1993 ASSESSMENT REPORT

EXPLORATION ACTIVITIES ON THE PREMIER PROJECT

STEWART, BRITISH COLUMBIA

SKEENA MINING DIVISION
NTS 104B/1
LATITUDE 56° 04' N, LONGITUDE 130° 01' W

OWNER/OPERATOR
WESTMIN RESOURCES LIMITED

REPORT BY

PAUL G. LHOTKA, Ph.D., P.Geo.
WESTMIN RESOURCES LIMITED

SEPTEMBER 29, 1993

RPT/93-012

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

Appendix

1.0 SUMMARY

An exploration program was carried out on the Premier property between June and July of 1993. The purpose of the program was to drill test interpreted favourable subsurface geology along trend from the former Sebakwe mine (part of the Premier workings) by a series of wide-spaced drillholes.

Three holes totalling 1,752.1 metres were drilled, all of which intersected the favourable stratigraphic package, and all of which contained alteration and sulphide mineralization in the target interval. None of the mineralization contains commercial values of precious or base metals.

In addition to the mineralized sections of core that were split another 102 samples of core were selected from these three holes plus 1981 Hole 81-22, the nearest long hole testing similar stratigraphy, for geochemical analysis of trace elements to guide future drilling.

The trace element data shows anomalous responses for Au, Ag, As, Cu, Pb and Zn and are common in the monolithic andesites but are absent elsewhere in the stratigraphy. Hole 93-722 has the strongest anomalous response and Hole 81-22 the weakest response. Holes 93-723 and 93-724 have intermediate responses.

Drilling indicates that the geology of the target area is favourable and the presence of alteration and mineralization in the first three holes is encouraging; however, further compilation of existing geochemical and geological data should be done before the next set of drillholes are selected.

Once this compilation and interpretation is done an additional three to five holes should be drilled to further test the area.

2.0 INTRODUCTION

The Premier property is 100% owned by Westmin Resources Limited.

Previous work on the Premier property began in the early 1900's and by 1918 limited production of high grade direct shipping smelter ore was initiated. A detailed history of exploration and development of this historic mining camp is beyond the scope of this report. For further historical information see Grove (1971).

At present, Westmin operates the Premier Gold Project on the Premier property. The project includes a mill for recovering gold and silver with a capacity of over 2,000 metric tonnes per day. Currently, the main ore sources are from underground mining of pillars, sills and unmined extensions of zones as well as underground mining of a collapsed stope complex known as the Glory Hole.

With regards to the area of present concern work was performed in an area located north of Lesley Creek (Cooper Creek on some maps), west of the Long Lake-Fish Creek Fault, east of Cascade Creek and bounded to the north by a dyke or stock of "Premier Porphyry" along the Big Missouri Road north of the switchbacks (Figure 1). Relatively little work has been done in this area previously.

Underground workings of the 1350 Level (4 Level) of Sebakwe sector of the Premier mine cross under Lesley Creek in one location with the last stope located virtually under the creek. Drifting further north and east on the 1350 Level beyond the last stope was apparently directed at obtaining position to diamond drill the subsurface projections of a series of showings on the north side of Lesley Creek known as the Bush workings which had been developed by a series of tunnels and drillholes. These workings form the eastern boundary of the present area of interest. Aside from the above no underground work has been done in the present area of interest.

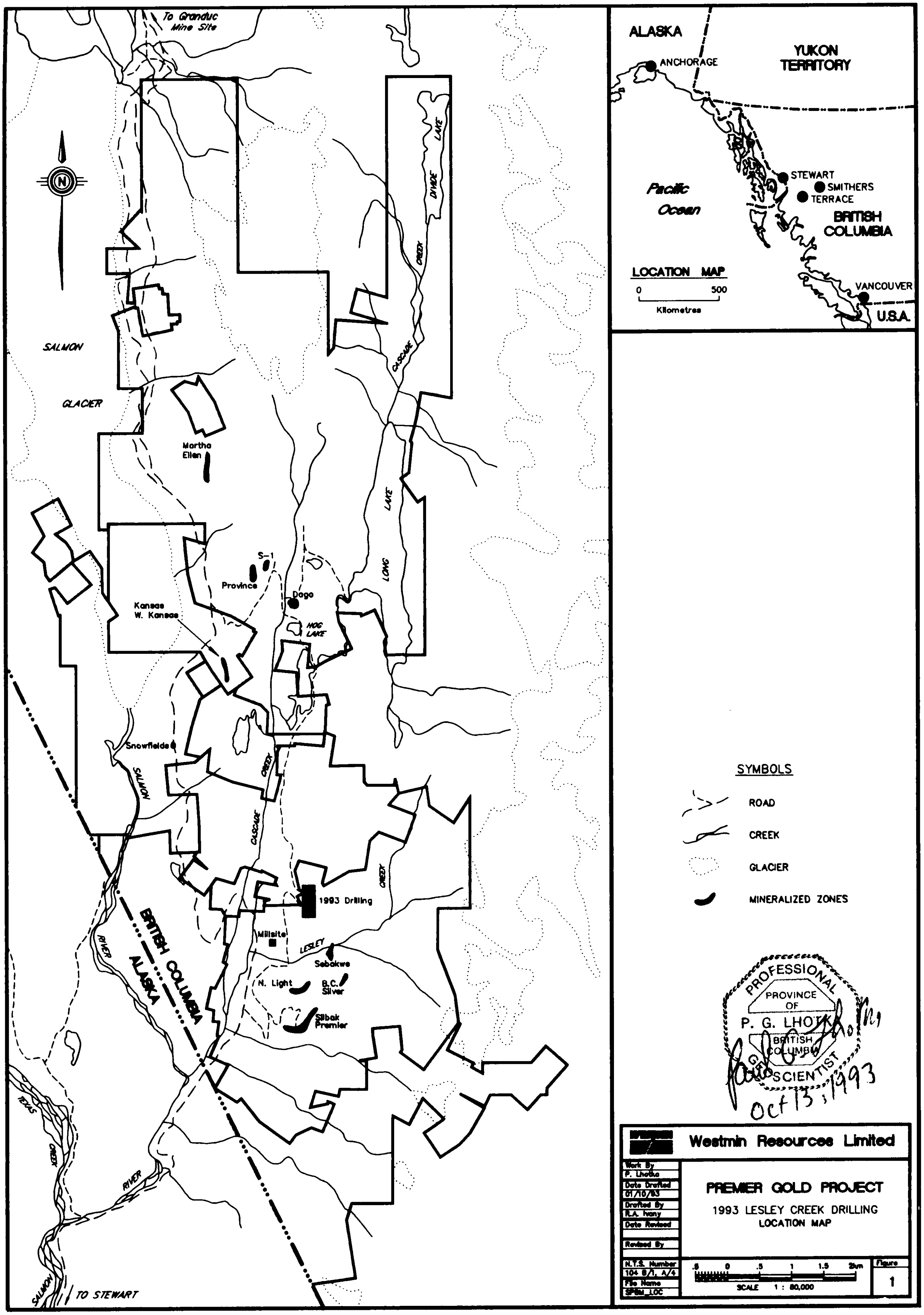
Prior to this, surface work has been limited to various surface programs including prospecting, geological mapping and some grid work including geophysics and soil geochemistry.

A major compilation of geological data during the winter of 1991-92 indicated that the area north of Lesley Creek appeared to have good potential to host the same stratigraphy and structures as the Premier-B.C. Silver-Sebakwe-Northern Light mines, but that the favourable geology would be expected at depths of 200 to 300 m below surface. Previous surface exploration would therefore have been ineffective in testing the favourable area.

During the summer of 1992 a geological field mapping project was completed in order to test whether a major break occurred in the stratigraphy somewhere north of Lesley Creek and, if so, where (Payne, 1992). Territory south of such a break would be prospective.

Mapping in 1992 was successful in locating the break, now known as the North Fault, which is occupied by an intrusion of Premier Porphyry. North of the break the favourable stratigraphy was either not deposited or has been eroded away. South of the break the mapping suggested the favourable stratigraphy should be present beneath as much as 300 m of unfavourable stratigraphy.

The current drill program tested this theory.


To Granduc Mine Site
SALMON
GLACIER
Martha Ellen
S-1
Province
Dago
HOG LAKE
Kansas W. Kansas
DIVIDE LAKE
CREEK
CASCADE
LONG
LAKE
Snowfields
SALMON
CREEK
CASCADE
CREEK
1993 Drilling
Millsite
LESLEY
Sebakwe
N. Light
B.C. Silver
Silbak Premier
BRITISH COLUMBIA
ALASKA
RIVER
TEXAS
CREEK
RIVER
SALMON
TO STEWART
ALASKA
ANCHORAGE
YUKON TERRITORY
Pacific Ocean
STEWART
SMITHERS
TERRACE
BRITISH COLUMBIA
LOCATION MAP
0
500
Kilometres
VANCOUVER
U.S.A.
SYMBOLS
ROAD
CREEK
GLACIER
MINERALIZED ZONES
PROFESSIONAL
PROVINCE OF
P. G. LHOTKA
BRITISH COLUMBIA
GEOSCIENTIST
Oct 13, 1993
Westmin Resources Limited
Work By
P. Lhotka
Date Drafted
01/10/93
Drafted By
R.A. Ivany
Date Revised
Revised By
N.T.S. Number
104 B/1, A/4
File Name
SPBM_LOC
PREMIER GOLD PROJECT
1993 LESLEY CREEK DRILLING
LOCATION MAP
.5
0
.5
1
1.5
2km
SCALE 1 : 80,000
Figure
1

3.0 1993 EXPLORATION PROGRAM

In 1993 a program of diamond drilling was carried out between June 9 and 30, 1993 under the direction of the author.

Diamond drilling was contacted to F. Boisvenu Drilling Ltd. of Delta, B.C. and a Boyles 56A drill was used for the drilling. A D-7 tractor was used to move the drill. A minor amount of road building was attempted in two locations with two different excavators (a Cat 225 and Komatsu) but this work was abandoned when poor material comprising mud or solid bedrock with no source of road material were encountered. In the end all three holes were drilled from the edges of previously existing roads. Areas disturbed by excavator were reclaimed and seeded in July 1993. A list of personnel employed on the project is included as Appendix A. A total of 153 person field days were worked on the project between June 4 and July 15, 1993.

Crew were accommodated at Westmin's exploration trailer camp at Premier, 4 km from the work area.

4.0 EXPENDITURES

Assessment work in the amount of $157,431 plus $12,961 in portable assessment credit for a total of $170,400 was filed on July 20, 1993.

Expenditures for the 1993 exploration program for fieldwork completed prior to July 15 as well as reporting costs are shown in Table 1. Total expenditures are estimated to be in excess of the $170,400 that was filed.

Assessment work done on the Premier property was filed on adjacent claims on the adjacent Big Missouri, High Ore and Ruby Silver properties which were grouped with the Premier property in order to maximize the amount of assessment credit. Westmin has the majority or 100% interests in all of these properties.

TABLE 1 LESLEY FLATS ESTIMATED MINIMUM DRILLING EXPENDITURES	
Drilling costs (1,752 metres)	$115,018
Cost per metre, contractor	65.65
Camp costs Drillers Geology	 3,960 990
Fuel	4,000
Tractor	750
Hoe, low bed	2,000
Hoe operator	525
Geology	9,800
Assays (Premier Lab)	495
Drafting	2,000
Reporting	1,200
WR trace element (Chemex)	750
Printing, photocopying	200
Overhead, 10%	15,743
Subtotal	**42,413**
Estimated total	**$157,431**
Metres drilled	1,752
Cost per metre, all up	90

5.0 LOCATION, ACCESS, VEGETATION AND PHYSIOGRAPHY

The Premier Property is located 16 km north of Stewart, British Columbia (NTS 104B/1, latitude 56° 04' N, longitude 130° 01' W) [Figures 1 and 2].

Access to the property is provided by the Granduc and Big Missouri roads. The portion of the property explored in 1993 is immediately adjacent to the Big Missouri Road. Heavy snow falls limit road access beyond the Premier mill to the period between June and October.

The portion of the property explored is below the tree line. Trees comprise decadent stands of mountain hemlock. A few flat areas are covered with peat bogs. Prominent cliffs are present along the western and northern portions of the area.

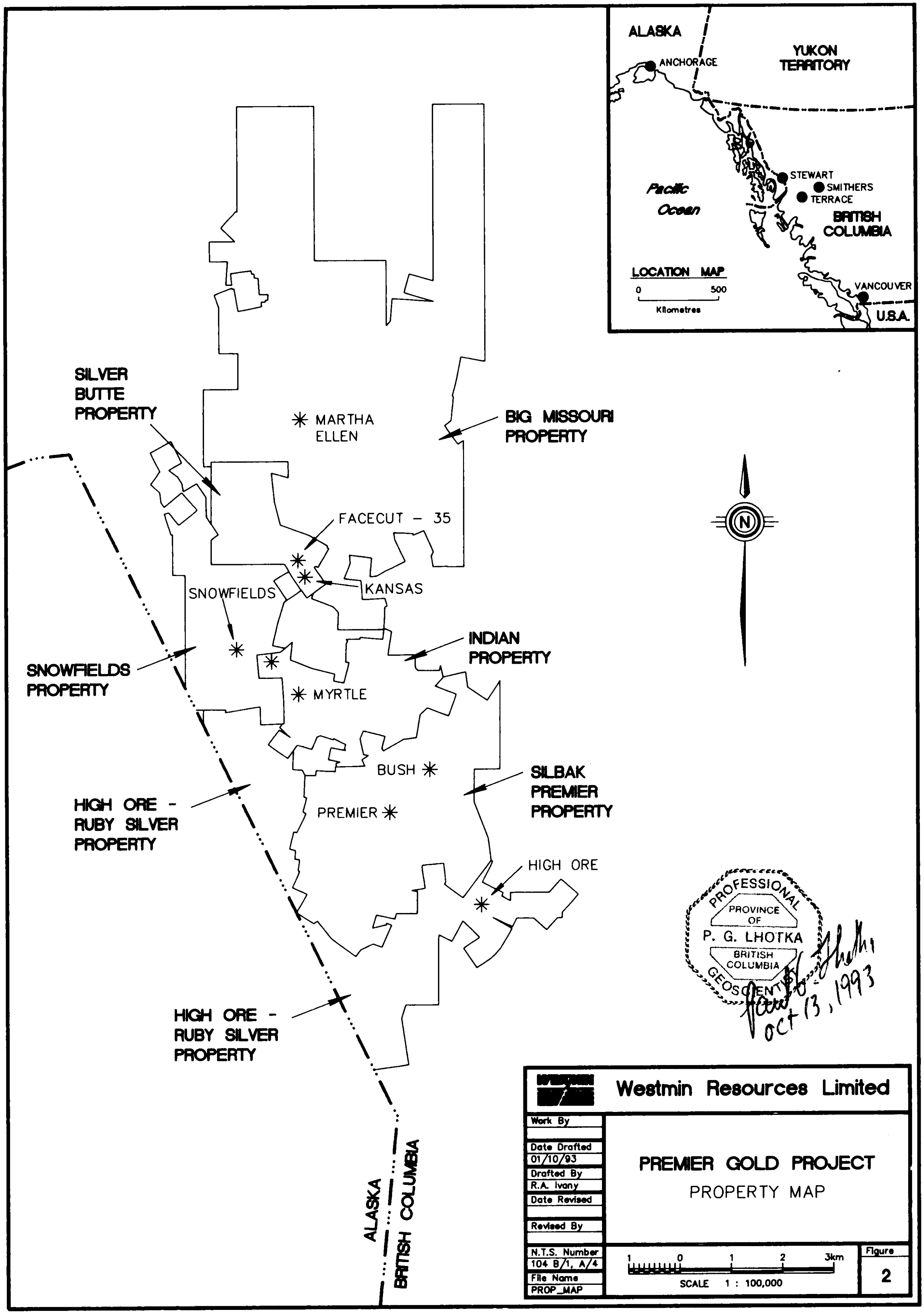
The Cascade Creek and Lesley Creek valleys are narrow steep-sided valleys.

6.0 CLAIM STATUS AND OPTION AGREEMENT

The Premier property consists of 87 Crown grants, three located mineral claims and one mining lease that cover the equivalent of 93 units, all of which are 100% owned by Westmin Resources Limited (Figure 2). Claim data is presented in Table 2.

7.0 GEOLOGY OF THE PROPERTY

The Premier property is underlain by Lower Jurassic Hazelton Group volcanic and sedimentary rocks which are part of the accreted terrane of Stikinia. In the Stewart area Alldrick (1985, 1987, 1991) has subdivided the Hazelton Group into four formations all of which are present on the Premier property (from oldest to youngest). The Unuk River Formation comprises andesitic to dacitic flows and tuffs with fine marine clastics. The Betty Creek Formation is comprised of dacitic flows and breccias, maroon clastic sediments and minor limestone. The Dilworth Formation is comprised of dacitic to rhyodacitic tuffaceous sediments and ash tuffs. The Salmon River Formation is comprised of black shale and minor calcareous sandstone. It is unclear which portions of Alldrick's stratigraphy correlate with the descriptions that follow, although it can be surmised that the units described are part of the Betty Creek and Unuk River formations based upon Alldrick's mapping.



Westmin Resources Limited

PREMIER GOLD PROJECT

PROPERTY MAP

Work By	
Date Drafted	01/10/93
Drafted By	R.A. Ivany
Date Revised	
Revised By	
N.T.S. Number	104 B/1, A/4
File Name	PROP_MAP

1 0 1 2 3km

SCALE 1 : 100,000

Figure 2

TABLE 2

CLAIM STATUS - PREMIER PROPERTY

Claim	Lot No.	Tenure No.	Claim Type	Hectares (H) Units (U)	Expiry Date
Cascade Falls #5	L272		CG	16.29 (H)	1994/07/01
Cascade Falls #4	L3590		CG	12.95 (H)	1994/07/01
Cascade Falls #8	L3591		CG	17.00 (H)	1994/07/01
Simpson	L3592		CG	12.55 (H)	1994/07/01
Essington	L3593		CG	19.04 (H)	1994/07/01
Pat Fr.	L3594		CG	9.23 (H)	1994/07/01
Dally	L3595		CG	20.90 (H)	1994/07/01
Pictou	L3596		CG	20.89 (H)	1994/07/01
Rupert	L3597		CG	20.12 (H)	1994/07/01
Cascade Forks #1	L3603		CG	18.98 (H)	1994/07/01
Cascade Forks #2	L3604		CG	11.39 (H)	1994/07/01
Cascade Forks #3	L3605		CG	12.75 (H)	1994/07/01
Cascade Forks #4	L3606		CG	8.09 (H)	1994/07/01
Cascade Forks #5	L3607		CG	12.26 (H)	1994/07/01
Cascade Forks #6	L3608		CG	15.66 (H)	1994/07/01
Wood Fr.	L3609		CG	2.27 (H)	1994/07/01
Forks	L3610		CG	15.70 (H)	1994/07/01
Trites	L3611		CG	12.18 (H)	1994/07/01
Premier Extension #1	L3688		CG	15.75 (H)	1994/07/01
Premier Extension #2	L3689		CG	9.83 (H)	1994/07/01
Premier Extension #3	L3690		CG	18.41 (H)	1994/07/01
Premier Extension #4	L3691		CG	20.81 (H)	1994/07/01
Extension Fr.	L3692		CG	11.19 (H)	1994/07/01
True Blue	L3693		CG	2.71 (H)	1994/07/01
Lesley M	L3838		CG	20.90 (H)	1994/07/01
Lesley	L3839		CG	20.90 (H)	1994/07/01
Limit	L3840		CG	20.90 (H)	1994/07/01
Climax	L3841		CG	20.63 (H)	1994/07/01
Bell	L3842		CG	16.38 (H)	1994/07/01
Lesley #2	L3843		CG	20.46 (H)	1994/07/01
Lesley #4	L3844		CG	11.53 (H)	1994/07/01
Lesley #3	L3845		CG	16.68 (H)	1994/07/01
Lesley #5	L3846		CG	15.86 (H)	1994/07/01
Lesley #6	L3847		CG	20.82 (H)	1994/07/01
Lesley Fr.	L3848		CG	12.74 (H)	1994/07/01
Bell #2	L3849		CG	16.28 (H)	1994/07/01
Mahood	L3850		CG	12.91 (H)	1994/07/01
Ten Fraction	L3851		CG	16.44 (H)	1994/07/01
Ax Fr.	L3852		CG	2.65 (H)	1994/07/01
International	L3930		CG	20.29 (H)	1994/07/01
Wood Fraction	L3931		CG	6.84 (H)	1994/07/01
Gun Fr.	L4016		CG	8.28 (H)	1994/07/01
Hooligan	L4019		CG	20.85 (H)	1994/07/01
Oakwood	L4020		CG	2.97 (H)	1994/07/01
Oakville Fr.	L4021		CG	4.81 (H)	1994/07/01
Oakville #2 Fr.	L4022		CG	8.06 (H)	1994/07/01
Northern Light #2	L4047		CG	19.90 (H)	1994/07/01
Northern Light #1 Fr.	L4048		CG	3.77 (H)	1994/07/01
Northern Light #3	L4049		CG	12.12 (H)	1994/07/01

CG = Crown grant; MC = mineral claim; ML = mining lease.

