	3	25		0.02
			16851	18.00	19.00	1.00	99	Tr.	15-20	50		0.02
	17.95 - 18.00	Fault @ 20-50° tca. with 50% vuggy, rust, 0.5-1.0cm, quartz + calcite veining. Trace pyrite.										
	18.90 - 21.15	Foliated @ 55-60° tca., 5% white-grey to grey, 0.2-0.5cm, irregular, disrupted quartz veinlets in sericitic graywacke with traces of pyrite. Weakly to moderately sericitic.	16852	19.00	20.00	1.00				5		0.04
			16853	20.00	21.15	1.15		Tr.	5	25		0.02
	21.15 - 26.00	Weakly sericitic graywacke with 5-10cm wide quartz pebble conglomerate beds. Trace pyrite and 0.5-1% pygmatic, 0.2cm wide, grey quartz veinlets.	16854	21.15	22.00	0.85		Tr.	1	5		0.03
			16855	22.00	23.00	1.00		Tr.	1	5		0.01
			16856	23.00	24.00	1.00		Tr.	1	5		0.01
			16857	24.00	25.00	1.00		Tr.	1	5		0.01
			16858	25.00	26.00	1.00		Tr.	1	5		0.01
26.00	31.92	CONGLOMERATE										
		Sheared, polymictic, sericitic conglomerate. Quartz, mafic volcanic, mudstone, quartz feldspar porphyry, closely packed, elongated clasts in a sericitic graywacke matrix. Moderately sericitized. Locally wispy green fuchitic clasts. Trace pyrite and 0.2cm grey quartz veinlets. Lower contact with graywacke @ 40° tca.	16859	26.00	27.00	1.00		Tr.	1	15		0.08
			16860	27.00	28.00	1.00		Tr.	1	15		0.05
			16861	28.00	29.00	1.00		Tr.	1	15		0.04
			16862	29.00	30.00	1.00		Tr.	1	15		0.04
			16863	30.00	31.00	1.00		Tr.	1	15		0.01
			16864	31.00	31.80	0.80		Tr.	0.5	15		0.03

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-06

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
31.92	32.85	GRAYWACKE Yellow-grey, medium grained, massive to poorly bedded, moderately sericitic graywacke with 0.5-1% disseminated pyrite. Lower contact interfingered with mudstone.	16865	31.80	32.90	1.10		1	Tr.	15		0.01
32.85	33.25	MUDSTONE Finely bedded, green-black chloritic mudstone and siltstone. Sharp lower contact @ 50° tca. 1-2%, 0.1cm, ptygmatic quartz veinlets.	16866	32.90	33.40	0.50		0.5	1	10	Chl	0.01
33.25	35.25	GRAYWACKE Medium grained, yellow-grey, massive to poorly bedded, moderately sericitic graywacke. Bedding or foliation @ 55° tca.. 0.5-1% disseminated pyrite and pyrite-rich beds or veinlets. 2-3%, 0.2-1cm, irregular, ptygmatic, dark blue-grey, discontinuous quartz-ankerite veinlets and 0.5%, 1-4cm, irregular white quartz boudins.	16867	33.40	33.90	0.50		1	2	15		0.01
			16868	33.90	34.60	0.70	95	1	5	15		0.03
			16869	34.60	35.30	0.70		0.5	1	15		0.02
35.25	61.85	GRAYWACKE/MUDSTONE Interbedded yellow-grey, fine grained, sericitic graywacke and black-green, chloritic mudstone. 60% graywacke, 40% mudstone. Mudstone sections vary from 0.5cm beds to 1.0m thick units. Bedding and foliation @ 50° tca.. Bedding, disrupted, wavy and irregular. 10-15%, irregular, 0.1-1cm wide, grey-white, discontinuous, ptygmatic quartz veinlets in mudstone sections. 5-10% quartz veining in graywacke sections. Trace to 1% pyrite over 10cm widths.										
	36.20 - 37.65	15%, irregular quartz veining in chloritic mudstone. 0.5% disseminated pyrite and discontinuous veinlets.	16870	35.30	36.20	0.90		Tr.	0.5	10		0.01
			16871	36.20	37.00	0.80	75	0.5	15	10		0.01
			16872	37.00	37.65	0.65	90	0.5	15	10		NIL
			16873	37.65	38.70	1.05		Tr.	1	10		NIL
			16874	38.70	39.70	1.00		Tr.	1	10		0.01
			16875	39.70	40.70	1.00		Tr.	1	10		0.01
	40.75 - 42.70	10-15%, irregular, white and grey quartz veining in chloritic	16876	40.70	41.70	1.00		0.5	10-15	10		0.01

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-06

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
	42.30	mudstone and sericitic graywacke, 0.5% pyrite. Fault gouge.	16877	41.70	42.70	1.00		0.5	10-15	10		0.01
			16878	42.70	43.70	1.00		Tr.	0.5	10		0.01
			16879	43.70	44.70	1.00		Tr.	10	10		0.01
			16880	44.70	45.70	1.00		Tr.	1	10		0.01
	46.30 - 52.00	Sheared @ 40-60° tca., poorly defined drag- folding and kink banding. Moderately sericitic, 70% sericitic graywacke, 20% chloritic mudstone and 2-10% white and blue-grey. 0.2-0.5cm, disrupted quartz veinlets. Trace to 0.5% disseminated pyrite along vein contacts and in sericitic graywacke.	16881	45.70	46.30	0.60		Tr.	5	10		0.01
			16882	46.30	46.90	0.60		Tr.	10	15		0.01
			16883	46.90	47.55	0.65		0.5	10	15		0.01
			16884	47.55	48.10	0.55		Tr.	1	15		0.01
			16885	48.10	49.00	0.90		Tr.	1	15		0.01
			16886	49.00	50.00	1.00		Tr.	5	15		0.01
			16887	50.00	51.00	1.00		Tr.	10	15		0.01
			16888	51.00	52.00	1.00		Tr.	10	15		0.01
	52.00 - 61.85	70% sericitic graywacke with 15% inter-bedded, 2-10cm wide, chloritic mudstones. 5-15% grey, 0.1-1cm irregular drag-folded quartz veining. Trace disseminated pyrite and chalcopyrite.	16889	52.00	53.00	1.00		Tr.	5	15	Tr. cp	0.01
			16890	53.00	54.00	1.00		Tr.	1	15		0.01
	52.30	Shearing @ 50° tca. and crenulation cleavage @ 30° tca. marked by disrupted mudstone beds. Bedding @ 75-80° tca.	16891	54.00	55.00	1.00		Tr.	2	15		0.04
			16892	55.00	56.00	1.00		Tr.	1	15		0.01
	57.15	Shearing @ 55° tca., crenulation cleavage @ 35° tca. marked by disrupted, drag-folded quartz veining.	16893	56.00	57.00	1.00		Tr.	2	15		0.01
			16894	57.00	58.00	1.00		Tr.	10	15		0.01
			16895	58.00	59.00	1.00		Tr.	10	15		0.01
			16896	59.00	60.00	1.00		Tr.	2	15		0.01
			16897	60.00	61.00	1.00		Tr.	10	15		0.01
			16898	61.00	61.85	0.85		Tr.	5	15		0.02
61.85	65.00	CONGLOMERATE Sheared @ 55° tca.. Sericitic conglomerate with stretched, bleached, sericitic polymictic clasts in a sericitic matrix. Upper and lower contacts are gradational.	16899	61.85	62.95	1.10		Tr.		15		0.01
			16900	62.95	63.75	0.80		Tr.	1	50		0.01
	63.00 - 64.30	Strong, straw-yellow to beige sericite alteration, 1%, grey, 0.2-0.5cm, quartz veinlets. Trace to 0.5% pyrite.	16901	63.75	64.40	0.65		0.5	1	5		0.06
	64.96 - 65.00	White, boudinaged quartz/ankerite vein @ 45° tca.	16902	64.40	65.10	0.70		Tr.		15		0.03

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
65.00	66.30	MUDSTONE Finely laminated, sheared, sericitic and chloritic mudstone. Sheared @ 60° tca.. 0.5%, 0.2-1cm, discontinuous and partially boudinaged, grey-white quartz veins. Trace pyrite.	16903	65.10	66.20	1.10		Tr.	0.5	15	Chl	0.04
66.30	68.55	GRAYWACKE Sericitic, sheared graywacke with 10% interbedded sericitic mudstone. Sheared @ 55° tca. Crenulation cleavage @ 35° tca.. 5-10%, white to grey, 1-4cm, irregular quartz veining with trace pyrite along contacts.	16904	66.20	67.40	1.20		Tr.	5	20		0.03
			16905	67.40	68.55	1.15		Tr.	10	35		0.02
68.55	75.95	MUDSTONE Strongly sheared, chloritic, sericitic mudstone. Sheared @ 60° tca.	16906	68.55	69.80	1.25				15	Chl	0.02
			16907	69.80	71.00	1.20				15	Chl	0.02
		71.10 - 72.50 Fault zone. 2-4cm wide fault gouge at 71.10, 71.80, 72.15 and 72.50. Strongly chloritic, sheared and fractured core.	16908	71.00	72.50	1.50			5	15	Chl	0.01
		71.50 1-4cm, irregular, white, barren quartz vein @ 55° tca.	16909	72.50	73.40	0.90				15	Chl	0.02
		73.40 - 75.95 Sericitic, well developed crenulation cleavage @ 45° tca. marked by strong sericitic slips. Kink banding and fold closures in laminated mudstone.	16910	73.40	74.65	1.25				35		0.01
			16911	74.65	75.90	1.25				35		0.02
75.95	77.20	GRAYWACKE Moderately sericitic, yellow-grey graywacke, sheared @ 45° tca.	16912	75.90	77.20	1.30				35		0.01
77.20	86.30	CONGLOMERATE Sheared, strongly sericitic, polymictic pebble conglomerate. Stretched bleached clasts in sericitic graywacke matrix, stretch ratios of 10-20 : 1 except for rounded quartz pebbles which are undeformed. Shearing @ 60° tca. marked by straw-yellow sericitic slips and occasionally bright green fuchitic slips. 1-2%, 1-4cm, irregular, white, boudinaged quartz vein fragments with trace pyrite along selvages.	16913	77.20	78.00	0.80		Tr.	1-2	35		0.02
			16914	78.00	79.00	1.00		Tr.	1-2	35		0.03
			16915	79.00	80.00	1.00		Tr.	1-2	35		0.08
			16916	80.00	81.00	1.00		Tr.	1-2	35		0.04
			16917	81.00	82.00	1.00		Tr.	1-2	35		0.03

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-06

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
86.30	90.80	GRAYWACKE Strongly sericitic, sheared grey-yellow graywacke. Upper contact gradational with conglomerates and interbedded, sheared mudstones and siltstones to 86.40. Sheared @ 60° tca.. 1%, 0.5-1.0cm, white, barren, boudinaged quartz veins @ 60° tca.	16918	82.00	83.00	1.00		Tr.	1-2	35		0.08
			16919	83.00	84.00	1.00		Tr.	1-2	35		0.17
			16920	84.00	85.00	1.00		Tr.	1-2	35		0.12
			16921	85.00	86.00	1.00		Tr.	1-2	35		0.11
			16922	86.00	87.00	1.00		Tr.	1-2	15		0.02
90.80	93.80	MUDSTONE/GRAYWACKE/CONGLOMERATE Interbedded, sericitic and chloritic mudstone, sericitic graywacke and conglomerate units, 5-10cm wide, with 15% irregular, drag-folded, 0.5-5cm wide, white, quartz veining with traces of pyrite along margins. Sheared @ 60-65° tca.	16923	87.00	88.00	1.00			1	35		NIL
			16924	88.00	89.00	1.00			1	35		0.01
			16925	89.00	90.00	1.00	80		1	35		0.01
			16926	90.00	90.80	0.80			1	35		0.01
			16927	90.80	91.60	0.80		Tr.	10	10		0.02
93.80	107.75	MUDSTONE Sheared, chloritic, sericitic, laminated mudstone with 10-20cm wide, sheared interbedded graywacke and conglomerate beds. Sheared @ 60° tca.	16928	91.65	91.90	0.25		Tr.	20	15	Chl	0.05
			16929	92.40	93.20	0.80		Tr.	10	5		0.09
			16930	93.20	93.80	0.60		Tr.	5	15		0.01
93.80	107.75	MUDSTONE Sheared, chloritic, sericitic, laminated mudstone with 10-20cm wide, sheared interbedded graywacke and conglomerate beds. Sheared @ 60° tca.	16931	93.80	94.50	0.70		Tr.	1	20		0.01
			16932	94.50	95.50	1.00				20		0.01
			16933	95.50	96.50	1.00				20		0.01
			16934	96.50	97.50	1.00			5	20		0.01
			16935	97.50	98.50	1.00				20		0.01

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-07

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PROPERTY	Kirkland Gold Rand	DATE LOGGED	July 8 - 10, 1991	EASTING	9850
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10185
CLAIM No.	L 1111453	SIGNED BY	<i>[Signature]</i>	ELEVATION	
STARTED	July 7, 1991	DRILLED BY	Heath & Sherwood	LENGTH	252.1
COMPLETED	July 10, 1991	SURVEYED BY		UNITS	metres
PURPOSE	To test sericite alteration zone at 103 N.	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	Casing pulled. No anomalous assays.				

DEPTH	AZIMUTH	DIP
Collar	341	45
14.00		45
47.50		43
93.00		42
137.00		40
185.00		38
247.00		37

SUMMARY LOG

ASSAY SUMMARY

INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 12.00	OVERBURDEN	154.00 176.25	CONGLOMERATE			
12.00 18.60	FAULT ZONE/GRAYWACKE/MUDSTONE Sheared @ 60° tca.	176.25 202.30	Chloritic			
18.60 33.50	SHEAR ZONE/CONGLOMERATE/GRAYWACKE Sheared @ 70° tca.	202.30 211.50	GRAYWACKE			
33.50 59.00	LAPILLI TUFF	211.50 234.00	MONOLITHIC LAPILLI TUFF			
59.00 70.80	BLOCK TUFF	234.00 252.10	ASH TUFF			
70.80 73.30	CONGLOMERATE		MONOLITHIC LAPILLI/BLOCK TUFF			
73.30 94.80	MONOLITHIC LAPILLI TUFF					
94.80 98.00	ASH TUFF		E. O. H.			
98.00 102.85	MUDSTONE/GRAYWACKE/CONGLOMERATE Sericitic					
102.85 105.00	SYENITE					
105.00 117.00	MUDSTONE/GRAYWACKE/CONGLOMERATE Sericitic					
117.00 140.30	CONGLOMERATE Sericitic to chloritic					
140.30 154.00	MUDSTONE/GRAYWACKE					

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-07

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
0.00	12.00	OVERBURDEN										
12.00	18.60	FAULT ZONE/GRAYWACKE/MUDSTONE Fault zone @ 60° tca. Sericite + chlorite ± quartz ± talc. Comprised of finely laminated, interbedded graywacke and mudstone; 7-% graywacke, 30% mudstone. Bedding or schistosity very fine, from ≤ 1mm to 3-4cm in width. Quite rubbly. Strong sericite ± talc slip planes throughout. Entire zones contain 0.5% irregular, boudinaged and fractured quartz veinlets. Small scale sinistral cross-faulting evident in places. (≤ 1cm movement)	16967	12.00	12.80	0.80				15-20	0.01	
			16968	12.80	13.50	0.70	85			15-20	0.01	
			16969	13.50	14.40	0.90	95			20-25	0.01	
			16970	14.40	15.00	0.60	75			30-40	0.01	
		15.00 - 15.15 Quartz + sericite vein, 5cm wide, blue-grey to white quartz ± albite vein, well fractured with interstitial wispy sericite.	16971	15.00	15.40	0.40	90		1	40-50	0.01	
			16972	15.40	16.00	0.60	60			50-60	0.01	
			16973	16.00	17.00	1.00	55		0.5	50-60	0.01	
			16974	17.00	18.00	1.00	65		0.5	50-60	NIL	
			16975	18.00	18.60	0.60	80				0.01	
18.60	33.50	MYLONIZED ZONE/CONGLOMERATE/GRAYWACKE Yellow-green, pervasively sericitized ground mass with 0.5% strongly elongated, fuchsite altered mafic clasts up to 1cm. Strong mylonitic fabric @ 70° tca comprised of 15-20% stretched and boudinaged quartz veining + pods and eyes giving unit a pseudo-augen texture. Trace, coarse, euhedral pyrite scattered throughout.	16976	18.60	19.00	0.40		Tr.	15-20	70	0.01	
			16977	19.00	19.50	0.50		Tr.	10-15	70	NIL	
		19.50 - 22.30 Mylonized unit grades from predominately sericitic to chlorite + hematite assemblage but maintains moderate to strong mylonitic texture. At 22.0m, small scale folding apparent. Strongly crenulated with boudinaged quartz veining.	16978	19.50	20.10	0.60		Tr.	5	15	0.01	
			16979	20.10	21.00	0.90		Tr.	1	10	NIL	
			16980	21.00	21.70	0.70		Tr.	<1	10	0.01	
			16981	21.70	22.30	0.60		Tr.	5	10-20	0.01	
		22.30 - 24.50 Sheared, mylonized, sericitic graywacke. Light grey to yellow, pervasively sericitized with strong foliation @ 60-65° tca and prominent crenulation cleavage @ 35° tca. Trace euhedral pyrite cubes to 3-4mm.	16982	22.30	23.00	0.70		Tr.	1-2	60-70	0.01	
			16983	23.00	24.00	1.00		Tr.	2-3	60-70	0.01	
			16984	24.00	24.50	0.50		Tr.	2-3	60-70	0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		24.50 - 25.40	16985	24.50	25.40	0.90			2-3	30-40	0.03	
		25.40 - 25.50	16986	25.40	26.00	0.60		Tr.	10-15	25	0.01	
			16987	26.00	27.00	1.00			1	25	0.02	
			16988	27.00	27.50	0.50					0.01	
		25.50 - 27.50										
		27.50 - 33.00	16989	27.50	28.00	0.50		Tr.	10-15	65	0.02	
			16990	28.00	28.80	0.80		Tr.	10-15	65	0.02	
			16991	28.80	29.50	0.70			2-3	65	0.02	
		27.50 - 28.80	16992	29.50	30.00	0.50			1-2	60-70	0.01	
			16993	30.00	31.00	1.00		Tr.		60-70	0.01	
			16994	31.00	32.00	1.00		Tr.		60-70	0.01	
			16995	32.00	33.00	1.00		Tr.		40-50	NIL	
		33.00 - 33.50	16996	33.00	33.50	0.50				10-15	0.01	
33.50	59.00	LAPILLI TUFF Massive to moderately well foliated @ 55° tca. Comprised of poorly sorted angular to sub-rounded clasts from 3mm to 5cm which are red syenite, brown trachyte and minor dark, aphanitic mafic clasts. Ground mass is fine grained, dark green chloritic ash with little to no quartz, therefore not conglomerate. Strongly magnetic + in part intercalated with ash and block tuff horizons up to 1m. Unit looks quite conglomeratic, comprised of heterolithic rock fragments but contains very little quartz and is strongly magnetic (inter facies zone). Lower contact is gradational over 1m.	16997	33.50	34.50	1.00					NIL	
			16998	47.00	48.00	1.00					0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-07

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
73.70	94.80	<p>LAPILLI TUFF (MONOLITHIC) Massive to weakly foliated. Dark green, comprised of 5-10% elliptical lapilli clasts which are red-pink syenite/trachyte floating in a fine grained ash matrix. Moderately to strongly magnetic. Lower contact of unit is gradational over 1-2m.</p> <p>82.00 - 84.50 Series of hairline and cross-faults displaying small scale, sinistral displacement from 1mm to 0.5cm @ 10-20° tca.</p> <p>89.00 - 89.70 Fault @ 55° tca, chlorite + ankerite. Rubbly, open vuggy fault with strong ankeritic staining + sharp chloritic slips.</p>	7016	93.00	94.00	1.00					Chl + Hem	0.01
94.80	98.00	<p>ASH TUFF Very fine to fine grained ash tuff. Massive to well bedded @ 70° tca., Bedding ranges from a few mm's to 20cm's. Colour is variable from dark green to buff to purple where strongly hematitic. In places, 1-2% magnetite grains, up to 1m, are disseminated throughout the ash and occur as narrow bands up to 1mm wide. Lower contact is somewhat gradational.</p> <p>96.30 Strongly foliated to laminated shear-zone, 10cm wide, comprised of alternating hematitic bands, sericitic slips and boudinaged quartz veinlets.</p> <p>96.00 - 98.00 Unit becomes increasingly foliated and sericitized with strong hematization giving way to strong sericitization + patchy remnant hematite alteration.</p>	7017	94.00	95.00	1.00						0.01
			7018	95.00	96.00	1.00						0.02
			7019	96.00	96.50	0.50			<1	10		0.01
			7020	96.50	97.00	0.50			<1	10-15		0.02
			7021	97.00	98.00	1.00			<1	10-15		0.02
98.00	102.85	<p>MUDSTONE/GRAYWACKE Massive to well banded @ 60° tca. Comprised of finely intercalated mudstone 70% and graywacke 30% beds from 1-2mm wide. Grey-green to yellow-green, pervasively sericitized and contains < 1% barren quartz ± albite veinlets up to 2cm. Lower contact sharp and irregular.</p>	7022	98.00	99.00	1.00					50	0.01
			7023	99.00	100.00	1.00					50	0.01

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-07

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check		
		100.20	Fault @ 40° tca. Sericite + chlorite. Strong, sharp mud break, 0.5cm wide, with minor calcite flooding.		7024	100.00	100.70	0.70			1	50 +	0.01	
					7025	100.70	101.50	0.80					0.01	
					7026	101.50	102.00	0.50					0.01	
					7027	102.00	102.85	0.85			1	50 +	0.03	
102.85	105.00	SYENITE	Massive to weakly porphyritic with 1% subhedral, white plagioclase phenocrysts in a fine grained, very homogeneous, red ground mass. Unit is cut by 20% quartz stockwork which shows multi-generational quartz veining (± albite) and sericitization of syenitic host. All veins are non-mineralized and no appreciable sulphides are evident within the syenite. Lower contact very sharp @ 40°. Trace of pyrite at contacts.		7028	102.85	103.50	0.65			10-15	5-10	0.01	
					7029	103.50	104.00	0.50			5	5		NIL
					7030	104.00	104.50	0.50			5-7	5-10		NIL
					7031	104.50	105.00	0.50			10	5-10		0.01
105.00	107.00	MUDSTONE/GRAYWACKE	Well banded, finely laminated mudstone and graywacke beds from a few mm's to 0.5 metres wide. Pervasively sericitized (yellow-green) with minor barren quartz ± albite veinlets. Grades to sericitic conglomerates @ 107.00 metres.		7032	105.00	105.50	0.50		Tr.	4	50	NIL	
					7033	105.50	106.00	0.50						NIL
					7034	106.00	107.00	1.00						0.01
107.00	111.50	CONGLOMERATE	Moderately well foliated @ 50-55° tca. with strong mafic clast elongation parallel to foliation. Matrix supported, polymictic pebble conglomerate with strong sericite alteration of matrix. Lower contact sharp @ 60° tca.		7035	107.00	108.00	1.00					0.01	
					7036	108.00	109.00	1.00						0.01
					7037	109.00	110.00	1.00						0.03
					7038	110.00	111.00	1.00						0.03
					7039	111.00	111.50	0.50						NIL
111.50	117.00	MUDSTONE/GRAYWACKE	Rhythmically banded, mudstone/graywacke beds @ 65° tca. (1mm-5cm wide). Pervasively sericitized, yellow-green, very soft. Unit contains, 0.5 - 1%, white to blue-grey quartz veins, 2-4mm in width, distributed approximately every 0.5 metres and		7040	111.50	112.00	0.50			Tr.	50 +	NIL	
					7041	112.00	113.00	1.00						0.01
					7042	113.00	113.50	0.50			Tr.	1	50 +	0.01

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-07

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
117.00	140.30	subparallel to bedding. Trace pyrite mineralization present within and adjacent to these veinlets.	7043	113.50	114.00	0.50						NIL	
			7044	114.00	114.50	0.50		Tr.	Tr.		0.01		
			7045	114.50	115.00	0.50		Tr.	2	50 +	0.01		
			7046	115.00	116.00	1.00		Tr.	Tr.		0.01		
			7047	116.00	117.00	1.00		Tr.	Tr.		0.01		
		CONGLOMERATE											
		Well foliated @ 60-70° tca with strong elongation of sedimentary and mafic volcanic clasts. Matrix is pervasively sericitized with disseminated and wispy sericite. Although polymictic in nature, 70-80% of clasts present are red syenite/trachyte up to 1-cm in size, while remainder of clasts are only 1-3cm in size (bimodal sorting). Non-magnetic, non-mineralized, 1% late, barren quartz ± albite veining.			7048	117.00	118.00	1.00					0.02
					7049	118.00	119.00	1.00					0.03
					7050	119.00	120.00	1.00					0.02
					7051	120.00	121.00	1.00					0.03
					7052	121.00	122.00	1.00					0.03
					7053	122.00	123.00	1.00					0.01
				123.00 - 127.00 Unit becomes gradually less sericitic to increasingly chloritic.	7054	123.00	124.00	1.00					0.06
					7055	124.00	125.00	1.00					0.03
					7056	125.00	126.00	1.00					0.02
					7057	126.00	127.00	1.00					0.03
					7058	127.00	128.00	1.00					0.02
					7059	128.00	129.00	1.00					0.02
					7060	129.00	129.50	0.50					0.03
				129.50 Unit becomes strongly chloritic and well foliated with dark green-black wispy chloritic matrix wrapping around sub-rounded clasts. Strongly foliated to schistose fault zone. (North Harvey Fault?).	7061	129.50	130.00	0.50					0.02
					7062	130.00	131.00	1.00					0.02
					7063	131.00	132.00	1.00					0.02
					7064	132.00	133.00	1.00					0.02
					7065	133.00	134.00	1.00					0.01
					7066	134.00	135.00	1.00					0.03
					7067	135.00	136.00	1.00					0.02
					7068	136.00	137.00	1.00					0.02
		137.15 2cm wide white-grey, boudinaged quartz vein with 2% pyrite.	7069	137.00	137.50	0.50		Tr.	1		0.02		
			7070	137.50	138.50	1.00		Tr.	2-3		0.01		

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-08

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PROPERTY	Kirkland Gold Rand	DATE LOGGED	July 11 - 15, 1991	EASTING	10150
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	9825
CLAIM No.	L 1111442, L 1111441	SIGNED BY	<i>[Signature]</i>	ELEVATION	
STARTED	July 10, 1991	DRILLED BY	Heath & Sherwood	LENGTH	306.8
COMPLETED	July 14, 1991	SURVEYED BY		UNITS	metres
PURPOSE	To test VLF-EM anomaly and Larder Lake Break.	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	Casing pulled.				

DEPTH	AZIMUTH	DIP
Collar	341	45
46.00		45
91.40		44
137.00		42
183.00		41
230.00		40
300.00		39

SUMMARY LOG

ASSAY SUMMARY

INTERVAL		DESCRIPTION	INTERVAL		DESCRIPTION	INTERVAL		LENGTH	AVERAGE
From	To		From	To		From	To		
0.00	13.10	OVERBURDEN	171.20	180.50	IRON FORMATION/SEDIMENTS				
13.10	14.45	GREEN CARBONATE, LARDER LAKE GROUP			Magnetic, potassic alteration, trace pyrite.	142.00	143.00	1.00	0.14
14.45	15.00	GRAPHITIC SEDIMENT	180.50	188.00	MAFIC VOLCANICS/TUFFS/SEDIMENTS	145.50	146.00	0.50	0.23
15.00	17.00	GREEN CARBONATE			Magnetic, massive to well laminated.	148.50	149.00	0.50	0.30
17.00	18.20	GREY FELSITE DYKE	188.00	194.20	ULTRAMAFIC VOLCANIC/SEDIMENT	152.00	153.00	1.00	0.12
18.20	23.50	BROWN CARBONATE			Massive to well laminated @ 80° tca.	178.00	179.00	1.00	0.19
23.50	32.20	GREEN CARBONATE			Trace -1% pyrite.	219.00	220.00	1.00	0.16
32.20	35.60	INTERFLOW SEDIMENT	194.20	203.00	GREEN-BROWN CARBONATE/ULTRAMAFIC	229.00	231.00	2.00	0.17
35.60	52.60	MAFIC VOLCANIC			VOLCANIC	244.00	245.00	1.00	0.11
52.60	53.65	IRON FORMATION/INTERFLOW SEDIMENT	203.00	293.00	GRAYWACKE/MUDSTONE/CONGLOMERATE,				
		Magnetic			TIMISKAMING GROUP				
53.65	57.20	FELSITE/SYENITE DYKE			Weakly to strongly sericitic				
57.20	57.50	IRON FORMATION/INTERFLOW SEDIMENT	293.00	306.80	CONGLOMERATE/GRAYWACKE				
57.50	140.20	MAFIC/ULTRAMAFIC VOLCANIC							
140.20	141.20	CONTACT ZONE/IRON FORMATION							
		Mylonite, silicified 1-2% pyrite							
141.20	171.20	SYENITE	306.80		E. O. H.				
		Magnetic, trace -1% pyrite.							

