

DIAMOND DRILLING

TOWNSHIP: TECK

REPORT NO: 81

WORK PERFORMED FOR: BATTLE MOUNTAIN (CANADA) INC.

RECORDED HOLDER: SAME AS ABOVE [x]

.

: OTHER []

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
L626766	TA-91-01	96.5 m	Oct 91	(1)
P6817	та-91-02	74.9 m	Oct 91	(1)
L626766	TA-91-03	176.3 m	Oct 91	(1)
	2 1	ant	•	

3 DDH/ 344.7

NOTES: (1)

(1) W 9280.00044

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Battle Mountain (Canada) Inc.

KIRKLAND LAKE PROJECT

REPORT ON OCTOBER, 1991 DIAMOND DRILLING PROGRAMME

TECK "A" PROPERTY

TECK TOWNSHIP, LARDER LAKE MINING DIVISION

ONTARIO, CANADA

Kirkland Lake, Ontario November 29, 1991

1 I

W. Benham

Battle Mountain (Canada) Inc.

KIRKLAND LAKE PROJECT

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Teck "A" Drilling

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1.0 SUMMARY

During October 5th to October 12th, 1991 Battle Mountain (Canada) Inc. completed a diamond drilling programme on their Teck "A" property located in Teck Township, Ontario. Three holes were drilled, for a total of 347.75 metres, to test the "DK" gold showing.

Although pyrite + calcite + quartz veins, which are similar in appearance to the "DK" showing mineralization, were intersected in all three holes, all the assays were nil to trace gold. No further work is recommended.

2.0 INTRODUCTION

This report describes the results of a diamond drilling programme completed by Battle Mountain (Canada) Inc. (BMCI) from October 5th to October 12th, 1991 on the Teck "A" property located in Teck Township in northeastern Ontario, Canada. Three holes were drilled to test the "DK" gold showing.

The holes were drilled by Heath & Sherwood of Kirkland Lake and the core assayed by Swastika Laboratories in Swastika. The core was logged by Mark Masson, B.Sc., assisted by technician R. Peever; the programme was supervised by W. Benham, B.Sc., the BMCI Kirkland Lake project geologist. The drill plans and sections accompanying this report were drafted by B. Madill. The logs were typed by C. Anderson and the final logs designed and produced using WordPerfect 5.1 by MDC Geological Consultants.

2.1 Location and Access

The Teck "A" property is located near the southeastern corner of Teck Township, about 5 km south of the Town of Kirkland Lake (NTS 42A/1; UTM 571000 E, 532900 N; See Drawings No. 1 & 2).

Access is provided by Highway 112 which crosses the southwestern corner of the property at Murdock Creek at the common boundary between Teck Township and Otto Township. An old winter wagon road goes from this point along the Highway, and follows up-stream a south flowing tributary of Murdock Creek as far as the southwest corner of claim L.626766 and then turns east to follow the stream along the southern margin of the Murdock Creek Stock. The northeastern part of the property is accessible by the old road to the tailings-basin of Lakeshore Mines Ltd.

2.2 <u>Claims</u>

The Teck "A" property consists of twenty-nine (29) mining claims in the Larder Lake Mining Division optioned by Queenston Mining Inc. (formerly HSK Minerals Ltd.) from J. Kidston and M. Dyment. The property is currently held by Battle Mountain (Canada) Inc. as part of an option agreement with Queenston Mining Inc. dated June 15, 1989.

A lease has been issued for the three claims, L.495720 to L.495722 inclusive for a period of twenty-one years from March 1, 1991. An application to lease, mining rights only, for ten claims (L.545728, L.545729, L.565133, L.565134, L.565135, L.565138, L.565139, L.565150, L.565152 and L.566532) was submitted on February 19, 1991. The remaining sixteen claims are in good standing until at least 1993, prior to submission and approval of this work for assessment credits.

Patented claim 6817 was optioned from Beyer & Beyer on July 9, 1990, and included within the BMCI-Queenston agreement. This claim ties onto the western boundary of Teck "A"

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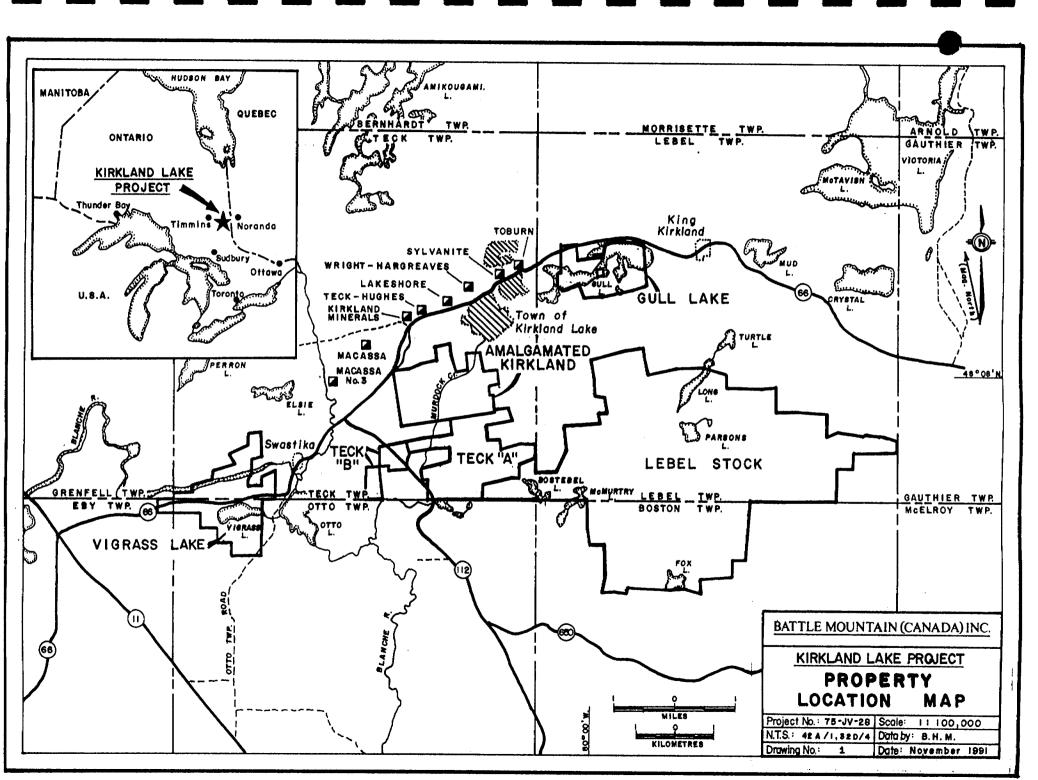
November, 1991

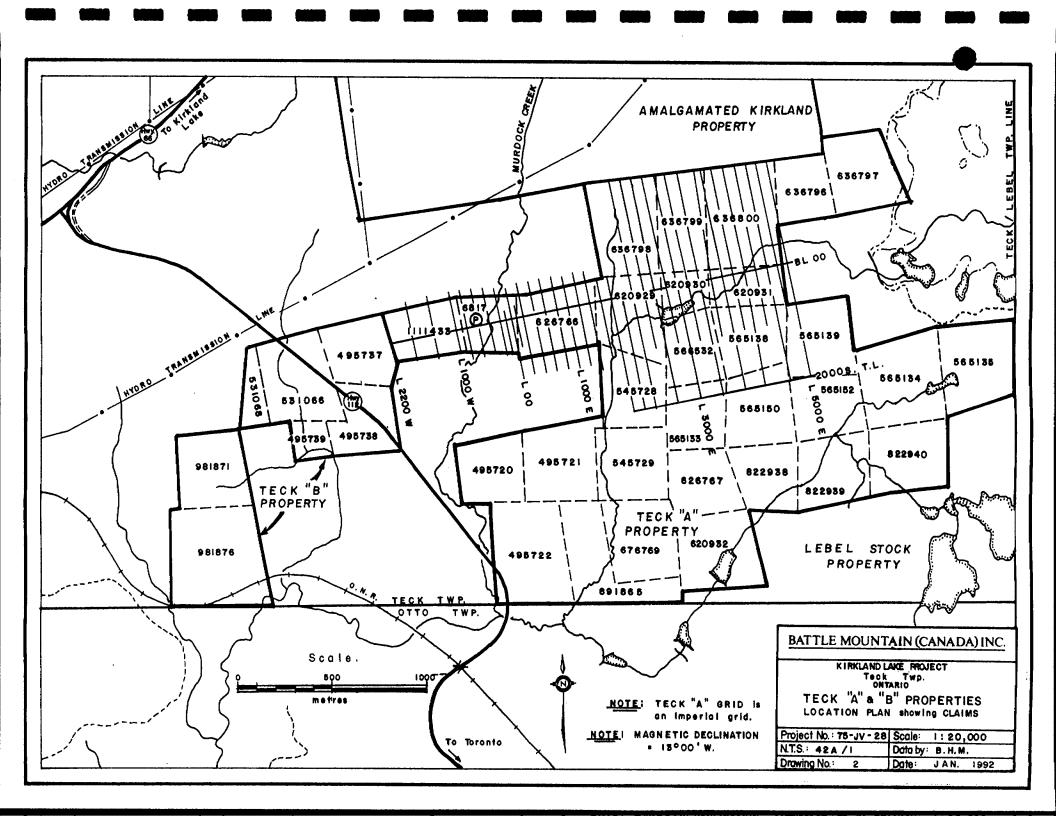
claim L.626766 and for the purposes of this report it is included in the Teck "A" property. Claim L.1111433 was staked by Queenston in 1989 and subsequently added to the agreement. The Beyer and Queenston claims join together the Teck "A" and Teck "B" properties into a single continuous group in which BMCI has a beneficial interest.

2.3 <u>Topography & Vegetation</u>

The property is characterised by low rounded knolls and steep-sided ridges up to 30 metres high. Two broad, open grassy swamps along the banks of a tributary stream to Murdock Creek (one trending 070° along the southern margin of the Murdock Creek Stock to the Lakeshore tailings pond, and the other at 010° along the western boundary of claim L.545728), divide the property into four topographic segments.

Most of the property is covered by second growth poplar bush with local, small stands of birch, spruce, balsam and pine.





3.0 PREVIOUS WORK

There is no record of work carried out on the property prior to 1977 when the initial claims of the Teck "A" group were staked. Numerous historic trenches were found in the subsequent programmes along the southern margin of the Murdock Creek Stock and on carbonate zones in the Larder Lake Group volcanics, as shown on the published geology map of Teck Township (Thomson, 1950).

The following is a list of work carried out on the Teck "A" property from 1977 until the property was optioned to BMCI in 1989:

- 1) Prospecting, VLF-EM and magnetic surveys and hand stripping by M. Dyment and J. Kidston in 1977-1981;
- Mapping, magnetic and HLEM surveys, rock geochemical sampling and drilling (5 holes, 594 metres) by Labrador Exploration Ltd. in 1982;
- 3) Prospecting, an induced polarization survey and drilling (4 holes, 653.52 metres) by Rio Algom Exploration Inc. in 1985;
- 4) Mapping, soil geochemical, magnetic, VLF-EM and induced polarization surveys by HSK Minerals Ltd. in 1988 (Hughes & Webster, 1989).

The 1988 soil geochemical survey resulted in the discovery of the "DK" gold showing. Grab samples of strongly carbonatized and silicified mafic syenite(?) with 3 to 10% euhedral, coarse-grained pyrite assayed up to 13.66 g/t Au. The showing was flanked to the south by IP chargeability and magnetic anomalies. The highest drill intersection, of 407 ppb Au over 3.4 metres in Rio Algom hole 5, is located 152 metres (500 feet) to the east of the "DK" showing.

Geological mapping, overburden stripping and channel sampling were carried out on the Teck "A" property by BMCI during the periods July to November, 1989 and June to August, 1990 (Benham, 1990). The HSK imperial grid from 1988 was re-cut in the winter of 1990, and extended to the west onto the Beyer and Queenston (L.1111433) claim, and further to the south. A total field magnetic survey was completed, together with a VLF-EM survey over only the Queenston claim.

The only significant assays from the channel sampling were at the "DK" showing. This showing once stripped and washed was seen to be up to 10% coarse euhedral pyrite in a carbonated, silicified pod, five metres long and four metres wide. Channel samples taken over the showing returned up to 6.44 g/t Au over 3.12 metres. Overburden stripping along strike did not locate any auriferous rocks similar to the "DK" showing, although a series of east-west striking shear zones, locally pyritic, were exposed and sampled.

Strongly jointed, altered syenite which was exposed in the 10+32E stripped area, averaged 276 ppb Au over an estimated true width of three metres. This carbonate zone is located along the western edge of a 120 metre long broad IP anomaly and parallels a northwesterly trending magnetic low.

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Teck "A" Drilling

4.0 REGIONAL GEOLOGY AND MINERALIZATION

The Kirkland Lake district is in the Abitibi Greenstone belt of the Archean Superior Province of the Canadian Shield. It lies to the south of the major east-west trending Blake River synclinorium, the northern and southern limbs of which are defined by the Destor-Porcupine and Larder Lake-Cadillac Fault Zones or Breaks. Most of the historical gold production in the Abitibi Belt is spatially associated with these two regional structural zones. The southern limb of the Blake River synclinorium in the Kirkland Lake area consists of tholeiitic volcanics of the Kinojevis Group. These are unconformably overlain by the trachytic volcanic and coarse clastic sedimentary rocks of the Timiskaming Group, and their associated syenitic intrusives. The southern boundary of the Timiskaming Group is marked by the regionally south-dipping Larder Lake Fault Zone. The assemblage to the south of this fault consists of the Larder Lake Group, consisting of komatiitic and tholeiitic volcanic rocks with thin interflow graywacke, argillite and iron formation sedimentary rocks. The Larder Lake Group are intruded by plutons of pyroxenite, gabbro and syenite, including the Lebel, Murdock Creek and Otto stocks.