TABLE 2
(Continued)

CLAIM STATUS - PREMIER PROPERTY

Claim	Lot No.	Tenure No.	Claim Type	Hectares (H) Units (U)	Expiry Date
Northern Light #4	L4050		CG	18.12 (H)	1994/07/01
Northern Light #5	L4051		CG	14.12 (H)	1994/07/01
Northern Light #6	L4052		CG	11.99 (H)	1994/07/01
Northern Light #7	L4055		CG	15.27 (H)	1994/07/01
Loser	L4056		CG	14.04 (H)	1994/07/01
Northern Light Fr.	L4057		CG	8.49 (H)	1994/07/01
Northern Light #1	L4058		CG	13.40 (H)	1994/07/01
Northern Light #8	L4063		CG	1.80 (H)	1994/07/01
Texada	L4133		CG	8.92 (H)	1994/07/01
Texada Fr.	L4134		CG	12.63 (H)	1994/07/01
Dixie	L4135		CG	3.57 (H)	1994/07/01
Humbolt #2 Fr.	L4136		CG	7.27 (H)	1994/07/01
Humbolt Fr.	L4137		CG	13.22 (H)	1994/07/01
Paul	L4138		CG	14.48 (H)	1994/07/01
Joe Fr.	L4139		CG	18.92 (H)	1994/07/01
Bluox	L4140		CG	20.90 (H)	1994/07/01
Mountain	L4141		CG	20.90 (H)	1994/07/01
Grandview	L4142		CG	11.76 (H)	1994/07/01
Rincon	L4143		CG	10.68 (H)	1994/07/01
U and I	L4144		CG	20.34 (H)	1994/07/01
Simcoe	L4145		CG	9.95 (H)	1994/07/01
Halton	L4146		CG	13.48 (H)	1994/07/01
Bush Fraction	L4147		CG	13.40 (H)	1994/07/01
Neill Fraction	L4148		CG	14.46 (H)	1994/07/01
Mist #1	L4149		CG	20.77 (H)	1994/07/01
Mist #2	L4150		CG	10.66 (H)	1994/07/01
Mist Fr.	L4151		CG	20.83 (H)	1994/07/01
Premier Fr.	L4279		CG	0.39 (H)	1994/07/01
B X 1	L4427		CG	20.90 (H)	1994/07/01
B X 2	L4428		CG	20.87 (H)	1994/07/01
B X 3	L4429		CG	20.90 (H)	1994/07/01
B X 4 Fr.	L4430		CG	17.98 (H)	1994/07/01
B X 5 Fr.	L4431		CG	13.07 (H)	1994/07/01
B X 6 Fr.	L4432		CG	17.69 (H)	1994/07/01
B X 7 Fr.	L4433		CG	14.74 (H)	1994/07/01
B X 8 Fr.	L4434		CG	19.06 (H)	1994/07/01
Northern Light #9 Fr.	L4454		CG	1.77 (H)	1994/07/01
Pit Fr.	L4767		CG	0.04 (H)	1994/07/01
Melissa		251120	MC	3.00 (U)	2002/06/29
Mag Fr.		251121	MC	1.00 (U)	2002/06/29
Mush Fr.		251122	MC	1.00 (U)	2002/06/29
Mining Lease No. 447		302115	ML	0.69 (H)	1993/12/17

CG = Crown grant; MC = mineral claim; ML = mining lease.

According to detailed mapping by Payne (1992) the area north of Lesley Creek is underlain mainly by extensive dacitic flows and tuffs (Figure 3). Immediately beneath these rocks is a distinctive fragmental unit comprised of cobble-sized fragments of andesite, dacite and exotic rock types that show various degrees of rounding and sorting. This unit probably represents a debris flow and/or fanglomerate. Below the fragmental unit is a sequence of andesitic tuffs and flows which start out as weakly heterolithic lapilli tuffs but give way to monolithic massive andesite flows. The andesitic part of the sequence is only exposed near the Bush workings in the bottom of Lesley Creek valley. Only the upper portion of the andesite sequence crops out. Measured strikes and dips as well as map patterns of distinctive sub-units indicate these units strike approximately north-south (true) and dip 30° to 45° west. (This is in direct conflict to Alldrick's mapping which indicates steep easterly dips.)

Further north along the Big Missouri Road a large east-west striking mass of K-feldspar megacrystic dacite porphyry which also contains quartz, plagioclase and amphibole phenocrysts in a fine-grained groundmass is exposed in road cuts. This porphyry is of the "Premier Porphyry" type and is interpreted to be intrusive because of its discordant map pattern. It has been traced for a strike length of at least 900 m and tapers towards the east. No indication of the dip was gained from surface mapping.

North of the porphyry body the geology appears to be significantly different. Andesitic units are prevalent, but they are heterolithic and in part porphyritic. These units are interpreted to represent a much deeper portion of the stratigraphy than units south of the porphyry body. Payne (1992) interprets that the porphyry was intruded along a growth fault or similar Jurassic-aged structure. This structure appears to mark the northern limit of a small volcanic sub-basin, the southern limit of which appears to coincide with a similar change in stratigraphy marked by a zone of "Premier Porphyry" intrusions along the trend of mineralization forming the northwest trending ore zones at Premier.

Within the sub-basin mineralization does not come to surface except at the southern end at the centre of the Premier mine. All of the discoveries of the Sebakwe, B.C. Silver and Northern Light orebodies were made beneath the unfavourable dacitic flow and tuff units by drifting and drilling. The goal of this project was to continue exploring the favourable stratigraphic interval and structures in the subsurface in an area which had never been tested previously.

8.0 1993 RESULTS

8.1 Diamond Drill Results

Diamond drilling was conducted using a skid-mounted Boyles 56A drill. Drilling took place on two 10 hour shifts. Total cost of the drilling including all direct contract costs, tractor, mobilization/demobilization, but excluding supervision, geology, assays and camp costs was $69.80 per metre.

All of the drilling recovered NQ core. Three holes were drilled from two sites. Locations and directions of the holes are included as Table 3.

Complete geological logs for the holes are included as Appendix B and complete analytical results are included as Appendix C. All core samples were analyzed for Au, Ag, Cu, Pb and Zn.

Cross-sections for the diamond drillholes are included as Figures 4 to 6.

8.1.1 Hole P93CH722

The first hole, Hole P93CH722 (herein after 93-722), was drilled from a runaway lane off the Big Missouri haul road (Figures 3 and 4). The uppermost part is comprised of sericite-pyrite altered dacitic rocks similar to those mapped on surface (Figure 3). Despite the large area of alteration on surface the drilling intersects only short intervals of this lithology suggesting that the surface exposure is a dip slope.

To a depth of 214.9 m the core is essentially all comprised of dacitic or dacitic-andesite tuffs and flows which are dominantly grey or greenish in colour. A few narrow zones of maroon-stained, but similar appearing, lithologies are present.

From 214.9 to 268.1 m a prominent maroon and green fragmental unit with cobble-sized clasts was intersected. This unit is locally bedded and clasts show signs of rounding. It is similar to the unit exposed near the Bush workings (Figure 3).

From 268.1 m to 381.7 m the hole intersected a zone of faulting and dyking which are correlated with the down dip extension of the East Slate Mountain Fault mapped on surface.

TABLE 3
DIAMOND DRILLHOLE LOCATIONS

LESLEY FLATS 1993 DRILLING

HOLE	NORTHING (IN PREMIER MINE GRID COORD. ESTIMATED FROM TOPO MAPS)	EASTING	ELEVATION	COLLAR AZIMUTH TRUE NORTH	COLLAR DIP	COLLAR LENGTH (m)	SPERRY SUN DEPTH (m)	SPERRY SUN AZIMUTH TRUE NORTH	SPERRY SUN DIP
P93CH722	103696	100980	623	84.0	-58.0	562.7			
							75.0	88.5	-58.0
							245.7	98.5	-59.0
							440.7	107.5	-59.5
							562.7	110.5	-59.5
P93CH723	103532	101162	600	91.5	-49.0	492.6			
							185.3	93.5	-52.0
							245.7	92.5	-53.0
							318.8	96.5	-53.0
							431.6	(90.5)	-53.0
							492.6	110.5	-54.0
P93CH724	103696	100977	623	36.0	-50.0	696.8			
							75.0	37.5	-48.5
							151.2	39.5	-48.0
							260.9	41.0	-49.0
							396.2	45.5	-49.0
							459.0	46.5	-49.0
							565.7	54.5	-49.0
							696.8	60.5	-49.0

NOTE: BRACKETS INDICATE DATA NOT USED DEEMED TO BE UNRELIABLE.
NOTE: HOLE LOCATIONS ESTIMATED NOT SURVEYED. ACCURATE TO +/- 10 m.

Beneath the fault zone the hole enters monolithic andesitic units of the favourable stratigraphic unit. From 418.2 to 434.8 m this unit hosts 16 veins of 1 to 60 cm that contain quartz-iron carbonate-sphalerite-galena. Several samples from this interval are anomalous with the best sample containing 411 ppb Au, 48 ppm Ag, 53 ppm Cu, 32,000 ppm Pb and 29,300 ppm Zn over a core length of 55 cm.

The favourable andesite unit continues to 511.1 m with several other zones of weaker alteration and mineralization noted in the log.

From 511.1 m to the end of the hole at 562.7 m the core comprises weakly heterolithic andesite fragmental rocks which are dominantly green but contain some maroon clasts and matrix.

8.1.2 Hole P93CH723

Hole 92-723 was drilled parallel to 93-722 about 230 m south of 93-722 and approximately 200 m northwest of the most northerly stope in the Sebakwe sector.

The upper part of this hole is similar to 93-722 being comprised of dacitic flows and tuffs. At 265.2 to 291.6 m the hole intersected a coarse-grained epiclastic unit similar to 93-722, but generally with better rounding, sorting and a more bedded appearance. This unit is correlated with the unit in 93-722, but is inferred to be more distal to the source due to the somewhat more mature sedimentary characteristics. Bedding to core axis angles in both Holes 93-722 and 93-723 and the depths of the contacts are consistent with a 30° to 40° westerly dip inferred from the surface mapping.

Directly beneath the epiclastic unit are monolithic andesites of the targeted stratigraphy. From 357.9 to 383.4 m the hole crosses a fault zone comprising broken rock and andesitic dykes. Once again this is probably the East Slate Mountain Fault. Within the fault zone are several narrow zones of fine-grained silica-rich breccias which may represent inter-unit siliceous exhalite units. The zones contain minor amounts of pyrite and traces of sphalerite and galena. None of the samples of these zones contained anomalous Au or Ag concentrations.

Beneath the monolithic andesites the hole passes into heterolithic andesites at 446.9 m and remains in this unit to the end at 492.6 m. The heterolithic unit lacks maroon fragments and matrix but is otherwise similar to the unit at the bottom of 93-722.

8.1.3 Hole P93CH724

This hole is collared within a few metres of 93-722 but unlike the first two holes it was drilled towards the northeast instead of east. The hole targeted the intersection of the favourable andesite unit with the Premier Porphyry intrusion at depth approximately 200 m north of the mineralized veins in Hole 93-722.

From surface to 296.4 m the hole intersected dacitic tuffs and flows similar to the first two holes, whereupon it entered a zone of faulting that continued sporadically to 341.2 m. This is likely the East Slate Fault Zone. Beneath the fault from 363.3 to 396.4 m an epiclastic unit of purple and green cobble sized fragments of andesite and dacite is present.

From 396.4 to 444.9 m is a monolithic andesite unit with low alteration. Unlike the other two holes a second major epiclastic unit was intersected from 444.9 to 531.1 m. This unit is similar to the one uphole. No significant faults are present between the units suggesting that simple fault repetition is unlikely. It seems more likely the two epiclastic units represent different stratigraphic levels.

When the epiclastic units in the three holes were compared it seems that the epiclastic units thin, become better bedded and clasts are more rounded and better sorted from north to south. These features suggest the source region lies to the north towards the suspected North Fault now occupied by the "Premier Porphyry" intrusion.

Beneath the second epiclastic unit is a small amount of heterolithic andesite which grades downward into the targeted monolithic andesite unit. Within the monolithic andesites a well-developed quartz-K-feldspar breccia zone with trace amounts of pyrite-sphalerite-galena was intersected. Considerable quartz-iron carbonate-K-feldspar alteration is present in the andesite on both sides of this breccia.

From 612.1 to 620.6 m a K-feldspar megacrystic porphyry unit was encountered within the andesites. This unit has a fine-grained to aphanitic groundmass and is unlike the "Premier Porphyry" along the road. This unit is interpreted to represent a flow. The base of the monolithic andesites is reached at 675 m and from there to the end at 696.8 m the core comprises heterolithic andesites with minor amounts of maroon matrix and fragments.

The hole failed to intersect the targeted "Premier Porphyry" possibly in part because it turned easterly swinging away from the interpreted contact.

Several samples at and around the quartz-iron carbonate-K-feldspar breccia noted above were anomalous in Au.

The heterolithic andesites at the ends of all three holes are similar visually and were thus correlated; however, it was interesting to note that subsequent magnetic susceptibility metre measurements in all three holes showed that the basal heterolithic andesites are unique in that they consistently have SM-5 readings of 2.0 to 4.0 cgs units whereas all other units, except andesite dykes, have readings of 0.2 or less.

Anomalous results from the initial splitting of the core have been arbitrarily defined as Au >200 ppb and/or Ag >30 ppm (g/t) and all are compiled in Table 4.

8.2 Trace Element Results on Core Samples

An additional 102 samples of drill core from the three 1993 holes as well as Hole 81-22 drilled to test the down dip extension of the Northern Light system were collected for trace element analysis. Within the unfavourable portions of the stratigraphy samples were widely spaced, but within the favourable andesite units samples were collected at a spacing of 10 to 20 metres. The samples were analyzed by ICP for Ag, As, Bi, Cu, Hg, Mo, Pb, Sb and Zn. Gold was analyzed by fire-assay preconcentration with atomic absorption finish (Appendix D).

Bi was less than the detection limit of 2 ppm in all samples and Hg is less than 1 ppm except for one sample of 5 ppm. The remainder of the elements provide useful data. Maximum values for the other elements are Ag: 134.5 ppm, As: 126 ppm, Cu: 318 ppm, Mo: 9 ppm, Pb: >10,000 ppm, Sb: 22 ppm, Zn: >10,000 ppm and Au: 1,040 ppb.

Visual inspection of the data shows that anomalous values for all elements are restricted to the monolithic andesites with the overlying dacitic and underlying heterolithic andesites being uniformly low. This was hardly surprising as favourable alteration is restricted to the monolithic andesites. In order to better visualize and interpret the data a series of downhole plots of Au, Ag, As, Cu, Pb and Zn were made, one for each drillhole, in which the same X (distance downhole) and Y (element concentrations with same scale factors) scales were used for each plot (Figures 7, 8, 9, 10).

TABLE 4
ANOMALOUS ASSAY RESULTS FROM DRILLING

ANOMALOUS DEFINED AS GREATER THAN 200 PPB Au

from (m)	to (m)	interval (m)	sample no.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
P93CH722								
410.80	411.30	0.50	58801	274	7	14	790	560
418.20	419.40	1.20	58802	206	6	137	2380	1460
419.40	421.10	1.70	58803	480	12	55	10300	5100
425.50	427.00	1.50	58807	206	3	35	48	88
427.00	428.60	1.60	58808	206	8	10	51	100
431.30	431.85	0.55	58811	411	48	53	32000	29300
491.30	492.60	1.30	58814	206	6	28	80	131
492.60	493.70	1.10	58815	343	4	38	198	181
506.50	508.10	1.60	58818	343	5	38	680	220
P93CH723								
NONE								
P93CH724								
198.80	199.10	0.30	58831	274	22	3770	3670	610
323.80	324.80	1.00	58833	1851	15	270	5500	117
602.30	603.60	1.30	58834	206	6	25	370	340
603.60	604.50	0.90	58835	206	5	41	460	1530
604.50	605.30	0.80	58836	274	3	51	120	97
669.40	670.80	1.40	58841	343	4	5	20	123