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-08

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
0.00	13.10		OVERBURDEN									
13.10	14.45	GREEN CARBONATE, LARDER LAKE GROUP Carbonate + fuchsite + quartz. Moderately strong, fuchsite altered ultramafic. Dark grey to bright green with weak to moderate pervasive silicification and 5% white quartz veinlets. Matrix is a very fine grained mafic/ultramafic volcanic (yellow-green) with 10-15% carbonate ± chlorite filled fracturing (polysuturing?) giving unit a pseudo-brecciated appearance. Minor pyrite evident on fracture planes. Weak foliation (fracturing) developed @ 25° tca.	7095	13.10	14.00	0.90	75	Tr.	3-5		0.01	NIL
			7096	14.00	14.40	0.40						
14.45	15.00	GRAPHITIC SEDIMENT Aphanitic, dark grey-black, finely laminated graphitic argillite. Moderately silicified. Displays small scale micro-folding. Upper contact, sharp and somewhat irregular. Unit contains 5% fine grained, sub to euhedral pyrite cubes which occur as small veinlets (hair-line), anastomosing masses and small pyrite "dollars" which extends for 5cm into surrounding carbonates.	7097	14.40	15.00	0.60		5	1		0.02	
15.00	17.00	GREEN CARBONATE Fuchsite + quartz + carbonate. Bright green fuchsite + quartz altered ultramafic. Moderately silicified matrix displaying weak polysuturing or "crack and seal" texture. 5% white to blue-grey quartz veinlets, two generations, which carry patchy, minor pyrite. Some open, ankerite stained fractures are evident.	7098	15.00	16.00	1.00		Tr.	5		NIL	
			7099	16.00	17.00	1.00		Tr.	5		NIL	
17.00	18.20	GREY FELSITE DYKE Unit is massive, greyish-brown, very hard and comprised of 5% subhedral, semi-prismatic, up to 1mm, chloritized hornblende laths, in a very fine to aphanitic, grey ground mass. 0.5% late, barren, quartz veinlets. Upper and lower contacts are sharp and marked by 1-2cm wide quartz veins with 1-3% medium grained euhedral, cubic pyrite.	7100	17.00	17.50	0.50		Tr.	0.5		NIL	
			7101	17.50	18.20	0.70		Tr.	0.5-1		0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-08

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
35.60	34.80 - 35.60	Unit becomes somewhat sericitic + fuchsitic altered with finely banded laminae, possibly ultramafic.	7121	34.20	35.00	0.80		1-2				0.04
			7122	35.00	35.60	0.60		Tr.		Sil		0.01
	MAFIC VOLCANIC (Fe-Tholeiite) Massive, fine grained, medium green, chloritic, mafic volcanic. Pervasive carbonate (calcite) alteration in the form of white ground mass and as white spots (snowflake) which gives unit an overall spotted appearance. Carbonitization also occurs as small calcite veinlets and stringers up to 0.5cm wide. Unit is moderately magnetic and carries minor, euhedral cubic pyrite. In places, moderately developed foliation @ 35° tca. and crenulated fabric.	47.50 - 51.00	Unit contains 5% red-pink syenitic(?) veinlets which have buff-brown alteration halos up to 1-2cm wide totally recrystallizing surrounding volcanics. Appears partially digested in places.	7123	35.60	36.00	0.40		Tr.	5		0.01
				7124	36.00	37.00	1.00					0.01
				7125	37.00	38.00	1.00					0.01
				7126	38.00	39.00	1.00					0.01
				7127	39.00	40.00	1.00					0.02
				7128	40.00	41.00	1.00					0.01
				7129	41.00	42.00	1.00		Tr.			0.01
				7130	42.00	43.00	1.00					0.01
				7131	43.00	44.00	1.00					0.01
				7132	44.00	45.00	1.00					NIL
				7133	45.00	46.00	1.00					NIL
				7134	46.00	47.00	1.00					0.01
				7135	47.00	48.00	1.00					NIL
				7136	48.00	49.00	1.00		Tr.	2-3		0.01
				7137	49.00	50.00	1.00		Tr.	2-3		0.03
				7138	50.00	51.00	1.00					NIL
				7139	51.00	52.00	1.00					0.01
				7140	52.00	52.60	0.60		Tr.	2-3		NIL
52.60	53.65	IRON FORMATION/INTERFLOW SEDIMENT Magnetite + sericite + hematite. Very fine grained to aphanitic, massive to weakly bedded. Displays irregular patchy alteration fronts, comprised of dark purple, hematized magnetite + semi-massive magnetite and light green sericitic, non-magnetic, alteration. Very patch-work texture. Strong, patchy magnetics.	7141	52.60	53.00	0.40					0.01	
			7142	53.00	53.70	0.70					0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-08

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
53.65	57.20	FELSITE (SYENITE) DYKE Massive, light buff to reddish-purple, with irregular patchy hematite alteration. Very inhomogeneous and variable in colour and texture from non-crystalline grey-white to totally hematized. Appears to include digested, recrystallized volcanics. Unit has 0.5-1% disseminated subhedral pyrite and 3% barren quartz veinlets. Contacts are sharp, irregular, intrusive type.	7143	53.70	54.50	0.80		0.5-1	3		0.01	
			7144	54.50	55.00	0.50		0.5-1	3		NIL	
			7145	55.00	56.00	1.00		Tr.	3		NIL	
			7146	56.00	56.50	0.50					0.01	
			7147	56.50	57.20	0.70		0.5-1	3		0.01	
57.20	57.50	IRON FORMATION/INTERFLOW SEDIMENT Well banded, finely laminated sediment comprised of alternating, mudstone, siltstone and magnetite layers (10%). Well bedded @ 65° tca. Upper contact is quite silicified and carries 2% pyrite over 3-4cm.	7148	57.20	57.50	0.30		1			NIL	
57.50	140.20	MAFIC/ULTRAMAFIC VOLCANIC Massive, homogeneous, medium-green, very fine grained mafic volcanic. Displays some laminated light green alteration (fabric) possibly marking remnant pillow selvages which have been somewhat sheared. Pervasively carbonitized with ubiquitous calcite in matrix and as small veinlets. Trace sub to euhedral pyrite throughout. Patchy weak magnetics. 78.50 - 82.00 Unit becomes somewhat coarser grained, weakly magnetic - possible flow centre. Pillow selvages are light green, sheared and typically silicified although barren.	7149	57.50	58.00	0.50					0.01	
			7150	58.00	59.00	1.00					0.01	
			7151	59.00	60.00	1.00					0.01	
			7152	60.00	60.50	0.50		Tr.			0.01	
			7153	60.50	61.00	0.50		Tr.			0.01	
			7154	61.00	62.00	1.00					NIL	
			7155	62.00	63.00	1.00					0.01	
			7156	63.00	64.00	1.00					0.01	
			7157	64.00	65.00	1.00					0.01	
			7158	65.00	66.00	1.00					0.01	
			7159	66.00	67.00	1.00					0.01	
			7160	67.00	68.00	1.00					0.01	
			7161	99.50	100.00	0.50					0.01	
7162	100.00	101.00	1.00		Tr.	3-5		NIL				
7163	101.00	102.00	1.00					NIL				

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-08

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
			7164	102.00	103.00	1.00						0.02
			7165	103.00	103.50	0.50						NIL
			7166	103.50	104.00	0.50						NIL
			7167	104.00	105.00	1.00						0.01
			7168	105.00	106.00	1.00						0.01
			7169	106.00	107.00	1.00						NIL
			7170	107.00	108.00	1.00						0.02
			7171	108.00	109.00	1.00						0.01
		108.20 Spinifex texture.	7172	109.00	109.50	0.50		1	3			0.02
		109.20 - 110.20 Unit contains 3-4, up to 2cm wide, irregular quartz + calcite veinlets with 3% pyrite as vein boundaries.	7173	109.50	110.20	0.70		1	3			0.05
			7174	110.20	110.65	0.45						0.01
		110.80 - 111.15 Porphyry dyke. Light greyish-brown, very fine grained syenite(?) with 1% euhedral plagioclase phenocrysts up to 2mm. Ubiquitous calcite in matrix. Contains 1% disseminated subhedral pyrite. Sharp, irregular contacts.	7175	110.65	111.15	0.50						0.01
			7176	111.15	112.00	0.85		1				0.02
			7177	112.00	113.00	1.00						0.01
			7178	113.00	114.00	1.00		Tr.	1			0.03
		130.00 - 140.20 Unit becomes increasingly deformed and foliated @ 50-65° tca. as defined by wispy chlorite ± sericite and stretched pillows. Pervasive, strong carbonitization (calcite). Narrow syenite dykelets, up to 5cm, intruding volcanics and constituting 5% of volume which gives unit a gneissic texture in places.	7179	130.00	131.00	1.00						NIL
			7180	131.00	132.00	1.00						0.01
			7181	132.00	133.00	1.00						0.02
			7182	133.00	134.00	1.00						0.01
			7183	134.00	135.00	1.00						0.02
			7184	135.00	135.50	0.50		Tr.	1			0.02
			7185	135.50	136.00	0.50						0.02
			7186	136.00	137.00	1.00						0.01
			7187	137.00	138.00	1.00						NIL
			7188	138.00	139.00	1.00						NIL
			7189	139.00	139.50	0.50		Tr.				0.01
			7190	139.50	140.20	0.70		Tr.				NIL

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-08

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS						
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check			
	148.60 - 148.90	Quartz veining. White to grey irregular quartz vein @ 20° tca. Pseudo-brecciated syenite and 0.5% dissemination pyrite in vein. Syenite proximal to vein carries 0.5-1% subhedral pyrite grains.	7202	148.50	149.00	0.50		0.5-1	5		0.30				
			7203	149.00	150.00	1.00		Tr.			0.08				
			7204	150.00	151.00	1.00		Tr.			0.04				
			7205	151.00	152.00	1.00		Tr.			0.06				
			7206	152.00	153.00	1.00		Tr.			0.12				
			7207	153.00	154.00	1.00		Tr.			0.01				
			7208	154.00	155.00	1.00		Tr.			0.01				
			7209	155.00	156.00	1.00		Tr.			0.01				
			7210	156.00	157.00	1.00		Tr.			0.02				
			7211	157.00	158.00	1.00		Tr.			0.01				
			7212	158.00	159.00	1.00		Tr.			NIL				
				159.30 - 159.60	Silicified, brecciated syenite. 5cm wide brecciated syenite, fractured by dark hard chlorite + quartz ± magnetite. This leads to a reddish-brown, aphanitic, silicified section which is fractured (pseudo-brecciated) by quartz + chlorite ± magnetite fracture planes. Very minor pyrite.	7213	159.00	159.70	0.70		1		Sil	0.01	
						7214	159.70	160.65	0.95					0.04	
160.65	162.40	IRON FORMATION Banded sediment @ 80° tca. Very fine grained, rhythmically layered sediment comprised of light buff quartzose bands and dark green chloritic bands. Very hard and pervasively silicified. Strongly magnetic due to fine intercalated magnetite beds up to 3mm wide. Frequently bedding is contorted and crenulated. Upper contact sharp. Lower contact gradational and partly digested.	7215	160.65	161.50	0.85					0.01				
			7216	161.50	162.40	0.90					0.01				
162.40	171.20	SYENITE Massive to weakly porphyritic, red-brown, fractured syenite. Magnetic due to magnetite + quartz filled fractures. Lower contact of unit is sharp and very irregular.	7217	162.40	163.00	0.60					0.01				
			7218	163.00	164.00	1.00					0.05				

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-08

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au,Check	
188.00	194.20	very sharp @ 80° tca.	7245	185.00	186.00	1.00					NIL		
			7246	186.00	187.00	1.00					0.01		
			7247	187.00	188.00	1.00					0.01		
		ULTRAMAFIC VOLCANIC											
		Massive to laminated, comprised of light green (weakly fuchsitic) bands up to 3-4mm wide which are folded and disrupted in a very fine grained to aphanitic, dark green chloritic ground mass. Foliation @ 50° to 60° tca. Contains 5% irregular, barren quartz veins. Typically non-magnetic.		7248	188.00	189.00	1.00		Tr.			0.01	
			7249	189.00	190.00	1.00		Tr.			0.01		
		190.00 - 191.60	Unit contains 1% coarse grained, euhedral pyrite cubes and masses which appear to be secondary.	7250	190.00	191.00	1.00		1	1		0.02	
		192.10 - 192.80	Strongly magnetic horizon of very fine grained, green-brown sediment (?) with 0.5% disseminated pyrite.	7251	191.00	192.00	1.00		Tr.-1	1		0.02	
				7252	192.00	193.00	1.00		0.5			0.01	
				7253	193.00	194.00	1.00					NIL	
194.20	203.00	ULTRAMAFIC VOLCANIC											
		Chlorite + quartz + carbonate + fuchsite ± talcose.		7254	194.00	195.00	1.00					NIL	
		Light to dark green to black, very soft chloritic with irregular quartz veining and pods (up to 10%) and semi-massive to banded fuchsite alteration. Moderately well foliated @ 55° tca. with talcose slips. Moderate pervasive carbonitization (calcite).		7255	195.00	196.00	1.00					NIL	
			7256	196.00	197.00	1.00					NIL		
			7257	197.00	198.00	1.00					NIL		
			7258	198.00	199.00	1.00					0.02		
		200.10 - 200.90	Light brown aphanitic unit, very hard, weakly foliated @ 55° tca. Possible felsite dyke. Lower contact very sharp, talcose slip @ 40° tca.	7259	199.00	200.00	1.00					0.01	
				7260	200.00	201.00	1.00					0.01	
				7261	201.00	202.00	1.00					0.01	
		200.90 - 203.00	Strongly fuchsitic (bright green) altered ultramafic with 15% barren quartz veinlets and talcose, chloritic slips (green carbonate). Lower contact is bleached, fractured and silicified, buff-brown to yellowish and ends abruptly at a sharp graphitic slip @ 80° tca. which is 1-2mm wide.	7262	202.00	202.50	0.50					0.08	
		7263	202.50	203.00	0.50					0.04			

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
203.00	293.00	GRAYWACKE/MUDSTONE, TIMISKAMING GROUP										
		203.00 - 207.00 Moderately to strongly sericitized, sheared graywacke (quartz-arenite) with sharp sericitic slips and 3% stretched boudinaged quartz veins up to 1cm parallel to foliation @ 70°	7264	203.00	204.00	1.00		Tr.				0.04
			7265	204.00	205.00	1.00		Tr.				0.04
			7266	205.00	206.00	1.00		Tr.				0.06
			7267	206.00	207.00	1.00		Tr.				0.03
		207.00 - 293.00 Unit is very homogeneous, very clean, well sorted graywacke. Light grey-green, very fine grained, moderately well foliated @ 70-75° tca. Comprised of 10-15% fine quartz grains up to 1-2mm and the occasional quartz pebble to 1cm in a very fine ground mass. Sericite alteration is weak to moderate and consists of fine wisps and foliation planes and as pervasively sericitized mudstone. Unit as a whole has 1-3% pervasive quartz veinlets (1-5mm) parallel to foliation and frequently carrying fine pyrite on vein boundaries and trace pyrite disseminated. Unit is in part intercalated with narrow, oligomictic quartz pebble conglomerate horizons up to 1.0m wide and very patchy.	7268	207.00	208.00	1.00		Tr.				0.04
			7269	208.00	209.00	1.00		Tr.				0.04
			7270	209.00	210.00	1.00		Tr.				0.05
			7271	210.00	211.00	1.00		Tr.				0.08
			7272	211.00	212.00	1.00		Tr.				0.06
			7273	212.00	213.00	1.00		Tr.				0.07
			7274	213.00	214.00	1.00		Tr.				0.09
			7275	214.00	215.00	1.00		Tr.				0.06
			7276	215.00	216.00	1.00		Tr.				0.07
			7277	216.00	217.00	1.00						0.04
			7278	217.00	218.00	1.00						0.01
			7279	218.00	219.00	1.00						0.06
			7280	219.00	220.00	1.00						0.16
			7281	220.00	221.00	1.00						0.07
			7282	221.00	222.00	1.00						0.05
			7283	222.00	223.00	1.00						0.04
			7284	223.00	224.00	1.00						0.03
		224.30 - 225.50 Fault-breccia zone @ 60° tca. Buff-brown to black (chlorite + sericite) siliceous groundmass brecciated graywacke with angular, silicified host rock fragments up to 1cm. Strong chloritic slips throughout.	7285	224.00	225.00	1.00				5	Sil	NIL
			7286	225.00	225.50	0.50					Sil	0.03
			7287	225.50	226.00	0.50						0.04
			7288	226.00	227.00	1.00						0.05
			7289	227.00	228.00	1.00						0.04
		228.75 - 228.85 Blue-grey quartz vein with interstitial sericitic graywacke and fine sericitic fractures with 1% pyrite.	7290	228.00	228.50	0.50						0.06
			7291	228.50	229.00	0.50		1	5	20		0.06
			7292	229.00	230.00	1.00						0.12

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-08

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INTERVAL		DESCRIPTION	SAMPLE						ASSAYS						
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check			
293.00	306.80	231.10 - 231.75 Fault @ 75° tca. Sericite + chlorite + quartz. Strongly sericitized, deformed, sheared to brecciated graywacke with 5% barren white to grey quartz veining.	7293	230.00	231.00	1.00						0.21			
			7294	231.00	232.00	1.00						0.06			
			7295	232.00	233.00	1.00				5	30		0.03		
			7296	233.00	234.00	1.00							0.03		
			7297	234.00	235.00	1.00							0.05		
			7298	235.00	236.00	1.00							0.02		
			7299	236.00	237.00	1.00							0.03		
			7300	237.00	238.00	1.00				Tr.			0.02		
			7301	238.00	239.00	1.00				Tr.			0.03		
			7302	239.00	240.00	1.00							0.02		
			7303	240.00	241.00	1.00							0.01		
			7304	241.00	242.00	1.00							0.04		
			7305	242.00	243.00	1.00							0.03		
			7306	243.00	244.00	1.00							0.02		
			7307	244.00	245.00	1.00							0.11		
					268.30	Fault @ 75° tca, strong, tight sericite + mud gouge break. Barren, non-mineralized.									
					CONGLOMERATE	Well foliated to schistose @ 70° tca. with numerous sericitic slips. Unit is an oligomictic (predominantly) quartz pebble conglomerate with 5-10% rounded grey-white quartz (± quartz porphyry) clasts in a very fine grained graywacke matrix which is sericitized with fine wispy sericite. In part intercalated with massive graywacke beds up to 1.0m wide.									
		306.80	END OF HOLE												

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-09

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PROPERTY	Kirkland Gold Rand	DATE LOGGED	July 16 - 19, 1991	EASTING	10650
TOWNSHIP	Teck	LOGGED BY	Mark Masson	NORTHING	10112
CLAIM No.	L 1111439	SIGNED BY	<i>[Signature]</i>	ELEVATION	
STARTED	July 15, 1991	DRILLED BY	Heath & Sherwood	LENGTH	265.0
COMPLETED	July 18, 1991	SURVEYED BY		UNITS	metres
PURPOSE	To test low magnetic anomaly at 10175N to 10375N.	CORE LOCATION	K.L. Warehouse	CORE SIZE	NQ
COMMENTS	Anomaly due to sheared, sericitic sediments.				

DEPTH	AZIMUTH	DIP
Collar	341	45
47.50		44
93.00		43
139.00		41
185.00		40
229.00		38

SUMMARY LOG

ASSAY SUMMARY

INTERVAL		DESCRIPTION	INTERVAL		DESCRIPTION	INTERVAL		LENGTH	AVERAGE
From	To		From	To		From	To		
0.00	2.40	OVERBURDEN			Sheared, chloritic.				
2.40	47.60	MAFIC VOLCANIC, LARDER LAKE GROUP	223.70	227.00	MUDSTONE	28.30	31.50	3.20	0.23
		28.30 - 41.60 Altered, deformed, silicified			Strongly sheared @ 75° tca, sericitic	42.50	47.00	4.50	0.14
		41.60 - 45.00 Bleached, sericitic	227.00	232.00	ASH TUFF	57.00	57.65	0.65	0.10
		45.00 - 47.60 Silicified, brecciated			Foliated, weakly sericitic	156.00	161.00	5.00	0.11
47.60	47.70	FAULT, MUD GOUGE, LARDER LAKE FAULT	232.00	265.00	LAPILLI TUFF/ASH TUFF				
47.70	58.00	GRAYWACKE, TIMISKAMING GROUP							
		Sericitic, foliated @ 75-80° tca							
58.00	138.20	GRAYWACKE/CONGLOMERATE		265.00	E. O. H.				
		Massive to weakly foliated.							
138.20	152.40	MUDSTONE/SILTSTONE/GRAYWACKE							
152.40	170.00	CONGLOMERATE							
		Strongly foliated, sericitic.							
170.00	196.00	MUDSTONE/SILTSTONE							
		Sheared, chloritic.							
196.00	205.70	GRAYWACKE							
		Sheared, sericitic.							
205.70	223.70	MUDSTONE/SILTSTONE							

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-09

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
0.00	2.40	OVERBURDEN										
2.40	28.30	MAFIC VOLCANIC (BASALT)-LARDER LAKE GROUP Massive, very fine grained, medium green, often displays a pseudo-brecciated "crack + seal" texture with angular (often rectangular) fragments (in situ) of basalt cut by dark green, chloritic sutures. Weak to moderate carbonitization (calcite) within matrix and 1-2% late calcite veining from 0.5mm to 1cm wide. Patchy weak magnetics and trace pyrite.	7308	16.00	17.00	1.00		Tr.				0.01
			7309	17.00	18.00	1.00						NIL
			7310	18.00	18.50	0.50		Tr.	1			0.01
			7311	18.50	19.00	0.50						NIL
			7312	19.00	20.00	1.00						NIL
			7313	20.00	21.00	1.00						NIL
			7314	21.00	22.00	1.00						NIL
			7315	22.00	22.50	0.50						0.01
		22.70 - 22.90 Pseudo-brecciated zone with strong calcite veining + flooding and irregular quartz + calcite veining (2-3%) with 0.5-1% fine grained, subhedral pyrite within veins. Contacts are sharp, strong chloritic slips @ 55-75° tca.	7316	22.50	23.00	0.50		0.05	1		Cal	0.03
			7317	23.00	24.00	1.00						NIL
			7318	24.00	25.00	1.00						NIL
			7319	25.00	26.00	1.00						NIL
			7320	26.00	27.00	1.00						NIL
			7321	27.00	27.50	0.50						0.01
			7322	27.50	28.30	0.80						NIL
28.30	47.60	MAFIC VOLCANIC/BASALT Altered-deformed basalt. Sericite + chlorite + quartz. Highly altered and deformed zone consisting of patchy, mottled, sericite ± silica. Altered basalt, displaying both sharp + diffuse bleaching (yellow-green) alteration fronts frequently associated with veining (as halos). Quartz veining is white to buff to brown and very irregular in nature and generally barren of sulphides, (multi-generational).										
		28.30 - 29.60 Moderately silicified (patchy) basalt displaying brecciated, bleached mafic volcanic clasts and highly contorted laminae. Zone contains 1% finely disseminated pyrite within the patchy, bleached silicified zones.	7323	28.30	29.00	0.70		1	10	15		0.24
			7324	29.00	29.60	0.60		1	10	15		0.50
			7325	29.60	30.30	0.70		Tr.	5-10			0.09
			7326	30.30	31.00	0.70		Tr.	3-5			0.08

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-09

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
	31.10 - 31.30	Quartz + chlorite breccia vein, 2-3cm wide. Black quartz + chlorite breccia vein with angular wall rock inclusions. Trace pyrite on vein walls and penetrating wall rock.	7327	31.00	31.50	0.50		Tr.	3-5	Breccia	0.32	
			7328	31.50	32.50	1.00			2-3		0.03	
	32.65 - 32.67	Quartz + chlorite breccia vein @ 45° tca. 2cm wide grey-black breccia vein with buff-brown, angular volcanic fragments to 0.5cm. Minor subhedral pyrite on vein boundary.	7329	32.50	33.00	0.50		Tr.	1-2		0.04	
			7330	33.00	34.00	1.00			1	0.02		
			7331	34.00	35.00	1.00				0.07		
			7332	35.00	35.50	0.50		Tr.	3-5	0.01		
			7333	35.50	36.00	0.50				NIL		
			7334	36.00	37.00	1.00				0.01		
	37.50 - 47.60	Strong, pseudo-brecciated "crack + seal" texture developed with pale green (bleached) angular volcanics (in situ) ore cracked and separated by dark green chlorite ± quartz sutures.	7335	37.00	38.00	1.00					0.01	
			7336	38.00	39.00	1.00				0.01		
			7337	39.00	40.00	1.00			1-2	0.07		
			7338	40.00	41.00	1.00				0.02		
			7339	41.00	41.60	0.60				0.01		
			7340	41.60	42.50	0.90				0.01		
	41.60 - 45.00	Weak-moderate silicification. Zone is quite massive, bleached light yellow-green and pervasively sericitized. Primary textures are obliterated. Silicification occurs as small irregular white to grey veinlets and as patchy flooding which gradually increases to approximately 45.0m where silicification is prevalent. Very minor pyrite evident in a few quartz veinlets.	7341	42.50	43.00	0.50		Tr.	1-2	Lots	0.13	
			7342	43.00	44.00	1.00					0.09	
			7343	44.00	45.00	1.00					0.09	
			7344	45.00	46.00	1.00		Tr.	1-2		Sil	0.16
	45.00 - 47.60	Dirty brown-green, very mottled, fractured to brecciated texture which in turn has been pervasively silicified. Minor, weak fuchsite alteration. Breccia appears as a "crack and seal" type as seen in previous basalts with a strong silica overprinting. 1-2% barren white quartz veins. Very minor, disseminated pyrite.	7345	46.00	47.00	1.00		Tr.	1-2	Sil	0.21	
			7346	47.00	47.60	0.60		Tr.	1-2	Sil	0.01	
47.60	47.70		FAULT-MUD GOUGE @ 90° TCA, LARDER LAKE FAULT 10cm wide strong fault gouge, semi-coherent and comprised of finely crushed rock fragments in a chloritic, mud gouge. Marks Timiskaming/Larder Contact.	7347	47.60	48.00	0.40			1	Fault Gouge	0.03

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-09

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check		
47.70	58.00	GRAYWACKE, TIMISKAMING GROUP Light grey-green, well foliated to schistose @ 75-80° tca with moderate sericite development as tight slips and wisps interstitial to fine grained graywacke beds(?)/horizons which range from a few mm's to 10-15cm's. Zone is weakly carbonitized (calcite) and contains 2-3% white quartz veinlets up to 2cm wide and minor scattered blue grey quartz veinlets. Section as a whole carries trace-0.5% pyrite. Graywacke beds are quite clean, well sorted and comprised of 10-15% fine rounded quartz grains (≤ 1mm) in an aphanitic sericitized ground mass. Occasional quartz pebble fragment evident. Very minor jasper and lithic fragments.	7348	48.00	49.00	1.00		Tr.	Tr.	25		0.02		
			7349	49.00	50.00	1.00		Tr.	0.05				0.02	
			7350	50.00	50.50	0.50		0.05	0.05				0.01	
			7351	50.50	51.50	1.00		Tr.	0.05				0.01	
			50.30 - 50.32	2cm wide white quartz vein-sharp sericitic contacts, 0.5% pyrite adjacent to vein in sericitic graywacke.										
			51.70 - 51.90	Sheared, sericitized section with 0.5% pyrite on sericite slips and associated with very narrow (0.5-1mm) quartz veinlets parallel to schistosity @ 80°	7352	51.50	52.00	0.50		0.05	0.05	50 +		0.01
					7353	52.00	53.00	1.00						0.01
					7354	53.00	54.00	1.00						0.01
					7355	54.00	55.00	1.00		Tr.	0.05	40-50		0.02
					7356	55.00	56.00	1.00			0.05			0.01
					7357	56.00	57.00	1.00						0.01
			57.10 - 57.55	Strongly sheared, sericitized section with drag-folding and contorted, pygmatically folded, grey-white, quartz veining. Trace - 0.5% disseminated pyrite.	7358	57.00	57.65	0.65		0.05	1-2	40-50		0.10
			58.00	138.20	GRAYWACKE Massive to weakly foliated, weak to moderate spotty and wispy sericitization. Light grey green, comprised of finely intercalated graywacke (75%) and mudstone /sericitic-25%) horizons which range from a few mm's to 10-15cm wide. Graywacke portions are well sorted, very clean (arenaceous) and comprised of 10-15% rounded quartz grains, up to 1mm, in an aphanitic ground mass. Mudstone horizons are typically aphanitic, sericitized and frequently seen as small, angular chips within graywackes. A few pebble conglomerate horizons, ≤ 2m wide, are evident.	7359	57.65	58.50	0.85		Tr.	0.5		0.01
						7360	58.50	59.00	0.50					
7361	59.00	59.50				0.50		Tr.-0.5	1	20-30		0.03		
7362	59.50	60.00				0.50						NIL		
7363	60.00	61.00				1.00						NIL		
7364	61.00	62.00				1.00						0.02		
7365	62.00	63.00				1.00						0.02		