The Kirkland Lake gold camp has produced in excess of 23 million ounces of gold from quartz-veined shoots in a deposit known historically as the Kirkland Lake Break or Mile of Gold. There were six producing mines along the deposit, of which the one remaining active producer is the Macassa Mine of Lac Minerals Ltd, at the west end of the deposit. The deposit strikes 067° , with a dip to the south of $75^{\circ}-80^{\circ}$. It lies mostly within augite-syenites which intrude interbedded coarse tuffaceous and clastic sedimentary units of the Timiskaming Group. The augite-syenites and the country rocks are intruded in the area of the deposit by hypabyssal felsic syenite plugs and by syenite porphyry dykes. All of the intrusive phases are comagmatic with the enclosing trachytic volcanic rocks. Some of these plugs and dykes are locally mineralised or form one of the walls of the shoots. The entire deposit has been dismembered by a complex series of younger, steeply dipping reverse faults, of which the largest is the Kirkland Lake Main Break. Many of the larger shoots lie against, or are terminated by, one or more of the branches of this fault system.

The Kerr Addison mine, which is located 36 km to the east in the Larder Lake district, has produced in excess of ten million ounces, and is still in production. This ore deposit is hosted by altered and strongly sheared mafic to ultramafic volcanics of the Larder Lake Group immediately to the south of the Larder Lake Fault Zone, and is associated with altered plugs and dykes, known locally as "albitite", of unknown original composition. It contains two distinct oretypes: "green-carbonate ore", as quartz veins in altered ultramafic volcanic rocks; and "flow-ore", as pyritic, altered and deformed variolitic, pillowed basalts, with only minor quartz veining. Both ore types are spatially associated with the "albitite" plugs and dykes, but they have different distribution and plunges on the longitudinal section.

Teck "A" Drilling

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5.0 PROPERTY GEOLOGY

The majority of the Teck "A" property is underlain by komatilitic to basaltic volcanic rocks of the Larder Lake Group, intruded by the southern part of Murdock Creek Stock along the northern tier of claims. The major "Teck "A" Fault Zone", previously referred to as the "DK Fault", lies along the south side of the stock, sub-parallel to the Larder Lake Fault Zone to the north.

5.1 <u>Stratigraphy</u>

The komatiitic volcanic rocks of the Larder Lake Group are polysutured and spinifextextured flows and talc-carbonate-chlorite schists. The basaltic volcanic rocks are fine to coarse grained, massive to pillowed flows with finely laminated, interflow sediments which consist of graywackes, argillites and oxide-facies iron formations. Locally the pillowed basalts are variolitic.

5.2 Intrusive Rocks

The Murdock Creek syenite has been subdivided into leuco-, meso-and mela-syenite facies. Contacts between the facies are very irregular and subjective. The more mafic syenites are found along the margin of the stock. Xenoliths, roof pendants or windows of amphibolitebearing and spinifex-textured komatiites are observed within the Murdock Creek syenite.

Locally aphanitic, pink, fractured, strongly jointed phases of the syenite have a shear fabric which strikes 005° to 035°, sub-parallel to the Lakeshore Fault set.

Narrow irregular, carbonated, pyritic syenite dykes similar to the Murdock Creek Stock intrude the volcanic rocks.

Irregular pods and dykes of strongly magnetic, micaceous, coarse grained pyroxenites are found within the deformation zone along the southern margin of the Murdock Creek Stock and intruding the stock itself. Locally the pyroxenites are strongly sheared to friable masses of exfoliated mica.

5.3 <u>Structure</u>

The Larder Lake Group volcanics strike 045° to 065° and dip steeply to the south. Pillow fabrics indicate a south-facing volcanic sequence.

Numerous faults, shear zones and areas of closely spaced foliation fabrics were observed on the northern part of the Teck "A" property. These structures are divided into two sets at 015° (Lakeshore set) or 070° (Larder Lake Fault Zone set).

The Teck "A" Fault Zone strikes 060° to 075°, along the contact at the southern margin of the Murdock Creek Stock with the adjacent Larder Lake Group volcanic rocks. The fault zone consists of discrete sharp faults and zones of chlorite-talc-carbonate schists which are well exposed in stripped areas from 3+00E to 10+32E, north and south of the baseline. Observed and magnetically interpreted faults and shear zones are found up to 150 metres north of the baseline within the syenite stock and up to 450 metres to the south within the basaltic volcanics. The Teck "A" Fault Zone is a regional structure, sub-parallel to the Larder Lake Fault Zone, which may join with it to both the east and the west. Like the Larder Lake Fault in the immediate region, the Teck "A" Fault Zone may dip to the south, with the block between these major structures largely occupied by the Murdock Creek Stock as a south dipping structural wedge.

Murdock Creek, which passes through patented claim 6817, follows the Lakeshore Fault at 015° to 025°. A sub-parallel structure is interpreted to pass through the swamps on claim L.545128, 600 metres to the east of the Lakeshore Fault. To the north, on the Amalgamated Kirkland property, carbonated sygnites are found along this structure. The Lakeshore Fault offsets the western extension of the Teck "A" Fault Zone an estimated 300 metres to the south, off the claim group.

Areas of closely-spaced foliation fabrics striking 005° to 040° were observed in the syenite stock and the basalts. These fabrics are related to splays off the above structure.

5.4 <u>Mineralization and Alteration</u>

The only known significant mineralization is "DK" showing. It consists of up to 10% coarse grained euhedral pyrite in a carbonated, silicified "syenite"(?) pod five metres long and four metres wide. Channel samples taken over the showing have returned up to 6.44 g/t Au over 3.12 metres. Overburden stripping along strike did not locate any auriferous rocks similar to the "DK" showing.

Strongly jointed, altered syenite which is exposed in the 10+32E stripped area, averages 276 ppb Au over an estimated true width of three metres. This carbonate zone is located along the western edge of a 120 metre long broad IP anomaly and parallels a northwesterly trending magnetic low.

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6.0 DRILLING

6.1 Drilling Programme

Diamond drilling on the Teck "A" property was started on October 5th and completed on October 12th, 1991 by Heath & Sherwood Drilling (1986) Inc. of Kirkland Lake under the supervision of W. Benham. The drill core was logged by M. Masson. A total of 312 sawn halfcore samples were assayed for gold, using one assay ton fusions, by Swastika Laboratories Ltd.

Three holes were drilled for a total of 347.75 metres to test the "DK" gold showing. Holes TA91-01 and TA91-03 were drilled on unpatented claim L.626766 and one hole, TA91-02, is located on patented claim 6817.

6.2 Drill Results

The results of the drilling are described in drill logs TA91-01 to TA91-03 (Appendix I) and illustrated on drill sections DC-041, and DC-042. The drill hole locations are shown on Drawing DP-004. All sampled intervals and assay results are recorded in the drill logs. Assay certificates are in Appendix II.

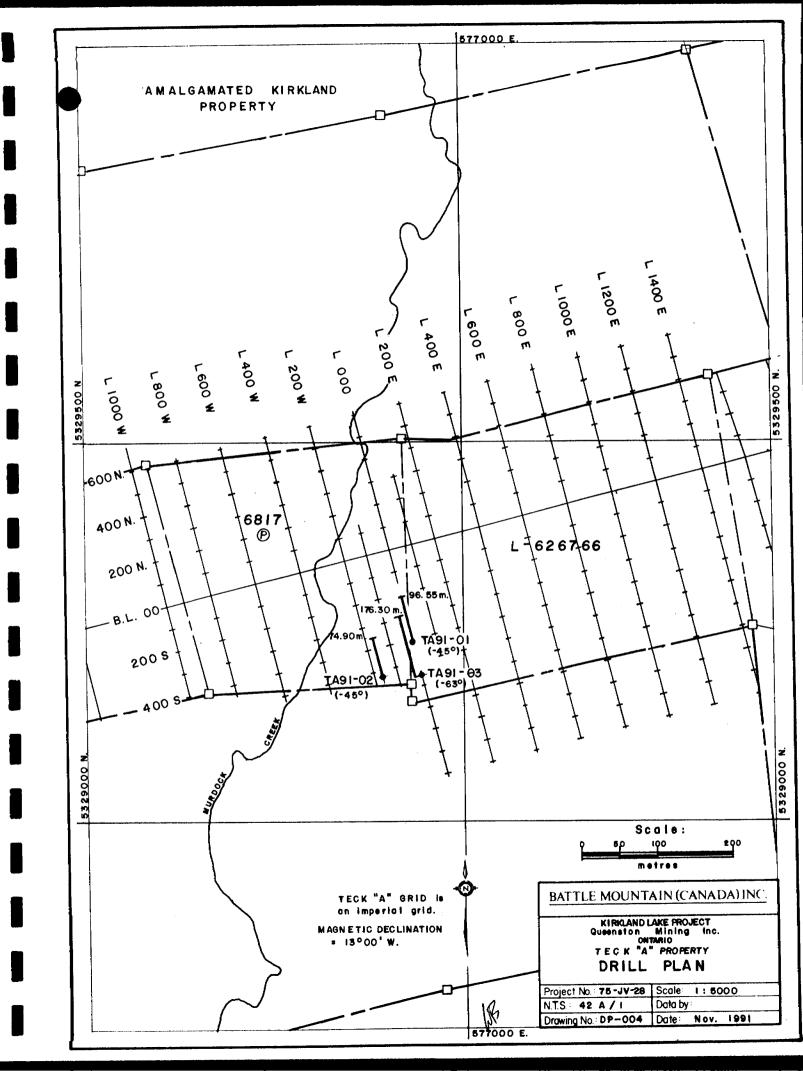
Hole TA91-01 was drilled along line 00, immediately below the "DK" showing, and intersected variolitic pillowed basalts to a depth of 20.35 metres, followed by massive, medium to coarse grained diorite or basalt. The contact between these two units is a 45° to 50° southdipping shear zone, 35 cm wide. This shear zone and the adjacent basalts, from 16.2 to 43.6 metres, contain seven widely spaced, 4-35 cm wide, quartz and calcite veins with 2-7% coarse grained euhedral pyrite. These mineralized veins are similar in appearance to the "DK" mineralization. However, all assays were nil to trace gold.

Hole TA91-02 was drilled 50 metres to the west along strike of the "DK" showing. This hole intersected similar geology and mineralization as the first hole, with variolitic basalt to the contact with the diorite or basalt unit at 32.7 metres, with the lower 4.0 metres of the variolitic basalt being sheared. The only anomalous assay, of 0.12 g/t Au over 1.30 metres from 28.7 to 30.0 meters, was from blue-grey quartz veins with 3-4% coarse grained pyrite at the beginning of this sheared interval.

Hole TA91-03, an undercut 60 metres below hole TA91-01, intersected a 5.6 metre wide shear zone with 1-2% pyrite from 55.2 to 60.8 metres at the contact between pillowed basalts and more massive basalt. A 3.00 metre wide interval within this shear zone, from 56.5 to 59.5 metres, contains 65% white, ribboned quartz veins with graphite and galena-filled fractures and assayed 0.28 g/t Au. Massive basalts from 81.45 to 85.00 metres, with 2-3% quartz and calcite veins and 1-2% medium grained pyrite, assayed 0.13 g/t Au over the 3.55 metres.

Correlation between these holes and with the surface geology indicates that these shear zones and the stratigraphic contacts are dipping to the south at about 45°-50°.

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7.0 CONCLUSIONS AND RECOMMENDATIONS

The 1991 Teck "A" drilling intersected mineralization which is very similar in appearance to the "DK" showing, i.e. grey-white to pink, quartz + calcite veining with coarse grained euhedral pyrite; however this mineralization was only weakly anomalous in gold. The mineralized veins are associated with a sheared contact between variolitic pillowed basalts in their hanging wall and underlying more massive medium to coarse grained basalts, with the contact dipping 45-50° to the south. The geochemically anomalous intersection in Rio Algom hole 85-5, which is located 150 metres to the east, may correlate with anomalous channel samples near the collar of this hole and would also indicate a 45° south dip.

The 1991 Teck "A" drill programme did not intersect any significant gold mineralization, and together with the overburden stripping and channel sampling, has adequately tested for the strike and down-dip extensions of the "DK" gold mineralization without success. No further work is recommended.

Teck "A" Drilling

Kirkland Lake Project

REFERENCES

- Benham, W., 1990, Report on Geological Mapping, Overburden Stripping and Channel Sampling, Teck "A" Property, Kirkland Lake Project, Teck Township, Larder Lake Mining Division, Ontario; Battle Mountain (Canada) Inc.
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- Hughes N. and Webster B., 1989, Report on Ground Geophysical Surveys, Teck "A" Property, Teck Township, Ontario for HSK Minerals Ltd., JVX Ltd.
- Jensen L.S. and Langford F.F., 1985, Geology and petrogenesis of the Archean Abitibi Belt in the Kirkland Lake Area; Ontario Geological Survey, Misc. Paper 123.
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- Thomson J.E., 1950, Geology of Teck Township and Kenogami Lake area, Kirkland Lake Gold Belt: Ontario Department of Mines, Annual Report for 1948, Vol. 57, Part 5, p. 1-53. Reprinted 1989.

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Teck "A" Drilling

APPENDIX I

DIAMOND DRILL LOGS

Battle Mountain (Canada) Inc.