Figure 7

Geochemical Traverse, Hole P93CH722

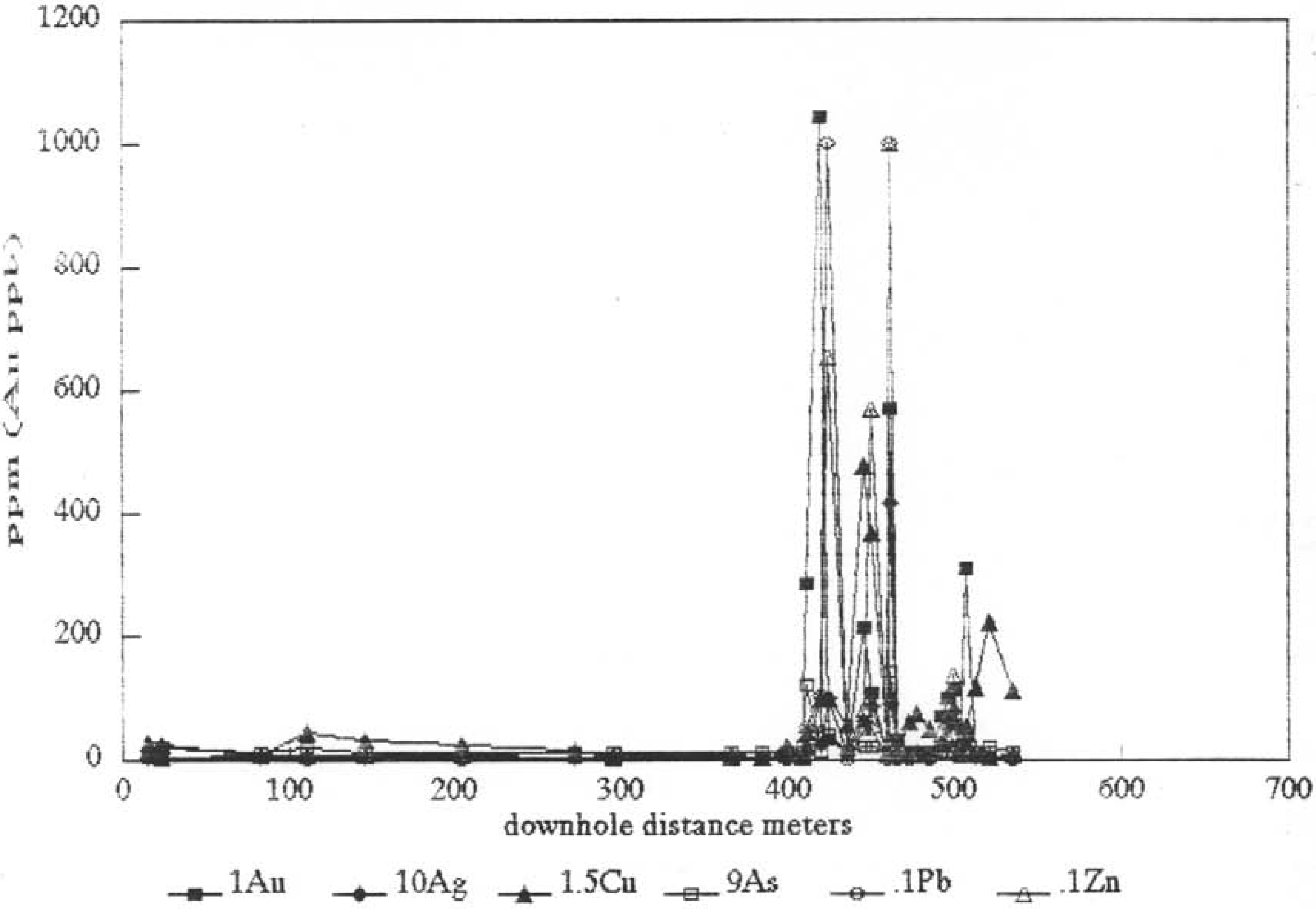


Figure 8

Geochemical Traverse, Hole P93CH723

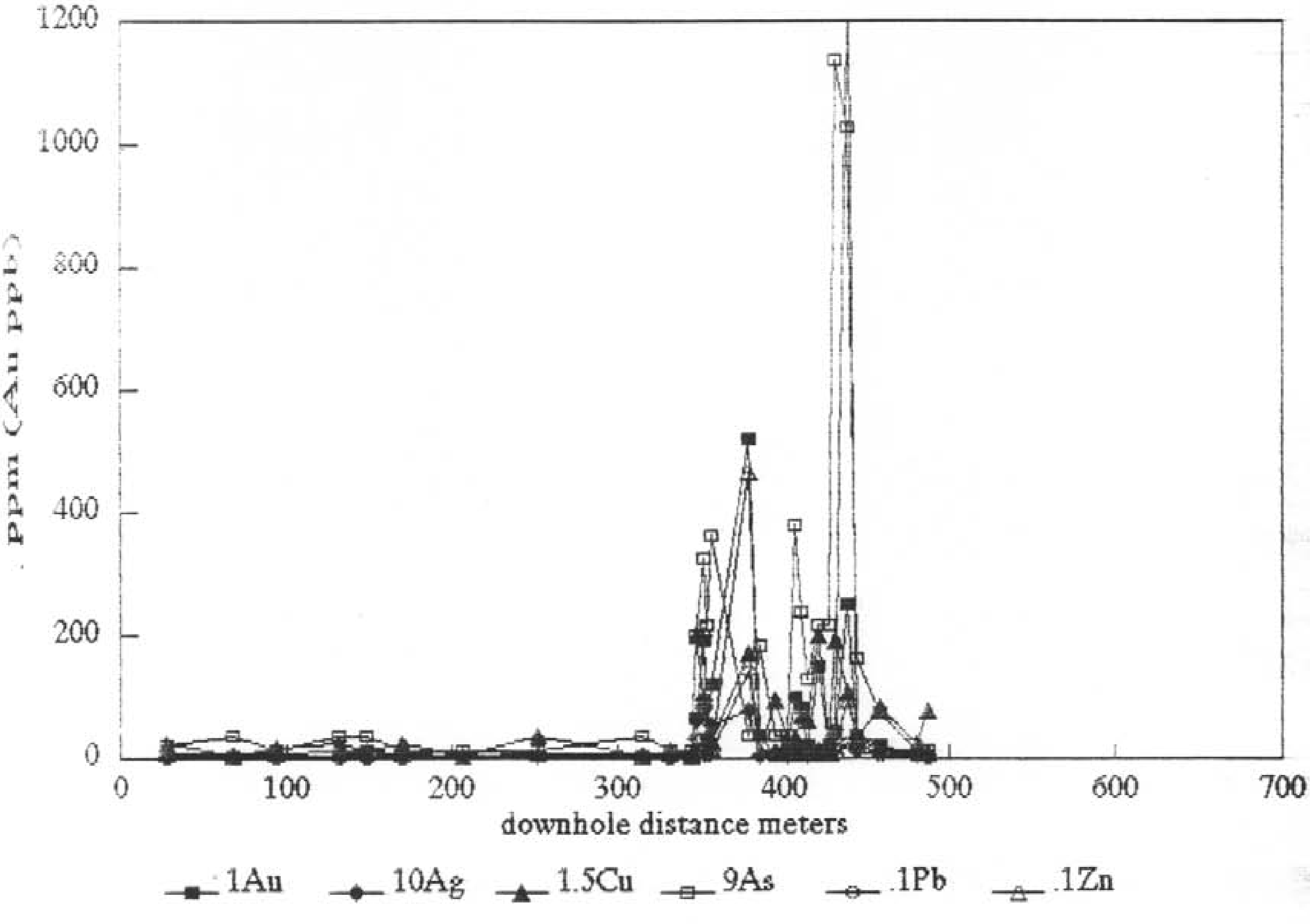


Figure 9

Geochemical Traverse, Hole P93CH724

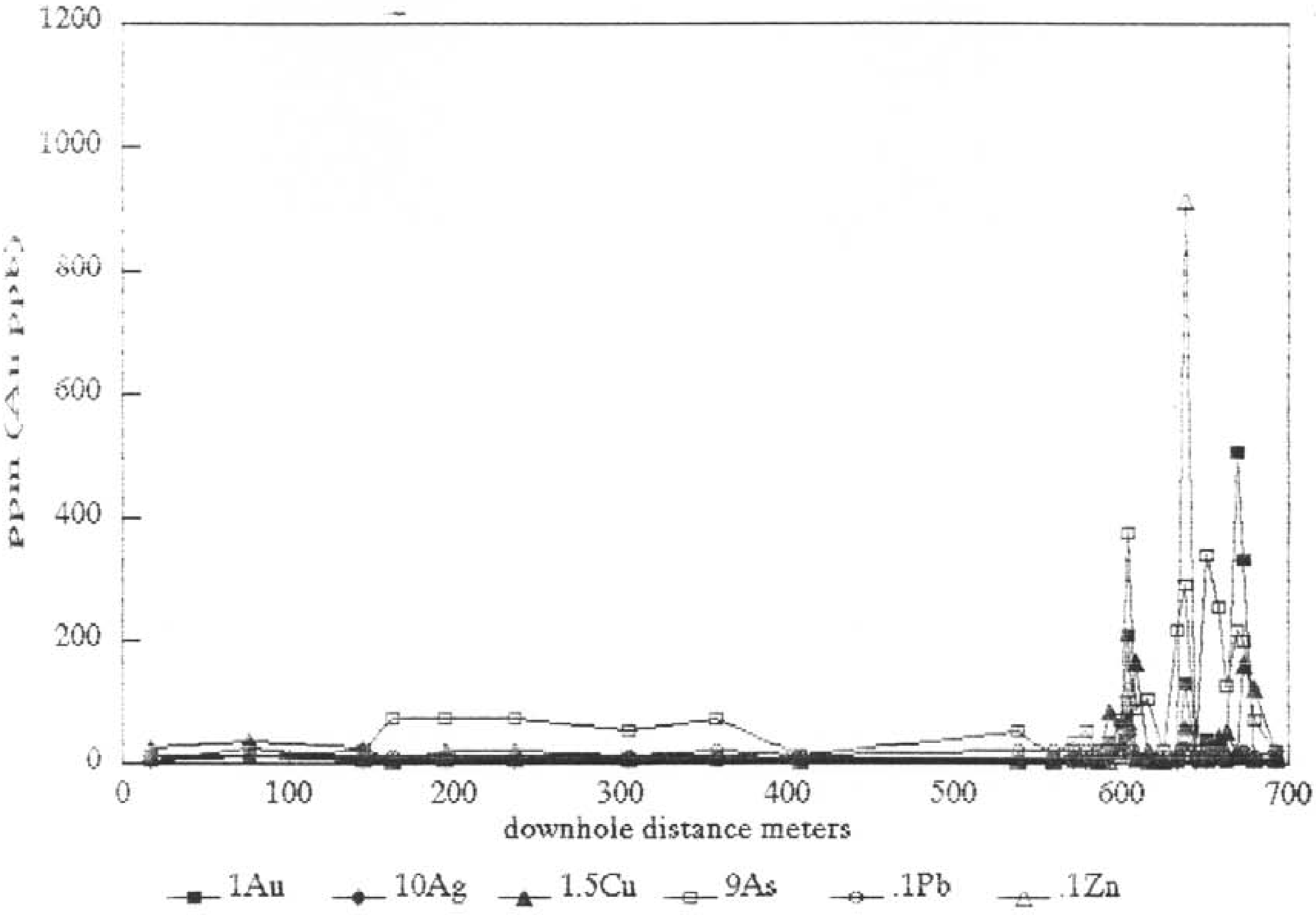
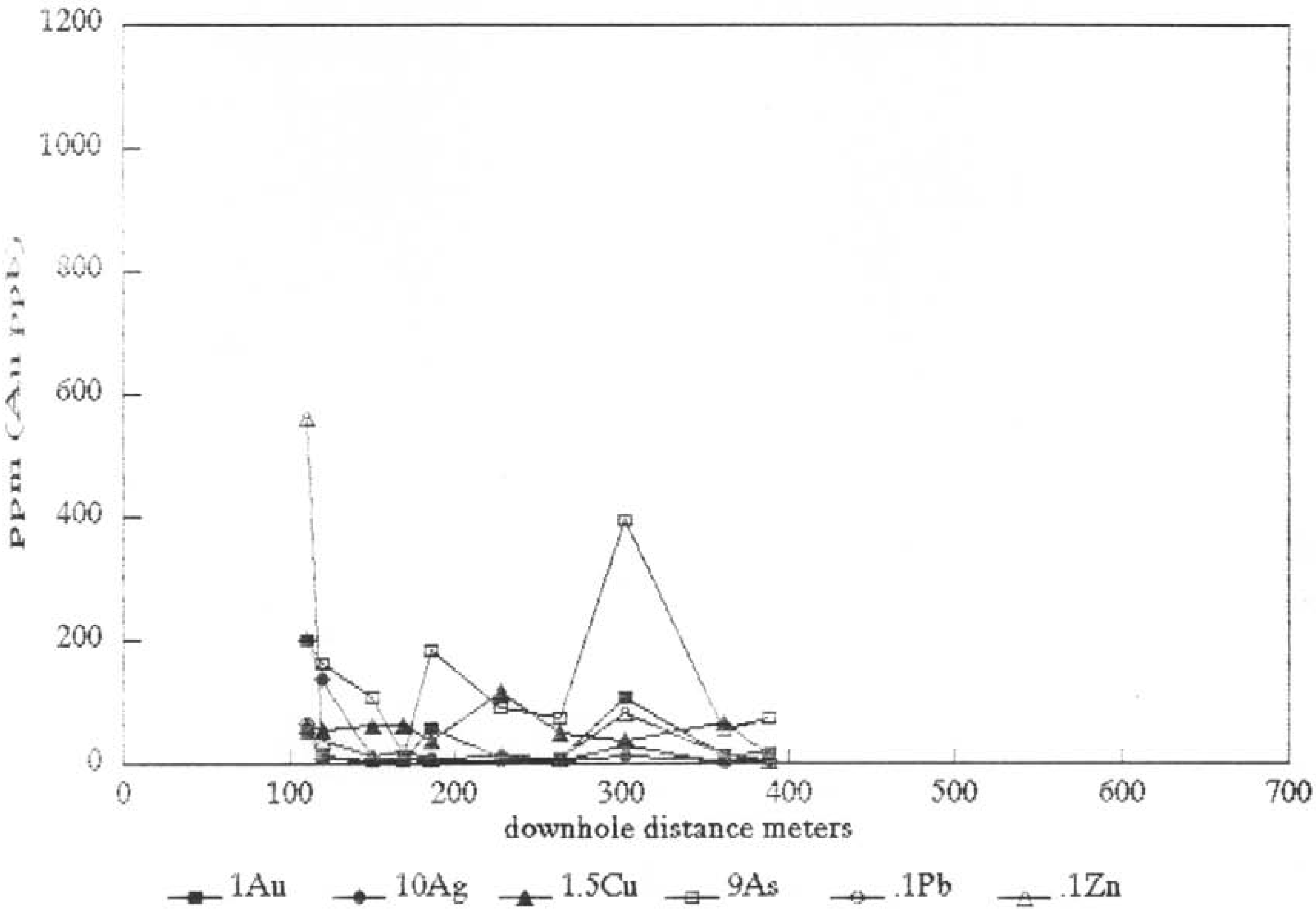


Figure 10

Geochemical Traverse, Hole P81CH22



From these downholes plots it is immediately apparent that Hole 81-22 is the weakest hole. Hole 93-722 has the strongest anomaly in terms of the absolute concentrations of individual elements, number of anomalous elements and consistency of anomalous values. Holes 93-723 and 93-724 lie somewhere in between the other two holes in terms of overall anomaly strength. Hole 93-723 has a stronger anomaly than expected and Hole 93-724 is probably weaker than expected (expectations are based upon the visual estimate of degree of alteration and mineralization).

8.3 Analytical Methods

All of the split/sawn drill core samples collected were prepared and analyzed at the Premier Gold Assay Laboratory under the direction of Rosa Craverio, senior assayer.

Core samples were oven dried, crushed in a jaw crusher to about -1/4", cone crushed to -1/8", then split using a riffle splitter, about 250 g are then pulverized in a stainless steel ring and puck pulverizer.

Au analyses were done on a one-half assay ton aliquot by standard fire assay techniques using lead collection, silver was parted and the remaining gold bead weighted gravimetrically.

A separate aliquot of the pulp was digested with acid and analyzed for Ag, Cu, Pb and Zn by atomic absorption.

The 102 samples sent to Chemex Labs, North Vancouver were similarly prepared and then analyzed for Ag, As, Bi, Cu, Hg, Mo, Pb, Sb and Zn by ICP trace element analysis and Au by fire assay/atomic absorption. Most of these samples were pieces of whole core of 20 to 40 cm in length, but a few of the samples were comprised of rejects where the core had already been split for analysis by the Premier lab. All of these samples were photographed with the photos being retained by Westmin in the Vancouver office.

These analyses were intended to provide data for the gold associated group of trace elements at low concentration limits to guide future drilling.

9.0 CONCLUSIONS

All three holes intersected the targeted andesite stratigraphy at close to the projected depths. In addition, all three holes had significant amounts of quartz-iron carbonate-K-feldspar alteration and at least minor amounts of sulphide mineralization. Hole 93-722 contained the best looking vein mineralization and both it and 93-724 had several samples with anomalous gold values.

These facts indicate that the geological model upon which the drilling was predicated is correct. A favourable setting for Premier-style mineralization has been confirmed in the subsurface north of Lesley Creek. The prospective area is in excess of 700 m from north to south and has a dip length of at least 400 m. Within this prospective area no holes other than the three holes drilled in 1993 have been drilled.

The trace element data indicate Hole 93-722 has the strongest overall geochemical anomaly and Hole 81-22 is by far the weakest. This data suggests that further drilling on either side of 93-722 may prove most fruitful.

10.0 RECOMMENDATIONS

Further drilling is warranted to test the prospective zone north of Lesley Creek. Comparison of the whole rock trace element data from these holes with existing data from Alldrick (1991), MacDonald (1989) and any other available sources should be done before the next round of drilling is initiated. This should help to determine whether holes should be targeted up dip or down dip in the alteration system.

The next phase of drilling should probably include three to five holes. At least one of the holes should be drilled in a northerly direction to test the porphyry intrusion contact with the favourable monolithic andesite stratigraphy.

11.0 REFERENCES

Alldrick, D.J. 1987. *Geology and Mineral Deposits of the Salmon River Valley, Stewart Area.* B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Survey Branch, Open File Map 1987-22.

Alldrick, D.J. 1985. *Stratigraphy and Petrology of the Stewart Mining Camp (104B/1).* B.C. Ministry of Energy, Mines and Petroleum Resources, Fieldwork 1984, Paper 1985-1, pp. 316-341.

Alldrick, D.J. 1991. Geology and Ore Deposits of the Stewart Mining Camp, British Columbia. Ph.D. thesis. University of British Columbia. 347 pp.

Grove, E.W. 1971. *Geology and Mineral Deposits of the Stewart Area, British Columbia.* B.C. Ministry of Energy, Mines and Petroleum Resources, Bulletin 58, p. 219.

MacDonald, Dean, 1989(?) Ph.D thesis on Premier on shelf in library.

Payne, J., 1992. Lesley Flats Surface Geology Project, Silbak Premier, British Columbia. Unpublished report prepared for Westmin Resources Limited.

12.0 STATEMENT OF QUALIFICATIONS

I, Paul G. Lhotka of 254 East 18th Street, North Vancouver, B.C., V7L 2X6, certify the following facts:

1. I hold a B.Sc. in Geology obtained from the University of Manitoba in 1981, and a Ph.D. in Geology obtained from the University of Alberta in 1988.

2. I am registered as a professional geologist with the Association of Professional Engineers and Geoscientists of the Province of British Colombia.

3. I am a member of the Canadian Institute of Mining and Metallurgy and an associate of the Geological Association of Canada.

4. I have practised my profession continuously for thirteen years working in Canada.

5. I have no direct financial interest in this property; however, I do own shares and have stock options in Westmin Resources Limited.

DATED this 29 day of September, 1993 at Vancouver, British Columbia.

PROFESSIONAL PROVINCE OF P. G. LHOTKA BRITISH COLUMBIA GEOSCIENTIST

Paul G. Lhotka, Ph.D., P.Geo.

APPENDIX A

FIELD PERSON DAYS

APPENDIX A

FIELD PERSON DAYS

Person	Company	Period	Number of Days
Paul G. Lhotka, project geologist	Westmin Resources Limited	June 4 to 23, 26 to 30; July 6, 7, 8	28
Terry Tucker, geologist	Westmin Resources Limited	June 21 to 24, 27 to 30; July 8	9
Jeanette Poirier, cook	Westmin Resources Limited	June 4 to 30	27
Matti, excavator operator	Westmin Resources Limited	June 5	1
John Drizmotta, excavator operator	Westmin Resources Limited	June 6	1
Dan Soucie, excavator operator	Soucie Construction Limited	June 10	1
Richard Green, driller	F. Boisvenu Drilling Ltd.	June 9 to 29	21
Gilles Falardeau, driller	F. Boisvenu Drilling Ltd.	June 9 to 29	21
Reg Pare, driller	F. Boisvenu Drilling Ltd.	June 9 to 30	22
Robert Wright, driller/foreman	F. Boisvenu Drilling Ltd.	June 9 to 30	22
Total field person days			**153**

APPENDIX B

DRILLHOLE GEOLOGICAL LOGS

DATE : 09-24-93
TIME : 15:40:33

WESTMIN RESOURCES LTD.

SILBAK PREMIER

HOLE/TRAVERSE ---------> P93CH722 GEOLOG VERSION : 6B0202

SURVEYED BY :	PGL	COLLAR ELEV. :	623 M	AZIMUTH(DEGREES) :	084	GEOLOGGED BY :	
TOTAL LENGTH :	562.70	NORTHING :	3696 M	VERTICAL ANGLE :	-58.0	DATE(Y/M/DY) :	93 06 11
CORE DIAMETER:	N	EASTING :	980 M	COORD SYSTEM :	GRID	TRAVERSE ATTRIB:	
DRILLED BY :	BOISVEN	HOLE STARTED :		HOLE ENDED :		DRILLING HOURS :	

SURVEY PT NUMBER	DEPTH METRES	AZIMUTH DEGREES	ANGLE DEGREES	NORTH COORD	EAST COORD	ELEVATION

6.30 12.30 Green Upper dacite Tuff — medium green , massive,, 1 % Quartz as Veins, 1 % Carbonate as Veins, 5 % Sericite pervasive, 0.1 % Pyrite as disseminations, gradational contact at trace as Dominant Alteration;

REMARK := 6.30 12.30 LOWER CONTACT INDISTINCT

12.30 17.50 Green Upper Dacite Flow — medium green , 1 % 1.0-2.0 mm Primary Quartz, 20 % 2.0-4.0 mm Primary P-Feldspar, massive,, 1 % Quartz as Veins, 1 % Carbonate as Veins, 5 % Sericite pervasive, 0.1 % Pyrite as disseminations, gradational contact at trace as Dominant Alteration;

REMARK := 12.30 17.50 FLOW CONTACTS INDISTINCT, CHILLING EXISTS OVER 10'S CM.