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

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INTERVAL		DESCRIPTION	SAMPLE							ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
			7394	102.00	103.00	1.00		Tr.	Tr.		0.01		
			7395	103.00	104.00	1.00					0.01		
	104.00 - 107.00	Sericitized, foliated to schistose zone with increasing deformation and alteration leading to a fault at 106.3.	7396	104.00	104.50	0.50					0.01		
			7397	104.50	105.00	0.50		Tr.	0.05		0.01		
			7398	105.00	105.50	0.50		Tr.	0.05		0.01		
			7399	105.50	106.00	0.50		0.05	2-3		0.06		
			7400	106.00	106.50	0.50		Tr.	0.05		0.01		
	106.30 - 106.50	Fault @ 70° tca.	7401	106.50	107.00	0.50		Tr.	Tr.		0.01		
	105.00 - 107.00	2% blue-grey quartz veinlets, up to 1cm wide, within strongly foliated sericitized sediments. Trace-0.5% pyrite on vein boundaries.	7402	107.00	108.00	1.00					NIL		
			7403	108.00	108.60	0.60					0.01		
	108.60 - 110.20	Pebble conglomerate horizon with gradational contacts. Primary clast types are quartz, quartz porphyry, and minor exotic fragments.	7404	108.60	109.50	0.90					0.01		
			7405	109.50	110.20	0.70					0.02		
			7406	110.20	111.00	0.80					0.01		
			7407	111.00	112.00	1.00					0.01		
			7408	112.00	113.00	1.00					0.01		
			7409	113.00	114.00	1.00					NIL		
	114.10		Fault @ 45° tca. Strong chloritic mud gouge fault zone infilled by late milk-white quartz + calcite veining.	7410	114.00	114.50	0.50					NIL	
				7411	114.50	115.00	0.50					NIL	
				7412	115.00	116.00	1.00		Tr.	0.05		0.09	
			7413	116.00	116.80	0.80					NIL		
	116.80 - 124.90	Unit takes on patchy, diffuse sericite alteration (patchwork texture) occurring as bleached halos proximal to quartz ± albite veinlets and as diffuse pervasive sericite bleaching. Section has 2% white quartz ± albite veinlets with trace pyrite.	7414	116.80	117.30	0.50		Tr.	1-2	30	NIL		
			7415	117.30	118.00	0.70		Tr.	1	15	0.01		
			7416	118.00	119.00	1.00					0.01		
			7417	119.00	120.00	1.00					0.01		
			7418	120.00	121.00	1.00		Tr.	1	10-15	0.02		
			7419	121.00	122.00	1.00					0.01		
			7420	122.00	123.00	1.00					0.01		
			7421	123.00	124.00	1.00					0.01		
			7422	124.00	124.90	0.90					NIL		
	124.90 - 125.00		Fault @ 65-70° tca. Schistose to laminated fault zone of layered	7423	124.90	125.50	0.60		Tr.	2	50	NIL	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-09

PAGE: 9 of 12

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS		
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check
		appearance due to prominent crosscutting foliation (shearing) @ 80° tca and a weaker crenulation cleavage @ 50-60° tca. Strong, slick chlorite slips throughout gives unit a "button" core characteristic. Unit as a whole has 1-2% barren white quartz vein up to 15cm wide. (avg. 1-2cm).	7473	170.00	171.00	1.00					0.01	
			7474	171.00	172.00	1.00					NIL	
			7475	172.00	173.00	1.00					0.01	
			7476	173.00	174.00	1.00					0.01	
		174.70 - 177.30 Sericitized, massive graywacke.	7477	174.00	174.70	0.70					0.01	
			7478	174.70	175.30	0.60					0.01	
			7479	175.30	176.30	1.00					0.01	
			7480	176.30	177.30	1.00					NIL	
			7481	177.30	178.00	0.70			2		NIL	
			7482	178.00	179.00	1.00					NIL	
			7483	179.00	180.00	1.00					0.01	
			7484	180.00	181.00	1.00			1		0.01	
			7485	181.00	182.00	1.00					0.01	
		182.00 - 196.00 Unit is strongly sheared, banded to laminated, highly chloritic mudstone/ siltstone, in part brecciated. Tight isoclinal folding, slumping and kink banding development. Tightly spaced chloritic slips @ 80° results in button core.	7486	182.00	183.00	1.00					0.01	
			7487	183.00	184.00	1.00					0.01	
			7488	184.00	185.00	1.00					NIL	
			7489	185.00	186.00	1.00					NIL	
			7490	186.00	187.00	1.00					0.01	
			7491	187.00	188.00	1.00					0.01	
		188.40 - 188.90 Fault strongly sheared chloritic mudstone and fault gouge with late, barren white quartz vein.	7492	188.00	189.00	1.00			0.05		Fault Gouge	NIL
			7493	189.00	190.00	1.00					0.01	
			7494	190.00	191.00	1.00					NIL	
			7495	191.00	192.00	1.00					0.01	
			7496	192.00	193.00	1.00					0.01	
		193.80 Fault gouge, chloritic mud.	7497	193.00	194.00	1.00					NIL	
			7498	194.00	195.00	1.00					0.02	
			7499	195.00	196.00	1.00					0.01	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-09

PAGE: 10 of 12

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS			
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
196.00	205.70	GRAYWACKE Light grey-green, very fine grained graywacke with 10% interstitial mudstone. Unit is sheared and displays a braided-texture due to 1-2mm wide sericitic cleavage. Primary foliation @ 75° and crenulation cleavage @ 60° tca. In places sigmoidal type cleavage developed between strong, sericitic slips. Contains 1% white-grey quartz veins, frequently folded + boudinaged. Lower contact gradational over 1 metre.	7500	196.00	197.00	1.00						0.04	
			7501	197.00	198.00	1.00						0.01	
			7502	198.00	199.00	1.00						0.02	
			7503	199.00	200.00	1.00						NIL	
			7504	200.00	201.00	1.00		Tr.	1-2			NIL	
			7505	201.00	202.00	1.00		Tr.	1			0.01	
			7506	202.00	203.00	1.00						0.01	
			7507	203.00	204.00	1.00		Tr.	0.05			0.01	
			7508	204.00	205.00	1.00						NIL	
			7509	205.00	205.70	0.70			0.05			NIL	
205.70	223.70	MUDSTONE/SILTSTONE - CHLORITIC Finely interbedded dark aphanitic mudstone and light grey siltstone unit with strong shear fabric @ 75° tca. Bedding is typically contorted, disrupted and tightly folded and cut by small scale sinistral step faults. Frequently bedding is evident parallel tca. 1% white barren quartz veining.	7510	205.70	206.50	0.80						0.01	
			7511	206.50	207.00	0.50						0.02	
			7512	207.00	208.00	1.00						NIL	
			7513	208.00	209.00	1.00			Tr.	1		NIL	
			7514	209.00	210.00	1.00						0.01	
			7515	210.00	211.00	1.00						0.04	
			7516	211.00	212.00	1.00						0.07	
			7517	212.00	213.00	1.00						0.01	
			7518	213.00	214.00	1.00						0.02	
			7519	214.00	215.00	1.00		Tr.				0.01	
			7520	215.00	216.00	1.00						0.01	
			7521	216.00	217.00	1.00		Tr.	0.05			0.01	
			7522	217.00	218.00	1.00						0.01	
			7523	218.00	219.00	1.00						0.01	
			7524	219.00	220.00	1.00						NIL	
		220.10 - 220.60	7525	220.00	220.60	0.60		Tr.	1		Fault Gouge	0.01	
			7526	220.60	221.50	0.90						NIL	

**BATTLE MOUNTAIN (CANADA) INC.
DIAMOND DRILL LOG**

HOLE: KGR-91-09

PAGE: 11 of 12

INTERVAL		DESCRIPTION	SAMPLE							ASSAYS				
FROM	TO		No.	From	To	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au, Check		
223.70	227.00	GRAYWACKE/MUDSTONE/CONGLOMERATE Strongly deformed sericitized unit comprised of 60-70% pervasive sericite alteration as fine laminae and wispy anastomosing sericite contorted around irregular and 20% boudinaged white quartz veins and pods. Strong sericite + chlorite slips throughout. Trace pyrite as coarse blebs and fine disseminations. Deformed, crenulated bedding @ 79° tca. Sharp, sericitic lower contact marked by 1cm wide quartz vein.	7527	221.50	222.00	0.50					0.02			
			7528	222.00	223.00	1.00						NIL		
			7529	223.00	223.70	0.70						0.01		
			7530	223.70	224.50	0.80		Tr.	10	60		0.01		
			7531	224.50	225.00	0.50					10-15	60	0.01	
			7532	225.00	225.70	0.70		Tr.	10-15	50			0.01	
227.00	232.00	ASH TUFF 227.00 - 231.30 Unit is moderately deformed and weakly sericitic with prominent foliation and lamination (shearing) @ 75-80° tca. Colour variable from red-brown to green with sericite alteration evident in the dark green, more mafic horizons. Unit grades to non-deformed, unaltered lapilli tuff. 227.30 - 227.40 Fault gouge, 1cm wide, within 10cm wide zone of quartz breccia in fractured red ash tuff with minor disseminated pyrite.	7533	225.70	226.50	0.80		Tr.	5-10			0.01		
			7534	226.50	227.00	0.50		Tr.	2-3				0.01	
			7535	227.00	227.50	0.50		Tr.	2				0.02	
			7536	227.50	228.50	1.00							0.01	
			7537	228.50	229.00	0.50							0.02	
			7538	229.00	230.00	1.00							0.01	
232.00	265.00	LAPILLI TUFF/ASH TUFF Massive to weakly foliated dark green to brown, 3-7% angular trachyte clasts floating in a fine grained ash matrix. Strongly magnetic, with 1% quartz + calcite veining and ubiquitous calcite in matrix. Ash tuff horizons up to 2 metres wide with gradational contacts. 240.00 - 244.50 Block tuff, with gradational contacts. Monolithic, 5-10% red trachyte/syenite clasts, up to 57cm floating in a dark green chloritic ash matrix. Strongly magnetic and undeformed. 253.00 - 257.20 Massive to finely bedded ash tuff with bedding @ 55° tca.	7539	230.00	231.00	1.00						0.01		
			7540	231.00	232.00	1.00							NIL	

APPENDIX II
ASSAY CERTIFICATES

RAND PROPERTY, 1991ASSAY CERTIFICATES

Certificate No.	Sample Nos.	# of Samples	Date	Notes
1W 3117 -RA1	16001 - 16026	26	20-Jun-91	
1W 3126 -RA1	16027 - 16068	42	21-Jun-91	
1W 3143 -RA1	16069 - 16096	28	24-Jun-91	
1W 3145 -RA1	16097 - 16140	44	26-Jun-91	
1W 3153 -RA1	16141 - 16194	54	26-Jun-91	
1W 3176 -RA1	16195 - 16248	54	27-Jun-91	
1W 3226 -RA1	16249 - 16278	30	02-Jul-91	
1W 3240 -RA1	16279 - 16320	42	27-Jun-91	
1W 3231 -RA1	16321 - 16369	49	28-Jun-91	
1W 3259 -RA1	16370 - 16406	37	03-Jul-91	
1W 3255 -RA1	16407 - 16467	61	03-Jul-91	
1W 3287 -RA1	16468 - 16528	61	04-Jul-91	
	11851 - 11856	6	04-Jul-91	
1W 3296 -RA1	16529 - 16599	71	08-Jul-91	
1W 3324 -RA1	16600 - 16667	68	11-Jul-91	
1W 3342 -RA1	16668 - 16727	60	15-Jul-91	
1W 3343 -RA1	16728 - 16784	57	12-Jul-91	
1W 3344 -RA1	16785 - 16835	51	15-Jul-91	
1W 3346 -RA1	16836 - 16900	65	18-Jul-91	
1W 3365 -RA1	16901 - 16966	66	18-Jul-91	
1W 3394 -RA1	16967 - 17000	34	24-Jul-91	
	7001 - 7032	32	24-Jul-91	
1W 3412 -RA1	7033 - 7094	62	22-Jul-91	
1W 3433 -RA1	7095 - 7164	70	24-Jul-91	
1W 3443 -RA1	7165 - 7264	100	26-Jul-91	
1W 3467 -RA1	7265 - 7307	43	29-Jul-91	
	11057 - 11059	3	29-Jul-91	Samples reported as 11057-11059 should be sample #'s 11857-11859
1W 3475 -RA1	7308 - 7407	100	29-Jul-91	
1W 3476 -RA1	7408 - 7504	97	30-Jul-91	
1W 3499 -RA1	7505 - 7540	36	31-Jul-91	
1W 3508 -RA1	7541 - 7548	8	30-Jul-91	
	11860 - 11900	41	30-Jul-91	
TOTAL NUMBER OF SAMPLES		1598		



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Assay Certificate

1W-3117-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: W. BENHAM

Date: JUN-20-91
Copy 1. BOX 635, KIRKLAND LAKE P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 26 CORE samples submitted JUN-13-91 by M. MASSON.

RECEIVED JUN 26 1991

Sample Number	Au g/tonne	Au check g/tonne
16001	0.03	
16002	0.02	
16003	0.01	
16004	0.01	
16005	0.01	
16006	Nil	
16007	0.02	
16008	0.01	
16009	0.01	
16010	0.01	
16011	0.01	0.01
16012	0.01	
16013	0.04	
16014	0.01	
16015	0.01	
16016	0.02	
16017	0.04	0.06
16018	0.01	
16019	0.04	
16020	0.01	
16021	0.02	
16022	0.01	
16023	0.01	
16024	0.05	
16025	0.02	
NO TAG	0.01	0.01

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assaying - Consulting - Representation

Assay Certificate

1W-3143-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUN-24-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P3N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 28 CORE samples submitted JUN-17-91 by M. MASSON.

RECEIVED JUN 26 1991

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
16069	0.01		
16070	0.01		
16071	Nil		
16072	0.02		
16073	0.01		
16074	0.01		
16075	Nil		
16076	0.02		
16077	0.02		
16078	0.03		
16079	1.37	1.26	
16080	0.28		
16081	3.26	3.09	2.67
16082	0.02		
16083	Nil		
16084	0.04		
16085	0.03		
16086	Nil		
16087	0.01		
16088	0.02		
16089	0.02		
16090	0.01		
16091	0.03		
16092	0.03		
16093	0.02		
16094	0.02		
16095	0.01		
16096	0.02		

Au was determined using 1AT fusions

Certified by Donna Davison

P.O. Box 10, Swastika, Ontario P0K 1T0
Telephone (705) 642-3244 FAX (705) 642-3300



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Page 2 of 2

Assay Certificate

1W-3126-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: W.BENHAM

Date: JUN-21-91
Copy 1. P.O.Box 635, Kirkland Lake, Ont. P2N 3K1
2. Fax to 567-6448

We hereby certify the following Assay of 42 core samples submitted JUN-14-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16057	Nil	
16058	Nil	
16059	Nil	
16060	Nil	
16061	Nil	
16062	0.01	
16063	0.01	
16064	Nil	
16065	Nil	
16066	Nil	
16067	Nil	
16068	Nil	

Au was determined using 1 AT fusions

Certified by *Sonja Gardner*



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Page 1 of 2

Assay Certificate

1W-3126-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: W.BENHAM

Date: JUN-21-91
Copy 1. P.O.Box 635, Kirkland Lake, Ont. P2N 3K1
2. Fax to 567-6448

We hereby certify the following Assay of 42 core samples submitted JUN-14-91 by M. MASSON.

RECEIVED JUN 26 1991

Sample Number	Au g/tonne	Au check g/tonne
16027	0.02	
16028	Nil	
16029	0.01	
16030	Nil	
16031	Nil	
16032	0.01	
16033	0.01	
16034	0.01	
16035	0.01	
16036	0.01	
16037	0.01	
16038	0.11	0.16
16039	Nil	
16040	Nil	
16041	0.01	
16042	0.02	
16043	0.02	0.02
16044	0.01	
16045	Nil	
16046	Nil	
16047	Nil	
16048	Nil	
16049	Nil	
16050	Nil	
16051	Nil	
16052	Nil	
16053	Nil	
16054	Nil	
16055	Nil	
16056	Nil	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

RECEIVED JUL - 2 1991

1W-3145-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUN-26-91
Copy 1. P.O.BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 44 CORE samples submitted JUN-18-91 by M. MASSON.

Sample Number	Au g/tonne	Au Check g/tonne
16097	Nil	
16098	0.06	
16099	Nil	
16100	0.02	
16101	0.05	0.01
16102	0.04	
16103	0.03	
16104	0.01	
16105	Nil	
16106	Nil	
16107	Nil	
16108	Nil	
16109	Nil	
16110	0.01	
16111	0.02	
16112	0.01	0.01
16113	0.02	
16114	0.01	
16115	Nil	
16116	0.05	
16117	Nil	
16118	0.47	0.45
16119	0.27	
16120	Nil	
16121	0.01	
16122	Nil	
16123	0.01	
16124	0.04	
16125	0.12	
16126	0.03	

Au was determined using 1AT fusions

Certified by Donna Gardner



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Page 2 of 2

Assay Certificate

1W-3145-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUN-26-91

Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 44 CORE samples submitted JUN-18-91 by M. MASSON.

Sample Number	Au g/tonne	Au Check g/tonne
16127	0.07	
16128	0.01	
16129	Nil	
16130	0.05	
16131	0.03	0.04
16132	Nil	
16133	Nil	
16134	Nil	
16135	Nil	
16136	Nil	
16137	0.02	
16138	0.03	
16139	Nil	
16140	0.06	0.05

Au was determined using 1AT fusions

Certified by Donna Gardner



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Assay Certificate

1W-3153-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **JUN-26-91**
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 54 CORE samples submitted JUN-18-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
16141	Nil		
16142	Nil		
16143	Nil		
16144	Nil		
16145	Nil	Nil	
16146	0.01		
16147	0.01		
16148	Nil		
16149	Nil		
16150	Nil		
16151	0.01		
16152	Nil		
16153	Nil		
16154	Nil		
16155	Nil		
16156	0.01		
16157	0.01		
16158	Nil		
16159	0.03	0.01	
16160	Nil		
16161	Nil		
16162	Nil		
16163	Nil		
16164	Nil		
16165	Nil		
16166	0.01		
16167	Nil		
16168	Nil		
16169	Nil		
16170	Nil		

Au was determined using 1 AT fusions

Certified by Donna Gardner



Swastika Laboratories

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Page 2 of 2

Assay Certificate

1W-3153-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUN-26-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 54 CORE samples submitted JUN-18-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
16171	Nil		
16172	Nil		
16173	0.01		
16174	0.01		
16175	Nil		
16176	Nil		
16177	0.01		
16178	0.09	0.12	
16179	0.02		
16180	Nil		
16181	0.01		
16182	0.02		
16183	Nil		
16184	0.01		
16185	Nil		
16186	0.03		
16187	0.04		
16188	0.22		
16189	1.80	1.77	1.16
16190	0.12		
16191	0.14		
16192	0.06		
16193	0.02		
16194	0.15	0.16	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Page 1 of 2

1W-3176-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: **75-JV-28**
Attn: **W. BENHAM**

Date: **JUN-27-91**
Copy 1. **BOX 635, KIRKLAND LAKE P2N 3K1**
2. **FAX TO 567-6448**

We hereby certify the following Assay of 54 CORE samples submitted JUN-20-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16195	0.01	
16196	0.01	
16197	0.31	0.40
16198	0.01	
16199	0.01	
16200	0.01	
16201	0.01	
16202	Nil	
16203	0.02	
16204	Nil	
16205	0.01	0.02
16206	Nil	
16207	Nil	
16208	Nil	
16209	Nil	
16210	0.01	
16211	Nil	
16212	Nil	
16213	Nil	
16214	Nil	
16215	Nil	
16216	Nil	
16217	Nil	
16218	Nil	
16219	Nil	
16220	0.02	
16221	0.07	
16222	0.09	0.09
16223	Nil	
16224	Nil	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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1W-3176-RA1

Assay Certificate

Date: JUN-27-91

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: **75-JV-28**
Attn: **W. BENHAM**

Copy 1. BOX 635, KIRKLAND LAKE P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 54 CORE samples submitted JUN-20-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16225	Nil	
16226	Nil	
16227	Nil	
16228	Nil	
16229	Nil	
16230	0.02	
16231	Nil	
16232	0.02	
16233	0.01	
16234	Nil	
16235	0.05	
16236	0.01	
16237	Nil	
16238	0.01	
16239	Nil	Nil
16240	0.02	
16241	0.01	
16242	0.05	
16243	0.01	
16244	0.01	
16245	0.01	
16246	0.02	
16247	0.01	
16248	Nil	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

1W-3226-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-02-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 30 CORE samples submitted JUN-21-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16249	0.05	0.06
16250	0.01	
16251	0.02	
16252	0.02	
16253	0.02	
16254	0.02	
16255	0.01	
16256	0.01	
16257	0.01	
16258	0.01	Nil
16259	0.01	
16260	0.01	
16261	0.01	
16262	0.01	
16263	0.01	
16264	0.01	
16265	0.01	
16266	0.01	
16267	0.01	
16268	0.01	
16269	0.01	
16270	0.03	
16271	0.01	
16272	0.01	
16273	0.02	
16274	0.01	
16275	0.01	
16276	0.01	
16277	0.01	
16278	0.04	0.01

Au was determined using 1 AT fusions

Certified by Bonnie Gardner



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Page 1 of 2

1W-3240-RG1

Geochemical Analysis Certificate

Company: **BATTLE MOUNTAIN CANADA**
Project: **75-JV-28**
Attn: **W BENHAM**

Date: **JUN-27-91**
Copy 1. P.O. BOX 635,,KIRKLAND LAKE,ONT.P2N 3K1
2. fax to 567-6448
3. 567-4840

We hereby certify the following Geochemical Analysis of 42 SPLIT CORE samples submitted JUN-24-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16279	0.01	
16280	0.01	
16281	Nil	
16282	Nil	
16283	0.01	
16284	0.01	0.01
16285	Nil	
16286	Nil	
16287	0.01	
16288	0.01	
16289	0.01	
16290	Nil	
16291	Nil	
16292	0.22	0.16
16293	0.04	
16294	0.02	
16295	0.02	
16296	0.01	
16297	0.03	
16298	0.03	
16299	0.04	
16300	Nil	
16301	0.01	
16302	0.02	
16303	0.01	
16304	0.01	
16305	0.01	
16306	0.07	0.07
16307	0.02	
16308	0.01	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Page 2 of 2

1W-3240-RG1

Geochemical Analysis Certificate

Date: JUN-27-91

Company: **BATTLE MOUNTAIN CANADA**
Project: 75-JV-28
Attn: W BENHAM

Copy 1. P.O. BOX 635,,KIRKLAND LAKE,ONT.P2N 3K1
2. fax to 567-6448
3. 567-4840

We hereby certify the following Geochemical Analysis of 42 SPLIT CORE samples submitted JUN-24-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16309	0.02	
16310	Nil	
16311	0.02	
16312	0.03	
16313	Nil	
16314	0.01	
16315	0.06	
16316	0.02	
16317	0.02	
16318	0.07	
16319	Nil	Nil
16320	0.01	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Page 1 of 2

Assay Certificate

1W-3231-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUN-28-91
Copy 1. P.O.BOX 635, KIRKLAND LAKE, ONT. P2N 1K3
2. FAX TO 567-6448

We hereby certify the following Assay of 49 CORE samples submitted JUN-25-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16321	Nil	
16322	Nil	
16323	0.01	
16324	0.04	
16325	Nil	
16326	0.01	
16327	0.01	
16328	Nil	
16329	0.13	0.14
16330	Nil	
16331	Nil	
16332	0.01	
16333	0.14	
16334	0.01	
16335	0.02	
16336	0.02	
16337	0.01	
16338	Nil	
16339	Nil	
16340	Nil	
16341	0.05	0.07
16342	Nil	
16343	Nil	
16344	Nil	
16345	Nil	
16346	Nil	
16347	0.01	
16348	0.01	
16349	0.01	
16350	Nil	

Au was determined using 1 AT fusions

Certified by Sonoma Gardner



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Page 2 of 2

Assay Certificate

1W-3231-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUN-28-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 1K3
2. FAX TO 567-6448

We hereby certify the following Assay of 49 CORE samples submitted JUN-25-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16351	Nil	
16352	Nil	
16353	Nil	
16354	Nil	
16355	0.01	
16356	Nil	
16357	Nil	
16358	Nil	
16359	Nil	
16360	Nil	
16361	0.05	0.01
16362	0.01	
16363	Nil	
16364	Nil	
16365	Nil	
16366	Nil	
16367	Nil	
16368	Nil	
16369	Nil	

Au was determined using 1 AT fusions

Certified by Wonna Gardner



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Page 1 of 2

Assay Certificate

1W-3259-RA1

Company: **BATTLE MOUNTAIN**
Project: **75-JV-28**
Attn: **W. BENHAM**

Date: **JUL-03-91**
Copy 1. **BOX 635, KIRKLAND LAKE P2N 3K1**
2. **FAX TO 567-6448**

We hereby certify the following Assay of 37 CORE samples submitted JUN-27-91 by .

Sample Number	Au g/tonne	Au check g/tonne
16370	0.02	0.02
16371	Nil	
16372	Nil	
16373	Nil	
16374	Nil	
16375	Nil	
16376	Nil	
16377	Nil	
16378	Nil	
16379	Nil	
16380	Nil	
16381	Nil	
16382	Nil	
16383	Nil	
16384	Nil	
16385	Nil	Nil
16386	Nil	
16387	Nil	
16388	Nil	
16389	Nil	
16390	Nil	
16391	Nil	
16392	Nil	
16393	0.06	0.05
16394	0.01	
16395	0.03	
16396	Nil	
16397	Nil	
16398	Nil	
16399	Nil	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

1W-3259-RA1

Company: **BATTLE MOUNTAIN**
Project: 75-JV-28
Attn: W. BENHAM

Date: JUL-03-91
Copy 1. BOX 635, KIRKLAND LAKE P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 37 CORE samples submitted JUN-27-91 by .

Sample Number	Au g/tonne	Au check g/tonne
16400	Nil	
16401	0.01	
16402	Nil	
16403	Nil	
16404	Nil	
16405	Nil	
16406	0.03	0.01

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

1W-3255-RA1

Company: **BATTLE MOUNTAIN**
Project: **75-JV-28**
Attn: **W. BENHAM**

Date: **JUL-03-91**
Copy 1. **BOX 635, KIRKLAND LAKE P2N 3K1**
2. **FAX TO 567-6448**

We hereby certify the following Assay of 61 CORE samples submitted JUN-27-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
16407	0.01		
16408	0.01		
16409	Nil		
16410	Nil		
16411	Nil		
16412	0.02		
16413	Nil		
16414	Nil		
16415	Nil		
16416	Nil		
16417	0.17		
16418	20.64	21.50	23.01
16419	0.03		
16420	0.19		
16421	0.02		
16422	0.01		
16423	Nil		
16424	Nil		
16425	Nil		
16426	Nil		
16427	Nil		
16428	Nil		
16429	0.01		
16430	Nil		
16431	0.01		
16432	Nil		
16433	0.01		
16434	0.07	0.14	
16435	0.01		
16436	0.02		

Au was determined using 1 AT fusions

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Assay Certificate

1W-3255-RA1

Company: **BATTLE MOUNTAIN**
Project: 75-JV-28
Attn: W. BENHAM

Date: JUL-03-91
Copy 1. BOX 635, KIRKLAND LAKE P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 61 CORE samples submitted JUN-27-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
16437	Nil		
16438	Nil		
16439	0.03		
16440	0.01		
16441	0.02		
16442	0.05	0.07	
16443	0.01		
16444	0.01		
16445	0.03		
16446	0.02		
16447	0.02		
16448	0.01		
16449	Nil		
16450	Nil		
16451	0.01		
16452	0.03	0.07	
16453	0.01		
16454	0.02		
16455	Nil		
16456	Nil		
16457	Nil		
16458	Nil		
16459	Nil		
16460	Nil		
16461	Nil		
16462	Nil		
16463	Nil		
16464	0.01		
16465	0.08	0.10	
16466	Nil		
16467	0.01		

Au was determined using 1 AT fusions

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Assay Certificate

1W-3287-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-04-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 67 CORE samples submitted JUL-02-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
11851	0.01	
11852	0.01	
11853	0.01	
11854	0.01	
11855	0.01	
11856	0.06	
16468	0.01	
16469	0.01	
16470	0.01	
16471	0.01	
16472	0.01	
16473	Nil	
16474	0.02	0.02
16475	0.01	
16476	0.01	
16477	0.01	
16478	Nil	
16479	Nil	
16480	0.01	
16481	Nil	
16482	Nil	
16483	Nil	
16484	0.01	
16485	Nil	
16486	Nil	
16487	0.01	
16488	0.01	
16489	0.01	0.02
16490	0.01	
16491	0.01	

Au was determined using 1 AT fusions

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Assay Certificate

1W-3287-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **JUL-04-91**
Copy 1. P.O.BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 67 CORE samples submitted JUL-02-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16492	0.01	
16493	0.01	
16494	0.01	
16495	0.01	
16496	0.01	
16497	0.01	
16498	0.01	0.01
16499	0.01	
16500	Nil	
16501	Nil	
16502	0.01	
16503	0.01	
16504	0.01	
16505	0.01	
16506	0.02	
16507	0.01	
16508	0.01	
16509	0.01	
16510	0.01	0.01
16511	0.01	
16512	0.01	
16513	0.01	
16514	0.01	
16515	0.01	
16516	0.01	
16517	0.01	
16518	0.01	
16519	0.01	
16520	0.01	
16521	0.01	0.01

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

1W-3287-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **JUL-04-91**
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 67 CORE samples submitted JUL-02-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16522	0.01	
16523	0.01	
16524	0.01	
16525	Nil	
16526	0.01	
16527	0.01	
16528	0.01	0.01

Au was determined using 1 AT fusions

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Assay Certificate

1W-3296-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-08-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 71 CORE samples submitted JUL-02-91 by M. MASSON.