HOLE: TA-91-01

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PROPERTY	Teck "A"	DATE LOGGED	October 8, 1991 - 0	October 9, 1991	EASTING	000	[_
TOWNSHIP CLAIM No.	Teck L 626766	LOGGED BY DRILLED BY	Mark Masson Heath & Sherwood	,	NORTHING	124 S	Depth	Method	Azimuth	Dip	
STARTED COMPLETED	October 5, 1991 October 8, 1991	CORE LOCATION DOWNHOLE SURVEYOR	Kirkland Lake War	-	ELEVATION COLLAR SURVEY		Collar	Compass	346	45	
	000000 3, 1991	SURVEY INSTRUMENT	B.M.C.I.		LENGTH	96.55	6.0			45	
					UNITS CORE SIZE	metres NQ	50.0			45	
PURPOSE	To test "DK" showing			11B			61.0			45	
COMMENTS	No anomalous assays		SIGNED BY	MA			92.0			44	
				(W. Benham)							1

		SUMN	MARY LOG			ASSAY SUMMARY				
INTER From	RVAL To	DESCRIPTION	INTERVAL From To		DESCRIPTION		LENGTH in metres	AVERAGE Au g/t		
0.00 1.50 20.35	1.50 20.35 43.60	OVERBURDENVARIOLITIC PILLOWED BASALT10.10 - 11.00Shear zone @ 70° tca. Trace-2% pyrite.16.20 - 16.70Quartz + calcite + 3% pyrite.19.15 - 19.65Strongly foliated @ 75° tca.19.45 - 19.655-7% fine to medium grained euhedral pyrite.20.00 - 20.35Quartz + calcite + 5-7% medium to coarse grained euhedral pyrite.DIORITIC BASALT/GABBRO Coarse grained.22.45 - 22.80Shear zone @ 45°. 1% medium grained pyrite.33.60 - 34.201% coarse grained pyrite.36.604 cm wide quartz + calcite vein @ 75° tca, 2% coarse grained pyrite.43.00 - 43.60Quartz + calcite vein, 1% pyrite.	96.55	84.50 - 94.50 92.40 - 92.95 E. O. H.	Shear zone @ 35-45° tca. Quartz + calcite + pyrite vein, 1- 2% pyrite.					
	43.60 68.80 BASALT Leucoxene spotted.									
68.80 96.55 DIORITIC BASALT/GABBRO Medium to coarse grained.										

HOLE: TA-91-01

PAGE: 2 of 6

INTE	ERVAL		DESCRIPTION					SAN	APLE .			AS	SAYS
FROM	то			No.	From	То	Length	%Rec	%Py	%QV	%Ser	Au, g/t	Au,Check
												riu, gr	Au, Check
0.00	1.50	OVERBURDE	EN										
1.50	20.35	VARIOLITIC	PILLOWED BASALT										
			ium green, fine to very fine grained with light green										
		subrounded to	o elliptical variolites and variolitic masses frequently near loritic pillow selvages. Non-magnetic.										
		1.50 - 6.20	Ground is somewhat rubbly, broken with approximately	9344	1.50	2.50	1.00	90				NIL	
			85% recovery.	9345	2.50	3.00	0.50	80				0.01	
				9346	3.00	4.00	1.00	95				NIL	
	i	4.60 - 4.80	Quartz + pyrite veinlets. Three narrow ≤ 0.5 cm, white-	9347	4.00	4.90	0.90	80	2	2		0.02	
			buff to pink quartz \pm carbonate veinlets @ 55° tca. Wall rock is altered to a yellow-green colour up to 1 cm from	9348	4.90	6.00	1.10	60	1	1-2		0.01	
			vein, moderately silicified and carbonitized (hydrochloric	9349	6.00	6.90	0.90	100				0.01	
			acid reaction) and carries 1-2% fine grained sub to euhedral pyrite cubes.										
		7.00 - 7.10	1-2% clotty sub-euhedral pyrite associated with hairline	9350	6.90	7.40	0.50		Tr.			0.01	
			calcite fractures and irregular blebs up to 0.5 cm.	9351	7.40	8.00	0.60		1 1.			0.01 NIL	
		8.25 - 8.30	Quartz + calcite + pyrite vein. Irregular, grey-white	9352	8.00	8.50	0.50		Tr.	1		NIL	
			quartz + calcite vein with 3-5%, medium grained sub-										
			euhedral pyrite grains and small clusters within veins and scattered in adjacent wall rock.										
		8.90 - 9.10	1-2% irregular, euhedral pyrite crystals and clusters on	9353	8.50	9.10	0.60			•			
			quartz + calcite veinlets and masses in massive aphanitic	,,,,,	0.50	9.10	0.00		1	2		NIL	
			basalt.	9354	9.10	10.10	1.00			2-3		NIL	
		10.10 - 11.00	Shear zone @ 70° tca. Chlorite + quartz + calcite +	9355	10.10	10.50	0.40		Tr.	2		NIL	
			pyrite. Upper contact is a 0.5 cm quartz + calcite veinlet										
		10.10 - 10.50	on a sharp, chlorite slip. Minor pyrite in veinlet.										
		10.10 - 10.50	Well foliated to weakly laminated variolitic basalt with 2% hairline quartz + calcite veinlets and trace										
			disseminated pyrite.										
		10.50 - 10.65	Quartz + calcite + pyrite veining. Somewhat irregular	9356	10.50	11.00	0.50		2	5		NIL	
			white quartz veining with small salmon pink spots and	1000	10.00		0.50		–	5		NIL	
		•	calcite fillings on hairline fractures. Wall rock has strong										
			pervasive carbonate and 1-2% euhedral pyrite crystals.										
		10.65 - 11.00	Stretched variolites cut by minor quartz + calcite										
			stringers with 1% euhedral pyrite.	9357	11.00	11.50	0.50		Tr.	Tr.		0.01	
		12.40	Fault @ 20° tca. Chlorite + calcite. 1 cm wide chloritic	9358 9359	11.50 12.00	12.00 12.50	0.50		Tr.	Tr.		NIL	
			shear with barren, white calcite infilling.	9360	12.00	12.50	0.50 0.50		Tr.	Tr.		NIL	
				2200	12.50	15.00	0.50		11.	112		NIL	

HOLE: TA-91-01

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PAGE: 3 of 6

INTER	RVAL		DESCRIPTION				SA	MPLE				ASSAYS		
FROM	то			No.	From	To	Length %Rec	: %Py	%Q1	/ %Ser		Au, g/t	Au,Check	
		13.20 - 14.00 15.00 - 20.35	Basalt is weakly foliated and contains a number of sharp, tight chlorite \pm calcite slips @ 30-40° tca. Unit is well foliated but somewhat irregularly with foliation swinging from 30° tca to 70° tca. Section is cut by up to 5% irregular calcite veinlets. Pillow selvages are	9361 9362 9363	13.00 14.00 15.00	14.00 15.00 16.00	1.00 1.00 1.00	T	r. :		······································	NIL 0.01 0.01		
		16.20 - 16.70	disrupted and bleached yellow-green possibly due to feldspar and silica alteration(?). Quartz + calcite + 2-3% pyrite. Moderately foliated basalt with 5-7% irregular, 1 mm to 0.5 cm wide, calcite veinlets and weak stock-working. Crosscutting this alteration are three, 0.5-1 cm wide, white-blue-grey quartz veins with moderately silicified \pm carbonitized wall rock alteration up to 2-3 cm from veins. Pyrite is sub-euhedral medium to fine grained proximal to quartz veinlets and	9364 9365 9366 9367	16.00 16.70 17.20 17.70	16.70 17.20 17.70 18.20	0.70 0.50 0.50 0.50	2- Ti		i 2 2	Cal.	NIL 0.01 NIL NIL		
		18.20 - 19.15	also as a secondary (?) clotty pyrite on small calcite blebs and fractures. Also on vein boundaries there are small pink-brown spots, possibly potassic feldspar alterations(?). Well foliated to schistose basalt with numerous tight chlorite + calcite slips and 3-4% irregular calcite veinlets. Carries 0.5-1% fine grained euhedral pyrite on foliation planes and on small quartz + calcite pods and veinlets.	9368	18.20	19.15	0.95					0.02		
		19.15 - 19.65 19.45 - 19.65	Strongly foliated to laminated zone @ 75° tca with 1-2% fine grained sub-euhedral pyrite on hairline lamellae. 5-7% fine to medium grained euhedral pyrite in strongly foliated to crenulated grey-brown groundmass comprised of irregular wispy chlorite and red-brown potassic feldspar alteration. Also carries 3-4% irregular calcite veinlets and a pervasive background carbonate (calcite) veining @ 65- 80° tca.	9369	19.15	19.70	0.55		5 :	\$	Cal.	0.03		
		19.75 - 20.00 20.00 - 20.35	Well foliated very fine grained basalt with strong tight chloritic slips @ 5-10 cm intervals. Interstitial to slip, unit is cut by 3-5% anastomosing calcite veinlets and patchy pyritic clots and euhedral crystals. Quartz + calcite + pyrite (5-7%). Well foliated @ 50-60° tca. Pink-brown potassic feldspar and blue-grey to white quartz alteration with 5-7% brassy yellow (Cu) sub to euhedral pyrite crystals and clots, up to 3 mm. Groundmass is also moderately carbonatized and contains 2-3% irregular grey-white calcite veinlets. Lower contact is a sharp tight chlorite slip @ 70° tca.	9370	19.70	20.35	0.65		5 5-1)	Cal.K-Spar	0.02		

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HOLE: TA-91-01

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INTE	RVAL		DESCRIPTION				SAN	IPLE			ASSAYS		
FROM	то			No.	From	То	Length %Rec	%Py	%QV %S	er	Au, g/t	Au,Check	
20.35	43.60	Massive, fine to diabasic type to anhedral crysta plagioclase bac magnetic areas Quartz vein @	SALT/GABBRO o medium grained, equigranular with a typical green-white exture. Comprised of 40% dark green chloritic subhedral to als and crystal masses of amphibole within a grey-white kground. Pervasively weakly magnetic with patchy strongly . Somewhat variable from fine to medium to coarse grained. 0 43.00 m mark contact between coarse grained dioritic e grained basalts but this is somewhat subjective and difficult										
		20.35 - 20.80 20.80 - 21.50 22.45 - 22.80	Quite fine grained, dark green, chloritic, moderately well foliated @ 60° tca, pervasively carbonitized groundmass and carrying 2-3% calcite veinlets. Unit becomes increasingly coarser grained grading to medium grained massive diorite @ 23.0 metres. Shear zone @ 45° tca. Chlorite + calcite + quartz + pyrite. Moderately well foliated to sheared zone with 5- 10% irregular calcite + quartz veining with 1% medium grained euhedral pyrite within veins and adjacent to vein wall rock.	9371 9372 9373 9374 9375 9376 9377 9378 9379 9380 9381 9382 9383 9384 9385	20.35 20.85 21.50 22.30 22.80 23.50 24.00 24.50 25.00 26.00 27.00 28.00 29.00 30.00 31.00	20.85 21.50 22.30 23.50 24.00 24.50 25.00 26.00 27.00 28.00 29.00 30.00 31.00 32.00	0.50 0.65 0.80 0.50 0.50 0.50 0.50 1.00 1.00 1.00 1.0	1 Tr. Tr.	5 1-2	Cal. Cal. Cal. Cal.	NIL NIL NIL NIL NIL NIL NIL NIL NIL NIL		
		33.60 - 34.20 35.50 - 37.00	Light green, bleached zone proximal to sharp, strong chloritic slip @ 85° tca. Section is cut by 2-3% grey-white calcite veinlets and quartz veinlets ≤ 1 cm. Carries 1% patchy coarse grained pyrite and pyritic clots in wall rock. Unit is weakly stockworked with 3-5% irregular anastomosing quartz + calcite veins up to 2 cm wide at	9386 9387 9388 9389 9390 9391 9392	32.00 33.00 33.60 34.20 35.00 35.50 36.00	33.00 33.60 34.20 35.00 35.50 36.00 36.50	1.00 0.60 0.60 0.80 0.50 0.50 0.50	Tr. Tr. 1 0.5-1 0.5-1	2-3 Tr. Tr. 3-5 2	Cal. Cal. Cal.	NIL 0.01 NIL 0.02 NIL NIL 0.01		
			various core angles. These veinlets are in turn cut by a later ladder type quartz + calcite vein system (≤ 0.5 cm) @ 75° tca. Veins carry 0.5-1% scattered sub-euhedral pyrite cubes and small masses which are also evident sporadically in wall rock.										