17.50 71.40 Green Upper Dacite Tuff (Sericitic) — grey green , 0.3 % Quartz as Veins, 5 % Carbonate pervasive, 30 % Sericite pervasive, 2.5 % Pyrite as disseminations, Weak Foliation at 80 Degrees to Core Axis; low as Dominant Alteration; very low Carbonate as Secondary Alteration;

REMARK := 17.50 71.40 BANDS OF GRAY SHEARED FOLIATED SERICITE-PYRITE ALTERATION

45.20 45.35 Fault Zone — 60 % GOUGE IN FAULT ZONE; Fault at 80 Degrees to Core Axis;

REMARK := 45.20 45.35 MINOR FAULT

50.50 50.65 ANDESITE DYKE — grey green , top Sharp Contact at 80 Degrees to Core Axis;

55.40 57.00 APLITE DYKE — grey green , amygdaloidal,, top Sharp Contact at 75 Degrees to Core Axis; bottom Sharp Contact at 45 Degrees to Core Axis;

REMARK := 55.40 57.00 FILLS FAULTED ZONE

58.80 58.90 Fault Zone — 50 % GOUGE IN FAULT ZONE; Fault at 70 Degrees to Core Axis;

60.90 61.10 APLITE DYKE — dark grey , top Sharp Contact at 70 Degrees to Core Axis;

71.40 80.30 Green Upper dacite Tuff light green , massive,, foliated,; 1 % Quartz as Veins,
2.5 % Carbonate as Veins, 5 % Sericite pervasive,
30 % hematitepervasive, Very Low Foliation at
77 Degrees to Core Axis; very low as Dominant Alteration;

REMARK := 71.40 80.30 LESS ALTERED, BROKEN THAN PREVIOUS UNIT. HINTS OF BEDDING

REMARK := 71.40 80.30 PARALLEL FOLIATION.

80.30 85.00 Maroon Upper Dacite Tuff dark mauve , massive,, foliated,; 1 % Carbonate as Veins,
30 % hematitepervasive, 0.3 % Pyrite as disseminations,
Very Low Foliation at 70 Degrees to Core Axis; gradational contact at
low Hematite as Dominant Alteration;

REMARK := 80.30 85.00 GRADATIONAL MAROON CONTACTS, SIMILAR LITHOLOGY

85.00 162.60 Green Upper dacite Tuff medium green , massive,, foliated,; 1 % Quartz as Veins,
1 % Carbonate as Veins, 5 % Sericite pervasive,
10 % Chlorite pervasive, 1 % hematitepervasive, Very Low Foliation at
60 Degrees to Core Axis; Very Low Foliation at
75 Degrees to Core Axis; trace as Dominant Alteration;

REMARK := 85.00 162.60 WEAK MAROON COLOR AROUND 97.5m. GREY CHERTY SILICEOUS

REMARK := 85.00 162.60 SEDIMENT BETWEEN UNITS AT 140.5, 141.0 AND 154.0 OF 10-20

REMARK := 85.00 162.60 CM. JASPER/SPEC. HEMATITE VEIN @ 122.1. LAST METER

REMARK := 85.00 162.60 OF UNIT IS A COARSE MORE ANDESITIC LOOKING BRECCIA.

107.40 107.41 Mineralized Veins foliated, 90 % Quartz as Veins, 2.5 % Chlorite as Veins,
5 % Pyrite as Veins, 5 % Chalcopyrite as Veins, Sharp Contact at
40 Degrees to Core Axis;

REMARK := 107.40 107.41 C AND S FABRIC WELL DEVELOPED. VEIN IS PARALLEL TO KINKS

REMARK := 107.40 107.41 IN FOLIATION.

118.40 121.70 APLITE DYKE dark grey , massive,, amygdaloidal,;
2.5 % Carbonate in amygdaloids or cavity fillings, top
Sharp Contact at 80 Degrees to Core Axis; bottom Sharp Contact at
70 Degrees to Core Axis; very low Carbonate as Dominant Alteration;

131.00 134.00 60 % Quartz-Chlorite-Carbonate Veins white , 80 % Quartz as Veins, 10 % Carbonate as Veins,

REMARK := 131.00 131.00 CARBONATES MAINLY FE-CARB.

162.60 191.90 Green Upper Dacite Flow medium green , 1 % 1.0-2.0 mm Primary Quartz,
20 % 2.0-4.0 mm Primary P-Feldspar, 2.5 % 2.0-4.0 mmAmphibole,
massive,, 0.01 % 8.0-16.0 mmK-spar phenocrysts, 1 % Quartz as Veins,
1 % Carbonate as Veins, 5 % Sericite pervasive, 0.3 % Pyrite as Veins,
bottom Sharp Contact at 45 Degrees to Core Axis;
trace as Dominant Alteration;

REMARK := 162.60 191.90 MEGACRYSTS MAY BE PLAG., VERY ALTERED. BOTTOM CONTACT

REMARK := 162.60 191.90 IS A 5 CM FAULT.

164.40 175.60 APLITE DYKE medium grey , Chilled Margins,, amygdaloidal,; 40 % broken core;
1 % Carbonate in amygdaloids or cavity fillings, top
Sharp Contact at 65 Degrees to Core Axis; bottom Sharp Contact at
15 Degrees to Core Axis;

REMARK := 164.40 175.60 MINOR AMOUNTS LOST CORE. HOLE STARTS TO MAKE WATER TO

REMARK := 164.40 175.60 SURFACE FROM THIS POINT. MULTIPLE INJECTION DYKE.

184.00 191.90 80 % Quartz-Chlorite-Carbonate Veins green white , 90 % Quartz as Veins, 5 % Carbonate as Veins,
5 % Chlorite as Veins,

REMARK := 184.00 191.90 DEFORMED VEIN PROBABLY IN MAJOR FAULT.

191.90 199.20 Maroon Upper Dacite Lapilli Tuff purple green , Brecciated,, massive,; 0.1 % Quartz as Veins,
2.5 % Carbonate pervasive, 5 % hematitepervasive,
very low Hematite as Dominant Alteration;

REMARK := 191.90 199.20 LOOKS SIMILAR TO BRECCIA @ 162M. FRAGMENTS FG DARK.

199.20 214.90 Green Upper dacite Tuff medium green , 2.5 % 2.0-4.0 mm Primary Quartz,
5 % 2.0-4.0 mm Primary P-Feldspar, 5 % 2.0-4.0 mmAmphibole,
massive,, 0.01 % 8.0-16.0 mmK-spar phenocrysts,
0.3 % Quartz as Veins, 10 % Carbonate pervasive,
5 % Sericite pervasive, 0.1 % Pyrite as disseminations,
Very Low Foliation at 80 Degrees to Core Axis; bottom
Sharp Contact at 90 Degrees to Core Axis;
very low Carbonate as Dominant Alteration;

REMARK := 199.20 214.90 CRYSTALS PROMINENT IN TUFF. LOWER CONTACT 2CM FAULT.

214.90 268.10 Maroon Upper Dacite Lapilli Tuff green purple , massive,, foliated,; SS- GL -PY, fragments;
0.3 % Quartz as Veins, 2.5 % Carbonate as Veins,
5 % Sericite pervasive, 40 % hematitepervasive,

Fairly Low Foliation at 65 Degrees to Core Axis; bottom
Sharp Contact at 50 Degrees to Core Axis;
fairly low Hematite as Dominant Alteration;

REMARK := 214.90 268.10 VERY PROMINET MAROON AND GREEN TUFF. WELL DEVELOPED

REMARK := 214.90 268.10 SANDSTONE BEDS @ 231.4 APPEAR TO

REMARK := 214.90 268.10 COARSEN UPHOLE. TUFF MATRIX-SUPPORTED. FRAGS SUB-ROUNDED.

REMARK := 214.90 268.10 LOWER CONTACT SHARP MINOR FAULT.

REMARK := 240.10 240.10 BEDDING @ 59 TO CORE AXIS

REMARK := 259.20 259.20 BEDDING @ 69

REMARK := 264.60 264.60 BEDDING @ 67

REMARK := 267.30 267.30 BEDDING @ 73

236.50 239.30 APLITE DYKE medium grey , amygdaloidal,, Chilled Margins,;
5 % Carbonate in amygdaloids or cavity fillings, top
Sharp Contact at 50 Degrees to Core Axis;
trace Carbonate as Dominant Alteration;

268.10 285.60 Green Upper Dacite Lapilli Tuff medium green , massive,, Brecciated,; 0.1 % Quartz as Veins,
2.5 % Carbonate pervasive, 5 % Sericite pervasive,
5 % Chlorite pervasive, 1 % Epidote as disseminations,
0.01 % Pyrite as disseminations, Very Low Foliation at
75 Degrees to Core Axis; lower gradational contact at
trace Chlorite as Dominant Alteration; trace as Secondary Alteration;

REMARK := 268.10 285.60 GREEN UNITS HAVE MORE ANGULAR LESS HETEROLITHIC FRAGS.

REMARK := 268.10 285.60 LESS REWORKING THAN MAROON UNITS. LITTLE OR NO BEDDING

279.60 280.80 ANDESITE DYKE medium green , Chilled Margins,, top Sharp Contact at
70 Degrees to Core Axis; bottom Sharp Contact at
30 Degrees to Core Axis;

285.60 316.90 Maroon Upper Dacite Tuff purple green , massive,, 0.1 % Quartz as Veins,
20 % Carbonate pervasive, 10 % Sericite pervasive,
20 % hematitepervasive, 0.1 % Pyrite as disseminations,
Very Low Foliation at 75 Degrees to Core Axis;

very low Hematite as Dominant Alteration;
very low Carbonate as Secondary Alteration;

REMARK := 285.60 316.90 FINER THAN PREVIOUS UNIT. NOT AS MAROON OR WELL BEDDED

REMARK := 285.60 316.90 AS FROM 214.9 268.1. LAST 2M HORNFELS. SM-5 TO 5.5

308.20 310.70 Fault Zone 10 % GOUGE IN FAULT ZONE; 20 % Carbonate pervasive,
40 % Chlorite pervasive, fairly low Argillic as Dominant Alteration;

REMARK := 308.20 310.70 MAJOR FAULT.

316.90 323.30 APLITE DYKE light dark to medium , Chilled Margins,, 40 % broken core;
20 % Clay pervasive, 20 % Carbonate pervasive, 10 % Sericite pervasive,
top Sharp Contact at 60 Degrees to Core Axis;
very low Carbonate as Dominant Alteration;
very low Argillic as Secondary Alteration;

REMARK := 316.90 323.30 SM-5 READINGS 1.0 - 2.0. INTRUDES A FAULT AND IS FAULTED

REMARK := 316.90 323.30 ITSELF.

323.30 352.40 ANDESITE TUFF light green , 1 % Quartz as Veins, 20 % Carbonate pervasive,
20 % Sericite pervasive, 30 % Chlorite pervasive,
0.3 % Pyrite as disseminations, low Argillic as Dominant Alteration;
very low Carbonate as Secondary Alteration;

REMARK := 323.30 352.40 BLEACHED AND BROKEN DUE TO FAULTING. DIFFICULT TO

REMARK := 323.30 352.40 DESCRIBE WELL.

********** KEY HORIZON ---------> TOP OF Fault Zone AT 308.20

********** KEY HORIZON ---------> BOTTOM OF Fault Zone AT 352.40

REMARK := 308.20 352.40 MAJOR FAULT ZONE IN PART FILLED BY DYKES. MUCH CRUSHED

DATE : 09-24-93
TIME : 15:40:50

WESTMIN RESOURCES LTD.

SILBAK PREMIER

HOLE/TRAVERSE ---------> P93CH723 GEOLOG VERSION : 6B0202

SURVEYED BY :	PGL	COLLAR ELEV. :	600.0 M	AZIMUTH(DEGREES)	: 091.5	GEOLOGGED BY :	
TOTAL LENGTH :	492.60	NORTHING :	3532.0 M	VERTICAL ANGLE	: -49.0	DATE(Y/M/DY) :	93 06 23
CORE DIAMETER:	NQ	EASTING :	1162.0 M	COORD SYSTEM	: GRID	TRAVERSE ATTRIB:	
DRILLED BY :	BOISVEN	HOLE STARTED :		HOLE ENDED	:	DRILLING HOURS :	

SURVEY PT NUMBER	DEPTH METRES	AZIMUTH DEGREES	ANGLE DEGREES	NORTH COORD METRES	EAST COORD METRES	ELEVATION METRES

1.80 9.90 Green Upper Dacite Tuff (Sericitic) grey green , foliated,, 2.5 % Quartz as Veins,
10 % Carbonate pervasive, 30 % Sericite pervasive,
2.5 % Pyrite as disseminations, Weak Foliation at
85 Degrees to Core Axis; low as Dominant Alteration;
very low Carbonate as Secondary Alteration;

REMARK := 1.80 9.90 SIMILAR TO UNIT NEAR TOP OF 93-722, FORMS DIPSLOPE.

9.90 65.80 Green Upper dacite Tuff medium green , 1 % 2.0-4.0 mm Primary Quartz,
2.5 % 2.0-4.0 mmAmphibole, massive,, 0.01 % Quartz as Veins,
1 % Carbonate as Veins, 10 % Sericite pervasive,
0.1 % Pyrite as disseminations, Very Low Foliation at
85 Degrees to Core Axis; trace as Dominant Alteration;

REMARK := 9.90 65.80 LARGER FRAGS POSSIBLY ARE PUMICE. NO OBVIOUS FLOWS. NO

REMARK := 9.90 65.80 BEDDING; CRYSTAL AND LITHIC FRACTIONS.

46.50 46.70 Fault Zone 5 % GOUGE IN FAULT ZONE; 30 % Clay pervasive, Fault at
70 Degrees to Core Axis;

REMARK := 46.50 46.70 MINOR FAULT

48.20 53.30 40 % ANDESITE DYKE dark grey , 30 % broken core; top Sharp Contact at
20 Degrees to Core Axis; bottom Sharp Contact at
10 Degrees to Core Axis;

55.50 58.70 ANDESITE DYKE dark grey , 30 % broken core; bottom Sharp Contact at
40 Degrees to Core Axis;

63.70 65.00 APLITE DYKE amygdaloidal,, 2.5 % Carbonate in amygdaloids or cavity fillings,
top Sharp Contact at 70 Degrees to Core Axis;

65.80 78.00 Maroon-Green Upper Dacite Tuff purple green , bedded,, massive,; 0.01 % Quartz as Veins,
20 % Carbonate pervasive, 10 % Sericite pervasive,

20 % hematitepervasive, Very Low Foliation at
82 Degrees to Core Axis; Bedding at 75 Degrees to Core Axis;
very low Hematite as Dominant Alteration;
very low Carbonate as Secondary Alteration;

REMARK := 65.80 78.00 RARE LARGER FRAGS IN FG WISPY HEMATITIC MATRIX. POORLY

REMARK := 65.80 78.00 BEDDED. BUT DEFINITE BEDS @ 73.4 & 75.4m. MAG SUSCPT DECREASING

REMARK := 65.80 78.00 DOWNHOLE UNRELATED TO DYKES.

68.90 71.00 ANDESITE DYKE medium grey , top Sharp Contact at 70 Degrees to Core Axis;
bottom Sharp Contact at 65 Degrees to Core Axis;

78.00 129.60 Green Upper dacite Tuff medium green , massive,, 0.3 % Quartz as Veins,
10 % Carbonate pervasive, 20 % Sericite pervasive,
10 % Chlorite pervasive, 0.3 % hematitepervasive,
0.3 % Pyrite as disseminations, Very Low Foliation at
85 Degrees to Core Axis; very low as Dominant Alteration;

REMARK := 78.00 129.60 FINER GRAINED THAN 9.9-65.8M. V. MASSIVE NO SIGN OF

REMARK := 78.00 129.60 BEDDING. SERICITE-PYRITE ALTERATION GENERALLY LOW EXCEPT

REMARK := 78.00 129.60 FOR A FEW NARROW ZONES.

129.6 158.90 Green Upper Dacite Lapilli Tuff medium green , 0.25-0.50 mm Fragments; massive,, foliated,;
0.1 % Quartz as Veins, 2.5 % Carbonate pervasive,
10 % Sericite pervasive, 5 % Chlorite pervasive,
0.3 % hematitepervasive, 0.3 % Pyrite as disseminations,
Weak Foliation at 60 Degrees to Core Axis; Very Low Foliation at
80 Degrees to Core Axis; trace as Dominant Alteration;

REMARK := 129.6 158.90 MUCH COARSER ESP. @ START. FOLIATION STEEPENS DOWNHOLE

REMARK := 129.6 158.90 FRAGS GREEN/MAROON ANDESITES MOSTLY APHYRIC. CONTACT

REMARK := 129.6 158.90 WITH NEXT UNIT DOWNHOLE OBSCURED BY FAULT.

147.3 149.6 SAME AS 129.6 158.90 purple green , massive,, bedded,; Very Low Foliation at
85 Degrees to Core Axis; Bedding at 70 Degrees to Core Axis;

REMARK := 147.3 149.6 IN PART BEDDED W. MAROON MATRIX.

158.90 162.70 Fault Zone foliated,, 30 % broken core; 30 % Clay pervasive, Fairly Low Foliation at 70 Degrees to Core Axis;

REMARK := 158.90 162.70 MAJOR FAULT LOST 0.3m CORE 157.3-160.3; 160.3-162.7

REMARK := 158.90 162.70 MAIN FAULT @ 162.0m. AT LEAST SOME OF THE ROCK IS FROM

REMARK := 158.90 162.70 THE PREVIOUS UNIT.

157.30 160.20 40 % Quartz-Chlorite-Carbonate Veins 20 % broken core; 0.3 % Chalcopyrite as disseminations,

162.70 164.90 Maroon Upper Dacite Tuff green purple , massive,, 20 % hematiteis massive,
Very Low Foliation at 60 Degrees to Core Axis;
very low veins at as Dominant Alteration;

REMARK := 162.70 164.90 DUST TUFF, DISTINCTIVE.

164.90 209.40 Maroon Upper Dacite Tuff green purple , massive,, 30 % Carbonate pervasive,
20 % hematiteis massive, 0.1 % Pyrite as disseminations,
Faint Foliation at 85 Degrees to Core Axis;
low Carbonate as Dominant Alteration;
very low veins at as Secondary Alteration;

REMARK := 164.90 209.40 SUBEQUAL MAROON AND GREEN PORTIONS. V. MASSIVE LIKE A

REMARK := 164.90 209.40 FLOW, BUT V. GRAINY W. LITHIC FRAGS. SUBTLE COMP. AND

REMARK := 164.90 209.40 GRAIN SIZE CHANGES. MAY CORRELATE WITH PAYNE'S FLOW 8afm?

201.60 202.60 APLITE DYKE green grey , 30 % Carbonate pervasive, top Sharp Contact at
65 Degrees to Core Axis; low Carbonate as Dominant Alteration;

209.40 265.20 Green Upper dacite Tuff purple green , massive,, 0.1 % Quartz as Veins,
20 % Carbonate pervasive, 10 % Sericite pervasive,
20 % hematiteis massive, 0.1 % Pyrite as disseminations,
Faint Foliation at 80 Degrees to Core Axis;
very low Carbonate as Dominant Alteration;
very low veins at as Secondary Alteration;

REMARK := 209.40 265.20 GREEN (AND MAROON) TUFFS FINER MATRIX THAN ABOVE, MORE

REMARK := 209.40 265.20 VARIABLE. WHAT LOOK LIKE PLAG PHENOS ACTUALLY ARE FELSIC

REMARK := 209.40 265.20 SHARDS.

265.20 291.60 Maroon Upper Dacite Lapilli Tuff dark purple , bedded,, 50 % hematitepervasive, Bedding at
65 Degrees to Core Axis; Bedding at 50 Degrees to Core Axis;

moderate veins at as Dominant Alteration;

REMARK := 265.20 291.60 SIMILAR TO, BUT COARSER THAN 93-722 @ 214.9-268.1m. WELL

REMARK := 265.20 291.60 DEVELOPED ROUNDED SAND AND PEBBLE BEDS. RARE CLASTS OF

REMARK := 265.20 291.60 TRUE RHYOLITE TO 10CM DIA. MOST CLASTS HEMATIZED ANDESITE.

REMARK := 265.20 291.60 BEDDING @ SEVERAL LOC. 50-90 TO CORE AXIS.