RECEIVED JUL 15 1991

Sample Number	Au g/tonne	Au check g/tonne
16529	0.02	
16530	Nil	
16531	0.01	
16532	0.01	
16533	0.03	0.04
16534	Nil	
16535	Nil	
16536	Nil	
16537	0.02	
16538	0.02	
16539	0.04	
16540	0.02	
16541	0.01	
16542	Nil	
16543	Nil	
16544	0.01	
16545	0.02	
16546	Nil	
16547	Nil	
16548	0.08	0.07
16549	0.08	
16550	Nil	
16551	Nil	
16552	Nil	
16553	0.01	
16554	Nil	
16555	Nil	
16556	Nil	
16557	0.01	
16558	0.01	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

1W-3296-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-08-91

Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 71 CORE samples submitted JUL-02-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16559	0.01	
16560	0.01	
16561	Nil	
16562	Nil	
16563	0.01	
16564	0.01	0.02
16565	0.01	
16566	0.01	
16567	Nil	
16568	Nil	
16569	Nil	
16570	Nil	
16571	Nil	
16572	0.01	
16573	Nil	
16574	Nil	
16575	0.01	
16576	Nil	
16577	Nil	
16578	Nil	Nil
16579	Nil	
16580	0.03	
16581	Nil	
16582	Nil	
16583	Nil	
16584	Nil	
16585	0.02	
16586	Nil	
16587	Nil	
16588	Nil	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

1W-3296-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-08-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 71 CORE samples submitted JUL-02-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16589	Nil	
16590	Nil	
16591	Nil	
16592	Nil	
16593	Nil	
16594	0.01	Nil
16595	Nil	
16596	Nil	
16597	Nil	
16598	Nil	
16599	0.06	

Au was determined using 1 AT fusions

Certified by Donna Gardner



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Assay Certificate

1W-3324-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-11-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 68 CORE samples submitted JUL-05-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
16600	Nil		
16601	0.01		
16602	Nil		
16603	0.01		
16604	0.01		
16605	0.01	0.01	
16606	0.01		
16607	0.01		
16608	0.01		
16609	0.01		
16610	0.01		
16611	Nil		
16612	Nil		
16613	0.01		
16614	Nil		
16615	0.01		
16616	Nil		
16617	2.33	2.30	2.26
16618	0.25		
16619	0.01		
16620	0.01		
16621	0.01		
16622	Nil		
16623	0.01		
16624	0.01		
16625	Nil		
16626	Nil		
16627	0.01		
16628	0.01		
16629	0.02	0.02	

Au was determined using 1 AT fusions

Certified by Donna Gardner

RECEIVED JUL 22 1991

P.O. Box 10, Swastika, Ontario P0K 1T0
Telephone (705) 642-3244 FAX (705) 642-3300



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Assay Certificate

1W-3324-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-11-91
Copy 1. P.O.BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 68 CORE samples submitted JUL-05-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
16630	0.01		
16631	0.01		
16632	0.01		
16633	Nil		
16634	Nil		
16635	0.01		
16636	0.01	0.01	
16637	Nil		
16638	Nil		
16639	0.01		
16640	Nil		
16641	0.01		
16642	Nil		
16643	0.01		
16644	Nil		
16645	0.01		
16646	0.01		
16647	0.01		
16648	0.01		
16649	0.01		
16650	0.01		
16651	0.01	0.01	
16652	0.01		
16653	0.01		
16654	0.01		
16655	0.01		
16656	0.01		
16657	0.01		
16658	0.01		
16659	0.01		

Au was determined using 1 AT fusions

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Page 3 of 3

Assay Certificate

1W-3324-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-11-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 68 CORE samples submitted JUL-05-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
16660	0.01		
16661	0.01		
16662	0.01		
16663	0.01		
16664	Nil		
16665	0.01		
16666	0.01	0.01	
16667	0.01		

Au was determined using 1 AT fusions

Certified by Donna Gardner

RECEIVED JUL 22 1991

P.O. Box 10, Swastika, Ontario P0K 1T0
Telephone (705) 642-3244 FAX (705) 642-3300



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Page 1 of 2

Assay Certificate

1W-3342-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-15-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 60 CORE samples submitted JUL-08-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16668	0.01	
16669	0.01	
16670	0.01	
16671	0.01	0.01
16672	0.01	
16673	0.01	
16674	0.01	
16675	0.01	
16676	0.01	
16677	0.01	
16678	0.01	
16679	Nil	
16680	Nil	0.01
16681	0.01	
16682	0.01	
16683	0.04	
16684	Nil	
16685	0.01	
16686	0.03	
16687	0.01	
16688	0.01	
16689	0.01	
16690	0.01	
16691	0.01	
16692	0.01	
16693	0.01	
16694	0.01	
16695	0.02	0.01
16696	0.01	
16697	Nil	

Au was determined using 1 AT fusions

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Assay Certificate

1W-3342-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-15-91
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2. FAX TO 567-6448

We hereby certify the following Assay of 60 CORE samples submitted JUL-08-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16698	0.01	
16699	0.01	
16700	0.01	
16701	0.01	
16702	0.01	
16703	0.01	
16704	0.01	
16705	0.01	
16706	0.01	
16707	0.01	0.01
16708	0.02	
16709	0.01	
16710	0.01	
16711	0.01	
16712	0.03	0.03
16713	0.01	
16714	0.01	
16715	0.01	
16716	0.01	
16717	0.03	
16718	0.01	
16719	0.01	
16720	0.03	
16721	0.02	
16722	0.01	
16723	0.01	
16724	0.01	
16725	0.01	
16726	0.01	
16727	0.01	

Au was determined using 1 AT fusions

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Assay Certificate

1W-3343-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-12-91
Copy 1. P.O.BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 57 CORE samples submitted JUL-08-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16728	Nil	
16729	Nil	0.01
16730	Nil	
16731	Nil	
16732	0.01	
16733	0.01	
16734	Nil	
16735	0.01	
16736	0.01	
16737	0.01	
16738	Nil	
16739	Nil	
16740	Nil	
16741	0.03	
16742	0.02	
16743	Nil	
16744	0.01	
16745	Nil	
16746	Nil	Nil
16747	Nil	
16748	Nil	
16749	Nil	
16750	Nil	
16751	Nil	
16752	Nil	
16753	Nil	Nil
16754	Nil	
16755	Nil	
16756	Nil	
16757	Nil	

Au was determined using 1 AT fusions

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1W-3343-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-12-91
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2. FAX TO 567-6448

We hereby certify the following Assay of 57 CORE samples submitted JUL-08-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16758	Nil	
16759	Nil	
16760	Nil	
16761	Nil	
16762	Nil	0.01
16763	0.01	
16764	Nil	
16765	Nil	
16766	Nil	
16767	0.03	
16768	Nil	
16769	Nil	
16770	Nil	
16771	Nil	
16772	0.01	
16773	Nil	
16774	Nil	
16775	0.01	
16776	Nil	
16777	0.01	0.01
16778	0.01	
16779	Nil	
16780	Nil	
16781	0.01	
16782	0.01	
16783	Nil	
16784	Nil	

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Attn: WAYNE BENHAM

Date: JUL-15-91
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2. FAX TO 567-6448

We hereby certify the following Assay of 51 CORE samples submitted JUL-08-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
16785	0.01		
16786	0.01		
16787	0.46	0.56	
16788	0.04		
16789	0.01		
16790	0.02		
16791	0.02		
16792	0.02		
16793	0.26		
16794	0.17		
16795	0.03		
16796	0.05		
16797	0.11		
16798	0.02		
16799	0.02		
16800	0.13	0.13	
16801	0.03		
16802	0.04		
16803	0.01		
16804	0.26		
16805	0.03		
16806	0.02		
16807	5.52	5.48	5.07
16808	0.01		
16809	0.03		
16810	0.03		
16811	0.02		
16812	0.13		
16813	0.01		
16814	0.02		

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Telephone (705) 642-3244 FAX (705) 642-3300



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Assay Certificate

1W-3344-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
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Attn: WAYNE BENHAM

Date: JUL-15-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 51 CORE samples submitted JUL-08-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne	Au 2nd g/tonne
16815	0.01		
16816	0.01		
16817	0.01		
16818	0.01		
16819	0.01		
16820	0.01	0.01	
16821	0.01		
16822	0.01		
16823	0.01		
16824	0.01		
16825	0.02		
16826	0.02		
16827	0.01		
16828	0.02		
16829	0.01		
16830	0.01		
16831	0.01		
16832	0.09	0.14	
16833	0.03		
16834	0.04		
16835	0.02		

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Assay Certificate

1W-3346-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: 75-JV-28
Attn: W. BENHAM

Date: JUL-18-91
Copy 1. BOX 635, KIRKLAND LAKE P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 65 CORE samples submitted JUL-09-91 by M. MASSON.

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Sample Number	Au g/tonne	Au check g/tonne
16836	0.01	
16837	0.01	
16838	0.01	
16839	0.02	0.06
16840	0.01	
16841	0.01	
16842	0.01	
16843	0.02	
16844	0.01	
16845	0.01	0.01
16846	Ni1	
16847	Ni1	
16848	0.01	
16849	Ni1	
16850	0.02	
16851	0.02	
16852	0.04	
16853	0.02	
16854	0.03	
16855	0.01	
16856	0.01	
16857	0.01	
16858	0.01	
16859	0.08	0.07
16860	0.05	
16861	0.04	
16862	0.04	
16863	0.01	
16864	0.03	
16865	0.01	

Au was determined using 1 AT fusions

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Assay Certificate

1W-3346-RA1

Company: **BATTLE MOUNTAIN CANADA INC**
Project: **75-JV-28**
Attn: **W. BENHAM**

Date: **JUL-18-91**
Copy 1. **BOX 635, KIRKLAND LAKE P2N 3K1**
2. **FAX TO 567-6448**

We hereby certify the following Assay of 65 CORE samples submitted JUL-09-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16866	0.01	
16867	0.02	0.04
16868	0.02	
16869	0.01	
16870	0.01	
16871	0.01	
16872	Nil	
16873	Nil	
16874	0.01	
16875	0.01	
16876	0.01	
16877	0.01	
16878	0.01	
16879	0.01	
16880	0.01	
16881	0.01	
16882	0.01	
16883	0.01	0.01
16884	0.01	
16885	0.01	
16886	0.01	
16887	0.01	
16888	0.01	
16889	0.01	
16890	0.01	
16891	0.02	0.05
16892	0.01	
16893	0.01	
16894	0.01	
16895	0.01	

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Assay Certificate

Date: JUL-18-91

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Project: 75-JV-28
Attn: W. BENHAM

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We hereby certify the following Assay of 65 CORE samples submitted JUL-09-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16896	0.01	
16897	0.01	
16898	0.02	0.02
16899	0.01	
16900	0.01	

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Date: **JUL-18-91**
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We hereby certify the following Assay of 66 CORE samples submitted JUL-10-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16901	0.04	0.07
16902	0.03	
16903	0.04	
16904	0.03	
16905	0.02	
16906	0.02	
16907	0.02	
16908	0.01	
16909	0.02	
16910	0.01	0.01
16911	0.02	
16912	0.01	
16913	0.02	
16914	0.03	
16915	0.08	
16916	0.04	
16917	0.03	
16918	0.08	
16919	0.17	
16920	0.12	
16921	0.10	0.11
16922	0.02	
16923	Nil	
16924	0.01	
16925	0.01	
16926	0.01	
16927	0.02	
16928	0.05	
16929	0.09	
16930	0.01	

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Attn: WAYNE BENHAM

Date: JUL-18-91

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We hereby certify the following Assay of 66 CORE samples submitted JUL-10-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16931	0.01	
16932	0.01	0.01
16933	0.01	
16934	0.01	
16935	0.01	
16936	0.01	
16937	0.01	
16938	0.01	
16939	0.01	
16940	0.01	0.01
16941	0.01	
16942	0.01	
16943	0.01	
16944	0.01	
16945	Nil	
16946	0.01	
16947	Nil	
16948	Nil	
16949	Nil	
16950	Nil	
16951	Nil	Nil
16952	Nil	
16953	Nil	
16954	Nil	
16955	0.01	
16956	0.01	
16957	Nil	
16958	0.03	
16959	0.01	
16960	0.01	0.01

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1W-3365-RA1

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Attn: WAYNE BENHAM

Date: JUL-18-91
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2. FAX TO 567-6448

We hereby certify the following Assay of 66 CORE samples submitted JUL-10-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16961	0.01	
16962	Nil	
16963	0.05	
16964	Nil	
16965	Nil	
16966	0.01	Nil

Au was determined using 1 AT fusions

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Assay Certificate

1W-3394-RA1

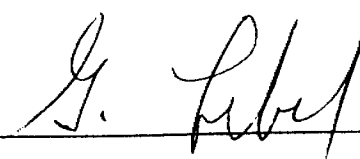
Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-24-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 66 CORE samples submitted JUL-12-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7001	0.02	
7002	0.01	
7003	0.02	
7004	0.02	
7005	0.01	
7006	0.01	
7007	0.02	
7008	0.01	
7009	0.01	
7010	0.01	0.01
7011	0.02	
7012	0.01	
7013	0.02	
7014	0.01	
7015	0.03	
7016	0.01	
7017	0.01	
7018	0.02	
7019	0.01	
7020	0.02	
7021	0.02	
7022	0.01	0.01
7023	0.01	
7024	0.01	
7025	0.01	
7026	0.01	
7027	0.03	
7028	0.01	
7029	Nil	
7030	Nil	

Au was determined using 1AT fusions.

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1W-3394-RA1

Assay Certificate

Date: JUL-24-91

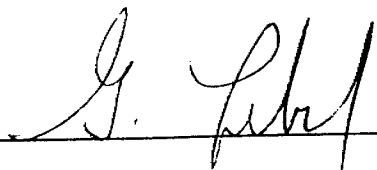
Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 66 CORE samples submitted JUL-12-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7031	0.01	
7032	Nil	
16967	0.01	0.01
16968	0.01	
16969	0.01	
16970	0.01	
16971	0.01	
16972	0.01	
16973	0.01	
16974	Nil	
16975	0.01	
16976	0.01	
16977	Nil	
16978	0.01	
16979	Nil	
16980	0.01	
16981	0.01	
16982	0.01	
16983	0.01	
16984	0.01	
16985	0.03	
16986	0.01	
16987	0.02	
16988	0.01	
16989	0.02	
16990	0.02	
16991	0.02	
16992	0.01	
16993	0.01	
16994	0.01	0.01

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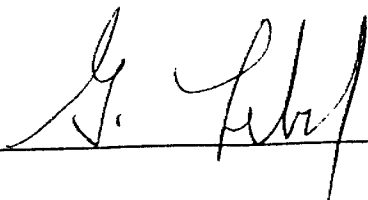
Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-24-91
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2. FAX TO 567-6448

We hereby certify the following Assay of 66 CORE samples submitted JUL-12-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
16995	Nil	
16996	0.01	
16997	Nil	
16998	0.01	
16999	0.02	
17000	Nil	

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Assay Certificate

1W-3412-RA1

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Attn: **WAYNE BENHAM**

Date: **JUL-22-91**
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 62 CORE samples submitted JUL-15-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7033	Nil	Nil
7034	0.01	
7035	0.01	
7036	0.01	
7037	0.03	
7038	0.03	
7039	Nil	
7040	Nil	
7041	0.01	
7042	0.01	
7043	Nil	
7044	0.01	
7045	0.01	
7046	0.01	
7047	0.01	
7048	0.02	
7049	0.03	
7050	0.02	
7051	0.03	
7052	0.03	
7053	0.01	0.01
7054	0.06	
7055	0.03	
7056	0.02	
7057	0.03	
7058	0.02	
7059	0.02	
7060	0.03	
7061	0.02	
7062	0.02	

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Assay Certificate

1W-3412-RA1

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Project: 75-JV-28
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Date: JUL-22-91
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We hereby certify the following Assay of 62 CORE samples submitted JUL-15-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7063	0.02	
7064	0.02	
7065	0.02	Nil
7066	0.03	
7067	0.02	
7068	0.02	
7069	0.02	
7070	0.01	
7071	0.01	
7072	Nil	
7073	0.01	
7074	0.01	
7075	Nil	Nil
7076	Nil	
7077	0.01	
7078	0.01	
7079	0.01	
7080	0.01	
7081	Nil	
7082	0.01	
7083	0.01	
7084	0.01	0.01
7085	0.01	
7086	0.01	
7087	0.04	
7088	0.01	
7089	0.01	
7090	0.02	
7091	0.01	
7092	0.01	

Au was determined using 1AT fusions.

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Assay Certificate

1W-3412-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-22-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 62 CORE samples submitted JUL-15-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7093	0.02	
7094	0.02	0.02

Au was determined using 1AT fusions.

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Assay Certificate

1W-3433-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-24-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 70 CORE samples submitted JUL-16-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7095	0.01	
7096	Nil	
7097	0.02	0.02
7098	Nil	
7099	Nil	
7100	Nil	
7101	0.01	
7102	0.01	
7103	Nil	
7104	Nil	
7105	0.01	
7106	0.01	
7107	0.01	
7108	0.01	
7109	0.01	
7110	Nil	
7111	0.01	
7112	0.01	
7113	Nil	
7114	Nil	
7115	0.01	
7116	Nil	
7117	0.01	0.01
7118	0.01	
7119	Nil	
7120	0.01	
7121	0.04	
7122	0.01	
7123	0.01	
7124	0.01	

Au was determined using 1 AT fusions

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Assay Certificate

1W-3433-RA1


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Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-24-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 70 CORE samples submitted JUL-16-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7125	0.01	
7126	0.01	
7127	0.02	
7128	0.01	
7129	0.01	
7130	0.01	0.01
7131	0.01	
7132	Nil	
7133	Nil	
7134	0.01	
7135	Nil	
7136	0.01	
7137	0.03	
7138	Nil	
7139	0.01	
7140	Nil	
7141	Nil	0.01
7142	0.01	
7143	0.01	
7144	Nil	
7145	Nil	
7146	0.01	
7147	0.01	
7148	Nil	
7149	0.01	
7150	0.01	
7151	0.01	
7152	0.01	
7153	0.01	0.01
7154	Nil	

Au was determined using 1 AT fusions

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Assay Certificate

1W-3433-RA1

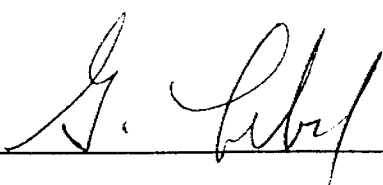
Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-24-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 70 CORE samples submitted JUL-16-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7155	0.01	
7156	0.01	
7157	0.01	
7158	0.01	
7159	0.01	
7160	0.01	
7161	0.01	
7162	Nil	
7163	Nil	
7164	0.02	

Au was determined using 1 AT fusions

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1W-3443-RA1

Assay Certificate


Company: **BATTLE MOUNTAIN CANADA INC.**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **JUL-26-91**
Copy 1. P.O.BOX 635, KIRKLAND LAKE, ONT. P2N 1K3
2. FAX TO 567-6448

We hereby certify the following Assay of 100 CORE samples submitted JUL-18-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7165	Nil	
7166	Nil	
7167	0.01	
7168	0.01	
7169	Nil	
7170	0.02	
7171	0.01	
7172	0.02	
7173	0.05	0.04
7174	0.01	
7175	0.01	
7176	0.02	
7177	0.01	
7178	0.03	
7179	Nil	
7180	0.01	
7181	0.02	
7182	0.01	
7183	0.02	
7184	0.02	
7185	0.02	0.02
7186	0.01	
7187	Nil	
7188	Nil	
7189	0.01	
7190	Nil	
7191	0.02	
7192	0.01	
7193	0.03	0.05
7194	0.14	

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1W-3443-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM


Date: JUL-26-91

Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 1K3
2. FAX TO 567-6448

We hereby certify the following Assay of 100 CORE samples submitted JUL-18-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7195	Nil	
7196	0.01	
7197	0.03	
7198	0.24	0.22
7199	0.07	
7200	0.03	
7201	0.06	
7202	0.31	0.28
7203	0.08	
7204	0.04	
7205	0.06	
7206	0.12	
7207	0.01	
7208	0.01	
7209	0.01	
7210	0.02	
7211	0.01	
7212	Nil	
7213	0.01	
7214	0.04	
7215	0.01	
7216	0.01	
7217	0.01	
7218	0.05	0.04
7219	0.01	
7220	Nil	
7221	0.05	
7222	0.01	
7223	0.01	
7224	0.01	

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1W-3443-RA1

Assay Certificate

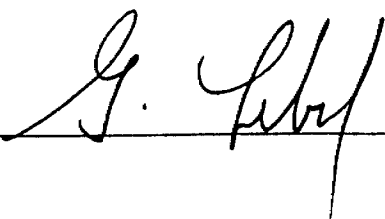
Company: **BATTLE MOUNTAIN CANADA INC.**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **JUL-26-91**
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 1K3
2. FAX TO 567-6448

We hereby certify the following Assay of 100 CORE samples submitted JUL-18-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7225	Nil	
7226	Nil	
7227	Nil	
7228	0.01	
7229	0.02	
7230	0.01	
7231	0.02	0.03
7232	0.04	
7233	0.02	
7234	0.01	
7235	0.02	
7236	0.17	0.20
7237	0.01	
7238	Nil	
7239	0.09	
7240	Nil	
7241	0.01	
7242	Nil	
7243	0.01	
7244	0.01	
7245	Nil	
7246	0.01	
7247	0.01	
7248	0.01	
7249	0.01	
7250	0.02	
7251	0.01	0.02
7252	0.01	
7253	Nil	
7254	Nil	

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1W-3443-RA1

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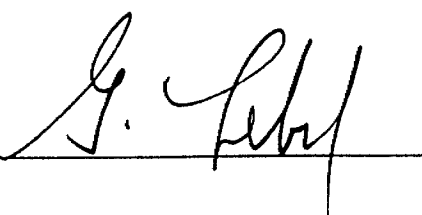
Date: **JUL-26-91**

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2. FAX TO 567-6448

We hereby certify the following Assay of 100 CORE samples submitted JUL-18-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7255	Nil	
7256	Nil	
7257	Nil	
7258	0.02	
7259	0.01	
7260	0.01	
7261	0.01	
7262	0.06	0.09
7263	0.04	
7264	0.04	

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Assay Certificate

1W-3467-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-29-91

Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 46 SPLIT CORE samples submitted JUL-19-91 by .

Sample Number	Au g/t	Au check g/t	Au 2nd g/t
7202 NOT REC'D			
7203 NOT REC'D			
7265	0.04		
7266	0.06		
7267	0.03		
7268	0.04		
7269	0.04		
7270	0.05		
7271	0.09	0.06	
7272	0.06		
7273	0.07		
7274	0.09		
7275	0.06		
7276	0.07		
7277	0.04		
7278	0.01		
7279	0.06		
7280	0.16	0.15	
7281	0.07		
7282	0.05		
7283	0.04		
7284	0.03		
7285	Nil		
7286	0.03	0.02	
7287	0.04		
7288	0.05		
7289	0.04		
7290	0.06		
7291	0.06		
7292	0.12		

Au was determined using 1AT fusions.

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Assay Certificate

1W-3467-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
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Attn: WAYNE BENHAM

Date: JUL-29-91
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2. FAX TO 567-6448

We hereby certify the following Assay of 46 SPLIT CORE samples submitted JUL-19-91 by .

Sample Number	Au g/t	Au check g/t	Au 2nd g/t
7293	0.14	0.28	
7294	0.06		
7295	0.03		
7296	0.03		
7297	0.05		
7298	0.02		
7299	0.03		
7300	0.02	0.02	
7301	0.03		
7302	0.02		
7303	0.01		
7304	0.04		
7305	0.03		
7306	0.02		
7307	0.11		
7308 NOT REC'D			
11057	0.04		
11058	3.23		2.59
11059	0.03		

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Assay Certificate

1W-3475-RA1

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-29-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 100 SAWN CORE samples submitted JUL-22-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7308	0.01	
7309	Nil	
7310	0.01	
7311	Nil	
7312	Nil	
7313	Nil	
7314	Nil	
7315	0.01	
7316	0.02	0.06
7317	Nil	
7318	Nil	
7319	Nil	
7320	Nil	
7321	0.01	
7322	Nil	
7323	0.24	
7324	0.47	0.53
7325	0.09	
7326	0.08	
7327	0.32	
7328	0.03	
7329	0.04	
7330	0.02	
7331	0.07	
7332	0.01	
7333	Nil	
7334	0.01	
7335	0.01	
7336	0.01	
7337	0.07	

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We hereby certify the following Assay of 100 SAWN CORE samples submitted JUL-22-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7338	0.02	
7339	0.01	
7340	0.01	
7341	0.13	0.12
7342	0.09	
7343	0.09	
7344	0.16	
7345	0.18	0.23
7346	0.01	
7347	0.03	
7348	0.02	
7349	0.02	
7350	0.01	
7351	0.01	
7352	0.01	
7353	0.01	
7354	0.01	
7355	0.02	
7356	0.01	
7357	0.01	
7358	0.09	0.10
7359	0.01	
7360	0.02	
7361	0.03	
7362	Nil	
7363	Nil	
7364	0.02	
7365	0.02	
7366	0.04	
7367	0.07	

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We hereby certify the following Assay of 100 SAWN CORE samples submitted JUL-22-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7368	0.04	0.03
7369	0.01	
7370	0.01	
7371	0.01	
7372	0.02	
7373	0.01	
7374	0.02	
7375	0.03	
7376	0.01	
7377	0.03	
7378	Nil	
7379	0.01	
7380	0.02	
7381	0.01	
7382	0.01	
7383	0.02	
7384	0.02	
7385	0.01	
7386	Nil	
7387	0.05	0.04
7388	0.04	
7389	0.02	
7390	0.06	
7391	0.01	
7392	0.01	
7393	0.01	
7394	0.01	
7395	0.01	
7396	0.01	
7397	0.01	

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1W-3475-RA1

Assay Certificate

Date: JUL-29-91

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

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2. FAX TO 567-6448

We hereby certify the following Assay of 100 SAWN CORE samples submitted JUL-22-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7398	0.01	
7399	0.05	0.06
7400	0.01	
7401	0.01	
7402	Nil	
7403	0.01	
7404	0.01	
7405	0.02	
7406	0.01	
7407	0.01	

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1W-3476-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **JUL-30-91**
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 97 SAWN CORE samples submitted JUL-22-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7408	0.01	
7409	Nil	
7410	Nil	
7411	Nil	
7412	0.09	0.08
7413	Nil	
7414	Nil	
7415	0.01	
7416	0.01	
7417	0.01	
7418	0.02	
7419	0.01	Nil
7420	0.01	
7421	0.01	
7422	Nil	
7423	Nil	
7424	0.01	
7425	0.01	
7426	0.01	
7427	0.02	
7428	0.03	
7429	0.02	
7430	0.01	
7431	0.01	
7432	0.02	
7433	0.02	
7434	0.01	
7435	0.03	0.01
7436	0.01	
7437	0.01	

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1W-3476-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **JUL-30-91**
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We hereby certify the following Assay of 97 SAWN CORE samples submitted JUL-22-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7438	0.01	
7439	0.01	
7440	0.01	
7441	Nil	
7442	0.01	
7443	Nil	
7444	Nil	
7445	Nil	
7446	0.01	
7447	0.01	
7448	Nil	
7449	Nil	
7450	Nil	
7451	Nil	
7452	Nil	
7453	Nil	
7454	0.01	
7455	0.08	
7456	0.03	
7457	0.02	
7458	0.14	
7459	0.15	0.15
7460	0.02	
7461	0.10	
7462	0.07	
7463	0.20	0.17
7464	0.01	
7465	0.06	
7466	0.02	
7467	Nil	

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Assay Certificate

1W-3476-RA1

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Attn: WAYNE BENHAM

Date: JUL-30-91
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2. FAX TO 567-6448

We hereby certify the following Assay of 97 SAWN CORE samples submitted JUL-22-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7468	Nil	
7469	0.01	
7470	Nil	
7471	0.01	
7472	0.02	
7473	0.01	
7474	Nil	
7475	0.01	
7476	0.01	
7477	0.01	Nil
7478	0.01	
7479	0.01	
7480	Nil	
7481	Nil	
7482	Nil	
7483	0.01	
7484	0.01	
7485	0.01	
7486	0.01	
7487	0.01	
7488	Nil	
7489	Nil	
7490	0.01	
7491	Nil	0.01
7492	Nil	
7493	0.01	
7494	Nil	
7495	0.01	
7496	0.01	
7497	Nil	

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Date: JUL-30-91
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2. FAX TO 567-6448

We hereby certify the following Assay of 97 SAWN CORE samples submitted JUL-22-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7498	0.02	
7499	0.01	0.01
7500	0.04	
7501	0.01	
7502	0.02	
7503	Nil	
7504	Nil	

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1W-3499-RA1

Assay Certificate

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Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-31-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 36 CORE samples submitted JUL-22-91 by M. MASSON.