HOLE: TA-91-01

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INTE	RVAL		DESCRIPTION				SAN	NPLE	·		ASSAYS		
FROM	ТО			No.	From	То	Length %Rec	%Py	%QV	%Ser	Au, g/t	Au, Check	
		36.60 42.00 - 43.00 43.00 - 43.60	3-4 cm wide white to pink-brown quartz + calcite + potassic feldspar vein @ 75° tca with 1-2% euhedral brassy pyrite cubes, ≤ 2 mm, in wall rock adjacent to vein. Massive, undeformed but pervasively carbonated and carries 2% light grey to brown quartz + calcite + pyrite veinlets, ≤ 1 cm wide, scattered throughout. Section has 0.5% disseminated fine grained euhedral pyrite and displays a weak red-brown alteration proximal to veins, potassic alteration(?). Semi-massive white quartz + calcite vein with irregular boundaries and carrying 2-3% chloritized wall rock fragments and internal chloritic wisps. Vein is barren except for 0.5% sub-euhedral pyrite grains on chloritic wisps and hairline fractures. Adjacent to vein, wall rock carries 0.5-1% euhedral pyrite grains up to 0.5 cm.	9393 9394 9395 9396 9397 9398 9399 9400 9401	36.50 37.00 37.50 38.00 38.90 39.50 40.00 41.00 42.00 43.00	37.00 37.50 38.00 38.90 39.50 40.00 41.00 42.00 43.00	0.50 0.50 0.50 0.90 0.60 0.50 1.00 1.00 1.00	1 Tr. Tr. 1	2 1 Tr. 1 1 Tr. 2 35	Cal.K-Spar Cal. Cal. Cal. Cal. Cal.	NIL NIL NIL NIL NIL NIL NIL NIL	Aujelieek	
43.60	68.80	mafic volcanic. 2% buff-white calcite in groun throughout. Throughout. Throughout. Throughout. The second s	tted, massive, fine to very fine grained, dark green chloritic Nondescript, no pillows variolites etc. Distinguished by 1-, spotty leucoxene(?) development throughout. Pervasive ndmass and as 2-3% quartz + calcite stringers and veinlets ypically non-magnetic but has patchy zones of strong wer contact is gradational over 0.75 metre as it grades from ed, leucoxene spotted, to fine and medium coarse grained	9403 9404 9405 9406 9407 9408 9409 9410 9411 9412 9413 9414 9415 9416 9417 9418 9419 9420	43.60 44.50 45.10 46.00 47.00 48.00 49.00 50.00 51.00 52.00 53.00 54.00 55.00 56.00 57.00 58.00 59.00 60.00	44.50 45.10 46.00 47.00 50.00 51.00 52.00 53.00 54.00 55.00 56.00 57.00 58.00 59.00 60.00 61.00	0.90 0.60 0.90 1.00 1.00 1.00 1.00 1.00 1.00 1.0		1		0.01 NIL 0.01 0.01 NIL 0.01 NIL 0.01 0.01 0.01 0.01 NIL NIL NIL NIL		



HOLE: TA-91-01

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INTE	RVAL	DESCRIPTION		SAMPLE							AS	SAYS
FROM	ТО		No.	From	То	Length %Rec	%Py	%QV	%Ser		Au, g/t	Au,Check
			9421 9422 9423 9424 9425 9426	63.00 64.00 65.00	62.00 63.00 64.00 65.00 66.00 67.00	1.00 1.00 1.00 1.00 1.00 1.00					NIL NIL 0.01 NIL NIL	· · · · · · · · · · · · · · · · · · ·
68.80	96.55	 DIORITIC BASALT/GABBRO Coarse flow? Massive green-white, fine to medium coarse grained witypical diabase type texture. Comprised of 30% dark green subhedre chloritized amphibole-pyroxene crystals and crystal masses, ≤ 0.5 cm, in fine grained grey-white plagioclase matrix. Typically non-magnetic. 80.95 - 81.90 Dyke @ 70° tca. Green-brown quite hard aphaning groundmass. Contains 2-3% fine dark green-black pseudo-prismatic crystals up to 2 mm (chloritic) and 2% light green-buff spots with fuzzy diffuse boundaries. 84.50 - 94.50 Shear zone @ 35-45° tca. Strongly foliated zone with distinctive green-white wispy lamination developed where unit displays elongated wispy irregular chlorite, ≤ 0.5 mm with interstitial grey-white plagioclase ± calcite. Contait very minor spotty leucoxene in places and minor euhedre pyrite, ≤ 3 mm. Pervasive carbonate, calcite groundmass and as 2-3% narrow calcite ± quartz veinte milk white to grey quartz + calcite vein with 1-2% fi grained euhedral pyrite on hairline fractures, with cavities and minor disseminations in wall rock. 	1 9427 9428 9429 9429 9430 c 9430 c 9430 c 9431 - 9432 s. 9434 e 9435 s. 9436 s. 9438 n 9438 n 9439 s. 9440 9441 9442 9443 9444	80.40 80.95 81.90 82.50 83.50 84.50 85.00 86.00 87.00 88.00 89.00 90.00 91.00 92.00 92.40 93.00 93.50 94.50 95.00	79.80 80.40 80.95 81.90 82.50 83.50 84.50 85.00 86.00 87.00 86.00 87.00 88.00 90.00 91.00 92.00 92.40 93.00 93.50 94.50 95.00 96.00 96.55	1.00 1.00 0.50 1.00 1.00 1.00 1.00 1.00	Tr. 1 1-2 Tr.	1 2 15 Tr.	Ι	Dyke Cal.	0.01 NIL NIL 0.01 0.01 0.01 NIL NIL NIL NIL NIL NIL NIL NIL NIL NIL	
	96.55	END OF HOLE Casing pulled.										



HOLE: TA-91-02

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PROPERTY TOWNSHIP CLAIM No.	Teck "A" Teck P 6817	DATE LOGGED LOGGED BY DRILLED BY	October 9, 1991 - (Mark Masson Heath & Sherwood		EASTING NORTHING ELEVATION	050 W 162 S	Depth	Method	Azimuth	Dip	
STARTED COMPLETED	October 8, 1991 October 9, 1991	CORE LOCATION DOWNHOLE SURVEYOR	Kirkland Lake War		COLLAR SURVEY		Collar	Compass	346	45	1
	50.0001 <i>3</i> , 1 <i>3</i> ,1	SURVEY INSTRUMENT	B.M.C.I.		LENGTH	74.90	30.0			45	
					UNITS CORE SIZE	metres NQ	72.0			44	
PURPOSE	To test "DK" showing			IR							
COMMENTS			SIGNED BY	W.Par							
				(Ŵ. Benham)							

		SUM	MARY LOG		A	SSAY SUMM	IARY
INTER From	RVAL To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00	3.60	OVERBURDEN	· · · · · · · · · · · · · · · · · · ·				
3.60	32.70	VARIOLITIC BASALT			28.70 30.00	1.30	0.12
		Massive to pillowed.			20110	1.50	0.12
		13.00 - 13.20 Quartz + calcite + pyrite vein @ 60° tca, 3-5% pyrite.	74.90	Е. О. Н.			
		25.85 - 26.10 Quartz + calcite + pyrite vein @ 50-60° tca, 1-2% pyrite.					
		28.70 - 32.70 Foliated @ 70-80° tca, 5-15% blue-grey quartz veining. 3-4%					
32.70	44.80	coarse grained pyrite. DIORITIC BASALT/GABBRO					
		39.45 - 39.60 1% medium grained pyrite, 3-4% quartz veins.					
		40.30 - 41.35 1-2% coarse grained euhedral					
		pyrite, 1-2% quartz. 41.35 - 41.65 Quartz + calcite + pyrite vein @ 45-60° tca. 35% quartz, 3-5%					
44.80	50.50	coarse grained pyrite. BASALT					
		Leucoxene spotted.					
	Ì	45.00 - 50.50 3-4% quartz + calcite. 1-2% pyrite.					
50.50	74.90	DIORITIC BASALT/GABBRO				İ	

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INTE	RVAL		DESCRIPTION					SAM	PLE					AS	SAYS
FROM	то			No.	From	To	Length 9	%Rec	%Pv	%0V	%Ser			i, g/t	Au,Check
0.00 3.60	3.60 32.70	OVERBURDE												, <u>y</u> ,	AU,CHECK
3.00	32.70	medium green	BASALT sive to poorly pillowed, chloritic fine to very fine grained basalt. Varies from quite soft to medium hard. Contains 2- calcite \pm quartz stringers and veinlets, ≤ 1 cm, at various	9449 9450 9451 9452 9453 9454 9455 9456	3.60 4.50 5.00 6.00 7.00 8.00 9.00 10.00	4.50 5.00 6.00 7.00 8.00 9.00 10.00 11.00	0.90 0.50 1.00 1.00 1.00 1.00 1.00		Tr.	1 1-2			1 1 1 1 1 1	VIL VIL VIL VIL VIL VIL VIL	
		13.00 - 13.20	Quartz + calcite + pyrite vein @ 60° tca. Somewhat irregular, anastomosing, grey-white quartz + calcite veining with 3-5% fine sub-cuhedral pyrite within vein and on small hairline sutures in wall rock parallel to vein.	9457 9458 9459	11.00 12.00 12.80	12.00 12.80 13.30	1.00 0.80 0.50		3	5		Cal.	1	NIL NIL NOS	
		13.10 - 13.20	1 cm wide, branching white-salmon pink, quartz + potassic feldspar(?) vein with 1% fine grained, euhedral pyrite on vein walls.	9460 9461 9462 9463	13.30 14.00 15.00 16.00	14.00 15.00 16.00 16.50	0.70 1.00 1.00 0.50						1	AIL AIL AIL	
		16.75 - 16.85 18.00	Barren, white quartz + calcite vein @ 30° tca with minor chloritic suturing. Moderately stretched elongated variolites @ 50° tca.	9464 9465 9466	16.50 17.00 18.00	17.00 18.00 19.00	0.50 1.00 1.00			5			1	IIL IIL IIL IIL	
		20.20 - 25.00	Very irregular, wavy foliation developed @ $5-15^{\circ}$ tca. Contains abundant quartz + calcite (10%) veining parallel to this fabric and also 2-3% white-pink (quartz + potassic feldspar? rose quartz) quartz veinlets up to 1 cm wide which are very irregular and in places ptygmatically folded. Scattered through this are zones of patchy pyrite generally proximal to the white-pink quartz veinlets. Pyrite is medium grained, sub to euhedral and locally reaches 1- 2%.	9467 9468 9469 9470 9471 9472 9473 9474 9475 9476 9478	19.00 20.00 20.50 21.00 21.50 22.00 22.50 23.00 23.50 24.00 24.50 25.00	20.00 20.50 21.00 21.50 22.00 22.50 23.00 23.50 24.00 24.50 25.00 25.75	1.00 0.50 0.50 0.50 0.50 0.50 0.50 0.50		Tr. 1 Tr. 1 Tr. Tr. 7 Tr. 0.5 0.5 Tr. Tr.	1 5 5-7 3-5 5-7 3-5 1-2 1-2 2-3 2-3 1-2 1-2 1				UL .01 .01 .01 .02 .01 UL UL UL UL UL	
		25.85 - 26.10	Quartz + calcite + pyrite vein @ 50-60° tca. Grey-white quartz + calcite vein and quartz + calcite breccia veinlets	9479	25.75	26.25	0.50		1	5-10			1	IIL	

HOLE: TA-91-02

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INTE	RVAL		DESCRIPTION		,,,,		SAN	IPLE				AS	SAYS
FROM	то			No.	From	То	Length %Rec	%Pv	%0V	%Ser	· · · · · · · · · · · · · · · · · · ·	Au, g/t	Au,Check
		26.50	with 1-2% medium grained, sub-euhedral pyrite crystals and small masses within vein and adjacent wall rock. Sharp, tight chlorite slip @ 80° tca.	9480 9481 9482	26.25 27.00 27.50	27.00 27.50 28.00	0.75 0.50 0.50	Tr. Tr. Tr.	1 1 1 1 1 2			NIL NIL NIL	
		28.70 - 30.00	Somewhat patchy to pervasive blue-grey quartz veining and flooding (often fragmented and very irregular) with 3-4% coarse grained euhedral pyrite (cubes up to 4 mm) developed in wall rock and on fractures within quartz. Calcite occurs in later fracturing within quartz (ladders) and surrounding wall rock. Pyrite is coarse grained and occurs as disseminations and as veinlets @ 45-65° tca. Interstitial to these patchy silicified zones, the host is very soft and highly chloritic and frequently carries 1-2% fine	9483 9484 9485	28.00 28.70 29.50	28.70 29.50 30.00	0.70 0.80 0.50		2-3 35-40 15-20		Cal.	NIL 0.12 0.11	
		28.70 - 32.70	to medium grained euhedral pyrite. Foliated to weakly laminated volcanics with patchy quartz + calcite + pyrite veining @ 70-80° tca. Upper contact is a sharp, wavy chlorite slip @ 75-80°.	9486 9487	30.00 30.50	30.50 31.00	0.50 0.50	1-2 2-3	5-7 10-15			NIL 0.07	
		31.00 - 32.00	Unit is quite prominently foliated to weakly laminated @ 70-80° tca. Comprised of wispy bands of chloritic, foliated volcanics with 0.5-1% fine grained euhedral pyrite, quartz + calcite veinlets from 1 mm to 3 cm and quartz + calcite + pyrite bands up to 2 cm wide.	9488 9489	31.00 31.50	31.50 32.10	0.50 0.60	3-4 3-4	5-10 5-10			NIL 0.02	
		32.00 - 32.50	Magnetic and may mark contact from pillowed basalt to a coarser dioritic basalt. Actual contact obscured due to shearing and mineralization but from 33.0 m the basalts are definitely different (i.e. coarser, more magnetic).	9490	32.10	32.70	0.60	1	2-3			NIL	
32.70	44.80	Massive mediu volcanic. Nond pyroxene? with	SALT/GABBRO m to dark green, fine to medium grained chloritic mafic escript with approximately 25-35% chloritized amphibole- in a variable chlorite, chlorite + plagioclase background. te to strong magnetics. Contains 1-2% calcite veinlets. Fault @ 35° tca, 1 cm wide, fragmented quartz + calcite veinlet bounded by sharp strong chlorite slips. Unit is moderately well foliated @ 50° tca with 2-3% wispy calcite veining and a gradual increase in pyrite towards zone @ 41.35 m.	9491 9492 9493 9494 9495 9496 9497	32.70 33.40 34.00 35.00 36.00 37.00 38.00	33.40 34.00 35.00 36.00 37.00 38.00 39.00	0.70 0.60 1.00 1.00 1.00 1.00 1.00	Tr.	1			NIL NIL NIL NIL NIL NIL	