REMARK := 265.20 291.60 MORE CLASTIC DISTAL? THAN 93-722, NO INTERNAL GREEN BEDS.

291.60 334.80 Andesite Lapilli Tuff medium green , Brecciated,, massive,; 0.3 % Quartz as Veins,
20 % Carbonate pervasive, 20 % Sericite pervasive,
10 % Chlorite pervasive, 0.3 % hematitepervasive,
0.1 % Pyrite as disseminations, Very Low Foliation at
80 Degrees to Core Axis; very low as Dominant Alteration;
very low Carbonate as Secondary Alteration;

REMARK := 291.60 334.80 ALL OBVIOUSLY FRAGMENTAL. SLIGHTLY HETEROLITHIC ANDESITES.

REMARK := 291.60 334.80 MORE MAFIC THAN PREVIOUS UNITS. SOME HEMATITIC MATRIX. NO K-SPAR

296.60 298.40 APLITE DYKE tan green , 20 % broken core; 30 % Clay pervasive,
20 % Carbonate pervasive, top Sharp Contact at
40 Degrees to Core Axis; bottom Sharp Contact at
80 Degrees to Core Axis;

REMARK := 296.60 298.40 BLEACHED ALTERED, ASSOCIATED WITH FAULT. ABUNDANT FE-CARB.

304.20 304.80 ANDESITE DYKE medium green ,

334.80 340.20 Fault Zone grey green , 40 % broken core; 30 % Clay pervasive,
20 % Carbonate pervasive, Fault at 55 Degrees to Core Axis;

REMARK := 334.80 340.20 ABOUT 85% CORE RECOVERY. ROCK IS UNIDENTIFIABLE ANDESITE.

340.20 351.40 ANDESITE, UNDIFFERENTIATE medium grey , massive,, homogeneous,; 0.1 % Quartz as Veins,
10 % Carbonate pervasive, 20 % Sericite pervasive,
1 % hematiteis massive, 0.1 % Pyrite as disseminations,
very low as Dominant Alteration;
trace Carbonate as Secondary Alteration;

REMARK := 340.20 351.40 FLOW/TUFF ? VERY MASSIVE.

346.20 346.80 ANDESITE DYKE grey green , top Sharp Contact at 85 Degrees to Core Axis;

bottom Sharp Contact at 80 Degrees to Core Axis;

351.40 357.90 Andesite (Silicified) light to medium grey , massive,, Brecciated,;
20 % Quartz occurs as perv. dissem. = to veins,selvages and envelopes,
5 % Carbonate pervasive, 20 % Sericite pervasive,
2.5 % Pyrite as disseminations, 0.1 % Sphalerite as disseminations,
low Silicification as Dominant Alteration; low as Secondary Alteration;

REMARK := 351.40 357.90 ALTERED UNIT (POSSIBLE SERIES OF CHERTY TUFFS) WITH EARLY

REMARK := 351.40 357.90 GREY MOTTLED SILICA. PY MUCH MORE ABUNDANT. POSSIBLE GREY

REMARK := 351.40 357.90 METALLIC SPH. IN PART FRAGMENTAL? NO K-SPAR OR FE-CARB.

********** KEY HORIZON ---------> TOP OF Fault Zone AT 357.90

********** KEY HORIZON ---------> BOTTOM OF Fault Zone AT 386.00

357.90 383.40 Andesite Lapilli Tuff medium grey , Brecciated,, massive,; 20 % broken core;
30 % Sericite pervasive, 1 % Pyrite as disseminations,
low as Dominant Alteration;

REMARK := 357.90 383.40 SO BROKEN AND INTRUDED IT IS DIFICULT TO DESCRIBE. 1 GRAIN SPH

REMARK := 357.90 383.40 @ 379.2 K-SPAR INCR. DOWNHOLE STRONG @ 379.2m.

360.10 362.60 APLITE DYKE light to medium grey , amygdaloidal,, 30 % broken core;
20 % Clay pervasive,
20 % Carbonate occurs as perv. dissem. = to veins,selvages and envelopes,
top Sharp Contact at 40 Degrees to Core Axis;
very low Carbonate as Dominant Alteration;
very low Argillic as Secondary Alteration;

365.70 376.70 ANDESITE DYKE light to medium grey , 30 % broken core; 20 % Clay pervasive,
20 % Carbonate occurs as perv. dissem. = to veins,selvages and envelopes,
very low Carbonate as Dominant Alteration;
very low Argillic as Secondary Alteration;

380.40 383.40 ANDESITE DYKE light to medium grey , 30 % broken core; top Sharp Contact at
24 Degrees to Core Axis;

383.40 426.40 ANDESITE, UNDIFFERENTIATE medium grey , massive,, 0.1 % Quartz as Veins,
20 % Carbonate occurs as perv. dissem. = to veins,selvages and envelopes,
20 % K-Feldspar is massive, 10 % Sericite pervasive,
10 % Chlorite pervasive, 1 % Pyrite as disseminations,
0.01 % Galena as Veins, 0.01 % Sphalerite as Veins, Faint Foliation at

60 Degrees to Core Axis; bottom gradational contact at
very low Carbonate as Dominant Alteration;

REMARK := 383.40 426.40 LOWER CONTACT MORE RELATED TO ALTERATION THAN PRIMARY FEATURES?

REMARK := 383.40 426.40 IN PART FRAGMENTAL. TWO SMALL STRINGERS WITH SPH WERE SAMPLED

REMARK := 383.40 426.40 @ 415.1 AND 418.2m AS WELL AS EARLY PY CALCITE ZONE @ 405.7-

REMARK := 383.40 426.40 407.2, REMAINDER BARREN. FLOW/TUFF ? K-SPAR WITH VEINS INCRSNG

REMARK := 383.40 426.40 DOWNHOLE, SOME PRIMARY? FE-CARB ABSENT 387-416m THEN INCRSNG

390.20 391.50 ANDESITE DYKE medium grey , 20 % Carbonate pervasive, top Sharp Contact at
70 Degrees to Core Axis; bottom Sharp Contact at
70 Degrees to Core Axis;

415.50 417.30 ANDESITE DYKE medium grey , top Sharp Contact at 85 Degrees to Core Axis;
bottom Sharp Contact at 40 Degrees to Core Axis;

426.40 446.90 ANDESITE, UNDIFFERENTIATE medium grey , massive,, Brecciated,; 0.1 % Quartz as Veins,
30 % Carbonate as Veins > Diss,Env,& Perv, 30 % K-Feldspar is massive,
10 % Sericite pervasive, 5 % Chlorite pervasive,
1 % Pyrite as disseminations,
fairly low Carbonate as Dominant Alteration;

REMARK := 426.40 446.90 VERY ABUNDANT MID-STAGE FE-CARB. VEINLETS PARTLY OBSCURING ORIG.

REMARK := 426.40 446.90 TEXTURES. EARLY GREY SILICA VEINS. STRONG K-SPAR.

446.90 492.60 Latite Lapilli Tuff medium green , 0.25-0.50 mm Fragments; Brecciated,, massive,;
0.1 % Quartz as Veins, 30 % Carbonate Occur as Diss,Env,& Perv, >Veins,
20 % K-Feldspar is massive, 5 % Sericite pervasive,
5 % Chlorite pervasive, 0.3 % Pyrite as disseminations,
low Carbonate as Dominant Alteration;

REMARK := 446.90 492.60 HETEROLITHIC FRAGMENTAL WITH BLACKISH ARGILLACEOUS TUFF (?).
REMARK := 446.90 492.60 FRAGS. ANDESITE INCLUDING UNUSUAL BLACK FRAGS WITH CALCITE
REMARK := 446.90 492.60 AMYGDULES. NO MAROON FRAGS OR MATRIX. "MAROON EQUIVALENT" UNIT?
REMARK := 492.60 492.60 END OF HOLE. SOME K-SPAR PRIMARY?

REMARK := SUM 492.60 492.60 GEOLOGY OF HOLE V. SIMILAR TO EXPECTED IN TERMS OF LOCATIONS OF
REMARK := SUM 492.60 492.60 CONTACTS, MINERALIZATION AND MAJOR FAULT. UNFORTUNATELY
REMARK := SUM 492.60 492.60 MINERALIZATION IS WEAK AND LITTLE ALTERATION EXISTS.

DATE : 09-24-93
TIME : 15:41:11

WESTMIN RESOURCES LTD.

SILBAK PREMIER

HOLE/TRAVERSE ---------> P93CH724 GEOLOG VERSION : 6B0202

SURVEYED BY :	PGL	COLLAR ELEV. :	623.0 M	AZIMUTH(DEGREES)	: 036	GEOLOGGED BY :	
TOTAL LENGTH :	696.8	NORTHING :	3696.0 M	VERTICAL ANGLE	:-50.0	DATE(Y/M/DY) :	93 06 26
CORE DIAMETER:	NQ	EASTING :	977.0 M	COORD SYSTEM	: GRID	TRAVERSE ATTRIB:	
DRILLED BY :	BOISVEN	HOLE STARTED :		HOLE ENDED	:	DRILLING HOURS :	

SURVEY PT NUMBER	DEPTH METRES	AZIMUTH DEGREES	ANGLE DEGREES	NORTH COORD METRES	EAST COORD METRES	ELEVATION METRES

4.20 14.50 Green Upper dacite Tuff
10 % 2.0-4.0 mmAmphibole, massive,, 5 % Carbonate pervasive,
10 % Sericite pervasive, 0.1 % Pyrite as disseminations,
Very Low Foliation at 55 Degrees to Core Axis;
trace as Dominant Alteration;

REMARK := 4.20 14.50 COULD BE A FLOW OF DIFFERENT COMPOSITION TO NEXT UNIT.

14.50 56.80 Green Upper Dacite Flow (Serecitic) grey green , 1 % 1.0-2.0 mm Primary Quartz,
20 % 4.0-8.0 mm Primary P-Feldspar, massive,, foliated,;
10 % Carbonate pervasive, 20 % Sericite pervasive,
1 % Pyrite as disseminations, Weak Foliation at
51 Degrees to Core Axis; Very Low Foliation at
45 Degrees to Core Axis; very low as Dominant Alteration;

REMARK := 14.50 56.80 LARGE DISTINCTIVE PLAGIOCLASE PHENOCRYSTS. PATCHY SERICITE

REMARK := 14.50 56.80 PYRITE ALTERATION. LAST METER V. RICH IN SILICEOUS FRAGMENTS

21.40 22.20 Fault Zone
2.5 % GOUGE IN FAULT ZONE; 10 % Carbonate as Veins,
30 % Sericite pervasive, 2.5 % Pyrite as disseminations, Fault
70 Degrees to Core Axis;

56.80 159.30 Green Upper dacite Tuff
medium green , massive,, foliated,; 5 % Carbonate pervasive,
10 % Sericite pervasive, 0.3 % Pyrite as disseminations,
Very Low Foliation at 47 Degrees to Core Axis; Bedding at
30 Degrees to Core Axis; trace as Dominant Alteration;

REMARK := 56.80 159.30 BANDS OF INTENSE SHEARING SERICITE-PYRITE ALTERATION SEPERATED

REMARK := 56.80 159.30 OUT BELOW. POSSIBLE BEDDING @ 58.2m SUBTLE VARIATIONS IN PRIMARY

REMARK := 56.80 159.30 COMPOSITION AND TEXTURE.

62.50 64.50 APLITE DYKE light grey , amygdaloidal,,
5 % Carbonate in amygdaloids or cavity fillings, top
Sharp Contact at 60 Degrees to Core Axis;

65.80 65.90 ANDESITE DYKE light grey , top Sharp Contact at 80 Degrees to Core Axis;
bottom Sharp Contact at 80 Degrees to Core Axis;

65.30 72.00 0 % SAME AS 56.80 159.30 dark to medium grey , 100 % 8.0-16.0 mm Fragments; foliated,,
Brecciated,; 10 % Carbonate pervasive, 30 % Sericite pervasive,
2.5 % Pyrite as disseminations, Fairly Low Foliation at
43 Degrees to Core Axis; low as Dominant Alteration;

REMARK := 65.30 72.00 TUFFACEOUS MATERIAL SYNSEDIMENTARY ALTERATION? SILICEOUS FRAGS

REMARK := 65.30 72.00 @ 71.7m LOOK PRIMARY

74.10 77.30 0 % SAME AS 56.80 159.30 dark to medium grey , foliated,, massive,; 20 % Quartz pervasive,
10 % Carbonate pervasive, 30 % Sericite pervasive,
2.5 % Pyrite as disseminations, Fairly Low Foliation at
50 Degrees to Core Axis; low as Dominant Alteration;
very low Silicification as Secondary Alteration;

91.40 97.20 SAME AS 56.80 159.30 dark to medium grey , foliated,, massive,; 10 % Quartz pervasive,
10 % Carbonate pervasive, 30 % Sericite pervasive,
2.5 % Pyrite as disseminations, Fairly Low Foliation at
40 Degrees to Core Axis; Bedding at 40 Degrees to Core Axis;
low as Dominant Alteration;

REMARK := 91.40 97.20 @ 93.0m QTZ PEBBLES IN VFG SERICITE-PYRITE MATRIX. UNIQUE UNIT

REMARK := 91.40 97.20 WITH POSSIBLE BEDDING. SOME CROSSCUTTING VFG PYRITE VEINLETS

REMARK := 91.40 97.20 AS WELLAS EARLY FOLIATION PARALLEL PY.

102.30 102.40 ANDESITE DYKE Sharp Contact at 60 Degrees to Core Axis;

114.60 117.70 APLITE DYKE light grey , amygdaloidal,, 30 % broken core; 20 % Carbonate pervasive,

159.30 165.20 Maroon Upper Dacite Tuff medium purple , massive,, foliated,; 30 % Carbonate pervasive,
10 % Sericite pervasive, 30 % hematiteis massive, Weak Foliation at
35 Degrees to Core Axis;

REMARK := 159.30 165.20 FAIRLY PROMINENT MAROON COLOR TO MATRIX WITH WHITE ALTERED

REMARK := 159.30 165.20 PLAG.? GRAINS. CONTACTS OF COLORATION GRADATIONAL OVER A FEW CM.

165.20 222.80 Green Upper dacite Tuff medium green , massive,, foliated,; 10 % Carbonate pervasive,
10 % Sericite pervasive, 10 % Chlorite as Phenocryst Replacement,

0.1 % Pyrite as disseminations, Weak Foliation at
45 Degrees to Core Axis; very low as Dominant Alteration;
very low Chlorite as Secondary Alteration;

REMARK := 165.20 222.80 IN SOME PARTS NUMEROUS CHLORITIC SPOTS AFTER CRYSTALS OR FRAGS.

REMARK := 165.20 222.80 SUBTLE VARIATIONS IN COMPOSITION & TEXTURE.

167.70 170.40 ANDESITE DYKE 5 % 1.0-2.0 mm Primary P-Feldspar, 5 % 1.0-2.0 mmAmphibole, top
Sharp Contact at 70 Degrees to Core Axis; bottom Sharp Contact at
50 Degrees to Core Axis;

178.30 179.20 ANDESITE DYKE 5 % 1.0-2.0 mm Primary P-Feldspar, 5 % 1.0-2.0 mmAmphibole, top
Sharp Contact at 80 Degrees to Core Axis; bottom Sharp Contact at
45 Degrees to Core Axis;

188.50 192.30 60 % Quartz-Chlorite-Carbonate Veins 80 % Quartz as Veins, 10 % Carbonate as Veins, 10 % Chlorite as

198.80 200.10 60 % Quartz-Chlorite-Carbonate Veins 80 % Quartz as Veins, 10 % Carbonate as Veins, 10 % Chlorite as
1 % Chalcopyrite as Veins, 1 % Galena as Veins,

REMARK := 198.80 200.10 COARSE GRAINED INTERGROWN GAL AND CPY IN LATE VEIN IS UNUSUAL.

REMARK := 198.80 200.10 MINERALIZED VEIN IS SUB-PARALLEL TO CORE AXIS. SAMPLED.

209.10 213.70 70 % Quartz-Chlorite-Carbonate Veins 80 % Quartz as Veins, 10 % Carbonate as Veins, 10 % Chlorite as

REMARK := 209.10 213.70 SLIGHT INCREASE IN SHEARING ASSOCIATED WITH LATE VEINS IN ABOVE

REMARK := 209.10 213.70 NOTED ZONES.

222.80 232.00 Green Upper Dacite Lapilli Tuff medium green , massive,, 30 % Carbonate pervasive, top
Sharp Contact at 55 Degrees to Core Axis;

REMARK := 222.80 232.00 MUCH COARSER THAN PREVIOUS UNITS. TOP CONTACT RAZOR SHARP DEPOS-

REMARK := 222.80 232.00 ITIONAL CONTACT. GENERALLY ANDESITIC LOOKING FRAGS IN ANDESITIC

REMARK := 222.80 232.00 MATRIX, BUT HETEROLITHIC. SOME PARTS WITH MAROON MATRIX.

227.40 231.20 APLITE DYKE grey green , amygdaloidal,, 20 % broken core;

232.00 239.20 Green Upper Dacite Lapilli Tuff light green , massive,, Brecciated,; 10 % Carbonate pervasive,
10 % Sericite pervasive, 0.1 % Pyrite as disseminations,
Very Low Foliation at 55 Degrees to Core Axis;
very low Carbonate as Dominant Alteration;

REMARK := 232.00 239.20 FRAGMENT-PACKED UNUSUAL FELSIC APHANIC FRAGS AND CALCITE FRAGS

REMARK := 232.00 239.20 IN FELSIC AND CALCITE MATRIX. WORDS FAIL ME. NO IDEA WHAT IT

REMARK := 232.00 239.20 REPRESENTS.

239.20 278.30 Green Upper Dacite Lapilli Tuff medium green , Brecciated,, massive,; 0.01 % Quartz as Veins,
20 % Carbonate pervasive, 5 % Sericite pervasive,
20 % Chlorite pervasive, 5 % hematiteis massive,
0.01 % Pyrite as Veins, Very Low Foliation at
40 Degrees to Core Axis; very low Carbonate as Dominant Alteration;
very low Chlorite as Secondary Alteration;

REMARK := 239.20 278.30 RANGES FROM MONOLITHIC TO MODERATELY HETEROLITHIC. MAROON MATRIX

REMARK := 239.20 278.30 AND FRAGS GENERALLY IN SUB-UNIT BELOW. FRAGS SUB-ANG SUB-ROUND.

REMARK := 239.20 278.30 ANDESITIC COMPOSITION. @ 261.5 ABUNDANT VFG PY IN MATRIX.

253.30 260.90 SAME AS 239.20 278.30 purple green , 20 % hematitepervasive,
low Hematite as Dominant Alteration;

REMARK := 253.30 260.90 HEMATIZED MATRIX AND FRAGS.

278.30 298.10 Green Upper Dacite Lapilli Tuff purple green , 0.25-0.50 mm Fragments; massive,, Brecciated,;
0.1 % Quartz as Veins, 20 % Carbonate pervasive,
5 % Sericite pervasive, 20 % hematitepervasive,
0.01 % Pyrite as disseminations, Very Low Foliation at
45 Degrees to Core Axis; Bedding at 50 Degrees to Core Axis;
low Hematite as Dominant Alteration;
very low Carbonate as Secondary Alteration;

REMARK := 278.30 298.10 BEDDING UNCERTAIN. AFTER 293.0 TURNS GREEN THEN AFTER 295.0 IS

REMARK := 278.30 298.10 BLEACHED DUE TO FAULT. 1 cm WIDE QTZ-CAL VEINLET W. GAL-PY @ 70

REMARK := 278.30 298.10 TO CORE AXIS.

********** KEY HORIZON ---------> TOP OF Fault Zone AT 296.40

********** KEY HORIZON ---------> BOTTOM OF Fault Zone AT 302.30

REMARK := 296.40 302.30 BADLY BROKEN CORE, BLEACHING, GOUGE ON SLIPS@ 50 TO CORE AXIS.

REMARK := 296.40 302.30 LOST 1.0m COR FROM 297.4-300.5 AND 0.2m FROM 300.5 302.5.

REMARK := 296.40 302.30 LOTS Fe-CARB.

298.10 302.30 ANDESITE DYKE medium grey , 50 % broken core; 5 % Quartz as Veins,
20 % Carbonate pervasive, top Sharp Contact at
70 Degrees to Core Axis; bottom Sharp Contact at
65 Degrees to Core Axis;

REMARK := 298.10 302.30 GOUGE ON BOTTOM CONTACT.