RECEIVED AUG - 6 1991

Sample Number	Au g/tonne	Au check g/tonne
7505	0.01	
7506	0.01	
7507	0.01	
7508	Nil	
7509	Nil	
7510	0.01	
7511	0.02	0.01
7512	Nil	
7513	Nil	
7514	0.01	
7515	0.04	
7516	0.07	
7517	0.01	
7518	0.02	
7519	0.01	
7520	0.01	
7521	0.01	
7522	0.01	
7523	0.01	0.01
7524	Nil	
7525	0.01	
7526	Nil	
7527	0.02	
7528	Nil	
7529	0.01	0.01
7530	0.01	
7531	0.01	
7532	0.01	
7533	0.01	
7534	0.01	

Au was determined using 1AT fusions.

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1W-3499-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-31-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 36 CORE samples submitted JUL-22-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7535	0.02	
7536	0.01	
7537	0.02	
7538	0.01	0.01
7539	0.01	
7540	Nil	

Au was determined using 1AT fusions.

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1W-3508-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: 75-JV-28
Attn: WAYNE BENHAM

Date: JUL-30-91
Copy 1. P.O. BOX 635, KIRKLAND LAKE, ONT. P2N 3K1
2. FAX TO 567-6448

We hereby certify the following Assay of 49 CORE samples submitted JUL-23-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
7541	0.03	
7542	Nil	
7543	Nil	
7544	Nil	
7545	Nil	
7546	Nil	
7547	0.01	
7548	Nil	
11860	0.01	
11861	0.02	Nil
11862	0.01	
11863	0.01	
11864	0.01	
11865	0.03	
11866	0.03	
11867	Nil	
11868	Nil	
11869	Nil	
11870	Nil	
11871	Nil	Nil
11872	0.05	
11873	0.01	
11874	0.01	
11875	Nil	
11876	Nil	
11877	Nil	
11878	Nil	
11879	Nil	
11880	Nil	
11881	Nil	

Au was determined using 1AT fusions.

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1W-3508-RA1

Assay Certificate

Company: **BATTLE MOUNTAIN CANADA INC.**
Project: **75-JV-28**
Attn: **WAYNE BENHAM**

Date: **JUL-30-91**
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2. FAX TO 567-6448

We hereby certify the following Assay of 49 CORE samples submitted JUL-23-91 by M. MASSON.

Sample Number	Au g/tonne	Au check g/tonne
11882	Nil	
11883	Nil	Nil
11884	Nil	
11885	Nil	
11886	Nil	
11887	Nil	
11888	Nil	
11889	Nil	
11890	0.05	
11891	0.01	
11892	0.11	
11893	Nil	
11894	Nil	
11895	0.01	Nil
11896	Nil	
11897	Nil	
11898	Nil	
11899	Nil	
11900	Nil	

Au was determined using 1AT fusions.

Certified by Donna Gardner

APPENDIX III
CERTIFICATE OF QUALIFICATIONS

CERTIFICATE OF QUALIFICATIONS

I, Wayne Benham of 921 Willowdale Ave. in the City of Toronto in the Province of Ontario.

DO HEREBY CERTIFY:

1. That I am a graduate of Queen's University, Kingston, Ontario with a Bachelor of Science (B.Sc.), Geological Science, 1970.
2. That I have been practicing my profession as an exploration geologist since 1970.
3. That I have personally supervised the work described in this report.

Signed



Dated this August 30, 1991.

Wayne Benham
Kirkland Lake, Ontario

LIST OF DRAWINGS

VOLUME 2

<u>Drawing Number</u>	<u>Description</u>	<u>Scale</u>
1	Location Map	1:20000
DP-002	Drill Plan	1:2500
GL-021	Geology Plan	1:2500
DC-024	Section 10350E, 0 - 200 m, Hole KGR91-01	1:500
DC-025	Section 10350E, 200 - 450 m, Hole KGR91-01	1:500
DC-026	Section 10298E, Hole KGR91-02	1:500
DC-027	Section 10200E, Hole KGR91-03	1:500
DC-028	Section 9950E, Hole KGR91-04	1:500
DC-029	Section 9700E, N $\frac{1}{2}$, Hole KGR 91-05	1:500
DC-030	Section 9700E, S $\frac{1}{2}$, Hole KGR91-06	1:500
DC-031	Section 9850E, Hole KGR91-07	1:500
DC-032	Section 10100E, Hole KGR91-08	1:500
DC-033	Section 10650E, Hole KGR 91-09	1:500

In Map Pocket

DISTRIBUTION OF DRILL

MOBILIZATION AND DEMOBILIZATION COSTS

Total cost of mobilization and demobilization costs = \$1034.00

<u>Property</u>	<u>Metres Drilled</u>	<u>% Total</u>	<u>Cost</u>
Rand	2527	35	\$ 361.90
Amalgamated Kirkland	3718	52	537.68
Teck "A"	348	5	51.70
Vigrass Lake	600	8	82.72
		100	\$1034.00

WB

HEATH & SHERWOOD DRILLING (1986) INC.

FORAGE HEATH & SHERWOOD (1986) INC.

P.O. BOX 998
34 DUNCAN AVE. NORTH
KIRKLAND LAKE, ONTARIO, CANADA
P2N 3L3

September 5, 1991

Battle Mountain (Canada) Inc.
390 Bay Street
Suite 2910
Toronto, Ontario
M5H 2Y2

Attention: Mr. Wayne Benham

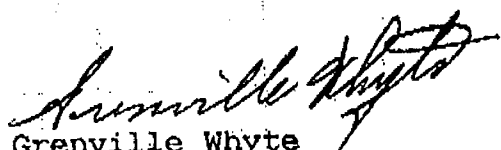
Subject: Mobilization and demobilization of diamond drill
equipment for your Rand, Amalgamated Kirkland and Teck
"A" Properties 1991 summer drill project.
Heath & Sherwood Drilling (1986) Inc. Reference #91-0226

Dear Wayne,

The lump sum cost of mobilization and demobilization for this
project is \$1034.00 and is amortized over the metrage rate.

Yours truly,

HEATH & SHERWOOD DRILLING (1986) INC.


Grenville Whyte
Contractor

GW:bb





DOCUMENT No.
W9180-05108

A.F.L.

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for req. Recorder.
 - A separate copy of this form must be completed
 - Technical reports and maps must accompany this
 - A sketch, showing the claims the work is assigned



42A01NE0123 80 TECK

900

Recorded Holder(s) BATTLE MOUNTAIN (CANADA) INC.		Client No. 105640
Address Suite 2910, 390 Bay Street, Toronto, Ontario M5H 2Y2		Telephone No. (416) 867-9815
Mining Division Larder Lake	Township/Area Teck Township	M or G Plan No. M 392
Dates Work Performed From: June 10, 1991		To: August 30, 1991

Work Performed (Check One Work Group Only)

Work Group	Type
<input type="checkbox"/> Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, Including Drilling	Drilling
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

ONTARIO GEOLOGICAL SURVEY
GIS - ASSESSMENT FILES
JAN 31 1992
RECEIVED

Total Assessment Work Claimed on the Attached Statement of Costs \$ 179,775.93

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Wayne Benham (Author)	P. O. Box 635, Kirkland Lake, Ont. P2N 3K1
Heath & Sherwood Drilling (1986) Inc.	P. O. Box 998, Kirkland Lake, Ont. P2N 3L3
Swastika Laboratories	P. O. Box 10, Swastika, Ontario P0K 1T0
Mark W. Masson (Geologist)	P. O. Box 1343, Kirkland Lake, Ont. P2N 3P2

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date Nov 1, 1991	Recorded Holder or Agent (Signature) <i>Orval E. Leigh</i> Orval E. Leigh
--	----------------------------	--

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying Wayne Benham, P. O. Box 635, Kirkland Lake, Ontario P2N 3K1		
Telephone No. (705) 567-4840	Date Nov 6, 1991	Certified By (Signature) <i>W. Benham</i>

For Office Use Only

Total Value Cr. Recorded 12,359.50 \$167416.43 (banked)	Date Recorded Nov 06, 1991	Mining Recorder <i>[Signature]</i>	Received Stamp NOV 6 PM 2 54
	Deemed Approval Date Nov 06, 1991	Date Approved Nov. 06/91	
	Date Notice for Amendments Sent		

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction

DOCUMENT No.

W9180-05108

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	28,315.04	
	Field Supervision Supervision sur le terrain		28,315.04
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type Drilling	121,739.52	
	Assaying	17,223.95	
	Data Processing	675.00	139,638.47
Supplies Used Fournitures utilisées	Type Field	1,417.06	
	Core racks	3,120.00	
	Office	30.74	
	Printing & Photocopying	283.20	4,851.00
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			172,804.51

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Truck Rental	2,090.88	
	Shipping, Courier	255.70	
	Fuel	470.52	
			2,817.10
Food and Lodging Nourriture et hébergement		3,667.02	3,667.02
Mobilization and Demobilization Mobilisation et démoblisation		487.30	487.30
Sub Total of Indirect Costs Total partiel des coûts indirects			6,971.42
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			6,972.42
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			179,775.93

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	x 0,50 =

Certification Verifying Statement of Costs

I hereby certify: that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as V.P. & Exploration Manager I am authorized (Recorded Holder, Agent, Position in Company)

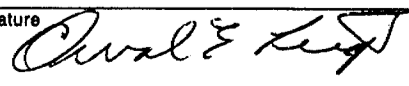
to make this certification

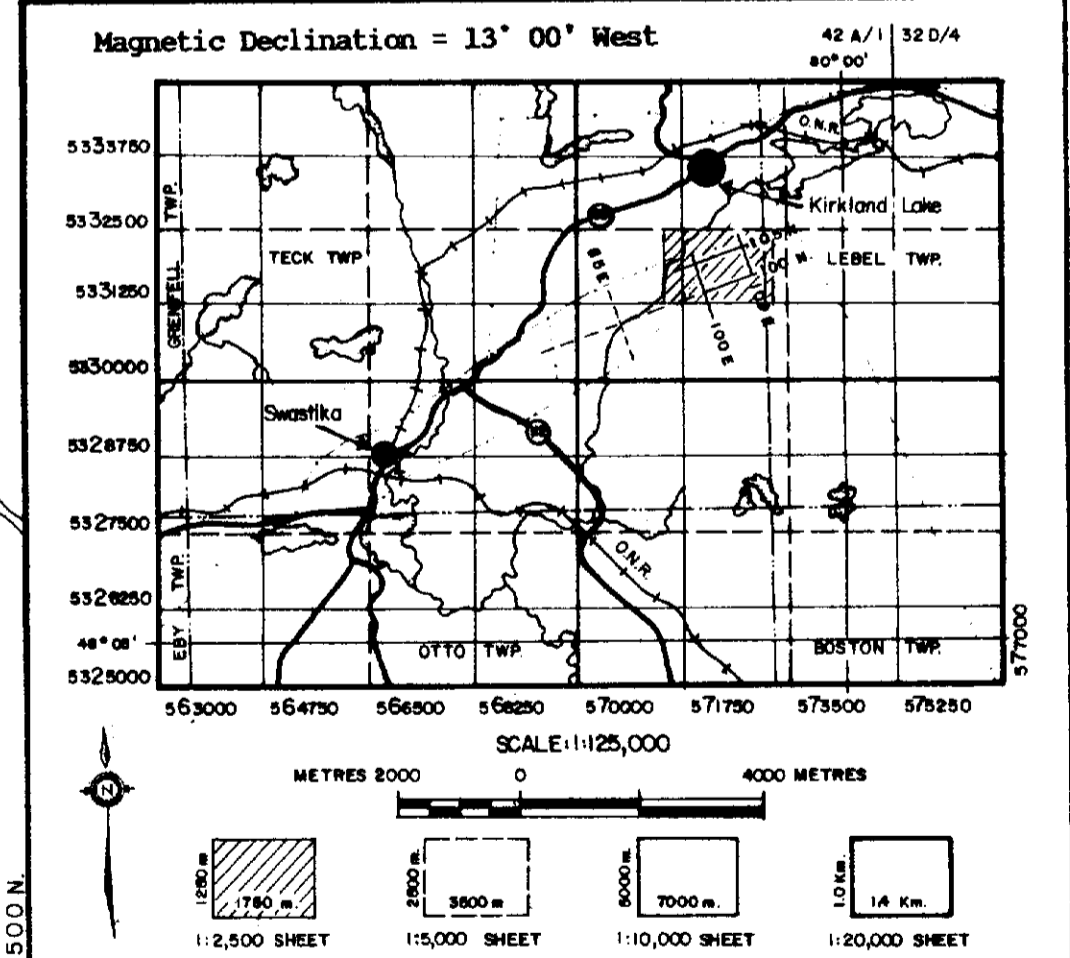
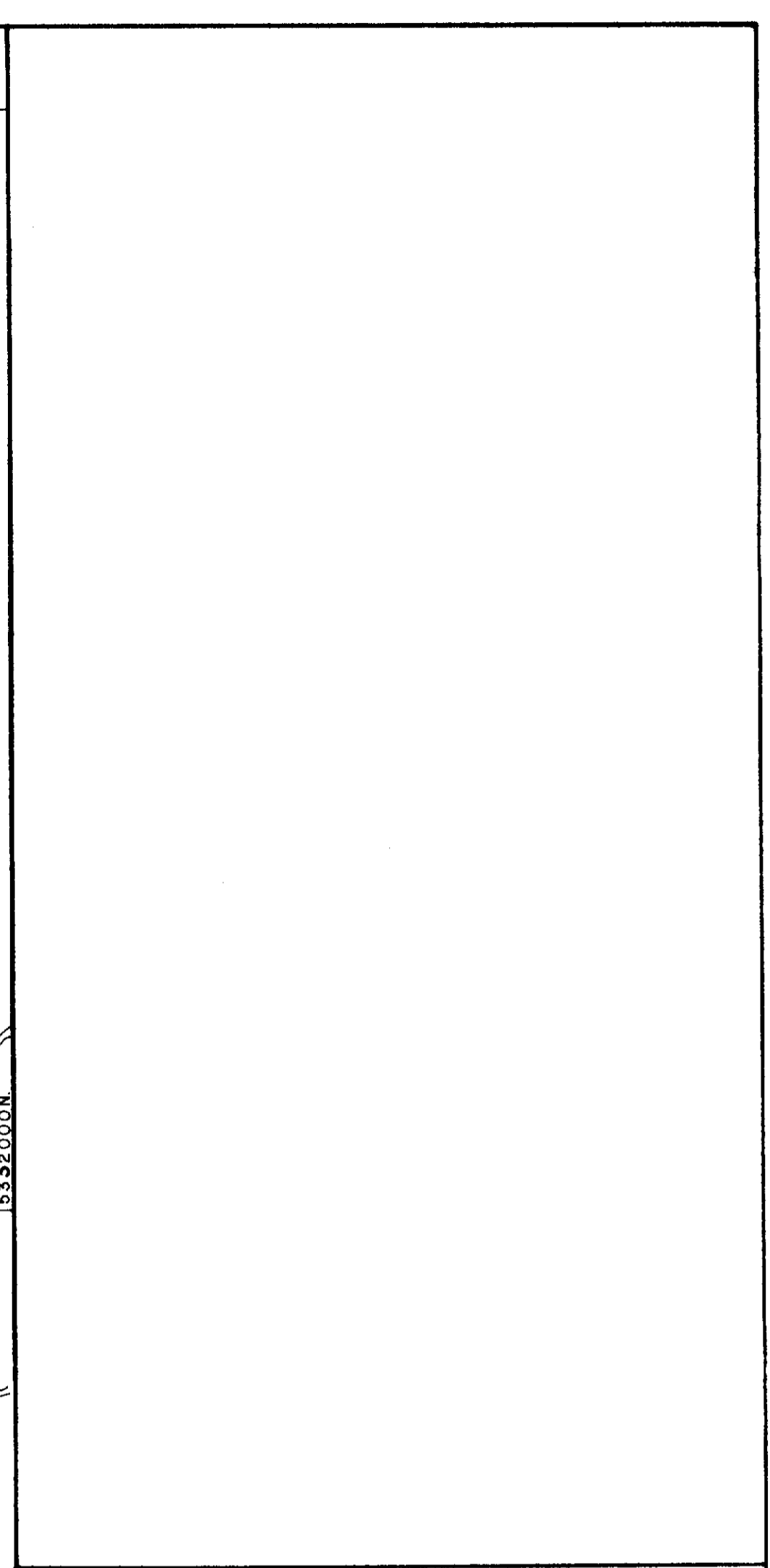
Attestation de l'état des coûts

J'atteste par la présente : que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature 	Date Oct. 31, 1991
---	-----------------------

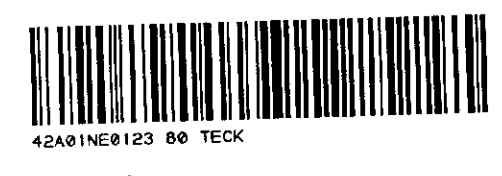


BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 ONTARIO
 KIRKLAND GOLD RAND PROPERTY
 1991
DD.H. PLAN

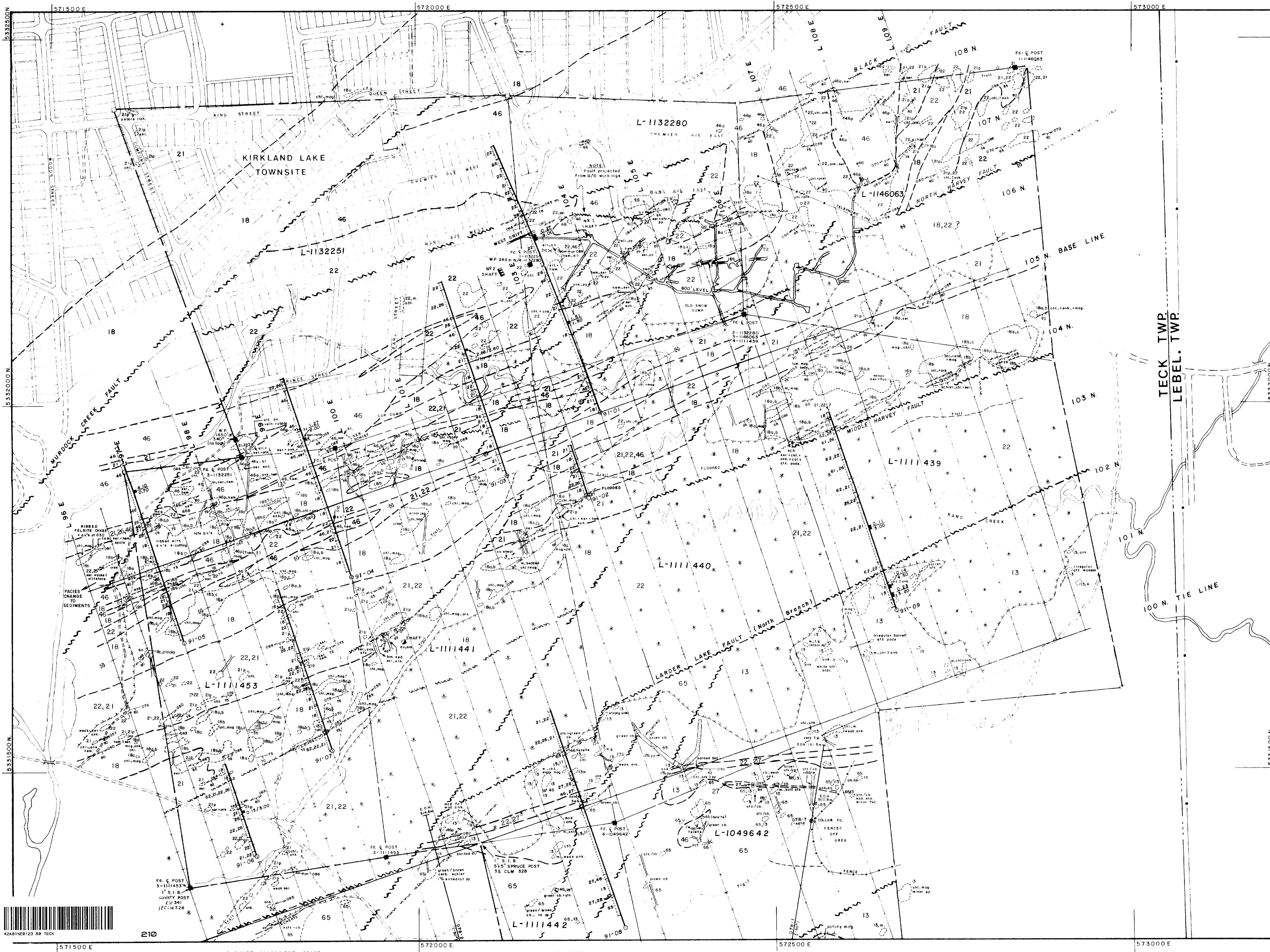
PROJECT No. 75-JV-28	DATA BY
NTS 42A/1 & 32D/4	DRAWN BY B.H. Madill, Tech.
DRAWING No DP-002	DATE 07/25/91
SCALE: 1:2500	

42A/1 & 32D/4



200





LEGEND

60 ALTERATION	61 Chlorite + Calc Carbonate + Quartz	62 Weak 63 Moderate 64 Strong	65 Sericite + Carbonate Chlorite + Quartz	66 Carbonate + Chlorite Fuchsite + Quartz	67 Weak 68 Moderate 69 Strong	69 Carbonatized Syenite	40 INTRUSIVES	41 Diabase	42 Lamprophyre	43 Peridotite	44 Pyroxenite	45 Gabbro	46 Diorite	46 Syenite	461 Augite Syenite	462 Mela Syenite	463 Meso Syenite	464 Leuco Syenite	20 SEDIMENTS	21 Conglomerate	22 Graywacke	23 Arenite	24 Siltstone	25 Mudstone	27 Iron Formation	10 VOLCANICS	11 Kamatilites	13 Basalts	16 Trachytes	18a Flows	18b Tuffs
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SYMBOLS

Bedding, dipping, vertical (facing unknown)	Bedding, dipping, vertical, overturned (facing known)	Pillar, dipping direction, dipping, vertical, overturned	Foliation (S2 or S1b), dipping, vertical, dip unknown	Foliation, dipping, vertical	Joint, dipping, vertical	Fault, dipping, vertical	Shear zone, defined, inferred	Mineral elongation strike and plunge	Synclinal, Anticlinal Axis	Geological contact, known, inferred	Diamond Drill Hole	Outcrop Area	Limit of deep subcrop	Historic trench	Pit or trench outline	Shaft
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GRAIN/CLAST SIZE

SEDIMENTARY ROCKS	a - fine grained	b - medium grained	c - coarse grained	p - pebble	e - boulder	g - grit
VOLCANIC ROCKS	fs - ash tuff	lt - lapilli tuff	cb - block tuff	fl - flow	fb - flow breccia	
IGNEOUS ROCKS	fg - fine grained	mg - medium grained	cg - coarse grained	p - pegmatitic		

ABBREVIATIONS

agp - augite porphyritic	amp - amphybolite	ank - ankerite	bx - breccia	ca - calcite	cb - carbonite	ch - chlorite	cp - chalcocite	fc - fractured	fd - found	fuc - fuchsite	fp - feldspar porphyritic	fsp - feldspathic	gf - graphitic	hem - hematite	lam - laminated	m - massive	mag - magnetite	p - pillowed	pb - galena	py - pyrite	found	bl - bleached	bs - boulder	q.v. - quartz vein	ser - sericitic	sil - siliceous	sp - sphalerite	spx - spinifex	sh - sheared	trc - trachoidal	vgt - varfolitic	ves - vesicular	sch - schist	qtz - quartz	jsp - jasper
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Magnetic Declination = 13° 00' West

47A/1320/4
80°00'

SCALE 1:125,000

0 4000 METRES

1:2,500 SHEET 1:10,000 SHEET 1:20,000 SHEET

BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT

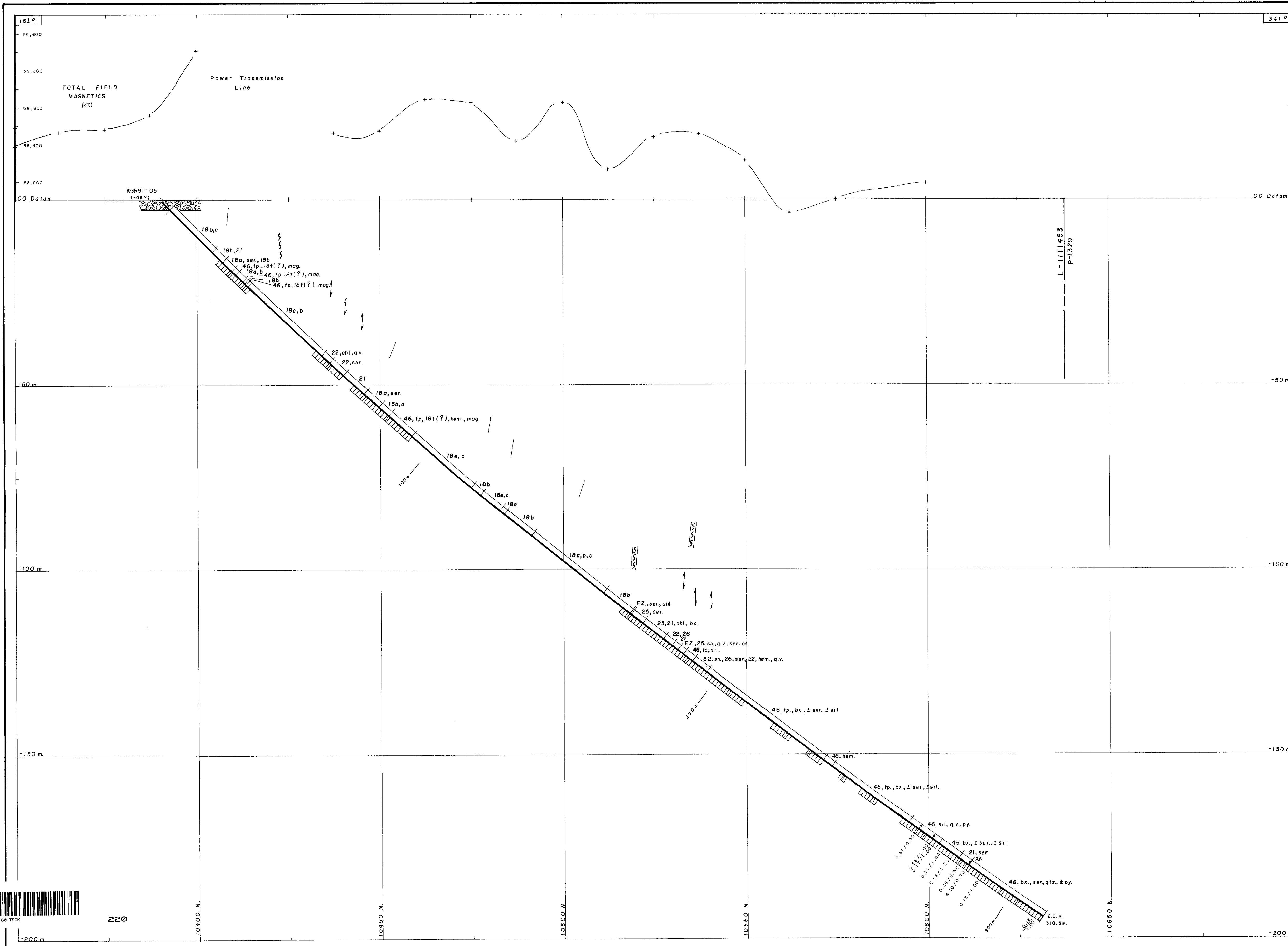
ONTARIO
KIRKLAND GOLD RAND PROPERTY
(GEOLOGY PLAN)
WITH
1991 DRILL HOLE GEOLOGY

PROJECT No.: 75-JV-28	DATA BY: Mark Masson, W. Benham
NTS: 42A/18 320/4	DRAWN BY: B.H. Madill, Tech.
DRAWING No.: GL-021 (NORTH SHEET)	DATE: July 1991