HOLE: TA-91-02

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INTE	RVAL	DESCRIPTION				SAN	IPLE				AS	SAYS
FROM	то		No.	From	То	Length %Rec		%QV	%Ser		Au, g/t	Au,Check
		 39.45 - 39.60 1% medium grained, cuhedral pyrite cubes, ≤ 2 mm floating in a buff-white to brown quartz + calcite background which is somewhat diffuse and irregular. 40.30 - 41.35 Volcanics contain 1-2% coarse grained euhedral pyrite; s 5 mm, generally located on small patchy calcite ± quarts blebs within a chloritic groundmass. 41.35 - 41.65 Quartz + calcite + pyrite vein @ 40-60°. 3-5% coarse grained euhedral pyrite floating in a silicified and carbonated background of quartz + calcite + salmon pink quartz or potassic feldspar. Cutting this mineralization is an irregular barren white-pink quarts vein. Typically the salmon pink colouration is evident or the vein boundaries as if vein was zoned. 	9498 9499 9500 9501 9502 9503 9504 9505 9506	39.00 39.70 40.20 40.80 41.35 41.70 42.25 43.00 44.00	39.70 40.20 40.80 41.35 41.70 42.25 43.00 44.00 44.80	0.70 0.50 0.60 0.55 0.35 0.55 0.75 1.00 0.80	0.5-1 Tr. 1 1-2 3-5 Tr.	3-4 Tr. 1-2 1-2 35 Tr.		Sil	0.01 NIL NIL NIL 0.03 NIL NIL NIL NIL	
44.80	50.50	 BASALT Massive to weakly foliated, dark green fine grained mafic volcanic with 1% fine grey-brown leucoxene (?) spots, ≤ 1 mm, throughout. Weak to moderate pervasive calcite. Patchy pyritic blebs and pyrite cubes up to 0.3 cm scattered through unit generally with a grey-white quartz + calcite background. Medium hard chloritic, difficult to distinguish from dioritic basalt except for the presence of leucoxene. Weak, patchy magnetics. 44.80 - 45.00 Milk white barren quartz vein with internal wispy chlorite and calcite on fractures. 45.00 - 50.50 Unit contains 3-4% milk white barren quartz ± calcite veins up to 5-6 cm wide which frequently are bounded by sharp chlorite slips @ 25-35° tca. This section also carrie patchy areas of blue-grey quartz + calcite + pyrite, 1-2% 	9507 9508 9509 9510	44.80 45.50 46.10 46.70 47.70	45.50 46.10 46.70 47.70 48.40	0.70 0.60 0.60 1.00 0.70	Tr. 1 1-2 Tr. 1-2	3-5 2-3 2-3 2 10			NIL NIL NIL NIL	
50.50	74.90	DIORITIC BASALT/GABBRO Massive medium green, fine to medium grained mafic volcanic Nondescript, very fine diabasic type texture. Generally non-magnetic. Cu by 1-2% ubiquitous, barren quartz, calcite and quartz + calcite veinlets and stringers at various core angles.	9512 9513 9514 9515	47.70 48.40 48.90 49.50 50.00	48.40 48.90 49.50 50.00 50.50	0.50 0.60	1-2 Tr. 1-2 1 Tr.	10 1-2 3-4 2-3 1-2			NIL 0.01 NIL NIL	

HOLE: TA-91-02

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INTE	RVAL	· · · · · · · · · · · · · · · · · · ·	DESCRIPTION				SAM	IPLE		······	AS	SAYS
FROM	то			No.	From	То	Length %Rec	%Py	%QV	%Ser	Au, g/t	Au,Check
		50.50 - 63.00	Unit is quite fine grained, basaltic.	9516 9517 9518 9519 9520 9521 9522 9523 9524 9525 9526	50.50 51.00 52.00 53.00 54.00 54.50 55.00 56.00 57.00 58.00 59.00	51.00 52.00 53.00 54.00 54.50 55.00 56.00 57.00 58.00 59.00 60.00	0.50 1.00 1.00 0.50 0.50 1.00 1.00 1.00	Tr.	1 1 2-3 2 Tr. 1-2 Tr. 1 2-3 1-2		NIL NIL NIL NIL NIL NIL NIL NIL NIL NIL	
		63.00 - 74.90	Becomes somewhat coarser grained more dioritic in appearance but still quite fine grained.									
	74.90	END OF HOI	LE									
		Casing pulled.										
					·							

HOLE: TA-91-03

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PROPERTY	Teck "A"	DATE LOGGED	October 11, 1991 -	October 13, 1991	EASTING	000	(*			ล
TOWNSHIP	Teck	LOGGED BY	Mark Masson	,	NORTHING	172 S	Depth	Method	Azimuth	Dip	1
CLAIM No.	L 626766	DRILLED BY	Heath & Sherwood	i	ELEVATION				7 1 1110111	Dip	1
STARTED	October 10, 1991	CORE LOCATION	Kirkland Lake Wa	rehouse	COLLAR SURVEY		Collar	Compass	346	63	1
COMPLETED	October 12, 1991	DOWNHOLE SURVEYOR	B.M.C.I.					-			1
		SURVEY INSTRUMENT			LENGTH	176.30	3.0			63	1
					UNITS	metres	60.0				1
					CORE SIZE	NQ	00.0			62	1
PURPOSE	To test "DK" showing			1.15			90.0			62	1
				N.D.							
COMMENTS			SIGNED BY	h			170.0			61	
				(W. Benham))					l	í.
				,						1	1

	SUM	A	SSAY SUMM	IARY		
INTERVAL From To	DESCRIPTION	INTERVAL From To	DESCRIPTION	INTERVAL From To	LENGTH in metres	AVERAGE Au g/t
0.00 1.15 1.15 23.00 23.00 55.20 55.20 60.80	OVERBURDEN BASALT Massive10.70 - 11.10Shear zone @ 50° tca. 1% coarse grained pyrite. 5% quartz veins.17.05 - 17.20Quartz + calcite + pyrite vein. 1- 2% fine grained pyrite.PILLOWED BASALT 33.60 - 33.75Quartz + calcite + pyrite vein @ 55° tca. 2-3% medium grained pyrite.35.00 - 35.15Calcite + quartz + pyrite vein @ 50° tca.39.50 - 39.65Bleached, 1-2% pyrite.46.60 - 46.65Blue-grey quartz flooding, 2-3 pyrite.50.20 - 50.30Quartz + calcite + pyrite vein, 3- 5% pyrite.51.55 - 51.75Quartz + calcite + pyrite zone, 3- 4% medium grained pyrite.SHEAR ZONESheared @ 65° tca silicified. 1-2% fine grained	60.80 87.70 87.70 137.50 137.50 176.30 176.30	 57.00 - 58.10 57.00 - 58.10 65% white quartz veins with < 1% black graphite ± galena filled fractures @ 75° tca. 58.10 - 60.00 Silicified 1% magnetite. 1-2% pyrite, 3% quartz veins. BASALT Leucoxene spotted, trace to 1% pyrite, trace to 3% quartz + calcite veins. BASALT Massive, trace to 2% pyrite, trace to 5% quartz + calcite veining. DIORITIC BASALT/GABBRO 151.00 - 151.30 Sheared @ 45° tca. 1% pyrite. 	81.45 85.00 108.00 108.60	3.00 3.55 0.60	0.28 0.13 0.16

HOLE: TA-91-03

PAGE: 2 of 7

INTE	RVAL	DESCRIPTION				SAN	IPLE	·			SAYS
FROM	ТО		No.	From	То	Length %Rec		%0V	%Ser	1	
0.00	1.15 23.00	 OVERBURDEN BASALT Massive, non-pillowed, non-variolitic, medium to light green. Ranges from very fine grained to medium grained comprised of 20-30% euhedral chloritized pyroxene(?) in a grey-white plagioclase groundmass. Patchy weak magnetics. 1% barren, grey-white calcite ± quartz veinlets (≤ 1 cm). Lower contact of unit is subjective and gradational. 10.70 - 11.10 Shear zone @ 50° tca. Chlorite + calcite + quartz ± pyrite. Well foliated to weakly schistose chloritic shear with a few strong calcite-lined chloritic slips. Cutting foliation at low angle (10°) are three fractured, brecciated quartz + calcite veins with up to 0.5 cm blue-grey quartz fragments in a grey-white calcite groundmass. Within vein and adjacent wall rock is 1% finely disseminated and coarse grained euhedral pyrite. 17.05 - 17.20 Quartz + calcite + pyrite breccia vein. Very irregular grey-white to pink quartz + calcite breccia veining with angular included wall rock fragments (≤ 1 cm). Around veins basalt is crenulated and contains 1% fine grained euhedral disseminated pyrite and pink-brown (rose quartz + potassic feldspar) veinlets (≤ 0.5 cm).	9527 9528 9529 9530 9531 9532 9533 9534 9535 9536 9537 9538 9539	8.00 9.00 10.00 10.70 11.20 12.00 13.00 14.00 15.00 16.00 17.00 17.30 18.00	9.00 10.00 10.70 11.20 12.00 13.00 14.00 15.00 16.00 17.30 18.00 19.00	1.00 1.00 0.70 0.50 0.80 1.00 1.00 1.00 1.00 1.00 1.00 1.0	70ry Tr. Tr. 1	2 5-7 15	<u>%2561</u>	Au, g/t 0.01 NIL NIL NIL NIL NIL NIL NIL NIL	Au,Check
23.00	55.20	 PILLOWED BASALT Massive, medium to dark green with light green very fine to aphanitic basalt and dark green pillow selvages. Selvages are very soft chloritic while cores are quite hard. Pillows seem to be quite large with selvage spacings from 25 cm to 1 m. Non-magnetic. 27.60 1.5 cm wide calcite + quartz vein @ 60° tca with light green bleached calcite ± quartz alteration halo up to 2 cm wide adjacent to vein. Vein and wall rock carries 1-2% finely disseminated to coarse grained blebby euhedral pyrite. 33.60 - 33.75 Calcite + quartz + pyrite vein @ 55° tca. 2-3% medium grained (≤ 2 mm) sub to euhedral pyrite grains floating in	9540 9541 9542 9543 9544 9545 9546 9547 9548 9549 9550	25.00 26.00 27.00 27.50 28.00 29.00 30.00 31.00 32.00 33.00 33.50	26.00 27.00 28.00 29.00 30.00 31.00 32.00 33.00 33.50 34.15	1.00 1.00 0.50 0.50 1.00 1.00 1.00 1.00	Tr. Tr. Tr. Tr. Tr. Tr. 1-2	1 1 Tr. Tr. Tr. Tr. 10		NIL NIL NIL NIL NIL NIL NIL NIL 0.01	

HOLE: TA-91-03

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INTE	RVAL		DESCRIPTION	•			SAN	APLE				AS	SAYS
FROM	то			No.	From	То	Length %Rec	%Py	%QV	%Ser		Au, g/t	Au,Check
		33.75 - 34.10 35.00 - 35.15	a dark grey to buff calcite + quartz groundmass. Vein is quite irregular and upper contact is lined with sub- euhedral pyrite. Basalt is well foliated with sharp chlorite slips calcite veinlets and trace fine grained euhedral pyrite. Calcite + quartz ± pyrite vein @ 50° tca. Light grey-buff to pink calcite + quartz vein with minor contorted wall rock inclusions which carry 0.5-1% finely disseminated	9551 9552 9553	34.15 34.90 35.20	34.90 35.20 36.00	0.75 0.30 0.80	Tr. Tr. Tr.	Tr. 10-15			NIL NIL NIL	
		36.45 39.50 - 39.65	pyrite. 1% coarse grained euhedral clotty pyrite on grey-white calcite pod within a dark green chloritic pillow selvage. Pillows displays chloritic cracking at right angles to selvage. Possible south facing in the up-hole direction. Bleached pyrite zone. 1-2% finely disseminated subhedral pyrite in a grey-buff, strongly carbonated, weakly silicified zone. Upper contact is a sharp slip @ 70° tca while lower contact is irregular and diffuse.	9554 9555 9556 9557 9558 9559 9560 9560	36.00 36.60 37.50 38.50 39.40 39.90 40.50 41.00	36.60 37.50 38.50 39.40 39.90 40.50 41.00 41.50	0.60 0.90 1.00 0.90 0.50 0.60 0.50 0.50	Tr. 1 Tr.	2	Ca	I.	NIL NIL NIL NIL 0.01 NIL NIL	
		44.40	1 cm wide, discontinuous, blue-grey calcite + quartz vein @ 45° tca with 3% fine to medium grained euhedral pyrite.	9562 9563 9564 9565 9566 9567 9568 9569	41.50 42.00 42.50 43.00 44.00 44.50 45.00 46.00	42.00 42.50 43.00 44.00 44.50 45.00 46.00 46.50	0.50 0.50 1.00 0.50 0.50 1.00 0.50	Tr. Tr. Tr.	Tr. Tr. Tr.			NIL NIL NIL NIL NIL NIL NIL	
		46.60 - 46.65	Dark blue-grey, very fine grained to aphanitic calcite + quartz flooding (veining) with 2-3% medium (≤ 2 mm) euhedral pyrite cubes. Vein @ 40° tca.	9570 9571 9572 9573 9574 9575 9576	46.50 47.00 47.50 48.00 48.50 49.00 49.50	47.00 47.50 48.00 48.50 49.00 49.50 50.00	0.50 0.50 0.50 0.50 0.50 0.50 0.50	1 Tr. Tr. Tr.	5 Tr. Tr. Tr.			NIL NIL 0.01 NIL NIL NIL	
		50.20 - 50.30	Calcite + quartz + pyrite zone. 3-5% very fine grained sub-euhedral disseminated pyrite in a very fine grained, yellow-brown carbonated and silicified groundmass which is in turn pseudo-brecciated "crack & seal" by narrow (\leq 1 mm) blue-grey quartz \pm calcite fracturing. Weak diffuse boundaries.	9577 9578 9579	50.00 50.50 51.00	50.50 51.00 51.50	0.50 0.50 0.50	2 Tr. Tr.	5 Tr. Tr.	C	ıl. Sil.	0.03 0.04 NIL	
		51.55 - 51.75	Quartz + calcite + pyrite zone. Upper contact sharp chlorite slip @ 50° tca. Lower contact irregular and	9580 9581	51.50 52.00	52.00 53.00	0.50 1.00	2 Tr.	3-5 Tr.	Ca Ca	1. Sil. 1.	0.02 NIL	