302.30 336.40 Green Upper Dacite Lapilli Tuff medium green , 0.25-0.50 mm Fragments; Brecciated,, massive,;
0.1 % Quartz as Veins, 20 % Carbonate pervasive,
5 % Sericite pervasive, 5 % Chlorite pervasive,
0.01 % Pyrite as disseminations,

REMARK := 302.30 336.40 GENERALLY MONOLITHIC EXCEPT MAROON PARTS. MATRIX LIGHTER COLORED

REMARK := 302.30 336.40 THAN UNIT FROM 239.2-278.3 ELSE SIMILAR. QTZ-CAL-GAL-PY VEIN

REMARK := 302.30 336.40 OF 0.5cm 245 TO CORE. AT 323.8-324.8 BROKEN LOST 0.3m RECOVERED

REMARK := 302.30 336.40 CORE WITH SMALL VEINLETS AS ABOVE.

315.00 321.00 100% ANDESITE DYKE grey green , amygdaloidal,,
2.5 % Epidote in amygdaloids or cavity fillings, top
Sharp Contact at 70 Degrees to Core Axis; bottom Sharp Contact at
70 Degrees to Core Axis;

REMARK := 315.00 321.00 SEPTAE OF HOST ROCK FROM 318.6-319.4m.

329.50 336.40 50 % SAME AS 302.30 336.40

REMARK := 329.50 336.40 MIXED MAROON AND GREEN TUFF WITH WHITE CALCITE AFTER XTALS OR

REMARK := 329.50 336.40 FRAGS.

********** KEY HORIZON ---------> TOP OF Fault Zone AT 331.20

********** KEY HORIZON ---------> BOTTOM OF Fault Zone AT 341.20

REMARK := 331.20 341.20 MAJOR FAULT ZONE BADLY BROKEN CORE, MINOR GOUGE, LAST 0.9m

REMARK := 331.20 341.20 CALCITE-QTZ VEIN. MISLATCH IN FAULT. LOST 20cm 331.0-334.1; 60cm

REMARK := 331.20 341.20 334.1-337.1; LOST 80cm 337.1 340.2

336.40 341.20 ANDESITE DYKE light to medium grey , 50 % broken core;

341.20 350.10 (HYDER) GRANITE DYKE 20 % 2.0-4.0 mm Primary P-Feldspar, 2.5 % 2.0-4.0 mmAmphibole,
massive,, 10 % Quartz as Veins, 10 % Carbonate pervasive,
10 % Sericite pervasive, Very Low Foliation at
40 Degrees to Core Axis;

REMARK := 341.20 350.10 CUT BY LATE QTZ-CAL-CHL VEINS WHICH OBLITERATED LOWER CONTACT.

REMARK := 341.20 350.10 UPPER CONTACT FAULTED.

350.10 352.90 Quartz-Chlorite-Carbonate Veins 40 % Quartz as Veins, 50 % Carbonate as Veins, 10 % Chlorite as Veins,

REMARK := 350.10 352.90 70% LATE VEINS BARREN.

352.90 363.30 Green Upper Dacite Lapilli Tuff medium green , massive,, Brecciated,; 0.1 % Quartz as Veins,
20 % Carbonate pervasive, 5 % Sericite pervasive,
Very Low Foliation at 40 Degrees to Core Axis;
very low Carbonate as Dominant Alteration;

REMARK := 352.90 363.30 MINOR FAULT AT LOWER CONTACT. UPPER CONTACT OBSCURED BY VEINS.

355.40 356.50 ANDESITE DYKE light green , bottom Sharp Contact at 45 Degrees to Core Axis;

363.30 396.40 Maroon Upper Dacite Lapilli Tuff dark purple , massive,, bedded,; 0.01 % Quartz as Veins,
10 % Carbonate pervasive, 40 % hematiteis massive,
Very Low Foliation at 50 Degrees to Core Axis; Bedding at
50 Degrees to Core Axis; fairly low Hematite as Dominant Alteration;

REMARK := 363.30 396.40 EPICLASTIC UNIT WITH SUB-ROUND FRAGS AND HINTS OF BEDDING IN

REMARK := 363.30 396.40 SANDY PEBBLY SUBUNITS. LESS THAN 10% IS GREEN LAPILLI TUFF LESS

REMARK := 363.30 396.40 REWORKED. PROBABLE BEDDINGS 50 @ 371.4; 40 @ 384.4; 50 @ 388.8.

REMARK := 363.30 396.40 FRAGS RHYOLITE-ANDESITE IN COMPOSITION. MATCHES WELL WITH UNIT

REMARK := 363.30 396.40 IN PREVIOUS TWO HOLES.

385.90 386.70 ANDESITE DYKE medium green , top Sharp Contact at 70 Degrees to Core Axis;
bottom Sharp Contact at 70 Degrees to Core Axis;

396.40 401.70 Green Andesite Lapilli Tuff (s17H medium green , 0.25-0.50 mm Fragments; massive,, Brecciated,;
10 % Carbonate pervasive, 2.5 % hematiteis massive, bottom
gradational contact at trace Carbonate as Dominant Alteration;

REMARK := 396.40 401.70 VERY SIMILAR TO 352.9-363.3.

401.70 444.90 Andesite Flow medium green , 0.25-0.50 mm Fragments; massive,, Monolithic;
5 % Carbonate as Veins, 10 % Sericite pervasive,
10 % Chlorite pervasive, 0.01 % Pyrite as disseminations,
Very Low Foliation at 40 Degrees to Core Axis;
trace Chlorite as Dominant Alteration;

REMARK := 401.70 444.90 GENERALLY MASSIVE, RARE MONOLTHIC FRAGMENTAL. LOOKS LIKE UNIT 9

REMARK := 401.70 444.90 FLOW. PART OF UNIT 8 OR 9? SECOND EPICLASTIC UNIT BELOW

REMARK := 401.70 444.90 PROBLEMATIC.

403.80 405.70 ANDESITE DYKE

414.90 418.80 ANDESITE DYKE dark grey , 30 % Carbonate pervasive, bottom Sharp Contact at
55 Degrees to Core Axis; low Carbonate as Dominant Alteration;

REMARK := 414.90 418.80 1.5m OF HORNFELS INTO HOST ON LOWER CONTACT AND 0.7m ON UPPER.

434.00 434.80 ANDESITE DYKE amygdaloidal,,

433.10 444.10 0 % SAME AS 401.70 444.90 Brecciated,, 5 % broken core; 30 % Ankerite pervasive,
30 % Epidote pervasive,

REMARK := 433.10 444.10 BLEACHED AS IF NEAR A FAULT BUT ONLY MINOR BROKEN CORE. FRAG-

REMARK := 433.10 444.10 MENTAL TEXTURE EMPHASIZED BY BLEACHING? Fe-CARB. ABUNDANT.

444.90 531.10 Maroon Upper Dacite Lapilli Tuff dark purple , 0.25-0.50 mm Fragments; massive,, bedded,;
1 % Carbonate as Veins, 40 % hematitepervasive, Bedding at
45 Degrees to Core Axis; Very Low Foliation at
50 Degrees to Core Axis; fairly low Hematite as Dominant Alteration;

REMARK := 444.90 531.10 UNEXPECETD TO HIT ANOTHER PURPLE EPICLASTIC UNIT WITH NO FAULTS

REMARK := 444.90 531.10 IN BETWEEN. BEDDING @ 65 TO CORE AXIS @ 522m IN COARSE FINE SAND

REMARK := 444.90 531.10 L. CNTCT MINOR FAULT @ 55 TO CORE AXIS. 472-483m AVG MAG SUS 1.4

464.00 472.50 ANDESITE DYKE grey green , amygdaloidal,, 5 % broken core; 20 % Carbonate pervasive,
top Sharp Contact at 60 Degrees to Core Axis; bottom
Sharp Contact at 15 Degrees to Core Axis;

REMARK := 464.00 472.50 HORNFELSIC MARGINS.

REMARK := 465.50 473.10 W. BROKEN ZONE AROUND DIKE ENDS WITH SMALL FAULT @ 60 CORE AXIS.

483.00 502.50 0 % SAME AS 444.90 531.10

REMARK := 483.00 502.50 FINER WITH SMALLER PROPORTION OF COARSE FRAGS.

502.50 513.10 0 % SAME AS 444.90 531.10

REMARK := 502.50 513.10 STRIKING SUBUNIT WITH LARGE PROP'N OF RHYOLITE FRAGS SUBROUND

REMARK := 502.50 513.10 ED TO SUBANGULAR.

526.70 527.40 ANDESITE DYKE Chilled Margins,, top Sharp Contact at 80 Degrees to Core Axis;
bottom Sharp Contact at 90 Degrees to Core Axis;

531.10 564.70 Andesite Lapilli Tuff medium green , massive,, heterogeneous,; 0.01 % Quartz as Veins,
5 % Carbonate pervasive, 10 % ;is massive, 10 % Sericite pervasive,
0.01 % Pyrite as disseminations, Faint Foliation at
45 Degrees to Core Axis; trace Hematite as Dominant Alteration;
trace as Secondary Alteration;

REMARK := 531.10 564.70 CLAST-RICH, IN PART MAROON MATRIX AND CLASTS. UNSURE IF THIS IS

REMARK := 531.10 564.70 PART OF UNIT 8 OR 9. BECOMES GREENER DOWNHOLE EXCEPT FOR LAST

REMARK := 531.10 564.70 METER. NO K-SPAR.

546.50 550.70 ANDESITE DYKE medium grey , 20 % Carbonate pervasive, top Sharp Contact at
80 Degrees to Core Axis; bottom Sharp Contact at
80 Degrees to Core Axis;

564.70 603.60 ANDESITE, UNDIFFERENTIATE massive,,

REMARK := 564.70 603.60 DIFFICULT TO DESCRIBE ZONAL ALTERATION NOT TYPICAL OF UNIT 9.

564.70 575.00 0 % SAME AS 564.70 603.60 dark green , massive,, 20 % Quartz as Veins, 10 % Carbonate as Veins,
20 % Chlorite occurs as perv. dissem. = to veins,selvages and envelopes,
1 % Pyrite as disseminations, Weak Foliation at
45 Degrees to Core Axis; Qz-Cl-Cb Veins at 40 Degrees to Core Axis;
low Chlorite as Dominant Alteration;
low Barren Veins,as Domin. Mineralization.

REMARK := 564.70 575.00 NO VISIBLE FRAGMENTS. LOWER CONTACT GRADATIONAL.

575.00 590.20 0 % SAME AS 564.70 603.60 medium green , massive,, 0.3 % Quartz as Veins,
5 % Carbonate pervasive, 20 % Sericite pervasive,
2.5 % hematiteas Veins, 0.01 % Pyrite as disseminations,
very low as Dominant Alteration;

REMARK := 575.00 590.20 WEAK HEMATITE ALTERATION ASSOC. WITH CALCITE VEINS.

590.20 603.60 0 % SAME AS 564.70 603.60 light grey , massive,, 1 % Quartz as Veins,
10 % Carbonate occurs as perv. dissem. = to veins,selvages and envelopes,
5 % K-Feldspar pervasive, 30 % Sericite pervasive,
1 % Pyrite as disseminations, low as Dominant Alteration;
trace Carbonate as Secondary Alteration;

REMARK := 590.20 603.60 ALTERATION INCREASING DOWNHOLE. ODD LOOKING SPHERICAL PINK

REMARK := 590.20 603.60 FE-CARB STRUCTURES @ 595m. ABOVE THIS ALL CARB IS CALCITE,

REMARK := 590.20 603.60 BUT HERE 50/50 CAL/FE CARB. MINOR K-SPAR ALT.

603.60 604.50 Quartz Breccia pale grey , Brecciated,,
30 % Quartz occurs as perv. dissem. = to veins,selvages and envelopes,
2.5 % Carbonate as Veins, 30 % K-Feldspar pervasive,
1 % Pyrite as disseminations,
0.3 % Chalcopyrite occurs as perv. dissem. = to veins,selvages and envelopes,
0.3 % Galena occurs as perv. dissem. = to veins,selvages and envelopes,
0.3 % Sphalerite occurs as perv. dissem. = to veins,selvages and envelopes,
fairly low Silicification as Dominant Alteration;
fairly low K-Feldspar Flooding as Secondary Alteration;

REMARK := 603.60 604.50 LOOKS LIKE WHAT SOME WOULD CALL CHERTY TUFF, BUT STAINING SHOWS

REMARK := 603.60 604.50 K-SPAR IS A MAJOR COMPONENT. LOOKS LIKE BASE METALS WERE FINELY

REMARK := 603.60 604.50 DISSEM., BUT HAVE MOVED INTO MINOR VEINLETS NOW. HAS INTENSE

REMARK := 603.60 604.50 ASSYMETRICAL ALTERATION ON EITHER SIDE. FAVOURABLE LOOKING ZONE.

604.50 612.10 Andesite (pyritic) dark green , massive,, 2.5 % Quartz as Veins, 2.5 % Carbonate as Veins,
10 % Sericite pervasive, 30 % Chlorite pervasive,
1 % Pyrite as disseminations, Very Low Foliation at
45 Degrees to Core Axis; low Chlorite as Dominant Alteration;

REMARK := 604.50 612.10 TOP 0.8m STRONG CALCITE ALT. GIVING WAY TO CHLORITE. VFG UNIT

REMARK := 604.50 612.10 EASILY DIFFERENTIATED FROM NEXT P-UNIT. LOW FE-CARB.

612.10 620.60 Premier Porphrry Flow grey green , 10 % 2.0-4.0 mmAmphibole, massive,, porphyritic,;
0.01 % 8.0-16.0 mmK-spar phenocrysts, 20 % Carbonate pervasive,
Very Low Foliation at 55 Degrees to Core Axis;
very low Carbonate as Dominant Alteration;

REMARK := 612.10 620.60 STRONGLY HORNBLENDE PORPHYRITIC WITH TRACE OF K-SPAR MEGACRYSTS

REMARK := 612.10 620.60 LOOKS LIKE A FLOW WITH VFG GROUNDMASS. UNLIKE INTRUSION AT

REMARK := 612.10 620.60 SURFACE. LOWER CONTACT BROKEN. MOD. FE-CARB. GROUNDHOG

REMARK := 612.10 620.60 MARKER EQUIVALENT? NO MICA PHENOCRYSTS SEEN

620.60 675.00 Andesite (Silicified) grey green , massive,, Brecciated,;

REMARK := 620.60 675.00 SEE SUBDIVISIONS BY ALTERATION BELOW.

620.60 623.00 SAME AS 620.60 675.00 dark green , 2.5 % Quartz as Veins, 50 % Clay pervasive,
1 % Ankerite as Veins, 20 % K-Feldspar pervasive,
2.5 % Pyrite as disseminations,
moderate Chlorite as Dominant Alteration;
low K-Feldspar Flooding as Secondary Alteration;

REMARK := 620.60 623.00 EXTREMELY CHLORITIC, VEINING COMMON, BUT INCREASES BELOW. MINOR

REMARK := 620.60 623.00 CARB. STRONG K-SPAR.

623.00 639.40 SAME AS 620.60 675.00 dark green , 5 % Quartz as Veins, 10 % Clay pervasive,
5 % Carbonate as Veins,
20 % K-Feldspar Occur as Diss,Env,& Perv, >Veins,
2.5 % Pyrite occurs as perv. dissem. = to veins,selvages and envelopes,
0.01 % Galena as Veins, 0.01 % Sphalerite as Veins,
trace Silicification as Dominant Alteration;

REMARK := 623.00 639.40 K-SPAR ALTERATION DECREASING DOWNHOLE. LOTS QTZ-FE CARB VEINS

REMARK := 623.00 639.40 OF WHICH TWO OF 2-5 CM WIDE CARRY BASE METALS @ 637.7 @ 638.3m.

REMARK := 623.00 639.40 BOTH @ 70 TO CORE. SEVERAL LATE BARREN QTZ-FE-CARB-CHL VEINS.

639.40 675.00 SAME AS 620.60 675.00 dark green , 5 % Quartz as Veins, 10 % Clay pervasive,
5 % Carbonate as Veins,
0.01 % K-Feldspar Occur as Diss,Env,& Perv, >Veins,
2.5 % Pyrite occurs as perv. dissem. = to veins,selvages and envelopes,
0.01 % Galena as Veins, 0.01 % Sphalerite as Veins,

REMARK := 639.40 675.00 VISUALLY SIMILAR TO ABOVE, BUT STAIN SAYS LOW K-SPAR. LOTS OF

REMARK := 639.40 675.00 QTZ-FE-CARB VEINLETS. @665.9 ONE VEINLET @ 55 TO CORE AXIS OF 1

REMARK := 639.40 675.00 CM HAS SPH-GAL. BOTTOM PORTION ESP 669.4-670.8 HAS 5% VFG PY IN

REMARK := 639.40 675.00 MATRIX AND POSSIBLY AS FRAGMENTS.

653.3 653.4 Fault Zone 20 % GOUGE IN FAULT ZONE;

REMARK := 653.3 653.4 MINOR FAULT

655.8 656.2 Fault Zone 30 % GOUGE IN FAULT ZONE; Fault at 80 Degrees to Core Axis;

REMARK := 655.8 656.2 MINOR FAULT, SOMEWHAT BROKEN FROM 652.6- 657.0

675.00 696.80 Latite Lapilli Tuff purple green , massive,, Brecciated,; 1 % Quartz as Veins,
5 % Carbonate pervasive, 10 % Sericite pervasive,
5 % hematiteis massive, 0.01 % Pyrite as disseminations,
very low as Dominant Alteration;
very low Hematite as Secondary Alteration;

REMARK := 675.00 696.80 AS SOON AS ALTERATION ENDS IT IS CLEAR THE ANDESITE IS HETERO-

REMARK := 675.00 696.80 LITHIC AND IN PART MAROON. SIMILAR TO UNITS AT BOTTOM OF 93-722

REMARK := 675.00 696.80 AND 93-723. MAY HAVE TWO OF THE DISTINCTIVE BLACK AMYG-

APPENDIX C

DRILLHOLE ASSAY RESULTS

DATE : 09-21-93
TIME : 15:05:28

WESTMIN RESOURCES LTD.

LESLEY CREEK 1993 DRILLING

TRAVERSE/HOLE NUMBER ---------------> P93CH722

N.B. n.a. indicates no value has been entered
trace indicates value less than detection limit

ASSAY FIELDS

P ---> Primary value
S ---> Sub-prime value
Rp ---> Rerun of original pulp
Rs ---> Resplit of sample
Av ---> Average of all fields

FROM (M)	TO (M)	LENGTH (M)	SAMPLE NO.	AU GMS/T	AG GMS/T	CU PPM	PB PPM	ZN PPM	S.G CONST	PERCENT RECOVERY	SAMPLE TYPE	ROCK TYPE
410.80	411.30	0.50	58801 P	0.274	7.00	14	790	560	2.700	100.00	HALF N-CORE	AXXX
418.20	419.40	1.20	58802 P	0.206	6.00	137	2380	1460	2.700	100.00	HALF N-CORE	AXXX
419.40	421.10	1.70	58803 P	0.480	12.00	55	10300	5100	2.700	100.00	HALF N-CORE	AXXX
421.10	422.50	1.40	58804 P	0.069	5.00	58	190	240	2.700	100.00	HALF N-CORE	AXXX
422.50	424.00	1.50	58805 P	0.069	9.00	91	2930	3890	2.700	93.33	HALF N-CORE	AXXX
424.00	425.50	1.50	58806 P	trace	7.00	38	280	210	2.700	100.00	HALF N-CORE	AXXX
425.50	427.00	1.50	58807 P	0.206	3.00	35	48	88	2.700	100.00	HALF N-CORE	AXXX
427.00	428.60	1.60	58808 P	0.206	8.00	10	51	100	2.700	100.00	HALF N-CORE	AXXX
428.60	430.10	1.50	58809 P	0.069	4.00	106	209	520	2.700	100.00	HALF N-CORE	AXXX
430.10	431.30	1.20	58810 P	0.069	11.00	96	1500	1590	2.700	100.00	HALF N-CORE	AXXX
431.30	431.85	0.55	58811 P	0.411	48.00	53	32000	29300	2.700	100.00	HALF N-CORE	AXXX
431.85	433.40	1.55	58812 P	trace	6.00	78	182	263	2.700	100.00	HALF N-CORE	AXXX
433.40	434.70	1.30	58813 P	0.069	9.00	66	1530	4950	2.700	100.00	HALF N-CORE	AXXX
491.30	492.60	1.30	58814 P	0.206	6.00	28	80	131	2.700	100.00	HALF N-CORE	AXXX

DATE : 09-21-93
TIME : 15:05:28

TRAVERSE/HOLE NUMBER ------------> P93CH722 PAGE : 2

FROM (M)	TO (M)	LENGTH (M)	SAMPLE NO.	AU GMS/T	AG GMS/T	CU PPM	PB PPM	ZN PPM	S.G CONST	PERCENT RECOVERY	SAMPLE TYPE	ROCK TYPE
492.60	493.70	1.10	58815 P	0.343	4.00	38	198	181	2.700	100.00	HALF N-CORE	AXXX
498.80	499.80	1.00	58816 P	0.137	11.00	28	750	570	2.700	100.00	HALF N-CORE	AXXX
499.80	501.30	1.50	58817 P	0.069	6.00	27	178	114	2.700	100.00	HALF N-CORE	AXXX
506.50	508.10	1.60	58818 P	0.343	5.00	38	680	220	2.700	100.00	HALF N-CORE	AXXX

DATE : 09-21-93
TIME : 15:05:28

WESTMIN RESOURCES LTD.