SCALE: 1:2500

0 50 100 metres



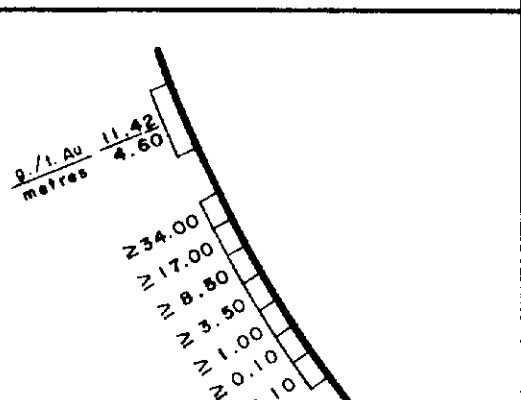


LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18d Lithic Tuff
463 Feldspar Porphyry	18e Monolithic Tuff
	18f Flow

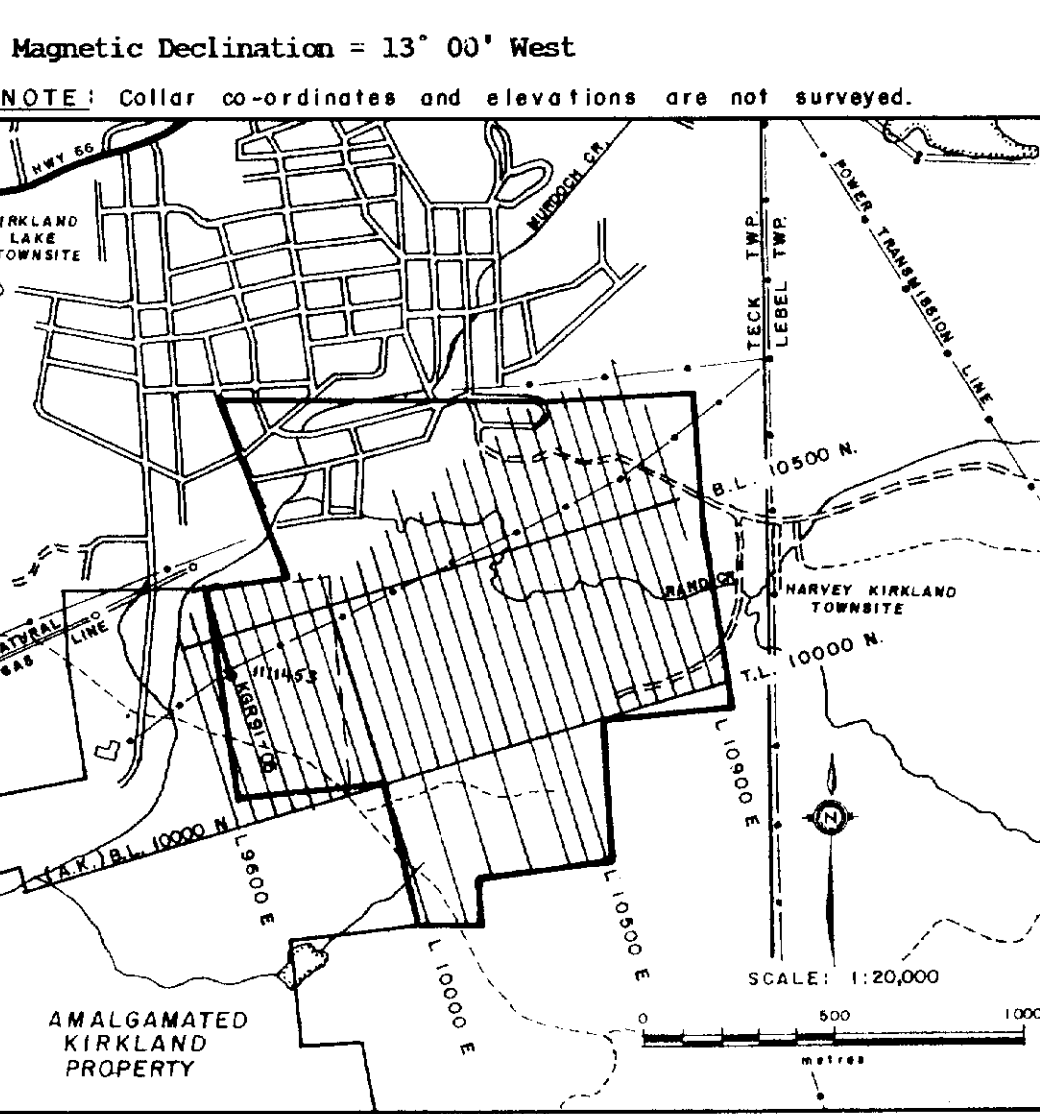
SYMBOLS

- Bedding, Contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization



ABBREVIATIONS

alb - albite	chl - chloritic	spc - specularite
cpd - calcite paragonitic	fp - feldspar porphyritic	qtz - quartz
omg - omphacitoid	fsp - feldspathic	qv - quartz vein
amp - amphibolite	f.z. - fault zone	sch - schist
ank - ankerite	gf - graphitic	ser - sericitic
bl - bleached	hem - hematite	sil - silicic
bld - boulder	jsp - jasper	sp - specularite
bx - breccia	lam - laminated	spx - sphalerite
ca - calcite	m - massive	sh - sheared
cb - carbonate	mag - magnetite	trc - trachoid
cp - chalcopyrite	p - pitted	var - varietal
f.c - fractured	pb - galena	ves - vesicular
fc - fuchsite	py - pyrite	vg - visible gold



BATTLE MOUNTAIN (CANADA) INC.

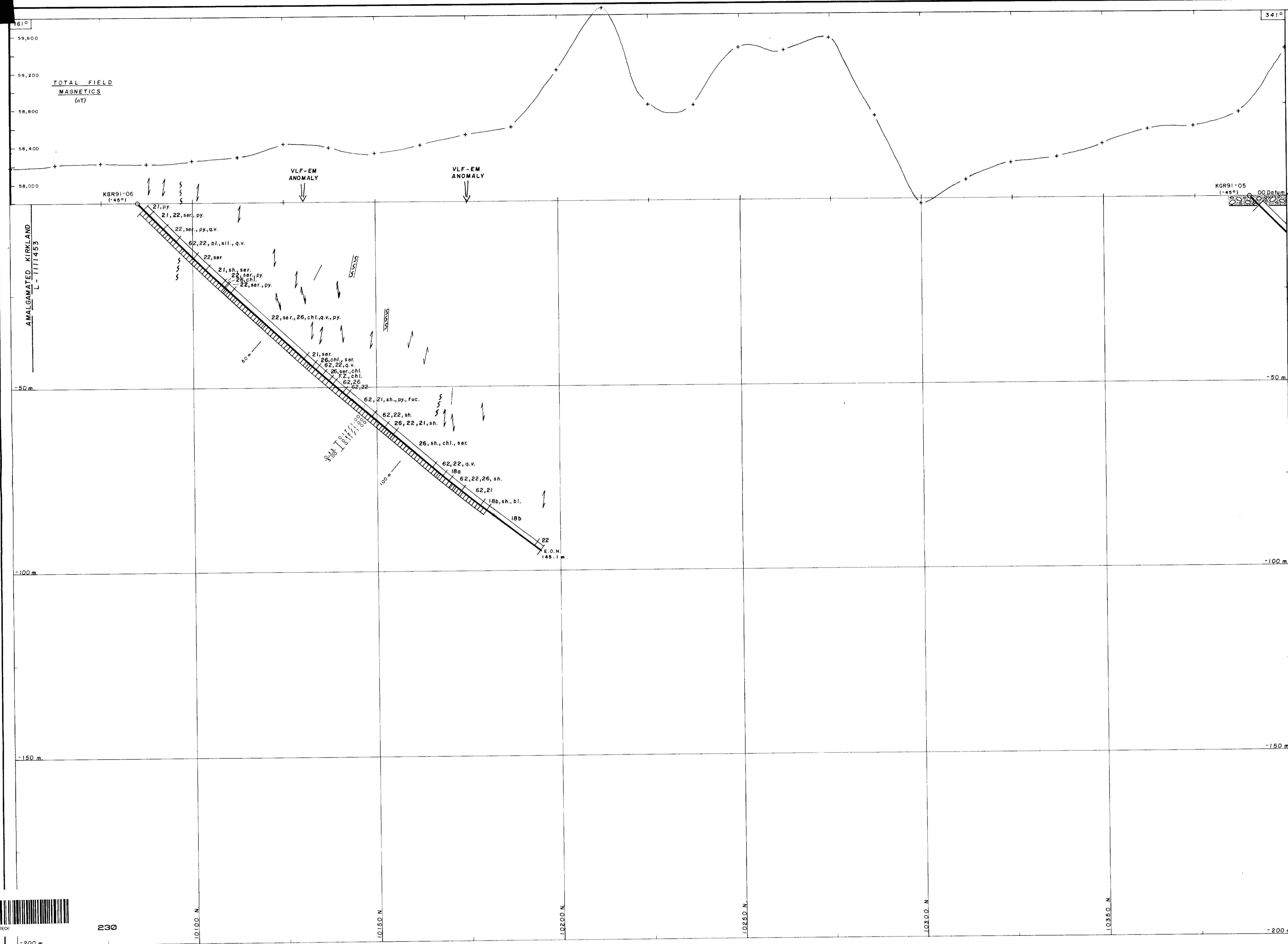
KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
KIRKLAND GOLD RAMP PROPERTY

SECTION 9700E
D.D.H. KGR91-05

PROJECT No: 75-JV-28	DATA BY: M. Masson / W. Benham
NTS: 42 A / 1	DRAWN BY: B.H. Modill, Tech.
DRAWING No: DC-029	DATE: July 1991

SCALE: 1:500





LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	23 Siltstone
64 Silicic	24 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18d Lithic Tuff
465 Feldspar Porphyry	18e Monolithic Tuff

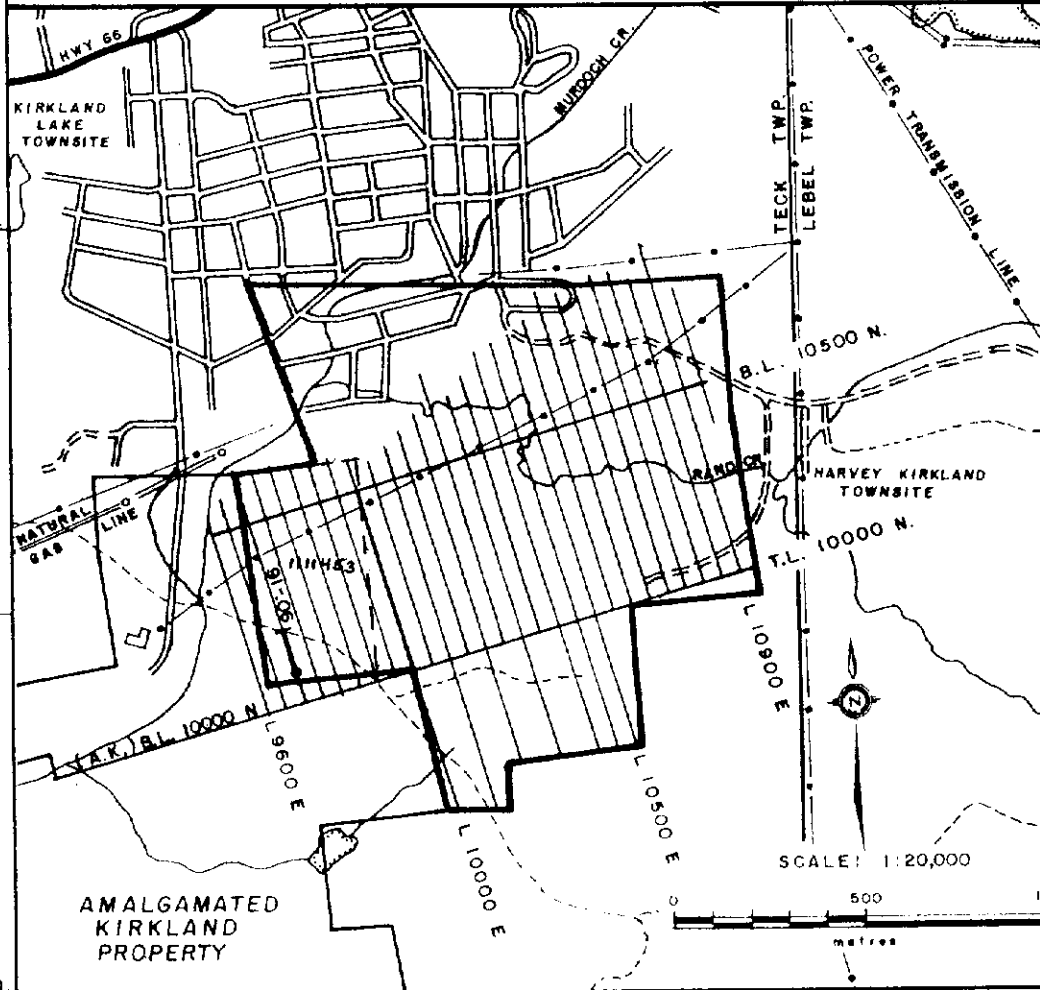
SYMBOLS

- Bedding, Contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization
- Crenulation cleavage

ABBREVIATIONS

agp - augite porphyritic	fp - feldspar porphyritic	qtz - quartz
amg - amegastatite	fsp - feldspathic	qv - quartz vein
amp - amphibolite	fz - fault zone	sch - schist
ank - ankerite	gf - graphitic	ser - sericitic
bl - bleached	hm - hematite	sil - silicic
bls - boulder	jsp - jasper	sp - sphalerite
bx - breccia	lam - laminated	spa - spineliferous
cc - calcite	m - massive	sh - shalard
cb - carbonate	mag - magnetite	trc - trachoid of
cp - chalcopyrite	p - pillowed	var - varietal
f.c - fractured	pb - galena	ves - vesicular
fuc - fuchsite	py - pyrite	v.g - visible gold
chl - chloritite	alb - albite	spc - specularite
fol - foliated		

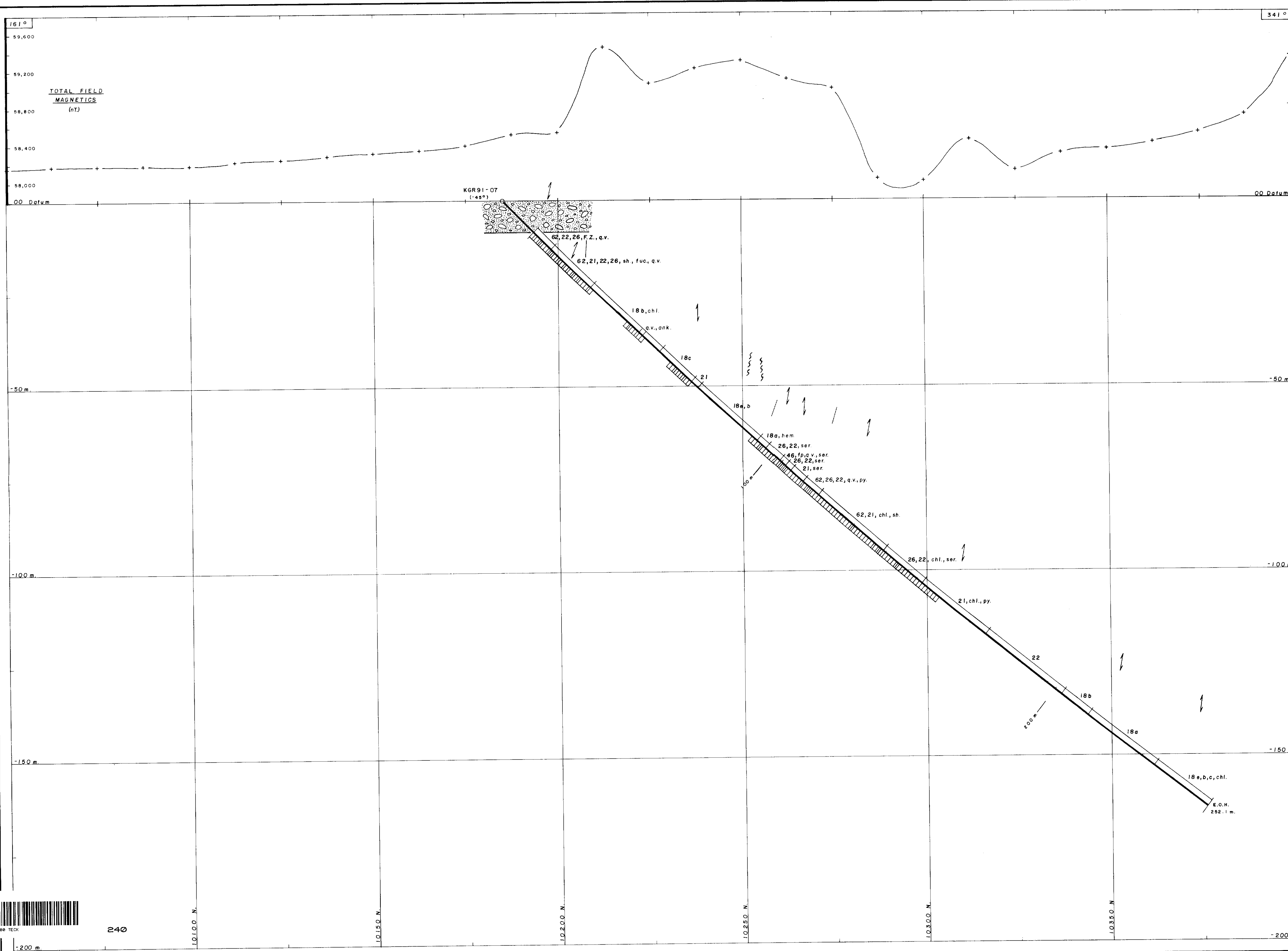
Magnetic Declination = 13° 00' West
 NOTE: Collar co-ordinates and elevations are not surveyed.



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
KIRKLAND GOLD RAND PROPERTY
SECTION 9700 E
 D.D.H. KGR91-06

PROJECT No.: 75-JV-28	DATA BY: W. Benham
NTS: 42 A / 1	DRAWN BY: S.H. Madill, Tech
DRAWING No.: DC-030	DATE: July 1991
SCALE: 1:500	

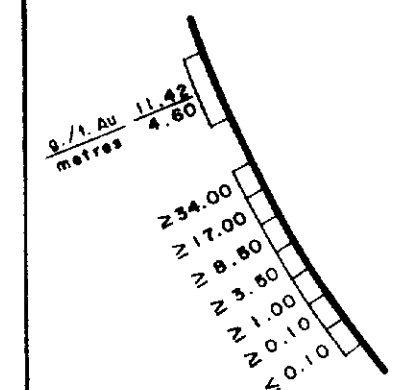


LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hamatitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18a Trachytes
42 Lamprophyre	18a1 Ash Tuff
46 Syenite	18a2 Lapilli Tuff
461 Augite Syenite	18a3 Block Tuff
462 Mafic Syenite	18a4 Lithic Tuff
465 Feldspar Porphyry	18a5 Monolithic Tuff

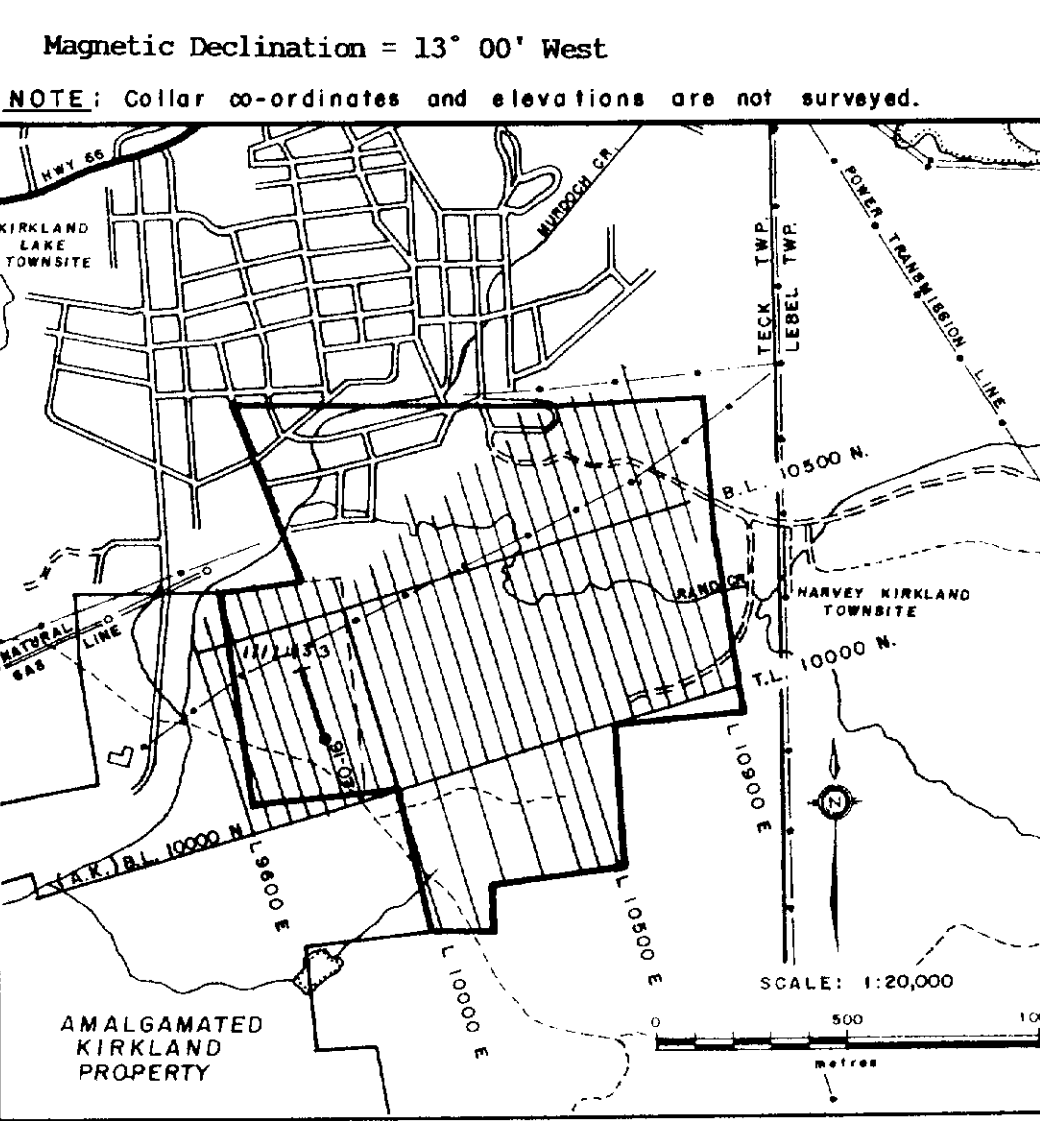
SYMBOLS

- Bedding, Contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization



ABBREVIATIONS

agg - augite porphyritic	fp - feldspar porphyritic	qtz - quartz
amg - amygdules	fsp - feldsparitic	q.v. - quartz vein
amp - amphibolite	f.z. - fault zone	sch - schist
ank - enkerite	gf - graphitic	ser - sericitic
bl - bleached	hem - hematite	sil - silicic
blt - boulder	isp - Jasper	sp - sphalerite
br - breccia	lam - laminated	spk - spinifex
ca - calcite	M. - massive	sh - sheared
cb - carbonate	mag - magnetite	trc - trachoidal
cp - chalcopyrite	p - pillowed	var - varietalitic
fc - fractured	pb - galena	ves - vesicular
fuc - fuchsite	py - pyrite	v.g. - visible gold
chl - chlorite	alb - albite	spc - spicularite



BATTLE MOUNTAIN (CANADA) INC.

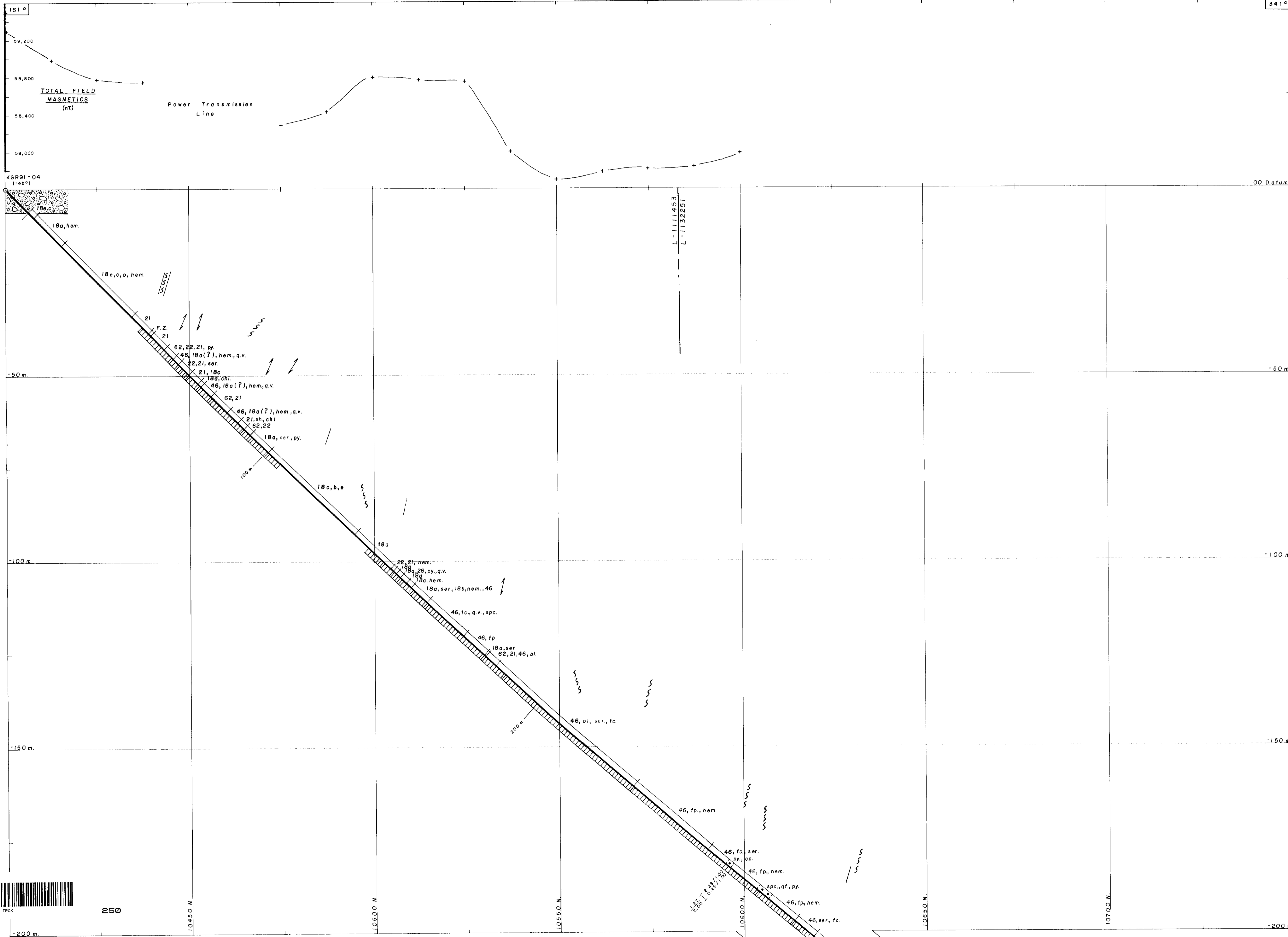
KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO

KIRKLAND GOLD RAND PROPERTY

SECTION 9850 E
D.D.H. KGR91-07

PROJECT No.: 75-JV-28	DATA BY: M. Masson / W. Benham
NTS: 42 A / 1	DRAWN BY: B.H. Modill, Tech.
DRAWING No: DC-031	DATE: July 1991