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INTE	RVAL		DESCRIPTION					SAM	PLE			AS	SAYS
FROM	ТО			No.	From	То	Length %	······	%Py	%QV	%Ser	Au, g/t	Au,Check
		53.00 - 55.20	diffuse. 3-4% medium grained euhedral pyrite cubes and clusters disseminated through a dirty brown moderately silicified and carbonatized groundmass. Cut by 3% later barren white quartz stringers. Unit becomes increasingly foliated @ 45° tca and cut by 3-4% calcite \pm quartz veinlets and a strong pervasive carbonate in matrix. Carries trace patchy sub-euhedral pyrite.	9582 9583 9584 9585	53.00 53.50 54.00 54.70	53.50 54.00 54.70 55.20	0.50 0.50 0.70 0.50		Tr. Tr. Tr. 0.5-1	2-3 3 1-2 2-3	Cal. Cal.	NIL NIL NIL 0.01	10,000
55.20	60.80	+ pyrite ± ma	inated @ 65° tca. Chlorite + sericite + quartz + hematite agnetite. Strongly foliated to laminated, pseudo-mylonitic pervasively silicified.										
		55.20 - 56.00	Well foliated, weakly to moderately silicified, chloritic mafic volcanics intruded (parallel to foliation) by 3-5% salmon pink aphanitic quartz \pm potassic feldspar (?) veinlets up to 2-3 cm wide. These veinlets generally have 1-2% fine grained euhedral pyrite within veins and in adjacent wall rock. Volcanics are strongly magnetic and display weak patchy zones of hematization.	9586	55.20	56.00	0.80		1	3-5	Sil.	NIL	
		56.00 - 57.00	Zone takes on a strongly banded to laminated appearance due to alternating sections of: 1) Dark green foliated, chloritic, volcanic. 2) Yellow-green sericitized volcanic. 3) Purple hematized bands. These lamellae range from 1 mm to 2-3 cm wide and entire section is overprinted by a pervasive silicification. Also carries 3-4% salmon pink (quartz \pm potassic feldspar?) veinlets up to 1.5 cm wide parallel to laminations. Entire zone carries 1% finely disseminated and minor banded pyrite.	9587 9588	56.00 56.50	56.50 57.00	0.50 0.50		1 1		Sil. Sil.	0.03 0.15	
		57.00 - 58.10	Zone consists of mottled dirty yellow-brown to grey, medium grained, altered dioritic basalt intruded by semi- massive, milk white quartz veins up to 30 cm wide.	9589	57.00	57.50	0.50		Tr.	65	Galena Graph	0.52	
		57.25 - 57.50	White quartz vein has dark blue-black hairline sutures (possibly graphite and/or galena?) @ 75° tca. These sutures frequently have spotty subhedral pyrite on/or adjacent to them.	9590	57.50	58.10	0.60		Tr.	55	Galena Graph	0.51	
		58.10 - 60.00	Pervasively silicified, dirty grey-brown altered basalt with patchy purple hematization (1% fine grained magnetite	9591 9592	58.10 58.75	58.75 59.50	0.65 0.75		1-2 1-2	2 3-4	Sil. Sil.	0.14 0.14	

HOLE: TA-91-03

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INTE	RVAL		DESCRIPTION	· · · · · · · · · · · · · · · · · · ·			- <i>n</i> · · · ,	SAM	IPLE			A	SSAYS
FROM	ТО			No.	From	То	Length (%Rec	%Py	%QV	%Ser	Au, g/t	Au,Check
		60.00 - 60.80	evident) and 1-2% finely disseminated pyrite. Section cut by 3% barren milk white quartz veins up to 15 cm. Zone is moderately well foliated medium to fine grained dioritic basalt strongly magnetic and somewhat bleached and silicified proximal to a pink-white calcite + quartz vein @ 5-15° tca. Very minor disseminated pyrite.	9593 9594	59.50 60.00	60.00 60.80	0.50 0.80		1 Tr.	1-2	Sil. Sil+Cal	NIL 0.01	
60.80	87.70	predominantly white (plagic carbonatization brown leucoxen irregular calcit quartz + calcit	ed dark green-black, very soft chloritic volcanic. Comprised of aphanitic chloritic matrix with fine irregular patchy grey- oclase) altered groundmass. Pervasive, ubiquitous of acleite. Pervasive moderate magnetics. Patchy buff-grey to spotting up to 1%. Trace spotty subhedral pyrite on small e clots and proximal to minor grey-white to salmon-pink $e \pm$ potassic feldspar(?) veinlets up to 1 cm wide. Lower is subjective as it grades to fine grained magnetic basalts.										
		60.80 - 71.60 71.60 - 87.70	Moderately well foliated @ 45° tca with a sharp chlorite slip @ 71.6 m. Massive, strongly magnetic and in places has a weak spotted appearance due to grey-brown spots and clusters of what appears to be leucoxene \pm sericite alteration or replacement of some pre-existing mineral in groundmass. In places a crude crystal cleavage is evident.	9595 9596 9597 9598 9599 9600 9601 9602 9603 9604 9603 9606 9606 9607 9608	60.80 61.50 62.00 63.00 64.00 65.00 66.00 67.00 68.00 69.00 70.00 70.50 71.00 71.60	61.50 62.00 63.00 64.00 65.00 66.00 67.00 68.00 69.00 70.00 70.50 71.60 72.25	0.70 0.50 1.00 1.00 1.00 1.00 1.00 1.00 1.0		Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr.	Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr.		NIL NIL NIL 0.02 NIL NIL 0.01 0.04 NIL 0.03 0.05 0.01 NIL	
		72.25 - 72.75	Moderately well foliated zone with 3% quartz + calcite + pyrite veining. Narrow calcite + quartz veinlets with bleached silicified alteration halos (up to 1 cm wide) with 1-2% medium grained euhedral pyrite within halo and wall rock. Also a 10 cm wide grey-white quartz vein with	9609 9610 9611 9612 9613	72.25 72.75 73.50 74.00 75.00	72.75 73.50 74.00 75.00 76.00	0.50 0.75 0.50 1.00 1.00		1 Tr.	10 Tr.		0.08 0.02 NIL NIL 0.01	*****

HOLE: TA-91-03

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INTE	RVAL	DESCRIPTION				SAN	IPLE			AS	SAYS
FROM	то		No.	From	То	Length %Rec	%Py	%QV	%Ser	Au, g/t	Au,Check
		 calcite fractures and internal chlorite wisps. 1% pyrite on vein wall and on chloritic sutures internally. 80.00 - 82.00 Unit has 1% fine grained euhedral magnetite crystals (≤ 1 mm) evident throughout. 81.45 - 87.70 Unit contains up to 2-3% white to salmon pink quartz ± potassic feldspar(?) + calcite veinlets up to 2 cm wide from 0-50° tca. These veinlets typically have salmon pink rims grading to white quartz cores. Calcite occurs as infilling of cross-fractures in vein and as a grey-white sugary background. Veins have 1-2% medium grained euhedral pyrite on walls and adjacent wall rock. 	9614 9615 9616 9617 9618 9619 9620 9621 9622 9623 9624 9625 9626 9627 9628 9629 9630 9631	76.00 77.00 77.50 78.00 79.00 80.00 81.00 81.45 82.00 82.50 83.10 83.50 83.50 85.50 85.50 86.00 86.50 87.00	77.00 77.50 78.00 79.00 81.00 81.45 82.00 82.50 83.10 83.50 83.00 85.50 85.50 86.00 85.50 86.50 87.00 87.70	1.00 0.50 0.50 1.00 1.00 0.45 0.55 0.50 0.60 0.40 0.50 1.00 0.50 1.00 0.50 0.50 0.50 0.5	1 Tr. 1 1 1 Tr. 1-2 0.5 Tr. Tr. Tr. Tr.	2-3 1 3 2-3 2 Tr. 2-3 1-2 Tr. 1 1		0.01 0.04 NIL 0.08 0.04 0.24 0.13 0.05 NIL 0.23 NIL 0.23 NIL 0.01 0.01 NIL NIL	
87.70	137.50	 BASALT Massive, fine to very fine grained dark green basalt. Moderately hard, strong pervasive magnetics. Non-pillowed, non variolitic etc. Pervasive, ubiquitous calcite veining and flooding. In places unit acquires a mottled patchwork appearance due to irregular medium grained dioritic phases and patches intermixed with very fine grained basaltic unit. These coarser phases then grade to dark green-blue, aphanitic volcanics with minor leucoxene. i.e. from ≈ 130-137.5 unit is dark blue-green aphanitic mafic volcanic with 1-2% fine leucoxene spotting. Then from 137.5-138.0 grades to a massive medium grained dioritic basalt. 87.70 - 88.20 Section carries 5-10% milk white to brown quartz + calcite + pyrite veining intruding moderately foliated chloritic basalt @ 50° tca. Contains 1% medium grained euhedral pyrite in wall rock. 88.80 - 89.30 Irregular grey-white calcite ± quartz veining with minor included smeared basalt and carrying 1% medium grained euhedral pyrite. 	9632 9633 9634 9635 9636 9637 9638	87.70 88.30 88.80 89.30 90.00 91.00 92.00	88.30 88.80 90.00 91.00 92.00 93.00	0.60 0.50 0.50 0.70 1.00 1.00 1.00	Tr.	10-15		0.06 NIL NIL NIL 0.01 NIL NIL	

BATTLE MOUNTAIN (CANADA) INC. DIAMOND DRILL LOG

HOLE: TA-91-03

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INTE	INTERVAL DESCRIPTION			. <u>.</u>		SAN	MPLE	ASSAYS
FROM	то		No.	From	То	Length %Rec	%Py %QV %Ser	Au, g/t Au, Check
		 96.00 - 102.00 Unit grades to a fine to medium grained massive basalt with a fine diabasic texture. Strongly magnetic. Weak calcite veining. 100.80 1 cm wide calcite + quartz vein @ 75° tca with a 1 cm wide red-brown alteration halo which carries 2% euhedral pyrite. 108.00 - 108.50 Moderately altered, calcite + quartz flooding and small calcite veinlets. Zone carries 1% medium grained euhedral disseminated pyrite. 	9639 9640 9641 9642 9643 9644 9645 9646 9647 9648 9649 9650 9651 9652	119.00 120.00	100.00 100.50 101.00 102.00 107.00 108.00 108.60 109.10 110.00 120.00 120.70 121.20	1.00 0.50 1.00 1.00 1.00 0.60 0.50 0.90 1.00 0.70 0.50 0.80 1.00	Tr. 1 1 5 Tr. Tr. 1-2 3-5	NIL NIL NIL NIL NIL NIL NIL NIL NIL NIL
137.50	176.30	DIORITIC BASALT/GABBRO Massive, medium to coarse grained green-white dioritic basalt or gabbro. Somewhat variable from coarse to fine grained with 20-35% dark green subhedral chloritized pyroxene in a grey-white plagioclase groundmass. In places has a very coarse spotted texture due to subhedral pyroxene crystals evident up to 0.5 cm in the anhedral groundmass. May be equivalent to pyroxenite on surface? Generally weak to non-magnetic.						
		 151.00 - 151.30 Unit is moderately well sheared @ 45° tca and is cut by 5% irregular calcite + quartz vein with angular included wall rock fragments. 1% spotty euhedral pyrite. 151.30 - 160.00 Unit is fine to medium grained, massive diabasic textured mafic volcanic. 160.00 - 176.30 Grades to coarse grained massive diorite/gabbro with spotted pyroxenes up to 0.5 cm. 	9653 9654 9655	150.00 151.00 151.50	151.00 151.50 152.00	1.00 0.50 0.50	1 5	NIL NIL NIL
	176.30	END OF HOLE Casing pulled.						



Teck "A" Drilling

APPENDIX II

ASSAY CERTIFICATES

Battle Mountain (Canada) Inc.

November, 1991



9373

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 2

Ass	say Certificate		1W-4149-RA1		
Company: Project: Attn:	BATTLE MOUNTAIN (75-JV-28 W. Benham	CANADA) INC.	Date: OCT-10-91 Copy 1. Box 635, Kirkland Lake, P2N 3K1 2. Fax to 567-6448		
We herei submitte	by certify the following Assa d OCT-09-91 by R. Peever.	ty of 32 CORE sample	ès		
Sample Number	د Au g/tonne	Au check g/tonne	S RECEIVED OCT 1 5 1991		
9344	Nil				
9345	0.01	Ni l			
9346	Ni 1				
9347	0.02				
9348	0.01				
9349	0.01				
9350	0.01				
9351	Ni 1				
9352	Ni l				
9353	Nil				
9354	Ni 1				
9355	Ni 1				
9356	Ni l				
9357	0.01				
9358	Nil				
9359	Ni l				
9360	Ni l				
9361	Ni l				
9362	0.01				
9363	0.01				
9364	Ni 1				
9365	0.01				
9366	Ni 1				
9367	Nil				
9368	0.02				
9369	0.03	0.02			
9370	0.02				
9371	Nil				
9372	Nil				

Certified by Donna Handher

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

Nil

Au was determined using 1 AT fusions



A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 2

Assay Certificate

1W-4149-RA1

Date: OCT-10-91

BATTLE MOUNTAIN (CANADA) INC. Company: 75-JV-28 Project: Copy 1. Box 635, Kirkland Lake, P2N 3K1 W. Benham Attn: 2. Fax to 567-6448

We hereby certify the following Assay of 32 CORE samples submitted OCT-09-91 by R. Peever.