LESLEY CREEK 1993 DRILLING

TRAVERSE/HOLE NUMBER ---------------> P93CH723

N.B. n.a. indicates no value has been entered
trace indicates value less than detection limit

ASSAY FIELDS

P ---> Primary value
S ---> Sub-prime value
Rp ---> Rerun of original pulp
Rs ---> Resplit of sample
Av ---> Average of all fields

FROM (M)	TO (M)	LENGTH (M)	SAMPLE NO.	AU GMS/T	AG GMS/T	CU PPM	PB PPM	ZN PPM	S.G CONST	PERCENT RECOVERY	SAMPLE TYPE	ROCK TYPE
351.40	352.30	0.90	58819 P	0.069	6.00	51	860	1940	2.700	100.00	WHOLE N-CORE	AXXS
352.30	353.60	1.30	58820 P	0.069	7.00	22	392	256	2.700	100.00	WHOLE N-CORE	AXXS
353.60	355.00	1.40	58821 P	trace	6.00	16	33	108	2.700	100.00	WHOLE N-CORE	AXXS
355.00	356.00	1.00	58822 P	trace	7.00	25	56	106	2.700	100.00	WHOLE N-CORE	AXXS
356.00	357.90	1.90	58823 P	trace	11.00	21	80	162	2.700	100.00	WHOLE N-CORE	AXXS
405.70	407.20	1.50	58824 P	trace	9.00	16	38	61	2.700	100.00	WHOLE N-CORE	AXXX
414.90	415.20	0.30	58825 P	0.069	13.00	142	470	3220	2.700	99.99	WHOLE N-CORE	AXXX
418.10	418.50	0.40	58826 P	trace	14.00	125	2560	2450	2.700	100.00	WHOLE N-CORE	AXXX

DATE : 09-21-93
TIME : 15:05:28

WESTMIN RESOURCES LTD.

LESLEY CREEK 1993 DRILLING

TRAVERSE/HOLE NUMBER ---------------> P93CH724

N.B. n.a. indicates no value has been entered
trace indicates value less than detection limit

ASSAY FIELDS

P ---> Primary value
S ---> Sub-prime value
Rp ---> Rerun of original pulp
Rs ---> Resplit of sample
Av ---> Average of all fields

FROM (M)	TO (M)	LENGTH (M)	SAMPLE NO.	AU GMS/T	AG GMS/T	CU PPM	PB PPM	ZN PPM	S.G CONST	PERCENT RECOVERY	SAMPLE TYPE	ROCK TYPE
70.50	72.00	1.50	58827 P	trace	2.00	25	69	83	2.700	100.00	WHOLE N-CORE	MTGX
75.50	76.80	1.30	58828 P	trace	11.00	24	46	69	2.700	100.00	WHOLE N-CORE	MTGX
91.80	93.00	1.20	58829 P	trace	7.00	18	40	41	2.700	100.00	WHOLE N-CORE	MTGX
93.00	94.00	1.00	58830 P	trace	10.00	20	82	91	2.700	100.00	WHOLE N-CORE	MTGX
198.80	199.10	0.30	58831 P	0.274	22.00	3770	3670	610	2.700	100.00	WHOLE N-CORE	MTGX
271.40	272.20	0.80	58832 P	trace	3.00	13	60	112	2.700	100.00	WHOLE N-CORE	MLGX
323.80	324.80	1.00	58833 P	1.851	15.00	270	5500	117	2.700	70.00	WHOLE N-CORE	MLGX
602.30	603.60	1.30	58834 P	0.206	6.00	25	370	340	2.700	100.00	WHOLE N-CORE	AXXX
603.60	604.50	0.90	58835 P	0.206	5.00	41	460	1530	2.700	100.00	WHOLE N-CORE	QBXX
604.50	605.30	0.80	58836 P	0.274	3.00	51	120	97	2.700	100.00	WHOLE N-CORE	AXXY
636.60	637.60	1.00	58837 P	0.069	3.00	60	90	193	2.700	100.00	WHOLE N-CORE	AXXS
637.60	638.40	0.80	58838 P	0.069	3.00	30	1190	9300	2.700	99.99	WHOLE N-CORE	AXXS
638.40	639.40	1.00	58839 P	0.137	2.00	15	20	123	2.700	100.00	WHOLE N-CORE	AXXS
665.80	666.00	0.20	58840 P	trace	5.00	24	30	2570	2.700	99.99	WHOLE N-CORE	AXXS

DATE : 09-21-93
TIME : 15:05:28

TRAVERSE/HOLE NUMBER ------------> P93CH724

FROM (M)	TO (M)	LENGTH (M)	SAMPLE NO.	AU GMS/T	AG GMS/T	CU PPM	PB PPM	ZN PPM	S.G CONST	PERCENT RECOVERY	SAMPLE TYPE	ROCK TYPE
669.40	670.80	1.40	58841 P	0.343	4.00	5	20	123	2.700	100.00	WHOLE N-CORE	AXXS

APPENDIX D

WHOLE ROCK GEOCHEMICAL DATA

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN MINES LTD.
P.O. BOX 476
STEWART, BC
V0T 1W0

Project :
Comments: ATTN: PAUL G. LHOTKA

Page Number 1
Total Pages 3
Certificate Date 27-AUG-93
Invoice No. I-9319445
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9319445

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm	As ppm	Bi ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
58801	205	274	280	4.4	52	< 2	13	< 1	6	524	< 2	430
58803	205	274	1040	2.4	6	< 2	66	< 1	< 1	1010	< 2	460
58806	205	274	30	9.8	20	< 2	66	< 1	2	>10000	< 2	6540
58811	205	274	570	41.6	48	< 2	68	5	7	>10000	< 2	>10000
58814	205	274	70	2.2	40	< 2	18	< 1	1	98	2	144
58816	205	274	110	7.6	34	< 2	42	< 1	1	602	< 2	1355
58818	205	274	305	2.6	32	< 2	36	< 1	2	410	< 2	168
58819	205	274	190	8.2	36	< 2	66	< 1	1	960	< 2	2090
58821	205	274	30	1.2	24	< 2	20	< 1	< 1	32	2	114
58823	205	274	120	5.2	40	< 2	19	< 1	9	92	2	138
58824	205	274	100	1.0	42	< 2	20	< 1	< 1	28	2	50
58828	205	274	25	1.0	70	< 2	24	< 1	1	58	< 2	94
58835	205	274	205	5.0	42	< 2	46	< 1	4	282	< 2	1250
58838	205	274	130	2.6	32	< 2	40	< 1	< 1	1745	< 2	9180
58841	205	274	510	1.4	24	< 2	11	< 1	1	28	< 2	140
58842	205	274	< 5	< 0.2	< 2	< 2	17	< 1	< 1	< 2	< 2	104
58843	205	274	< 5	< 0.2	< 2	< 2	15	< 1	< 1	6	< 2	74
58844	205	274	< 5	< 0.2	2	< 2	2	< 1	< 1	< 2	< 2	60
58845	205	274	< 5	< 0.2	8	< 2	14	< 1	< 1	< 2	< 2	82
58846	205	274	< 5	0.2	8	< 2	13	< 1	< 1	44	< 2	56
58847	205	274	< 5	< 0.2	6	< 2	6	< 1	< 1	2	< 2	80
58848	205	274	< 5	0.6	8	< 2	8	< 1	< 1	2	2	94
58849	205	274	< 5	< 0.2	< 2	< 2	2	< 1	< 1	< 2	< 2	74
58850	205	274	< 5	< 0.2	6	< 2	3	< 1	< 1	< 2	2	78
58851	205	274	< 5	< 0.2	< 2	< 2	3	< 1	< 1	2	2	72
58852	205	274	< 5	0.2	4	< 2	7	< 1	< 1	< 2	2	100
58853	205	274	< 5	< 0.2	6	< 2	4	< 1	< 1	< 2	2	72
58854	205	274	< 5	< 0.2	2	< 2	3	< 1	< 1	< 2	2	52
58855	205	274	30	0.6	4	< 2	58	< 1	< 1	2	< 2	28
58856	205	274	65	2.6	8	< 2	23	< 1	2	292	2	178
58857	205	274	< 5	0.8	10	< 2	109	< 1	< 1	4	< 2	184
58858	205	274	< 5	0.2	12	< 2	12	< 1	2	14	< 2	36
58859	205	274	< 5	0.2	2	< 2	4	< 1	< 1	2	2	32
58860	205	274	< 5	0.2	24	< 2	14	< 1	< 1	< 2	< 2	160
58861	205	274	10	0.2	2	< 2	8	< 1	< 1	8	< 2	98
58862	205	274	40	0.4	38	< 2	13	< 1	< 1	10	2	56
58863	205	274	20	1.4	28	< 2	29	< 1	1	24	< 2	108
58864	205	274	< 5	0.6	14	< 2	36	< 1	< 1	36	< 2	146
58865	205	274	330	1.4	22	< 2	107	< 1	< 1	48	2	104
58866	205	274	< 5	< 0.2	8	< 2	83	< 1	< 1	< 2	< 2	88

CERTIFICATION: ____________________

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN MINES LTD.
P.O. BOX 476
STEWART, BC
V0T 1W0

Project :
Comments: ATTN: PAUL G. LHOTKA

Certificate Date 27-AUG-93
Invoice No. I-9319445
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9319445

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm	As ppm	Bi ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
58867	205	274	< 5	< 0.2	2	< 2	12	< 1	< 1	12	2	62
58868	205	274	< 5	< 0.2	< 2	< 2	19	< 1	< 1	12	< 2	90
58869	205	274	< 5	< 0.2	4	< 2	17	< 1	1	20	< 2	32
58870	205	274	< 5	< 0.2	10	< 2	4	< 1	< 1	6	4	54
58871	205	274	< 5	< 0.2	12	< 2	29	< 1	1	< 2	< 2	74
58872	205	274	< 5	< 0.2	< 2	< 2	20	< 1	< 1	24	< 2	88
58873	205	274	< 5	< 0.2	< 2	< 2	17	< 1	< 1	< 2	2	56
58874	205	274	< 5	< 0.2	8	< 2	11	< 1	< 1	12	< 2	96
58875	205	274	< 5	< 0.2	< 2	< 2	2	< 1	< 1	6	2	86
58876	205	274	< 5	< 0.2	< 2	2	1	< 1	< 1	< 2	< 2	60
58877	205	274	< 5	< 0.2	2	< 2	3	< 1	< 1	30	< 2	22
58878	205	274	< 5	0.4	2	< 2	14	< 1	< 1	< 2	2	54
58879	205	274	< 5	< 0.2	2	< 2	3	< 1	1	2	< 2	78
58880	205	274	10	0.8	12	< 2	38	< 1	< 1	4	2	106
58881	205	274	210	6.0	46	< 2	318	< 1	1	494	< 2	832
58882	205	274	105	8.4	106	< 2	243	< 1	1	498	< 2	5690
58883	205	274	< 5	< 0.2	< 2	< 2	5	< 1	< 1	2	< 2	90
58884	205	274	30	0.2	22	< 2	6	< 1	< 1	< 2	< 2	114
58885	205	274	< 5	0.6	14	< 2	42	< 1	< 1	< 2	< 2	82
58886	205	274	< 5	1.2	6	< 2	50	< 1	< 1	16	2	96
58887	205	274	< 5	0.4	8	< 2	31	< 1	< 1	2	2	106
58888	205	274	100	6.4	14	< 2	69	< 1	< 1	526	4	348
58889	205	274	< 5	0.8	6	< 2	20	< 1	< 1	36	< 2	110
58890	205	274	< 5	0.4	< 2	< 2	77	< 1	< 1	6	< 2	92
58891	205	274	< 5	< 0.2	< 2	< 2	145	< 1	1	< 2	< 2	38
58892	205	274	< 5	< 0.2	< 2	< 2	73	< 1	< 1	2	2	48
58893	205	274	< 5	< 0.2	2	< 2	17	< 1	< 1	2	< 2	72
58894	205	274	< 5	< 0.2	4	< 2	3	< 1	< 1	< 2	< 2	58
58895	205	274	< 5	0.2	< 2	< 2	10	< 1	< 1	2	< 2	64
58896	205	274	< 5	< 0.2	4	< 2	17	< 1	< 1	< 2	< 2	100
58897	205	274	10	< 0.2	4	< 2	7	< 1	< 1	< 2	< 2	102
58898	205	274	< 5	< 0.2	< 2	< 2	15	< 1	< 1	2	2	62
58899	205	274	< 5	0.2	< 2	< 2	2	< 1	1	< 2	< 2	42
58900	205	274	< 5	< 0.2	< 2	< 2	24	< 1	< 1	8	2	64
58901	205	274	< 5	< 0.2	4	< 2	1	< 1	< 1	6	2	72
58902	205	274	< 5	< 0.2	< 2	< 2	7	< 1	< 1	< 2	< 2	82
58903	205	274	< 5	0.4	< 2	< 2	2	< 1	< 1	4	2	78
58904	205	274	65	6.0	22	< 2	131	< 1	< 1	328	< 2	164
58905	205	274	520	7.6	4	< 2	113	< 1	< 1	1395	< 2	4650
58906	205	274	35	0.4	20	< 2	7	< 1	< 1	22	2	128

CERTIFICATION:______________________

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: WESTMIN MINES LTD.
P.O. BOX 476
STEWART, BC
V0T 1W0

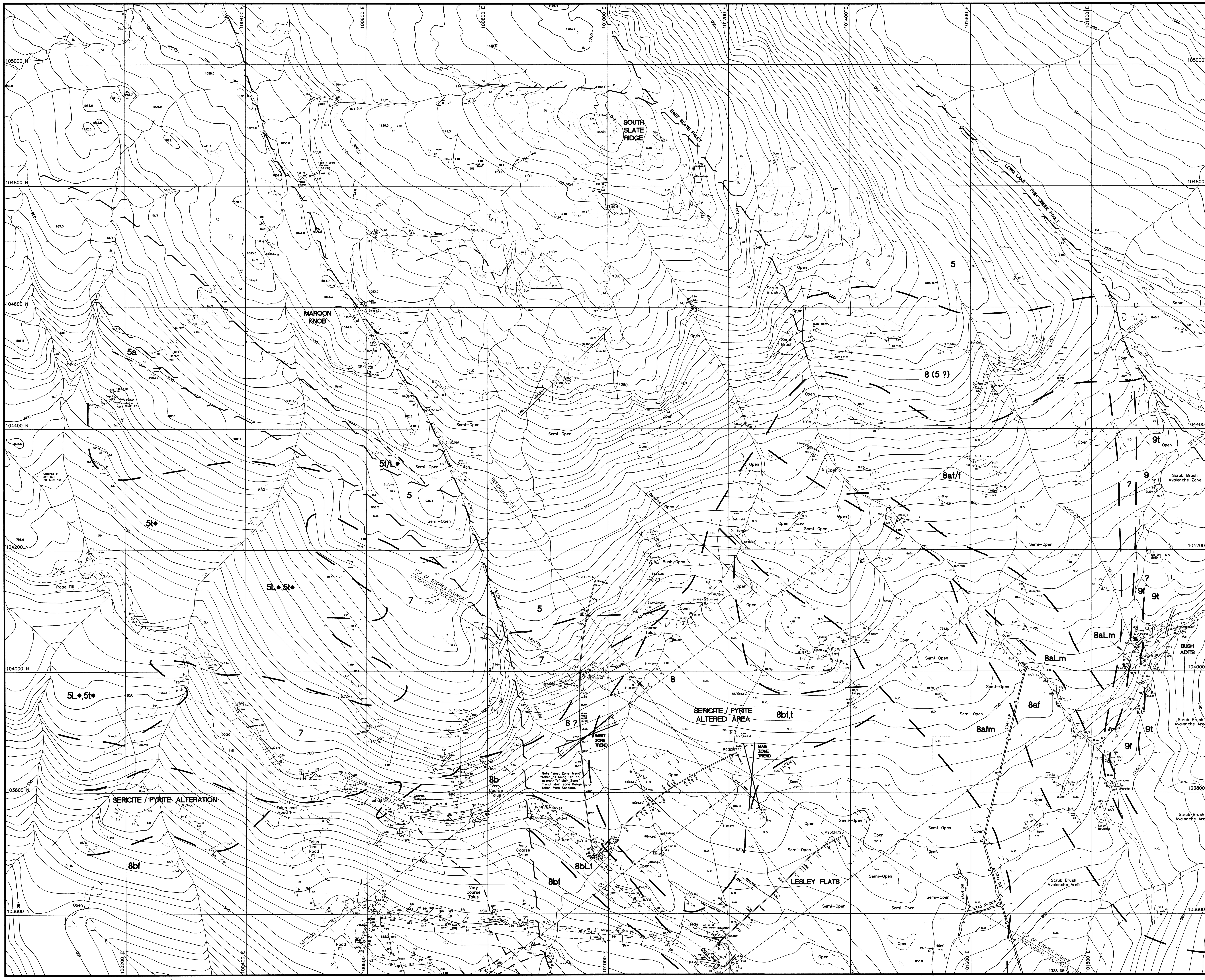
Project :
Comments: ATTN. PAUL G. LHOTKA

Page Number 3
Total Pages 3
Certificate Date 27-AUG-93
Invoice No. I-9319445
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9319445