SCALE: 1:500

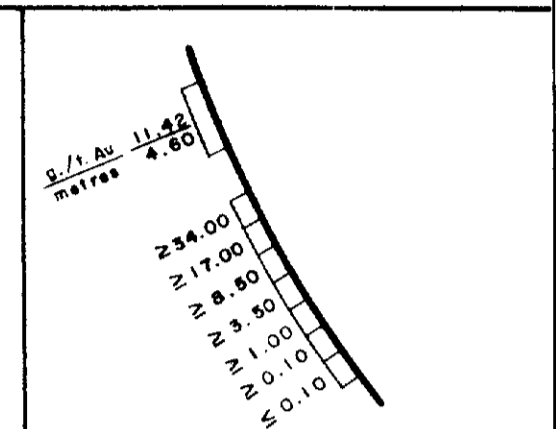


LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
412 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18d Lithic Tuff
465 Feldspar Porphyry	18e Monolithic Tuff

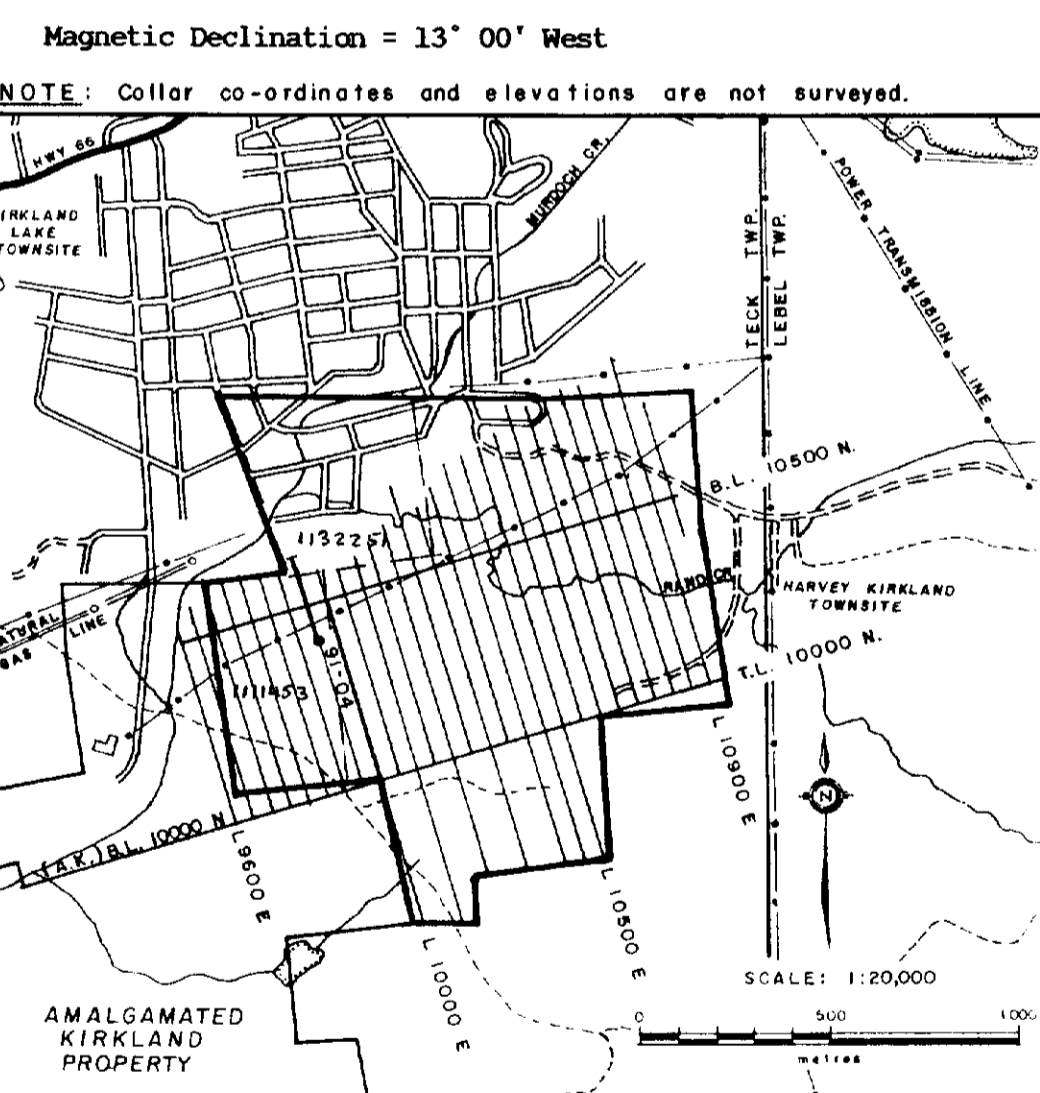
SYMBOLS

Bedding, Contacts
Breccia
Facing direction
Foliation
Fault, Fault Zone
Drag folding
Pyrite Mineralization



ABBREVIATIONS

alb - albite	chl - chloritic	spc - specularite
agp - augite porphyritic	fp - feldspar porphyritic	qtz - quartz
omg - omegadolomite	fsp - feldspathic	qv - quartz vein
amp - amphibolite	fz - fault zone	sch - schist
ank - ankerite	gf - graphitic	ser - sericitic
bl - bleached	hem - hematite	sil - silicic
bl - boulder	jsp - jasper	sp - sphalerite
bx - breccia	lam - laminated	spx - spinifex
cd - calcite	m - massive	sh - shalveed
cb - carbonate	mag - magnetite	trc - trachoidal
cp - chalcopyrite	p - pillowed	var - variscitic
fc - fractured	pb - galena	ves - vesicular
fuc - fuchsite	py - pyrite	v.g - visible gold



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO

KIRKLAND GOLD RAMP PROPERTY

SECTION 9950 E
D.D.H. KGR91-04

PROJECT No.: 75-JV-28	DATA BY: M. Masson / W. Benham
NTS: 42 A / 1	DRAWN BY: B.H. Madill, Tech.
DRAWING No.: DC-028	DATE: July 1991

SCALE: 1:500



250

10450.0 N

10500.0 N

10550.0 N

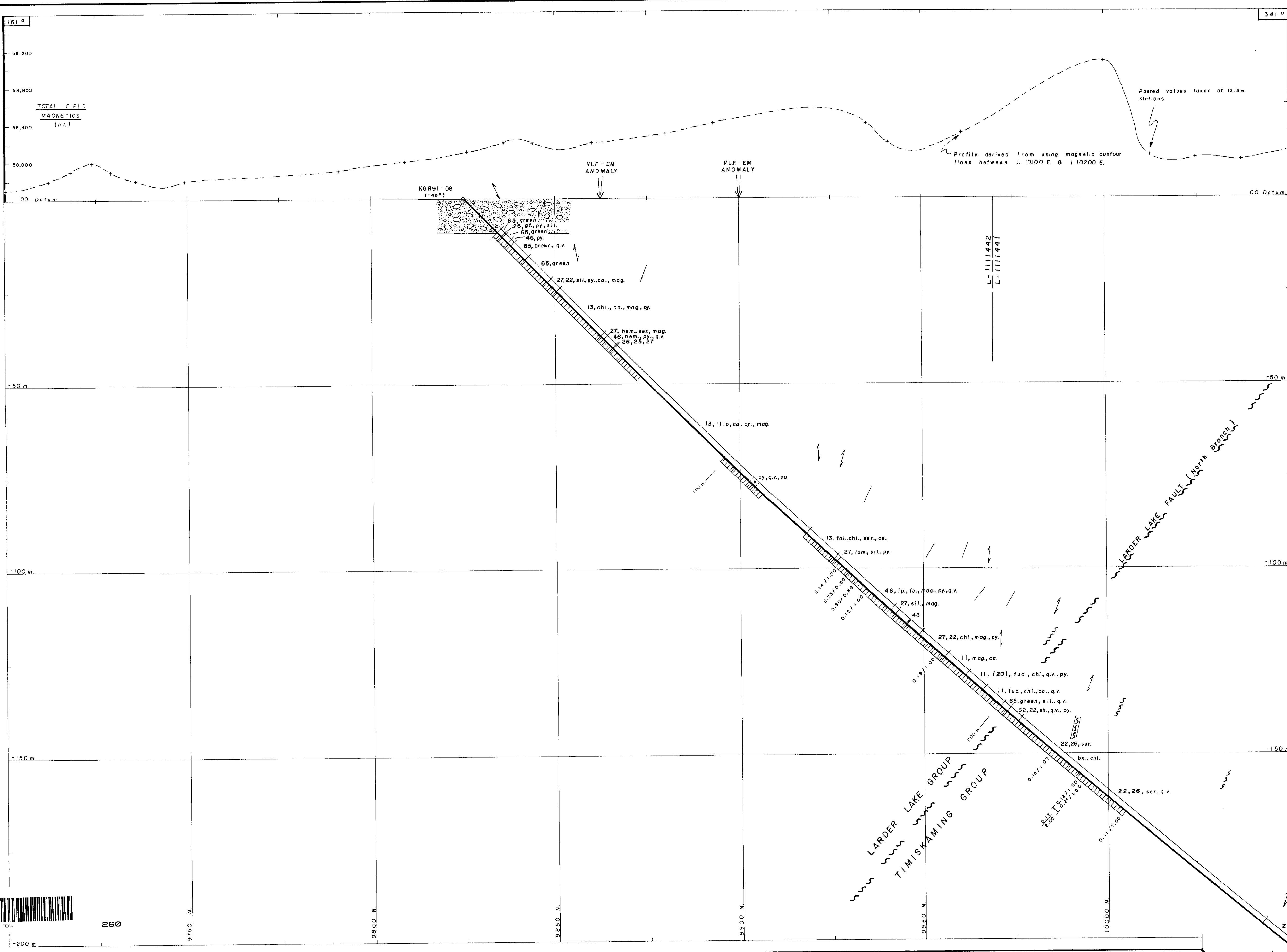
10600.0 N

10650.0 N

10700.0 N

L-1111453
L-1113251

E.O.M.
313.3m



LEGEND

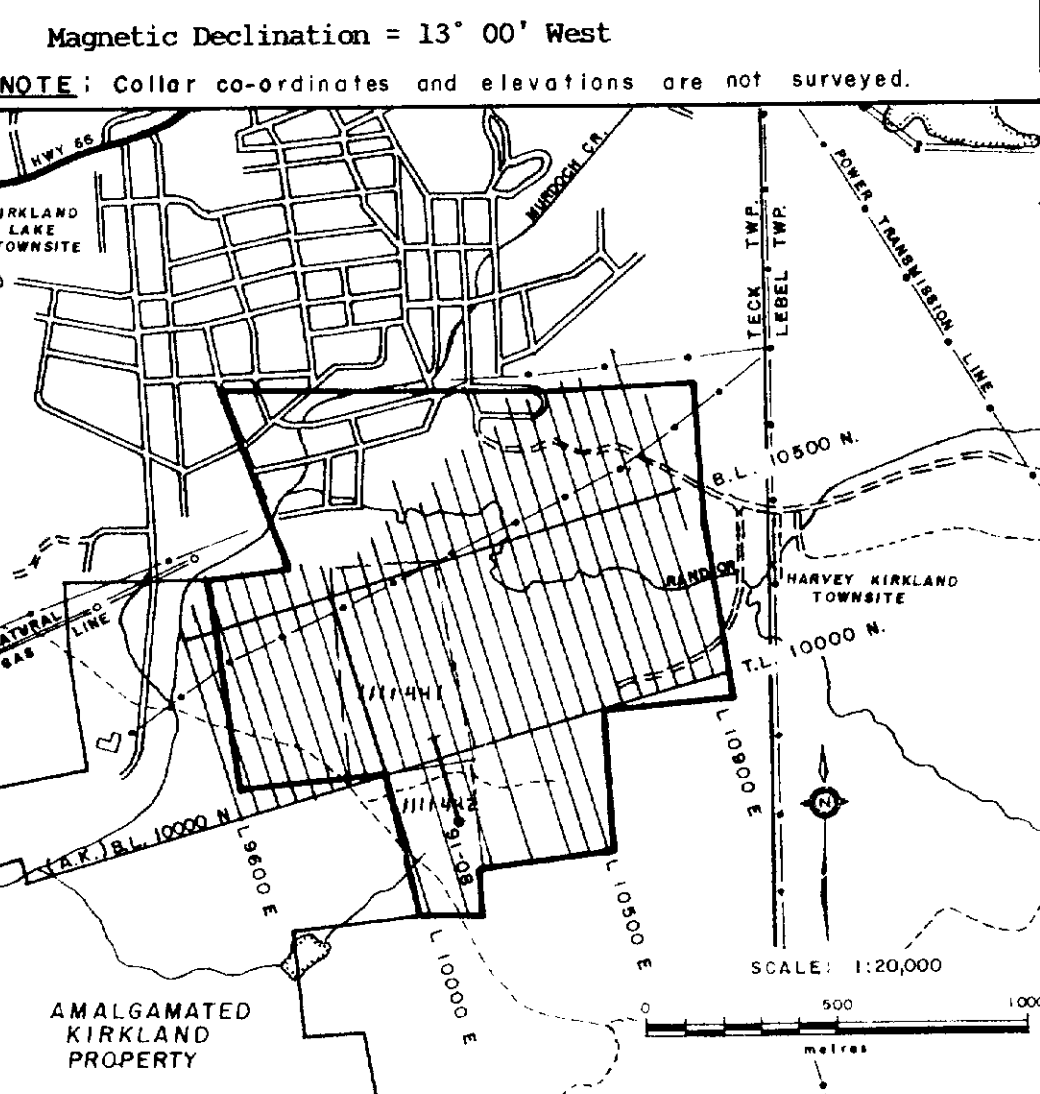
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	27 Iron Formation
40 INTRUSIVES	10 VOLCANICS
41 Diabase	11 Komatiites
42 Lamprophyre	13 Basalts
46 Syenite	18 Trachytes
461 Augite Syenite	18a Ash Tuff
462 Mafic Syenite	18b Lapilli Tuff
465 Feldspar Porphyry	18c Block Tuff
	18d Lithic Tuff
	18e Monolithic Tuff

SYMBOLS

- Bedding, Contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

ABBREVIATIONS

agp - augite porphyritic	fp - feldspar porphyritic	qtz - quartz
amg - amygdule	fsp - feldspathic	q.v. - quartz vein
amp - amphibolite	fz - fault zone	sch - schist
ank - ankerite	gf - graphitic	ser - sericitic
bl - bleached	hem - hematite	sil - silicic
bid - boulder	jsp - jasper	sp - spaterite
bx - breccia	lam - laminated	spx - spinifex
ca - calcite	m - massive	sh - shered
cb - carbonate	mag - magnetite	trc - trachytoid
cp - chalcopyrite	p - pillowed	var - variolitic
fc - fracture	pb - galena	ves - vesicular
fuc - fuchsite	py - pyrite	v.g. - variable grade
chl - chlorite	alb - albite	spc - specularite
fol - foliated		



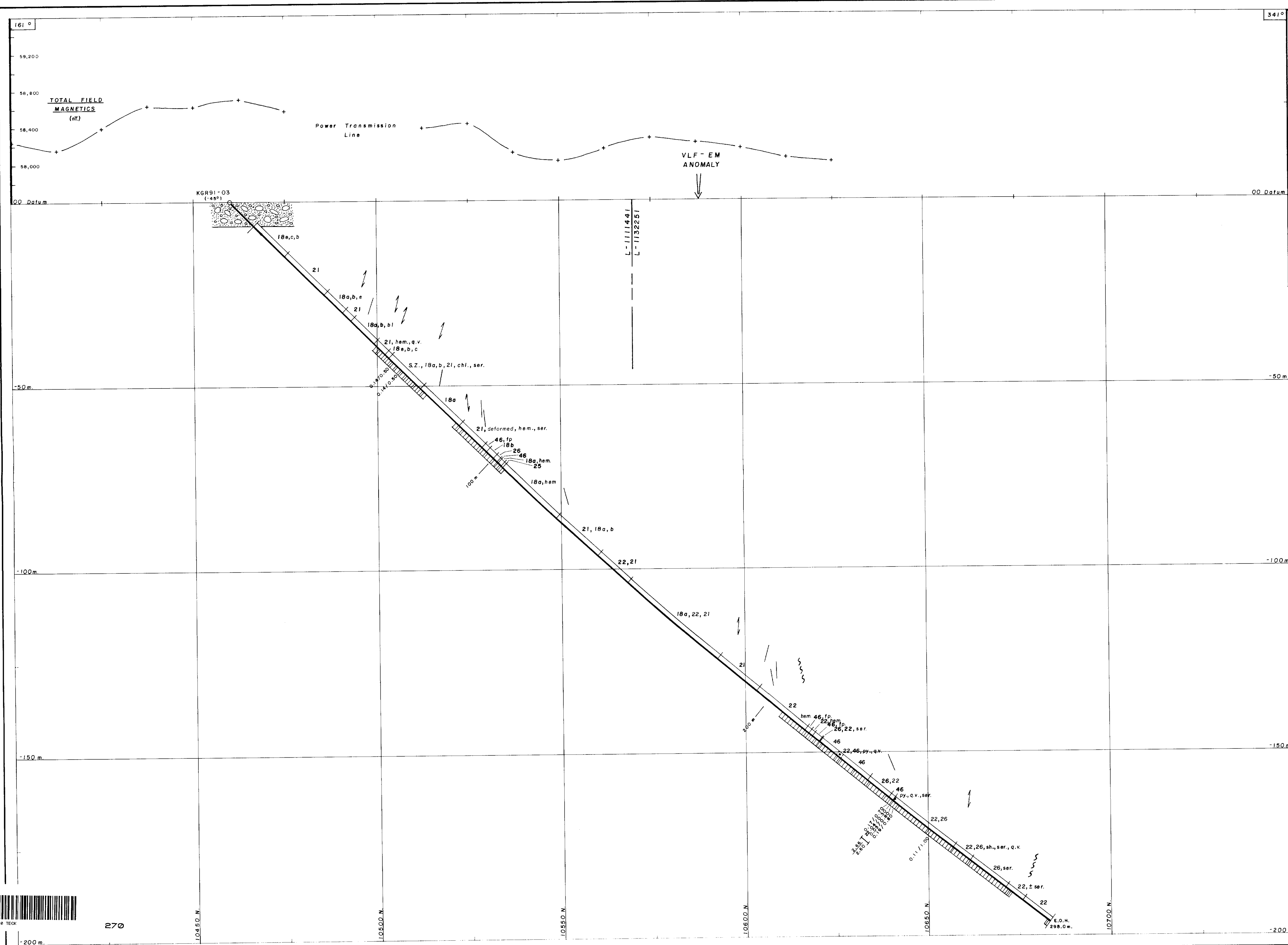
BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
KIRKLAND GOLD RAND PROPERTY

SECTION 10150E
D.D.H. KGR91-08

PROJECT No.: 78-JV-28	DATA BY: M. Masson / W. Benham
NTS: 42 A / 1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-032	DATE: July 1991

SCALE: 1:500



LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18a Ash Tuff
42 Lamprophyre	18b Lapilli Tuff
46 Syenite	18c Block Tuff
46.1 Augite Syenite	18d Lithic Tuff
46.2 Mafic Syenite	18e Monolithic Tuff
46.5 Feldspar Porphyry	

SYMBOLS

- Bedding, Contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization

ABBREVIATIONS

alb - albite	chl - chloritic	spc - specularite
app - augite porphyritic	fp - feldspar porphyritic	qtz - quartz
amp - amphibolite	fsp - felsparitic	q.v. - quartz vein
om - omphacite	fz - fault zone	sch - schist
ank - ankerite	gf - graphitic	ser - sericitic
bl - bleached	hem - hematite	sil - silicic
bid - boulder	jsp - jasper	sp - apophanite
bx - breccia	lam - laminated	spc - specularite
ca - calcite	m - massive	sh - shered
cb - carbonate	mag - magnetite	trc - trachoidal
cp - chalcopyrite	p - pillowed	var - variolitic
fc - fractured	pb - galena	ves - vesicular
fuc - fuchsite	py - pyrite	vg - visible gold

Magnetic Declination = 13° 00' West

NOTE: Collar co-ordinates and elevations are not surveyed.

AMALGAMATED KIRKLAND PROPERTY

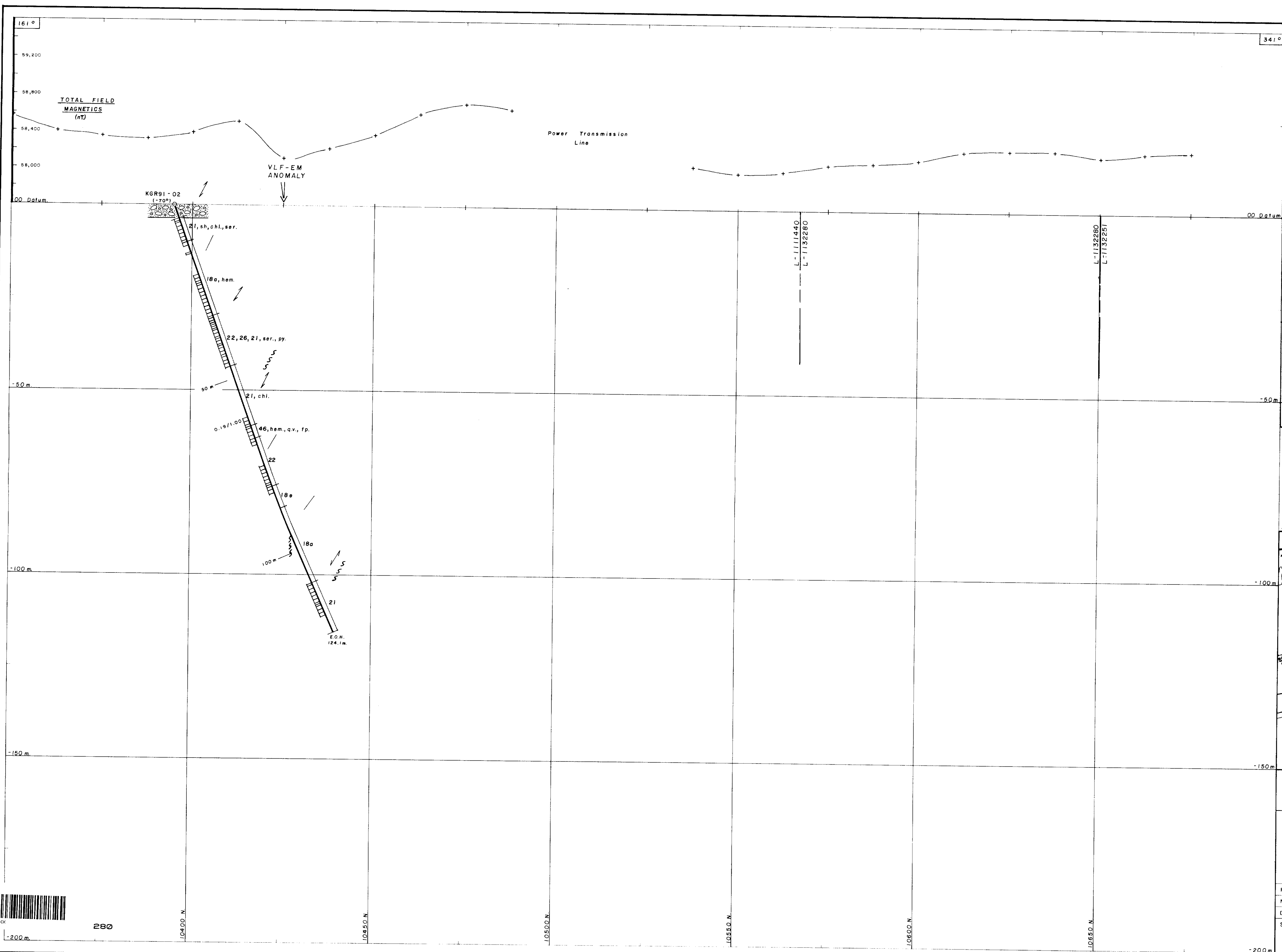
BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO

KIRKLAND GOLD RAMP PROPERTY

SECTION 10200 E
D.D.H. KGR91-03

PROJECT No.: 75 - JV - 28	DATA BY: M. Masson / W. Benham
NTS: 42 A / 1	DRAWN BY: B.H. Madill, Tech.
DRAWING No.: DC - 027	DATE: June 1991
SCALE: 1:500	



LEGEND

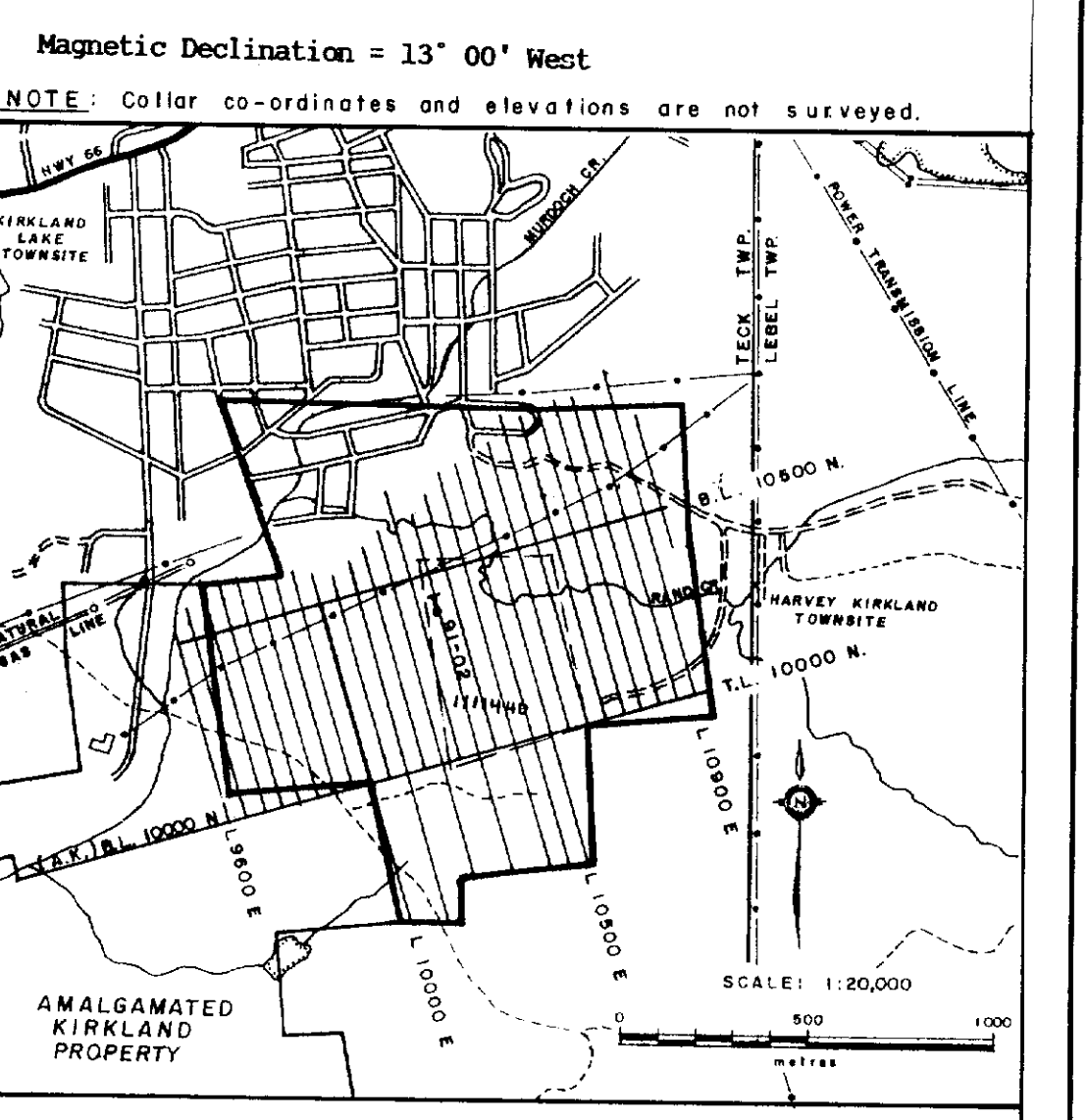
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
65 Carbonatized	
40 INTRUSIVES	10 VOLCANICS
41 Diabase	18 Trachytes
42 Lamprophyre	18a Ash Tuff
46 Syenite	18b Lapilli Tuff
461 Augite Syenite	18c Block Tuff
462 Mafic Syenite	18d Lithic Tuff
465 Feldspar Porphyry	18e Monolithic Tuff

SYMBOLS

Bedding, Contacts	
Breccia	
Facing direction	
Foliation	
Fault, Fault Zone	
Drag folding	
Pyrite Mineralization	

ABBREVIATIONS

alb - albite	chl - chloritic	spc - specularite
agp - augite porphyritic	fp - feldspar porphyritic	qtz - quartz
amg - amygdules	fsp - feldspar	qv - quartz vein
amp - amphibolite	fz - fault zone	sch - schist
ank - ankerite	gf - graphitic	ser - sericitic
bl - bleached	hem - hematite	sil - silicic
bid - boulder	jsp - jasper	sp - sphalerite
bx - breccia	lam - laminated	spk - spinifex
ca - calcite	m - massive	sh - shales
cb - carbonate	mag - magnetite	trc - trachoidal
cp - chatoyant	p - pillowed	vor - vermicular
fc - fractured	pb - galena	ves - vesicular
fac - facies	py - pyrite	v.g - visible gold



BATTLE MOUNTAIN (CANADA) INC.