Sample Number	Au Au checl g/tonne g/tonne	e
9374 9375	Ni l Ni l	· · · · · · · · · · · · · · · · · · ·

Au was determined using 1 AT fusions

Certified by Donna Hardner



A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 3

Assay Certificate

1W-4152-RA1

Ι

Company:	BATTLE MOUNTAIN CANADA INC.	
Project:	75-JV-28	Copy 1
Attn:	W.BENHAM	2

Date: OCT-15-91 Copy 1. P.O.BOX 635 KIRKLAND LAKE, ONT. P2N 3K1 2. FAX TO 567--4840

We hereby certify the following Assay of 73 CORE samples submitted OCT-09-91 by R. PEEVER.

Sample Number	Au g/tonne	Au check g/tonne
9376		g/ tolline
9377	0.01 Ni l	
9378	Nil	
9379	Ni l	
9380	0.01	
9381	0.01	
9382	Ni l	
9383	Ni l	Nil
9384	0.01	
9385	Nil	
9386	Ni l	
9387	0.01	
9388	Nil	
9389	0.02	
9390	Ni l	
9391	Nil	
9392	0.01	
9393	Ni 1	
9394	Ni l	
9395	Ni 1	
9396	0.03	
9397	Ni l	
9398	Ni l	
9399	Ni l	
9400	Ni I	
9401	Nil	Nil
9402	Ni l	
9403	0.01	
9404	Ni l	
9405	0.01	
Au was determine	ed using 1 AT fusion	ns

Certified by Donna Hardner



A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 3

Assay Certificate

1W-4152-RA1

Company:	BATTLE MOUNTAIN CANADA INC.	Date: OCT-15-91
Project:	75-JV-28	Copy 1. P.O.BOX 635 KIRKLAND LAKE, ONT. P2N 3K1
Attn:	W.BENHAM	2. FAX TO 5674840

We hereby certify the following Assay of 73 CORE samples submitted OCT-09-91 by R. PEEVER.

Sample Number	Au g/tonne	Au check g/tonne	
9406	0.01		
9407	0.01		
9408	Ni 1		
9409	Ni l	0.01	
9410	Ni l		
9411	0.01		
9412	0.01		
9413	0.01		
9414	Ni 1		
9415	0.01		
9416	0.01		
9417	0.01		
9418	Ni l		
9419	Ni l		
9420	Ni l		
9421	Nil		
9422	Ni I		
9423	Ni l		
9424	0.01	Ni l	
9425	Ni 1		
426	Nil		
9427	0.01		
428	Ni 1		
429	Ni l		
430	Ni I		
431	Nil		
432	0.01		
433	0.01		
9434	0.01		
9435	0.01		

Certified by Dona dner



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Assaying - Consulting - Representation

Page 3 of 3

Assay Certificate

1W-4152-RA1

Company:	BATTLE MOUNTAIN CANADA INC.	Date: OCT-15-91
Project:	75-JV-28	Copy 1. P.O.BOX 635 KIRKLAND LAKE, ONT. P2N 3K1
Attn:	W.BENHAM	2. FAX TO 5674840

We hereby certify the following Assay of 73 CORE samples submitted OCT-09-91 by R. PEEVER.

Sample Number	Au g/tonne	Au check g/tonne
		8/10/06
9436	Ni l	·
9437	Ni l	
9438	Ni l	
9439	Ni l	
9440	Ni l	
9441	Nil	
9442	Ni 1	
9443	0.01	
9444	Nil	
9445	Ni l	
9446	Nil	
9447	Ni 1	Ni l
9448	0.01	

Au was determined using 1 AT fusions

Certified by Donna Landner



A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 2

Assay Certificate

1W-4158-RA1

Company:	BATTLE MOUNTAIN (CANADA) INC.	Date: OCT-16-91
Project:	75-JV-28	Copy 1. BOX 635, KIRKLAND LAKE P2N 3K1
Attn:	WAYNE BENHAM	2. FAX TO 567-6448

We hereby certify the following Assay of 52 CORE samples submitted OCT-10-91 by R. PEEVER.

Sample Number	Au g/tonne	Au check g/tonne	
9449	Nil	Ni l	
9450	Ni l		
9451	Ni 1		
9452	Ni 1		
9453	Ni l		
9454	Nil		
9455	Ni I		
9456	Ni 1		
9457	Ni l		
9458	Ni l		
9459	0.05	0.04	
9460	Nil		
9461	Ni l		
9462	Ni l		
9463	Ni l		
9464	Ni I		
9465	Ni l		
9466	Ni l		
9467	Ni l		
9468	0.01		
9469	0.01		
9470	0.01		
9471	0.02		
9472	0.02	Ni l	
9473	Ni l		
9474	Nil		
9475	Ni l		
9476	Ni 1		
9477	Ni 1		
9478	Ni I		
Au was determin	ed using 1 AT fusio	ons	

Jonna Dardner Certified by

P.O. Box 10, Swastika, Ontario P0K 1T0 Telephone (705) 642-3244, FAX (705) 642-3300 2



A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 2

Assay Certificate

1W-4158-RA1

Company:	BATTLE MOUNTAIN (CANADA) INC.	Date: OCT-16-91
Project:	75-JV-28	Copy 1. BOX 635, KIRKLAND LAKE P2N 3K1
Attn:	WAYNE BENHAM	2. FAX TO 567-6448

We hereby certify the following Assay of 52 CORE samples submitted OCT-10-91 by R. PEEVER.

Samp I e	Au	Au check	
Number	g/tonne	g/tonne	
9479	Ni l		· · · · · · · · · · · · · · · · · · ·
9480	Ni 1		
9481	Ni l		
9482	Ni 1		
9483	Ni l		
9484	0.12	0.12	
9485	0.11		
9486	Ni l		
9487	0.07		
9488	Nil		
9489	0.02		
9490	Ni l		
9491	Ni l		
9492	Nil		
9493	Ni l		
)494	Nil		
9495	Ni l		
9496	Ni l		
9497	0.01		
0498	Ni l		
499	Nil		
500	Ni l	Ni l	

Au was determined using 1 AT fusions

Certified by Donna Hardner

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

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Assaying - Consulting - Representation

Assay Certificate

1W-4165-RA1

Company: Project: Attn:	BATTLE MOUNTAIN CANADA INC. 75-JV-28 WAYNE BENHAM	 Date: OCT-16-91 1. P.O.BOX 635,KIRKLAND LAKE, ONT. P2N 3K1 2. FAX TO 567-6448
We herel submitte	by certify the following Assay of 26 CORE samples d OCT-11-91 by R. PEEVER.	

Sample	Au	Au check
Number	g/tonne	g/tonne
9501	Nil	,
9502	0.02	0.03
9503	Ni l	
9504	Ni l	
9505	Ni l	
9506	Ni l	
9507	Ni l	
9508	Ni 1	
9509	Ni 1	
9510	Ni l	
9511	Ni l	
9512	Ni l	
9513	0.01	0.01
9514	Ni l	
9515	Ni l	
9516	Ni l	
9517	Ni l	
9518	Ni l	
9519	Ni l	
9520	Ni l	
9521	Nil	
9522	Ni l	
9523	Ni l	
9524	Nil	
9525	Ni l	
9526	Nil	

Au was determined using 1 AT fusions

Certified by Donna Handher



A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 3

Assay Certificate

1W-4176-RA1

3

Company:	BATTLE MOUNTAIN CANADA INC.	Date: OCT-17-91
Project:	75-JV-28	Copy 1. P.O.Box 635, Kirkland Lake, Ont. P2N 3K1
Attn:	W.BENHAM	2. Fax to 567-6448

We hereby certify the following Assay of 65 core samples submitted OCT-15-91 by .

Sample Number	Au g/tonne	Au check g/tonne	
9527	0.01		
9528	Ni l		
9529	Ni I		
9530	Ni l		
9531	Ni l		
9532	Nil	Ni I	
9533	Ni 1		
9534	Ni l		
9535	Ni 1		
9536	Ni l		
9537	Nil		
9538	Ni l		
9539	0.01		
9540	Ni l		
9541	Ni l		
9542	Nil		
9543	Ni I		
9544	Ni l	Ni l	
9545	Ni l		
9546	Ni 1		
9547	Nil		
9548	Ni l		
9549	Ni 1		
9550	0.01		
9551	Ni I		
552	Ni l		
553	Ni 1		
554	Ni I		
555	Ni l		
556	Ni I		

Certified by Donna Handner



A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 3

Assay Certificate

1W-4176-RA1

Company:	BATTLE MOUNTAIN CANADA INC.	Date: OCT-17-91
Project:	75-JV-28	Copy 1. P.O.Box 635,Kirkland Lake,Ont. P2N 3K1
Attn:	W.BENHAM	2. Fax to 567-6448

We hereby certify the following Assay of 65 core samples submitted OCT-15-91 by.

Sample Number	Au	Aucheck
	g/tonne	g/tonne
9557	Ni l	
9558	0.01	
9559	Ni 1	
9560	Ni l	
9561	Ni l	
9562	Nil	
9563	Ni l	
9564	Ni I	
9565	Ni l	Ni l
9566	Ni l	
9567	Nil	
9568	Ni I	
9569	Ni l	
9570	Ni 1	
9571	Ni l	
9572	Ni 1	
9573	0.01	
9574	Nil	
9575	Ni I	
9576	Ni 1	
9577	0.03	
578	0.04	0.04
579	Ni l	0.04
580	0.02	
581	Nil	
582	Ni I	
583	Ni l	
584	Nil	
585	0.01	
586	Ni l	

Certified by Donna Handner



A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 3 of 3

Assay Certificate

1W-4176-RA1

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

Date: OCT-17-91 Copy 1. P.O.Box 635,Kirkland Lake,Ont. P2N 3K1 2. Fax to 567-6448

We hereby certify the following Assay of 65 core samples submitted OCT-15-91 by .

Sample Au Au check Number g/tonne g/tonne	
9587 0.03 9588 0.15 9589 0.54 0.50 9590 0.51 9591 0.14	

Au was determined using 1 AT fusions

Certified by Donna Schaner



A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 1 of 3

Assay Certificate

1W-4177-RA1

Company:	BATTLE MOUNTAIN CANADA INC.	Date: OCT-18-91
Project:	75-JV-28	Copy 1. P.O.Box 635,Kirkland Lake,Ont. P2N 3K1
Attn:	W.BENHAM	2. Fax to 567-6448
		2. Tax to 507-0448

We hereby certify the following Assay of 64 core samples submitted OCT-15-91 by .

Samp l e	Au	Au check	
Number	g/tonne	g/tonne	
9592	0.13	0.15	
9593	Ni l		
9594	0.01		
9595	Ni l		
9596	Ni l		
9597	Nil		
9598	0.02		
9599	Ni I		
9600	Ni l		
9601	Ni 1		
9602	0.01		
9603	0.04		
9604	Ni l		
9605	0.03		
9606	0.05		
9607	0.01		
9608	Nil		
9609	0.06	0.09	
9610	0.02	0.07	
9611	Nil		
9612	Ni l		
9613	0.01		
9614	0.01		
9615	0.04		
9616	Ni I		
9617	Ni 1		
9618	0.08		
9619	0.04		
0620	0.04		
0621	0.23	0.24	

Certified by Dana Landner



A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 3

Assay Certificate

1W-4177-RA1

Company:	BATTLE MOUNTAIN CANADA INC.	Date: OCT-18-91
Project:	75-JV-28	Copy 1. P.O.Box 635, Kirkland Lake, Ont. P2N 3K1
Attn:	W.BENHAM	2. Fax to 567-6448

We hereby certify the following Assay of 64 core samples submitted OCT-15-91 by .

Sample Number	Au g/tonne	Au check g/tonne	
9622	0.13		
9623	0.05		
9624	Ni l		
9625	Nil		
9626	0.23		
9627	Ni l		
9628	0.01		
9629	0.01		
9630	Ni l		
9631	Ni l		
9632	0.05	0.07	
9633	Ni l		
9634	Ni l		
9635	Ni l		
9636	0.01		
9637	Nil		
9638	Ni l		
9639	Ni l		
9640	Ni l		
9641	Ni l		
9642	0.01		
9643	Ni l		
9644	Ni 1		
9645	0.15	0.16	
9646	Ni l		
9647	Nil		
9648	Ni 1		
9649	Ni l		
9650	0.05		
9651	Ni 1		

Certified by Donna Handner

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



A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 3 of 3

Assay Certificate

1W-4177-RA1

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

Date: OCT-18-91 Copy 1. P.O.Box 635,Kirkland Lake,Ont. P2N 3K1 2. Fax to 567-6448

We hereby certify the following Assay of 64 core samples submitted OCT-15-91 by .

Sample Number	Au g/tonne	Au check g/tonne	
9652	Nil	*********	
9653	Nil		
9654	Nil		
9655	Nil		

Au was determined using 1 AT fusions

Certified by Donna Sardna

Kirkland Lake Project

Teck "A" Drilling

APPENDIX III

CERTIFICATE OF OUALIFICATIONS

Battle Mountain (Canada) Inc.