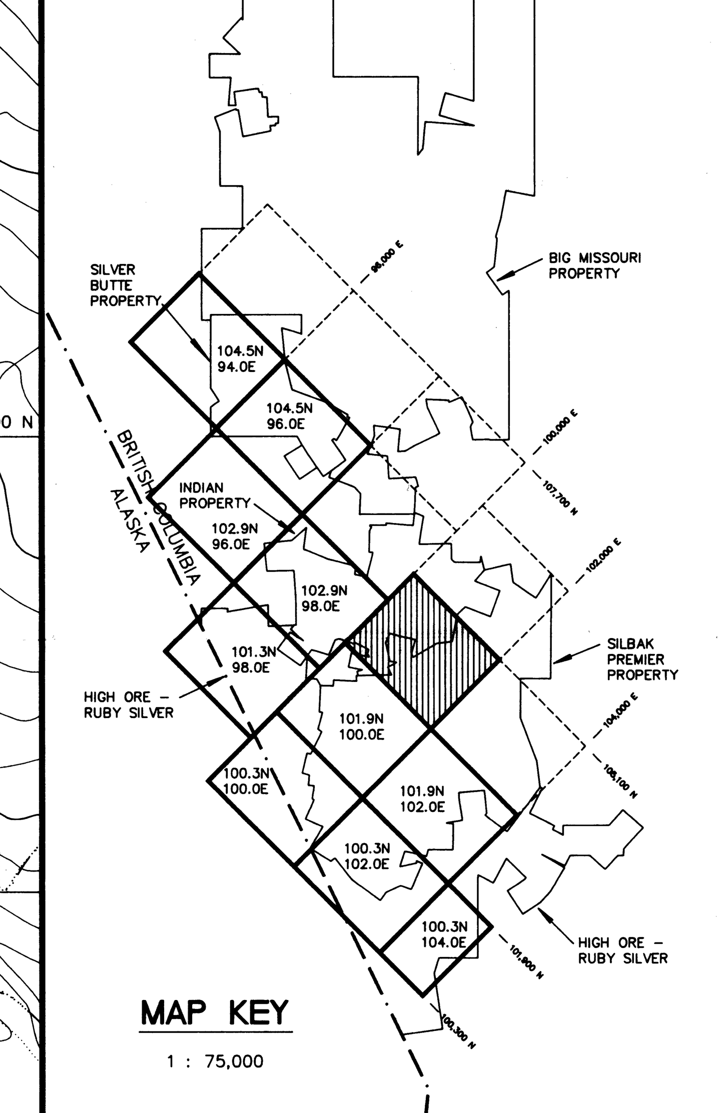
SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA	Ag ppm	As ppm	Bi ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
58907	205	274	< 5	0.6	4	< 2	64	< 1	< 1	8	< 2	100
58908	205	274	20	< 0.2	4	< 2	18	< 1	< 1	6	4	80
58909	205	274	80	0.8	26	< 2	46	< 1	< 1	16	2	54
58910	205	274	20	0.4	14	< 2	41	< 1	< 1	14	2	180
58911	205	274	150	1.0	24	< 2	132	< 1	< 1	18	< 2	78
58912	205	274	20	0.8	24	< 2	21	< 1	< 1	10	4	74
58913	205	274	40	4.4	126	< 2	128	< 1	< 1	22	4	184
58914	205	274	250	134.5	114	< 2	70	< 1	< 1	246	22	954
58915	205	274	35	1.4	18	< 2	22	< 1	< 1	110	4	330
58916	205	274	20	1.0	8	< 2	55	< 1	< 1	12	2	122
58917	205	274	< 5	0.2	< 2	< 2	15	< 1	< 1	6	< 2	94
58918	205	274	< 5	0.4	< 2	< 2	53	< 1	< 1	< 2	2	54
58919	205	274	50	19.8	22	< 2	41	< 1	2	636	< 2	5600
58920	205	274	10	13.4	18	< 2	36	< 1	3	54	4	348
58921	205	274	< 5	0.6	12	< 2	41	< 1	< 1	14	2	98
58922	205	274	< 5	0.6	< 2	< 2	41	< 1	< 1	66	2	184
58923	205	274	55	0.6	20	< 2	24	< 1	< 1	40	4	86
58924	205	274	< 5	1.2	10	< 2	77	< 1	< 1	12	4	100
58925	205	274	< 5	0.2	8	< 2	32	< 1	< 1	8	< 2	88
58926	205	274	105	1.0	44	< 2	25	< 1	< 1	262	2	826
58927	205	274	10	0.2	6	< 2	43	< 1	< 1	< 2	2	94
58928	205	274	15	0.2	8	< 2	8	< 1	< 1	14	2	42

CERTIFICATION: ____________________



GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,073



MAP KEY

1 : 75,000

LITHOSTRATIGRAPHIC LEGEND
LESLEY FLATS AREA

Map Unit #	Berol Color #	Geolog Code	Description
22	956	D/AX	ANDESITE/DIORITE DIKE (TERTIARY) Medium to dark green groundmass, massive, generally uniform; larger dikes commonly have finer grained border zones, and some dikes have narrow, baked contacts: commonly parallel to and locally cut dikes of Unit 21; altered to a pale to medium brown color caused by sericite–carbonate along minor, late faults.
21	929	D/XX	PORTLAND CANAL & HYDER DIKE (EOCENE) Latite to dacite, commonly leucocratic; minor diorite.
			MAJOR FAULTING EVENT
			MAJOR METAMORPHIC EVENT
12v		VTxx	Veins Filling Tension Fractures, possibly of more than one age, probably mainly associated with late stage of the major metamorphic event; dominated by quartz, calcite and chlorite.
			1–9 HAZELTON GROUP (UPPER TRIASSIC TO LOWER JURASSIC)
			UPPER VOLCANIC SEQUENCE
9	909	AXXX	ANDESITE, BASALTIC ANDESITE: Flow, Tuff, Lapilli Tuff, Altered, Cherty Tuff and Sediments Sub–units are distinguished on lithology only. Local stratigraphic sections can be determined, but the sequence varies moderately along the belt.
			MIDDLE VOLCANIC SEQUENCE
8	928	MXXX	LATE–STAGE LATITE/DACITE FLOWS, PYROCLASTIC ROCKS, DEBRIS FLOWS Shallow water to subaerial; younger than some andesite of Unit 9, and represents a post–main –stage mineralization pulse of felsic volcanism in the volcanic centre at the Silbak–Premier mine. Subdivided into 8a lower subunit & 8b upper subunit.
7	918	PIXX	LATITE/DACITE SUBVOLCANIC INTRUSIVE ROCKS (PREMIER PORPHYRY); Main Sulphide & Precious Metal Mineralizing Event at Silbak–Premier Subvolcanic intrusions of latite/dacite occur sporadically throughout the belt, intruding rocks of Units 4, 6 and the lower part of Unit 9. Many of the intrusions are concentrated in and near volcanic centres, some of which also are loci for hydrothermal activity and base– and precious–metal mineralization.
5	912	LXXX	Andesitic Latite to Latite Flow, Flow Breccia, Breccia, Lapilli Tuff, Tuff and Minor Epiclastic Rocks.

GEOLOGICAL SYMBOLS

- Outcrop
- Outcrop (covered or changed by recent construction)
- Geological Contact
- Major Fault
- 251763 / 298 — 1993 Field Station (with 6 digit code where assayed rock samples were collected)
- 50,278 — Lineation (plunge, azimuth)
- 028 / 36 — Flow Banding (primary foliation)
- 035 / 48 — Foliation (strike & dip)
- 140 / 70 — Jointing (strike & dip)
- gr / 45 — Bedding (tops known) gr = graded beds
- Adit

LITHOLOGIC CODES

Used As Modifiers For The Stratigraphic Units

f – Flow
L – Lapilli
t – Tuff
b – Banded
m – Maroon

ABBREVIATIONS

gl – Galena
py – Pyrite
se – Sericite
sl – Sphalerite

PROFESSIONAL GEOSCIENTIST — PROVINCE OF BRITISH COLUMBIA — P. G. LHOTKA
Oct 13, 1993

Westmin Resources Limited

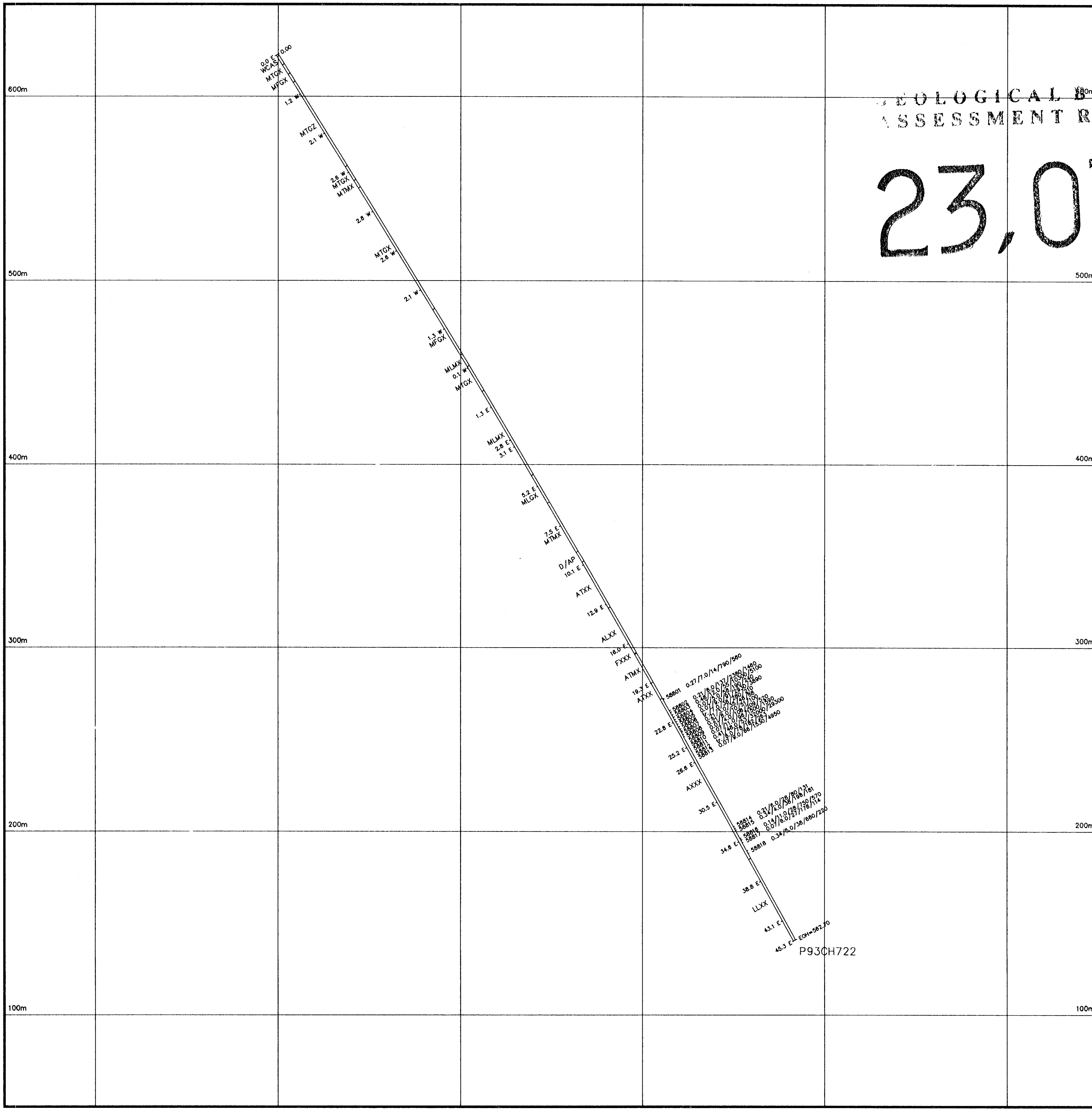
Work By	J.P. / P.G.L.
Date Drafted	28/06/93
Drafted By	R.A. Ivany
Date Revised	30/09/93
Revised By	
N.T.S. Number	104 B/1
File Name	PAYNE_1

PREMIER GOLD PROJECT

LESLEY CREEK AREA
(North Half)
1992 GEOLOGICAL MAPPING

40 0 40 80 120m
SCALE 1 : 2000

Figure 3



PROFESSIONAL
PROVINCE OF BRITISH COLUMBIA
P. G. LHOTKA
GEOSCIENTIST
Oct 13, 1993

Westmin Resources Limited

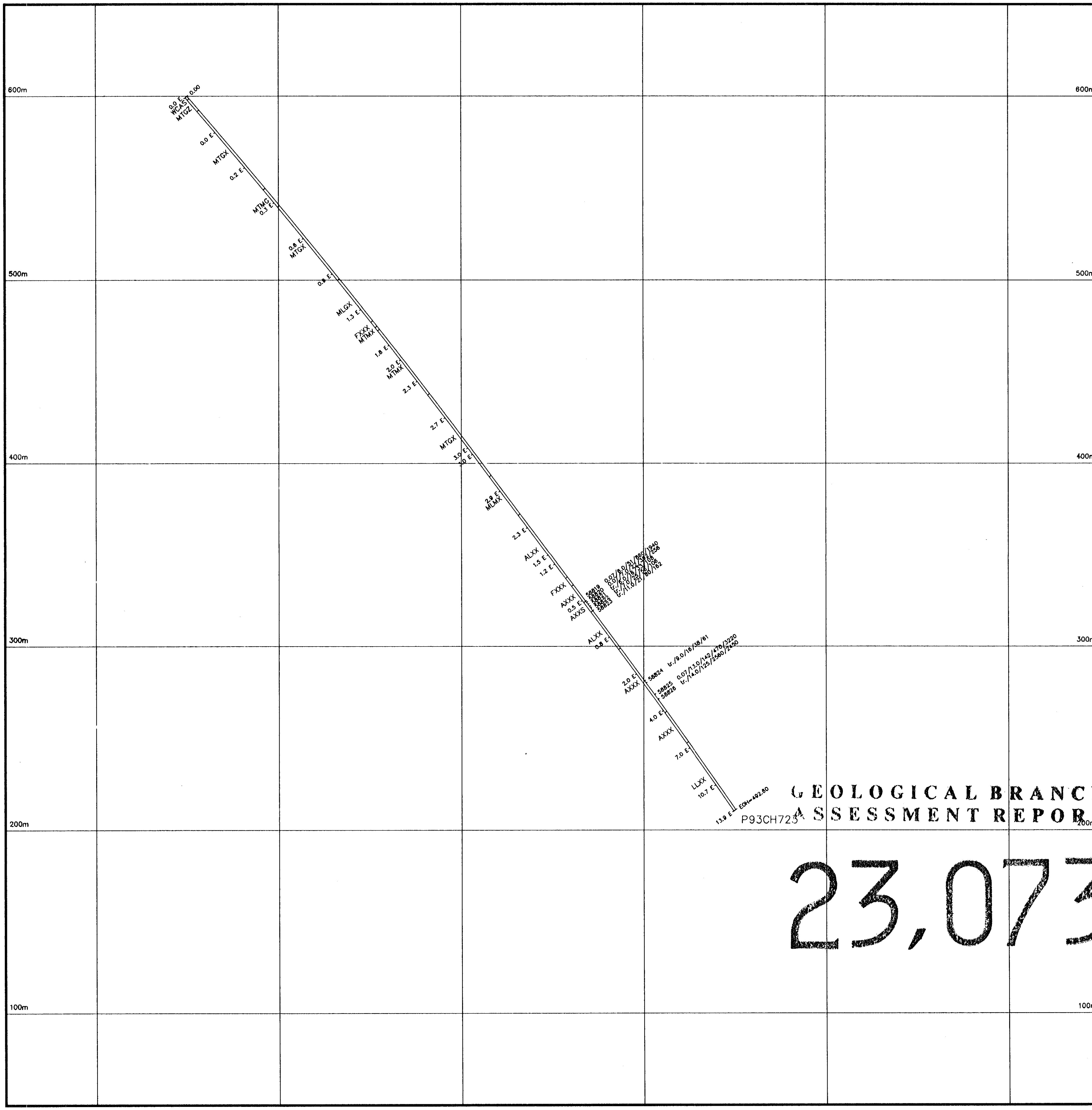
Work By	P. Lhotka
Date Drafted	29/09/93
Drafted By	R.A. Ivany
Date Revised	
Revised By	
N.T.S. Number	104 B/1
File Name	P93CH722

PREMIER GOLD PROJECT

LESLEY CREEK AREA
DRILL SECTION P93CH722
@ AZIMUTH 085°

SCALE 1 : 2,000

Figure 4



GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,073

Sample No. Au / Ag / Cu / Pb / Zn
gms/T gms/T ppm ppm ppm

PROFESSIONAL
PROVINCE OF
P. G. LHOTKA
BRITISH COLUMBIA
GEOSCIENTIST

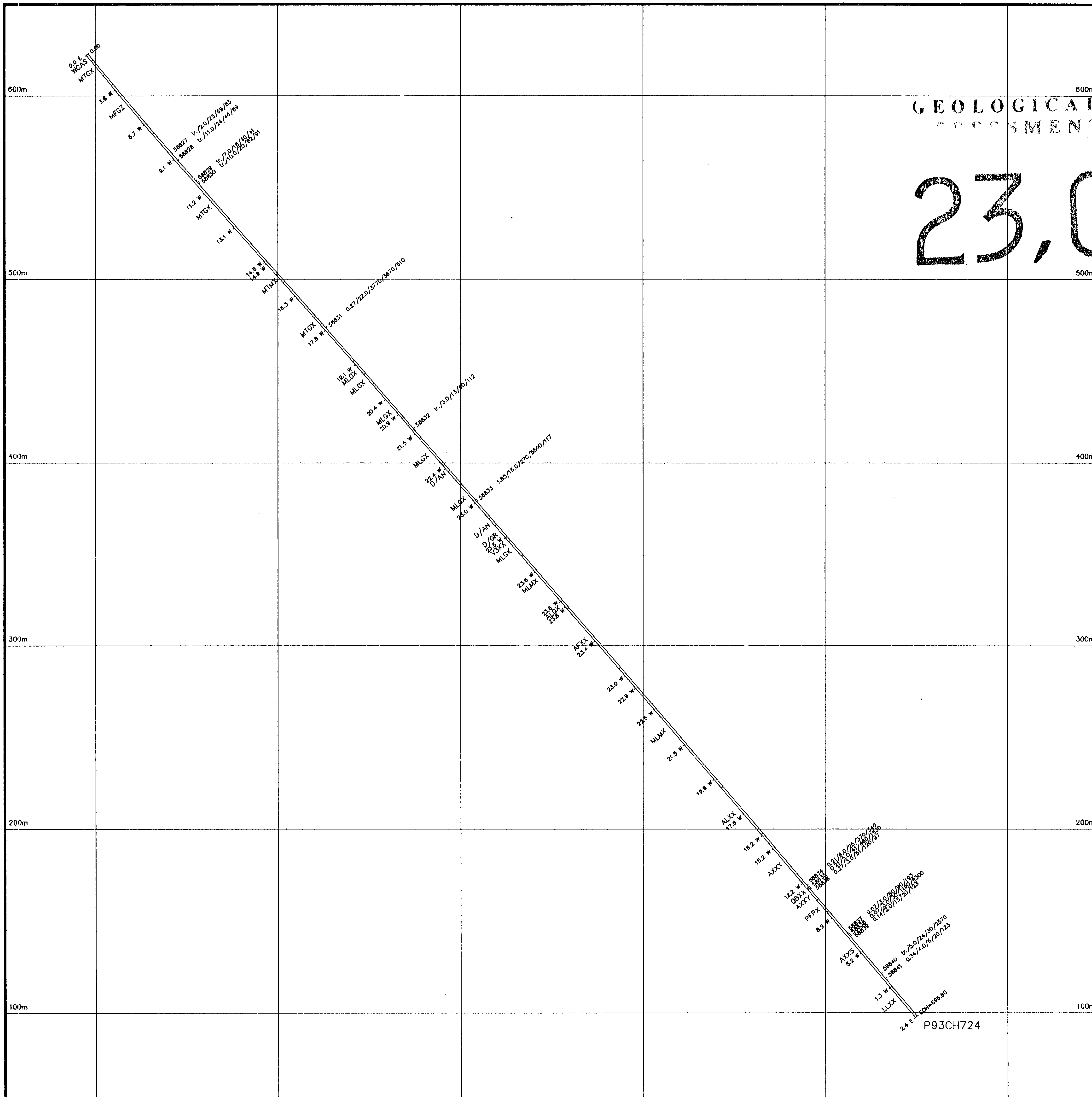
Paul G. Lhotka
Oct 13, 1993

Westmin Resources Limited

Work By P. Lhotka	**PREMIER GOLD PROJECT**
Date Drafted 29/09/93	LESLEY CREEK AREA
Drafted By R.A. Ivany	DRILL SECTION P93CH723
Date Revised	@ AZIMUTH 092°
Revised By	
N.T.S. Number 104 B/1	20 0 20 40 60m SCALE 1 : 2,000
File Name P93CH723	Figure 5

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,073



Sample No. Au gms/T / Ag gms/T / Cu ppm / Pb ppm / Zn ppm

PROFESSIONAL GEOSCIENTIST
PROVINCE OF BRITISH COLUMBIA
P. G. LHOTKA

Oct 13, 1993

Westmin Resources Limited

Work By	P. Lhotka
Date Drafted	29/09/93
Drafted By	R.A. Ivany
Date Revised	
Revised By	
N.T.S. Number	104 B/1
File Name	P93CH724

PREMIER GOLD PROJECT

LESLEY CREEK AREA

DRILL SECTION P93CH724

@ AZIMUTH 035°

20 0 20 40 60m

SCALE 1 : 2,000

Figure 6