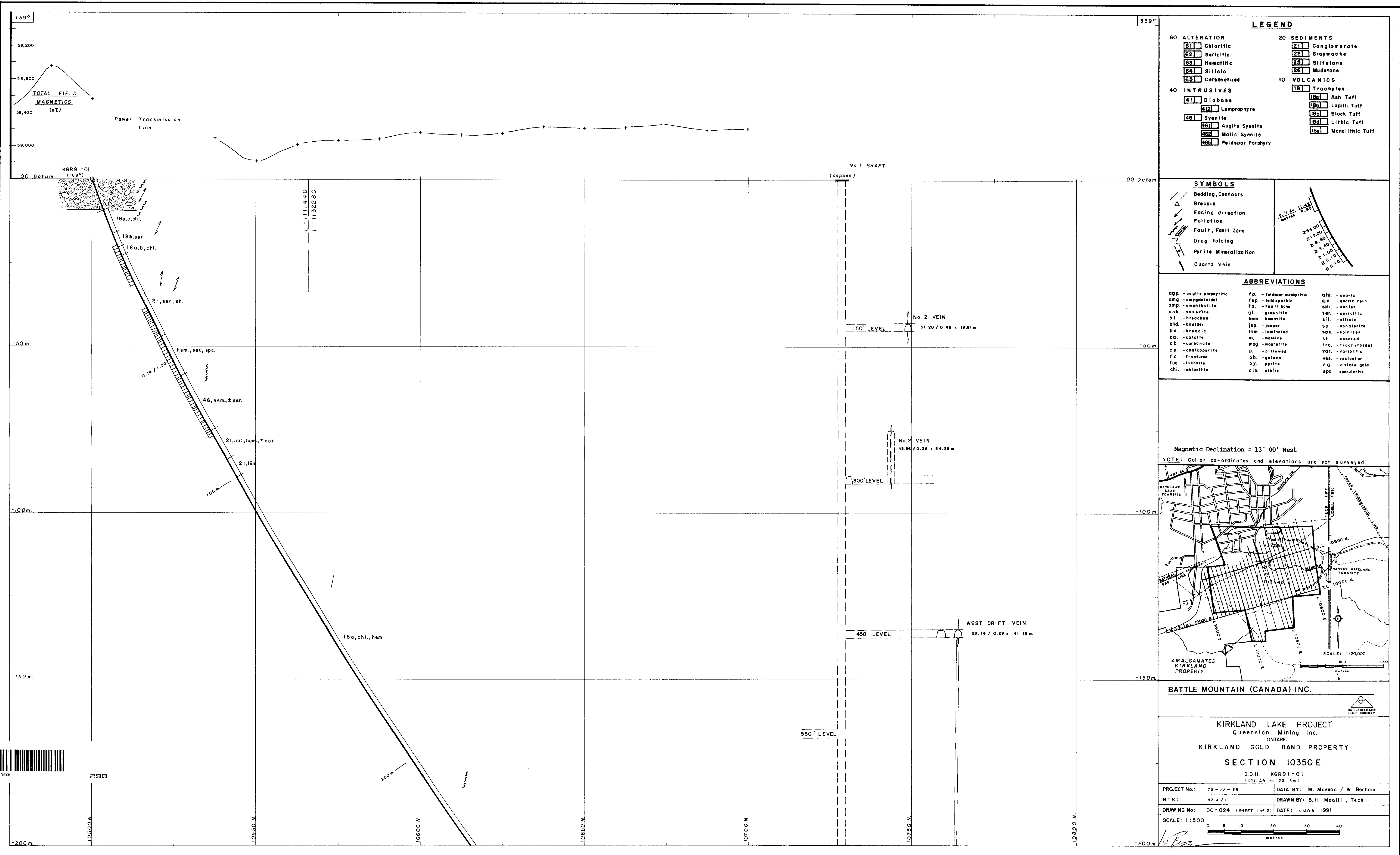
KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO

KIRKLAND GOLD RAMP PROPERTY

SECTION 10298 E
D.D.H. KGR91-02

PROJECT No.: 75-JV-28	DATA BY: M. Masson / W. Benham
NTS: 42 A / 1	DRAWN BY: B.H. Modill, Tech.
DRAWING No.: DC-026	DATE: June 1991

SCALE: 1:500



LEGEND

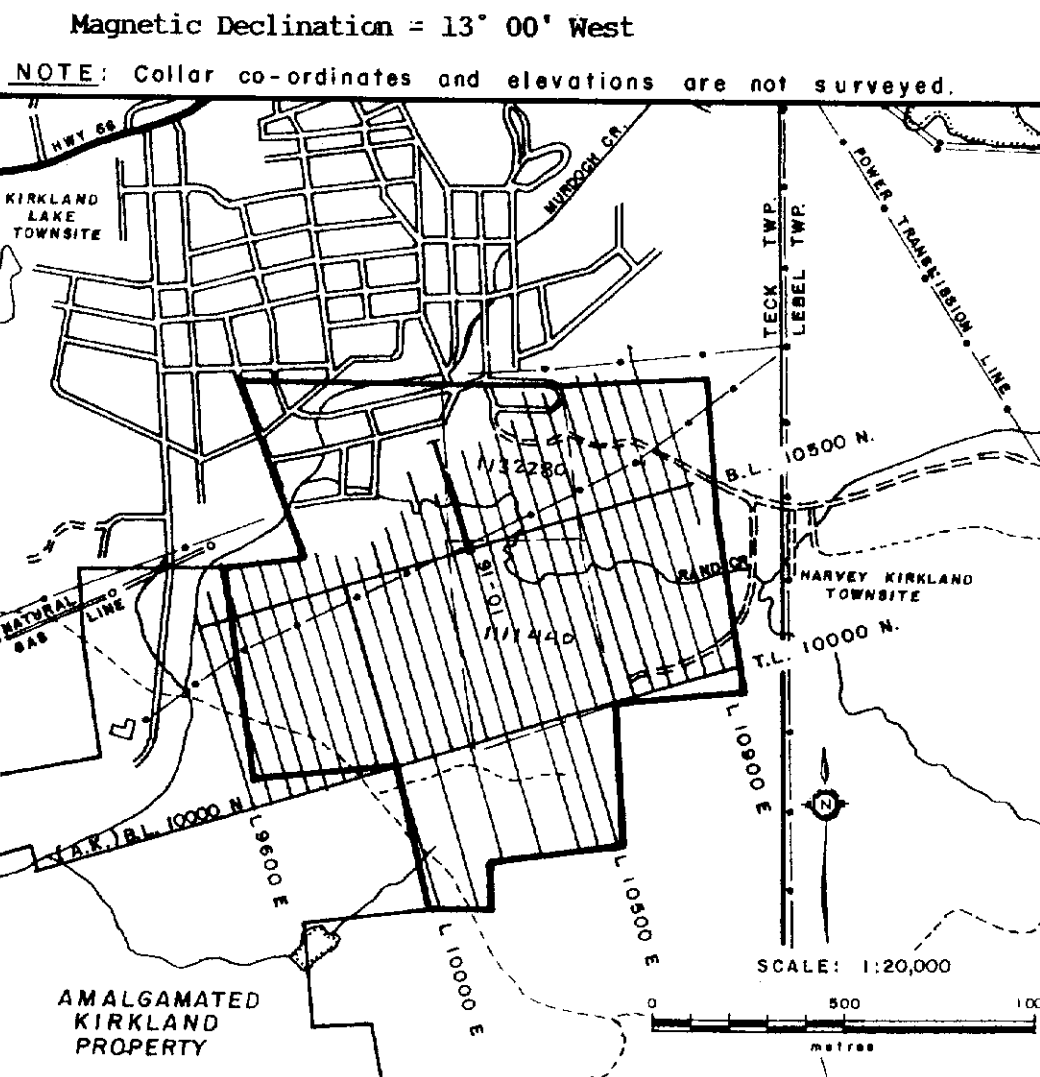
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	23 Siltstone
64 Silicic	24 Mudstone
65 Carbonatized	25 Trachytes
40 INTRUSIVES	18 Ash Tuff
41 Diabase	18a Lapilli Tuff
42 Lamprophyre	18b Block Tuff
43 Syenite	18c Lithic Tuff
431 Augite Syenite	18d Monolithic Tuff
432 Mafic Syenite	
433 Feldspar Porphyry	

SYMBOLS

- Bedding, Contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization
- Quartz Vein

ABBREVIATIONS

agp - augite porphyritic	fp - feldspar porphyritic	qtz - quartz
amg - amygdaloidal	fsp - feldspathic	q.v. - quartz vein
amp - amphibolite	fz - fault zone	sch - schist
ank - ankerite	gf - graphitic	ser - sericitic
bl - bleached	hem - hematite	sil - silicic
bls - boulder	isp - Jasper	sp - sphalerite
bx - breccia	lam - laminated	spx - spinifex
cc - calcite	m - massive	sh - shaled
cd - carbonate	mag - magnetite	trc - trachytoidal
cp - chatteopyrite	pl - pillowed	vor - variscitic
fc - fractured	pb - galena	ves - vesicular
fuc - fuchsite	py - pyrite	v.g. - visible gold
chl - chlorite	alb - albite	spc - specularite



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO
KIRKLAND GOLD RAND PROPERTY

SECTION 10350 E

D.D.H. KGR91-01
(COLLAR to 231.5m)

PROJECT No: 75-JV-28	DATA BY: M. Masson / W. Benham
NTS: 42 A / 1	DRAWN BY: B.H. Madill, Tech.
DRAWING No: DC-024 (SHEET 1 of 21)	DATE: June 1991

SCALE: 1:500

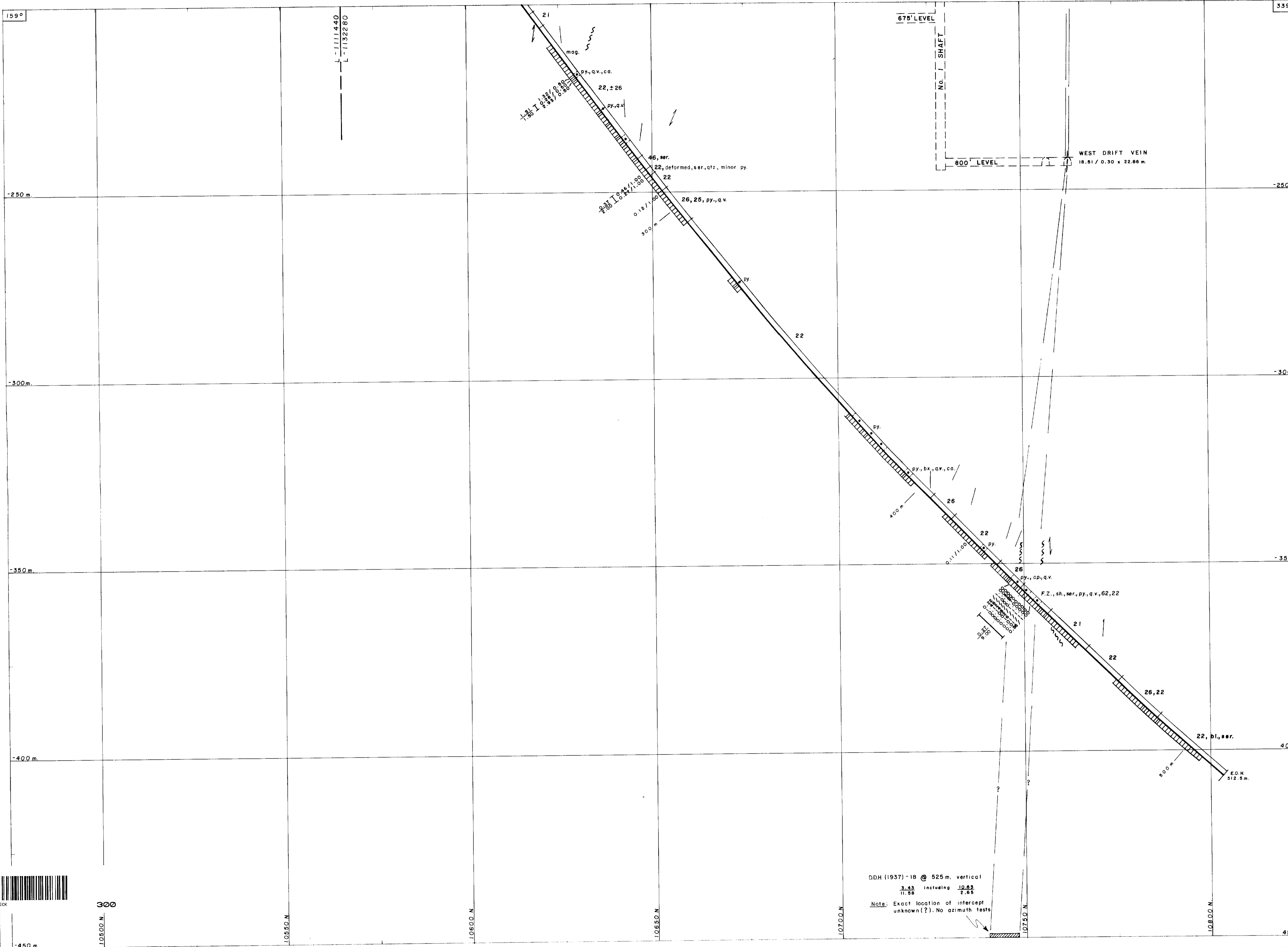


SHEET ALIGNMENT POINT +

SHEET ALIGNMENT POINT +

+ SHEET ALIGNMENT POINT

+ SHEET ALIGNMENT POINT



LEGEND

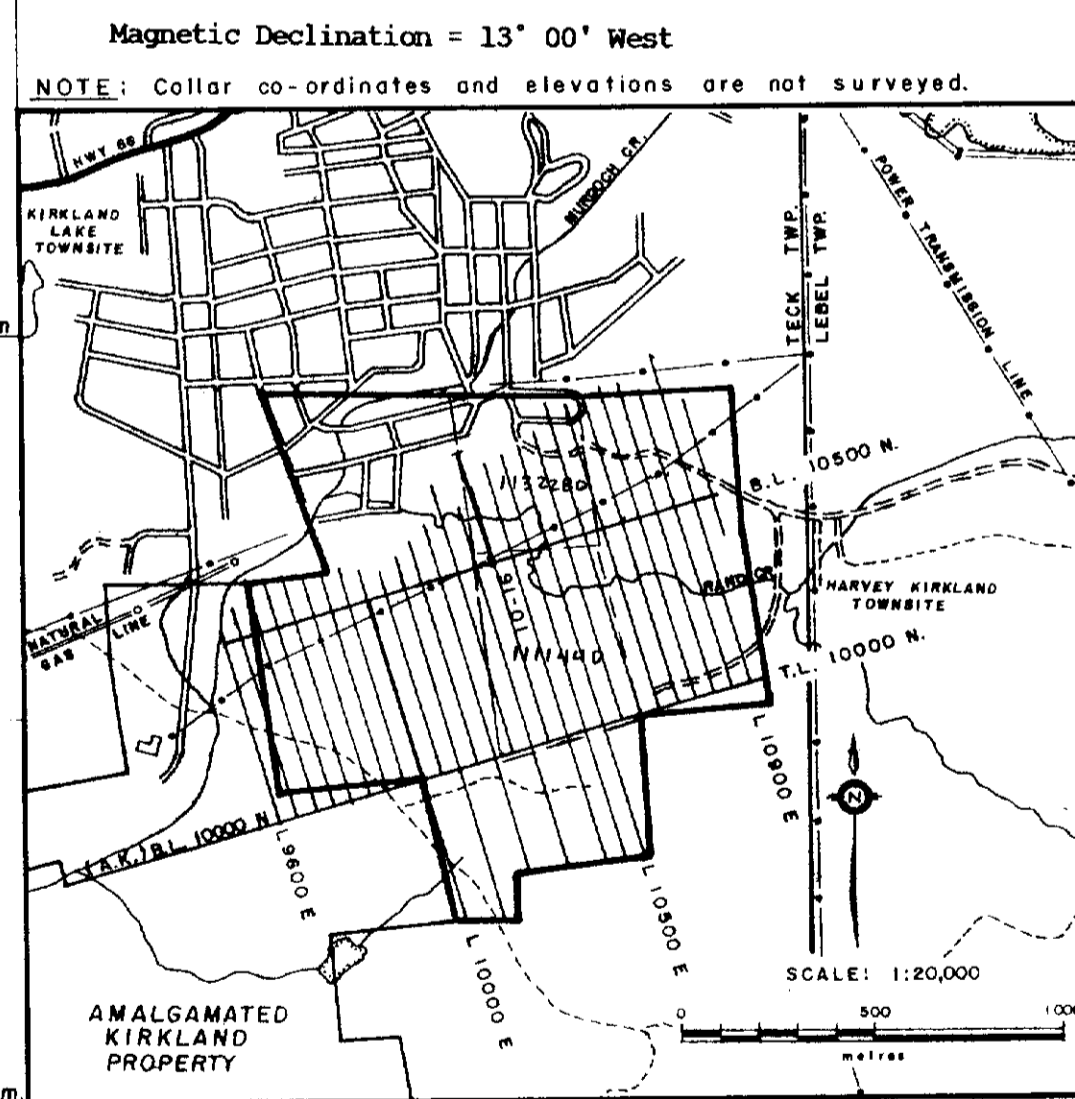
60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	23 Siltstone
64 Silicic	24 Mudstone
65 Carbonatized	10 VOLCANICS
40 INTRUSIVES	18 Trachytes
41 Diabase	18a Ash Tuff
42 Lamprophyre	18b Lapilli Tuff
43 Syenite	18c Block Tuff
43a Augite Syenite	18d Lithic Tuff
43b Mafic Syenite	18e Monolithic Tuff
43c Feldspar Porphyry	

SYMBOLS

- Bedding, Contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization
- Quartz Vein

ABBREVIATIONS

alb - albite	chl - chloritic	spc - apatite
agp - augite porphyritic	fp - feldspar porphyritic	qtz - quartz
amg - amegdaloid	fsp - feldspar	qv - quartz vein
amp - amphibolite	fz - fault zone	sch - schist
ank - ankerite	gf - graphitic	ser - sericitic
bl - bleached	hem - hematite	sil - silicic
bid - boulder	jsp - jasper	sp - apatite
bx - breccia	lam - laminated	spk - apatite
ca - calcite	m - magnetite	sh - sherd
cb - carbonate	mag - magnetite	trc - trachoid
cp - chalcopyrite	p - pillowed	var - variscite
fc - fractured	pb - galena	ves - vesicular
fuc - fuchsite	py - pyrite	v.g - visible gold



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
Queenston Mining Inc.
ONTARIO

KIRKLAND GOLD RAMP PROPERTY

SECTION I0350 E
D.D.H. KGR91-01
(231.5m to 512.5m.)

PROJECT No.: 75-JV-28	DATA BY: M. Mosson / W. Benham
NTS: 42 A / 1	DRAWN BY: B.H. Modill, Tech.
DRAWING No.: DC-025 (SHEET 2 of 2)	DATE: June 1991

SCALE: 1:500

DDH (1937) - 18 @ 525 m. vertical
3.43 including 10.83
11.58 2.66

Note: Exact location of intercept unknown(?). No azimuth tests



42AR1NEB123 88 TECK

300

10500 N

10550 N

10600 N

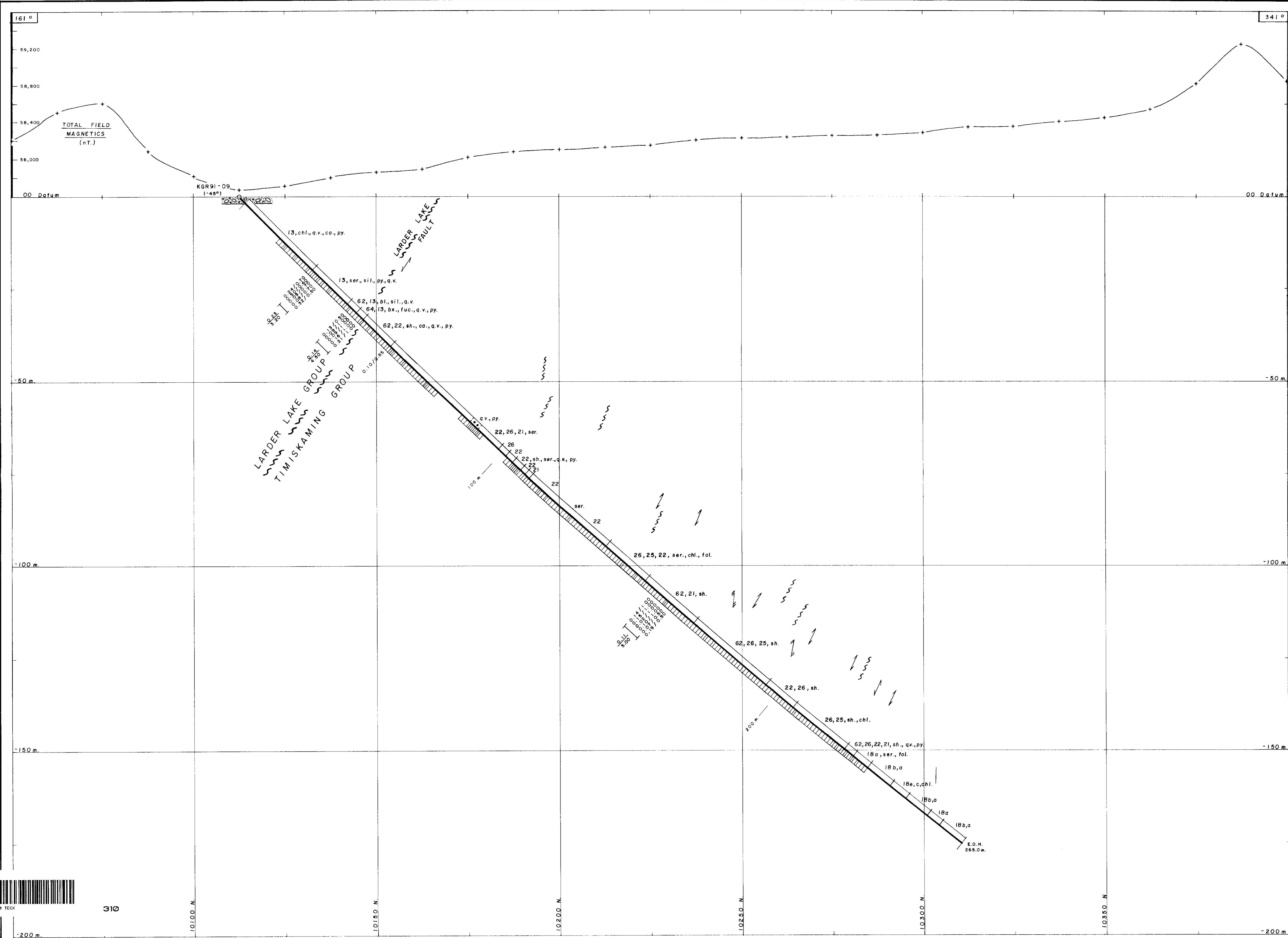
10650 N

10700 N

10750 N

10800 N

450 m



LEGEND

60 ALTERATION	20 SEDIMENTS
61 Chloritic	21 Conglomerate
62 Sericitic	22 Graywacke
63 Hematitic	25 Siltstone
64 Silicic	26 Mudstone
68 Carbonatized	27 Iron Formation
40 INTRUSIVES	10 VOLCANICS
41 Diabase	11 Komatiites
42 Lamprophyre	13 Basalts
46 Syenite	18 Trachytes
461 Augite Syenite	18a Ash Tuff
462 Mafic Syenite	18b Lapilli Tuff
465 Feldspar Porphyry	18c Block Tuff
	18d Lithic Tuff
	18e Monolithic Tuff

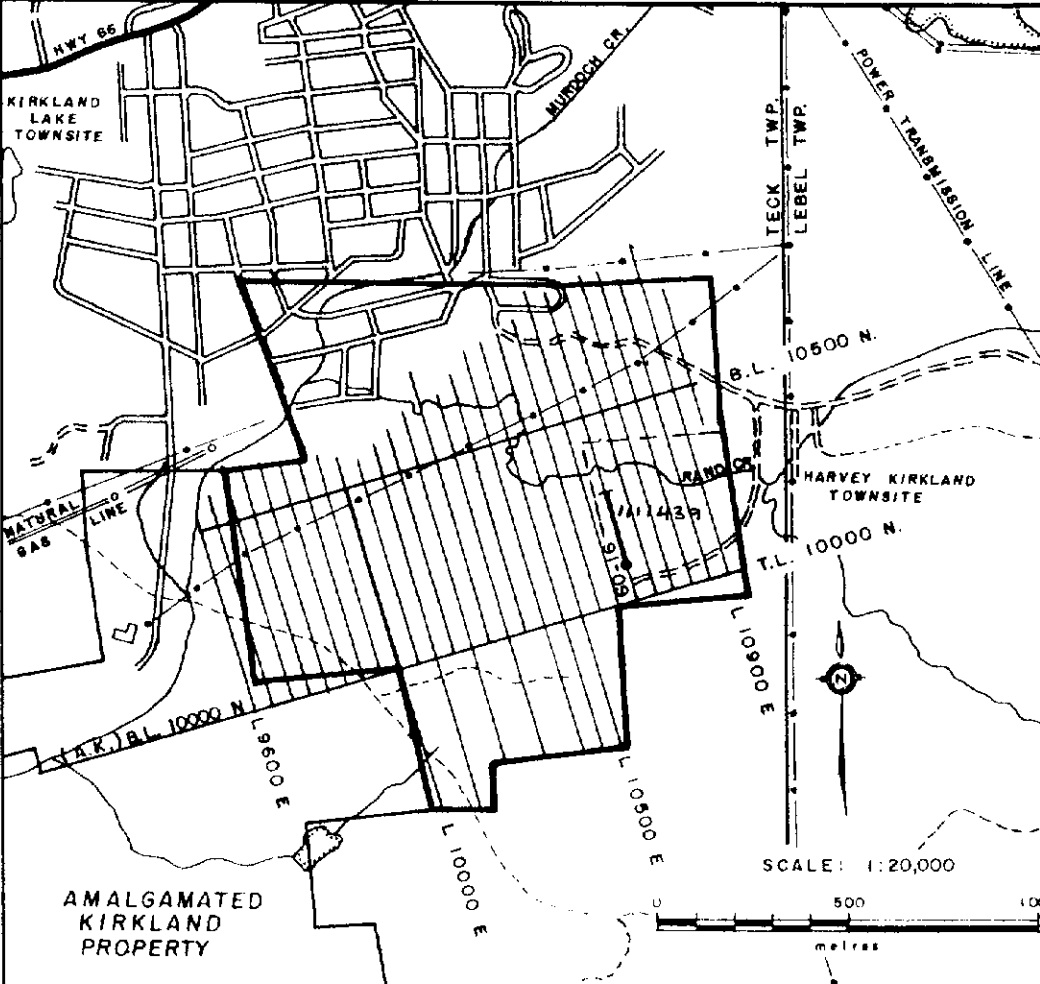
SYMBOLS

- Bedding, Contacts
- Breccia
- Facing direction
- Foliation
- Fault, Fault Zone
- Drag folding
- Pyrite Mineralization
- Crustation cleavage

ABBREVIATIONS

agp - augite porphyritic	fsp - feldspar porphyritic	qtz - quartz
amg - amygdule	fzp - feldspathic	qv - quartz vein
amp - amphibole	fz - fault zone	sch - schist
onk - onkarite	gf - graphitic	ser - sericitic
bl - bleached	hem - hematite	sil - silicic
bid - boulder	jsp - jasper	sp - sphalerite
ba - breccia	lam - laminated	sdx - spinifex
ca - calcite	m - massive	sh - sheared
cb - carbonate	mag - magnetite	trc - trachytoidal
cp - chalcopyrite	p - pillowed	vof - variolitic
fc - fractured	pb - galena	ves - vesicular
fuc - fuchsite	py - pyrite	v.g - visible gold
chl - chlorite	alb - albite	spc - specularite
fol - foliated		

Magnetic Declination = 13° 00' West
 NOTE: Collar co-ordinates and elevations are not surveyed.



BATTLE MOUNTAIN (CANADA) INC.

KIRKLAND LAKE PROJECT
 Queenston Mining Inc.
 ONTARIO
KIRKLAND GOLD RAND PROPERTY
SECTION 10650 E
 D.D.H. KGR91-09

PROJECT No.: 75-JV-28	DATA BY: M. Masson / W. Benham
NTS: 42 A / 1	DRAWN BY: B.H. Modill, Tech.
DRAWING No.: DC-033	DATE: July 1991
SCALE: 1:500	