November, 1991

CERTIFICATE OF OUALIFICATIONS

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

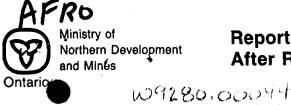
DO HEREBY CERTIFY:

- 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 practising my profession as an exploration geologist since 1970.
- 3. That I have personally supervised the work described in this report.

Signed

Wayne Benham Kirkland Lake, Ontario

Dated this November 29, 1991.



Report of Work Co After Recording C



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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 requirements of filing assessment work or consult the Mining Recorder.
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

Mining Act

Recorded Holder(s) BATTLE MOUNTAIN (CANADA) INC	с. т-51	Client No. 79 105640
Address		Telephone No.
390 Bay Street, Suite 2910,	Toronto, Ontario M5H 2	Y2 (416) 867-9815
Mining Division	Township/Area	M or G Plan No.
Larder Lake	Teck Twp.	M 392
Dates Work From: June 21, 1991 Performed	^{To:} Novemb	er, 1991

Work Performed (Check One Work Group Only)

	Work Group	Туре			
	Geotechnical Survey				
x	Physical Work, Including Drilling	Drilling	ONTARIO GEOLOGICAL SURVEY		
	Rehabilitation		GIS - ASSESSMENT FILES		
	Other Authorized Work		JUN 1 6 1992	,	
	Assays		RECEIVED		•
	Assignment from Reserve	,			

Total Assessment Work Claimed on the Attached Statement of Costs \$ 26,965.65

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				
W. 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 POK 1TO				
M. 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 Jan. 23/92	Recorded Holder or Agent (Signature)
	,	/

Certification of Work Report

its completion and annexed Name and Address of Person	•	this work report, having	performed the work or wither	ssed same during and/or and
	O. Box 635, Kirklan	d Lake, Ontar	io P2N 3Kl	
elepone No. (705) 567-484() Date Jan 23/		y (Signature)	W. Benham
or Office Use Only				A
Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stan	np //S/ON
applied: \$20,640.	January 29/92 Deemed Approval Date	Date Approved	Ufiv 29	PM 2 23
Resource # 6326.	Date Notice for Amendments Sent	1		
<u># 6326.</u> 241 (03/91)			and a second s	ing any second

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	P 6817	1
~	L1111433	1
· · · · · · · · · · · · · · · · · · ·	L 620929	1
-	L 620930	1
	L 620931	1
	L 620932	1
· .	L 626767	1
	L 626769	1
	L 636796	1
	L 636797	1
	L 636798	1
······	L 636799	1
	L 636800	1
	L 626766	1
۰		
	14 Total Number	· .
1241 (03/91)		

26,965.65 Total Value Work Done	20,640.00 Total Value Work Applied
. : .	
21,95 2.8 4	1,600.00
0	1,600.00
0	1,600.00
- 0	1,600.00
0	1,600.00
0	1,600.00
0	1,600.00
0	1,600.00
0	1,600.00
0	1,600.00
0 .	1,600.00
0	1,600.00
0	1,440.00
5,012.81	0
Value of Assessment Work Done on this Claim	Value Applied to this Claim

	·····
Value	Reserve:
Assigned	Work to be
from	Claimed at
this Claim	a Future Date
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5,01 2.81	0
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-20.640.00	6,328,65
Total Assigned From	Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, piease indicate from which claims you wish to priorize the deletion of credits. Please mark (μ) one of the following: \mathbf{X} Credits are to be cut back starting with the claim listed last, working backwards. \Box Credits are to be cut back equally over all claims contained in this report of work. ÷

Credits are to be cut back as priorized on the attached appendix. ര് ന്

In the event that you have not specified your choice of priority, option one will be implemented.

Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims. Note 1:

Note 2: If work has been performed on patented or leased land, please complete the following:

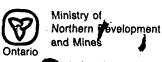
I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature

60

N N

Date



nistère du veloppement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

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.

1. Direct Costs/Coûts directs

Туре	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	5,553.27	
	Field Supervision Supervision sur le terrain		.5.559.27
Contractor's and Consultant's	Type DRILLING	15,797.56	
Fees Droits de l'entrepreneur	ASSAYING	3,580.19	-
et de l'expert- conseil			06,174-713
Supplies Used Fournitures utilisées	Type FIELD EQUIPMENT	495.00	-
			-
			495-00
Equipment Rental Location de matériel	Турө		
	Total Di Total des coú	rect Costs its directs	28-420-021

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.

Filing Discounte

- Work filed within two years of completion is claimed at 100% of 1. 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
× 0.50 =	i .

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. VICE PRESIDENT AND

MANAGER OF EXPLORATION _ I am authorized that as (Recorded Holder, Agent, Position in Company)

to make this certification

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 quesiton sur la collece de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Centeria) DEE 545, téléphene (205) 570, 2064 (Ontario) P3E 6A5, téléphone (705) 670-7264.

Iransaction

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.

Туре	Description Amount Montant		
Transportation Transport	Type TRUCK RENTA	L 522.72	2
	FUEL	195.28	<u> </u>
	COURIER	13.70)
Food and Lodging Nourriture et hébergement			2.5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -
Mobilization and Demobilization Mobilisation et démobilisation			
		tal of Indirect Cos des coûts indirec	
		20% of Direct Costs 20 % des coûts dire	
Total Value of Assessment Credit (Total of Direct and Allowable ndirect costs) (Total des coûts directs et indirects admissibles		298-10 6.3	

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.

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 × 0,50 =

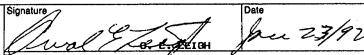
Attestation de l'état des coûts

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.

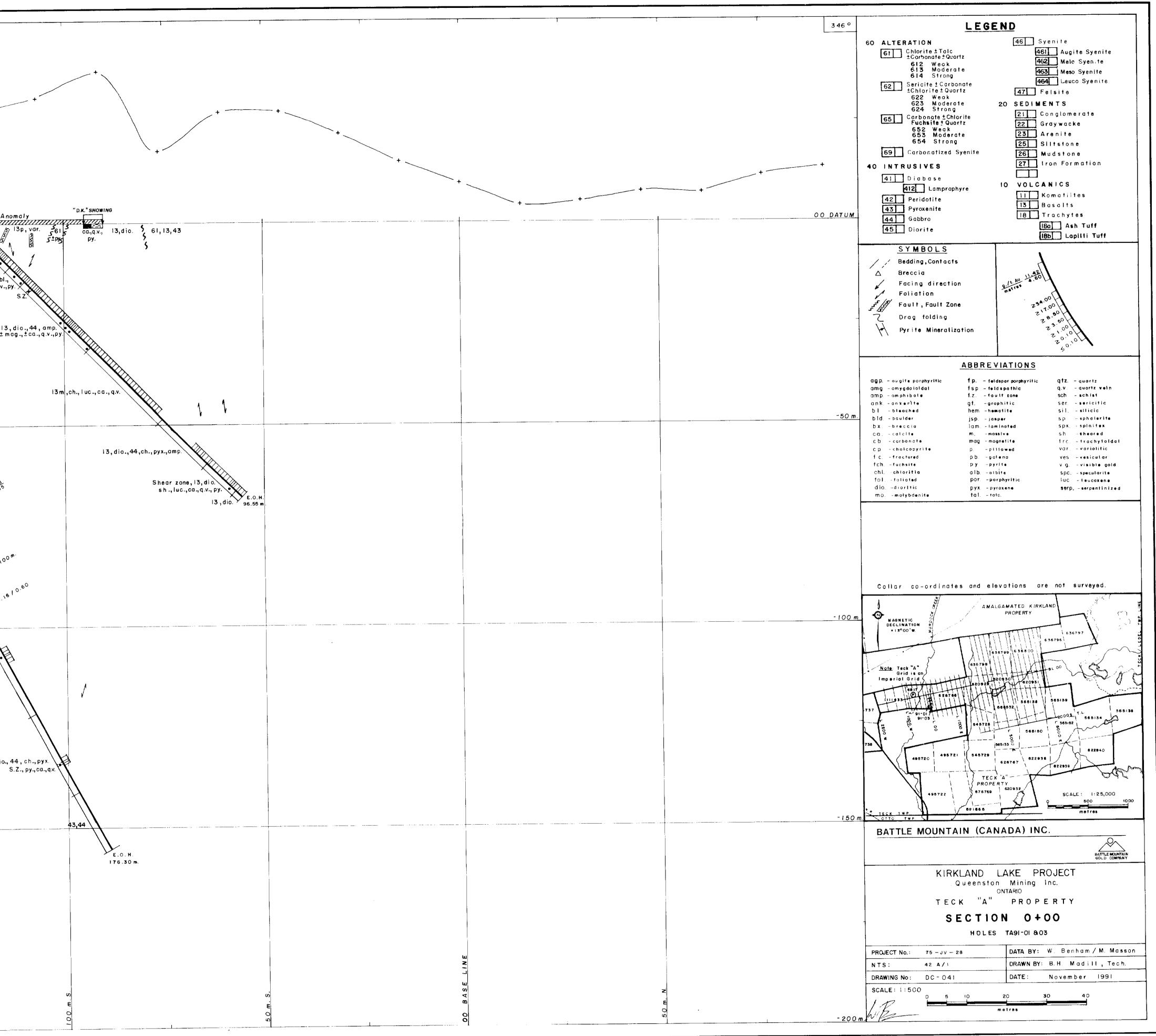
Et qu'à titre de _____je suls autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.



Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre

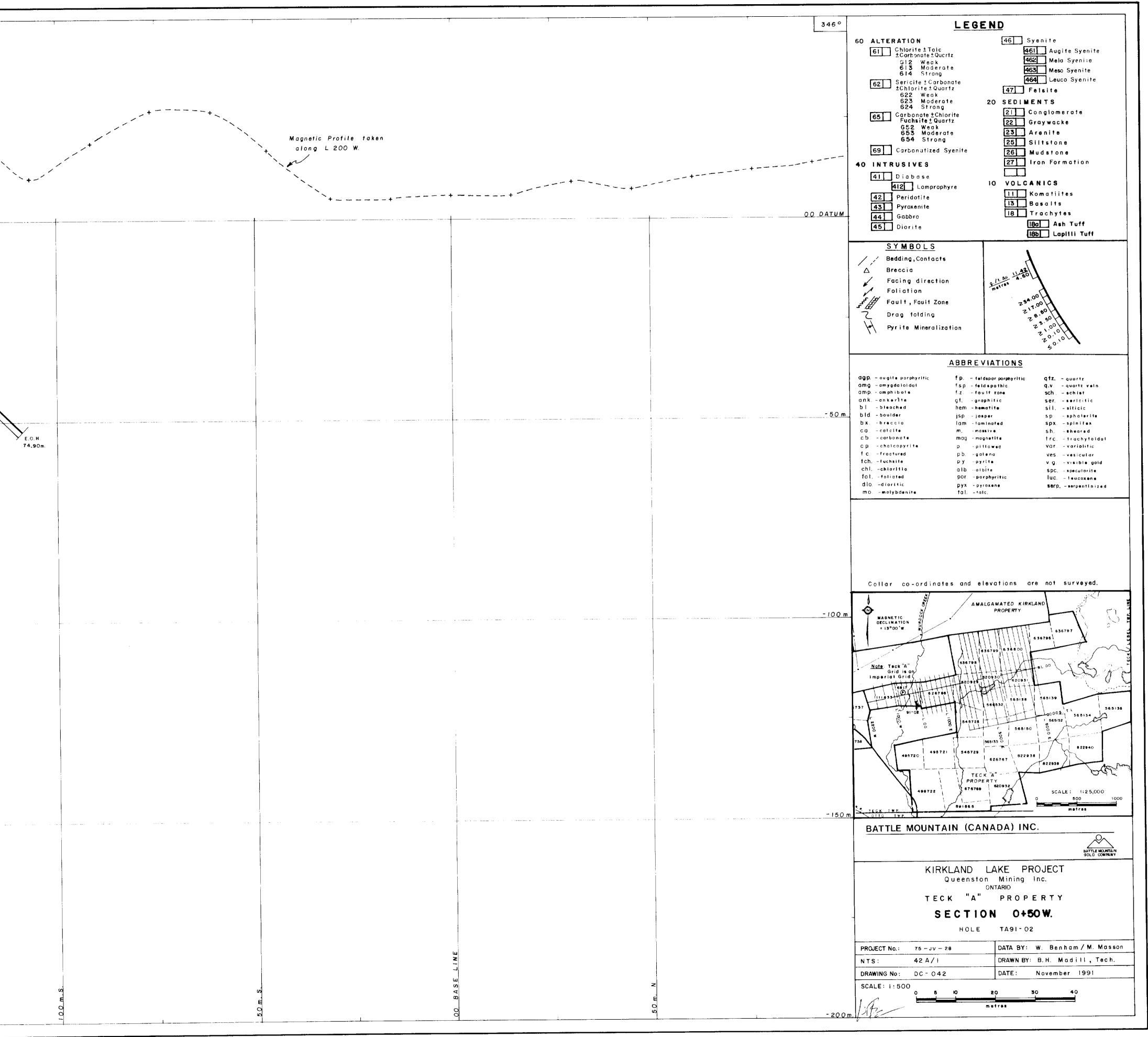
166°			
- 59,200			
- 58,800 TOTAL FIELD MAGNETICS (nT.)		. +	+
- 58,400	- +	++	
- 58,000			
		4 /	TA91-01 I.P. An
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166 °		
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- 58,800 TOTAL FIELD		+ + +
MAGNETICS (nT.)		```+`
- 58,400		
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