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Assessment Report
on
1991 Drilling
on the
Wildrose Group
near Greenwood, B.C.

Greenwood Mining Division
NTS 82E/2E

Latitude
49° 05' 51" N

Longitude
118° 46' 37" W

Owner and Operator:

Minnova, Inc.
3rd Floor - 311 Water Street
Vancouver, B.C.
V6B-1B8

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

22,600

C.J. Clayton
October, 1992

SUMMARY

The Wildrose Group consists of 25 contiguous claims comprised of 19 two post claims, 2 four post claim, and 4 fractional claims for a total of 39 claim units located in the Greenwood Mining Division (NTS 82E/2E) of south central B.C. approximately 6 km west of Greenwood.

The claims are underlain by a sequence of Permo-Triassic chert, ash tuff and crystal tuff, as well as Tertiary volcanoclastics, conglomerate, and argillite. The property lies along the eastern margin of the Toroda graben and is dissected by a number of extensional faults related to Tertiary graben formation. Units generally strike in a north-south direction with dips varying from west to east at moderate angles.

The property is located approximately 5 km southwest of the Motherlode and Greyhound skarn deposits. The Greenwood camp is well known as a past producer of Cu and Au from skarn mineralization.

Drilling on the property was conducted between November 21 and December 12 of 1991. A total of 273.71 metres were drilled in 2 holes.

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1.0 INTRODUCTION

1.1 General

This report describes the results of DDH's 91-22 and 91-23 located on the Wildrose Group. Drilling of these holes was carried out between November 21, 1991 and November 25, 1991 as part of a larger 23 hole drill program in the area. Logging and sampling of the two holes was completed December 5, 1991. The program was aimed at assessing the potential of the property for vein and disseminated Au mineralization, and for Au-skarn mineralization.

1.2 Property Location and Access

The Wildrose Group is situated within the Greenwood Mining Division at Latitude 49° 05' 51" North, and Longitude 118° 46' 37" West on NTS Map Sheet 82E/2E (Figure 1). This is approximately 6 km west southwest of the city of Greenwood, B.C. Access to the claims is via the old Motherlode mine road to the west of town winding up past the Greenwood smelter. This road leads to the garbage dump and is kept in excellent condition year round. Approximately 2 km from town an old well maintained logging road branches off to the west-southwest. This is followed for approximately 4 km until a fork is reached (Figure 2). The road is on the property at this point and further access is gained by a network of old logging roads and skid trails.

1.3 Topography, Vegetation, and Climate

Topographic relief is extreme in areas, generally ranging from 900 metres above sea level (A.S.L.) to approximately 1500 metres A.S.L. The northern portions of the property have gentler relief. Vegetation consists predominantly of Lodgepole pine and Douglas fir. Areas near active drainages have dense alder.

Climate is moderate with ambient temperatures from -15° C in winter to 30° C in summer.

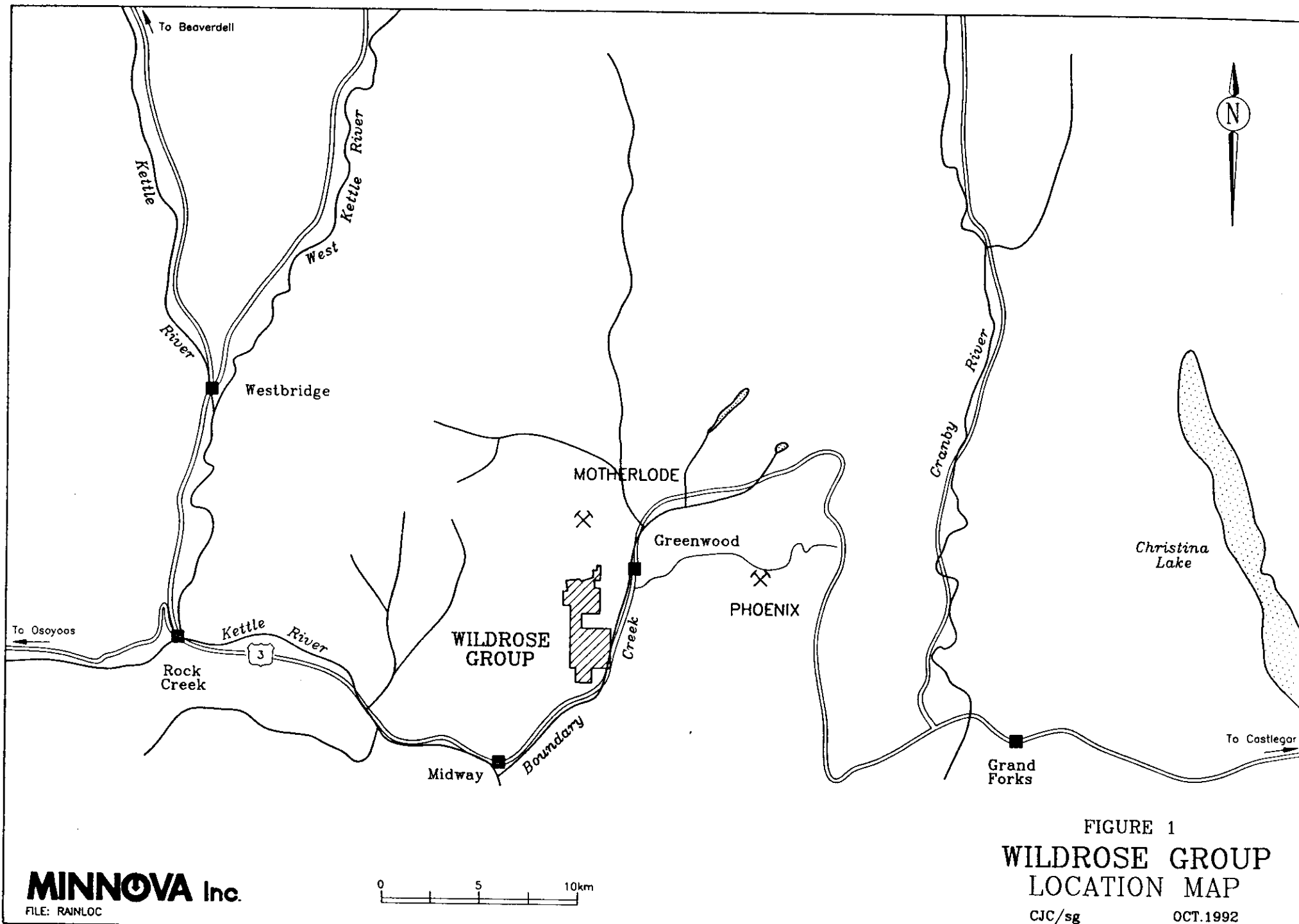


FIGURE 1
**WILDROSE GROUP
 LOCATION MAP**

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MINNOVA Inc.

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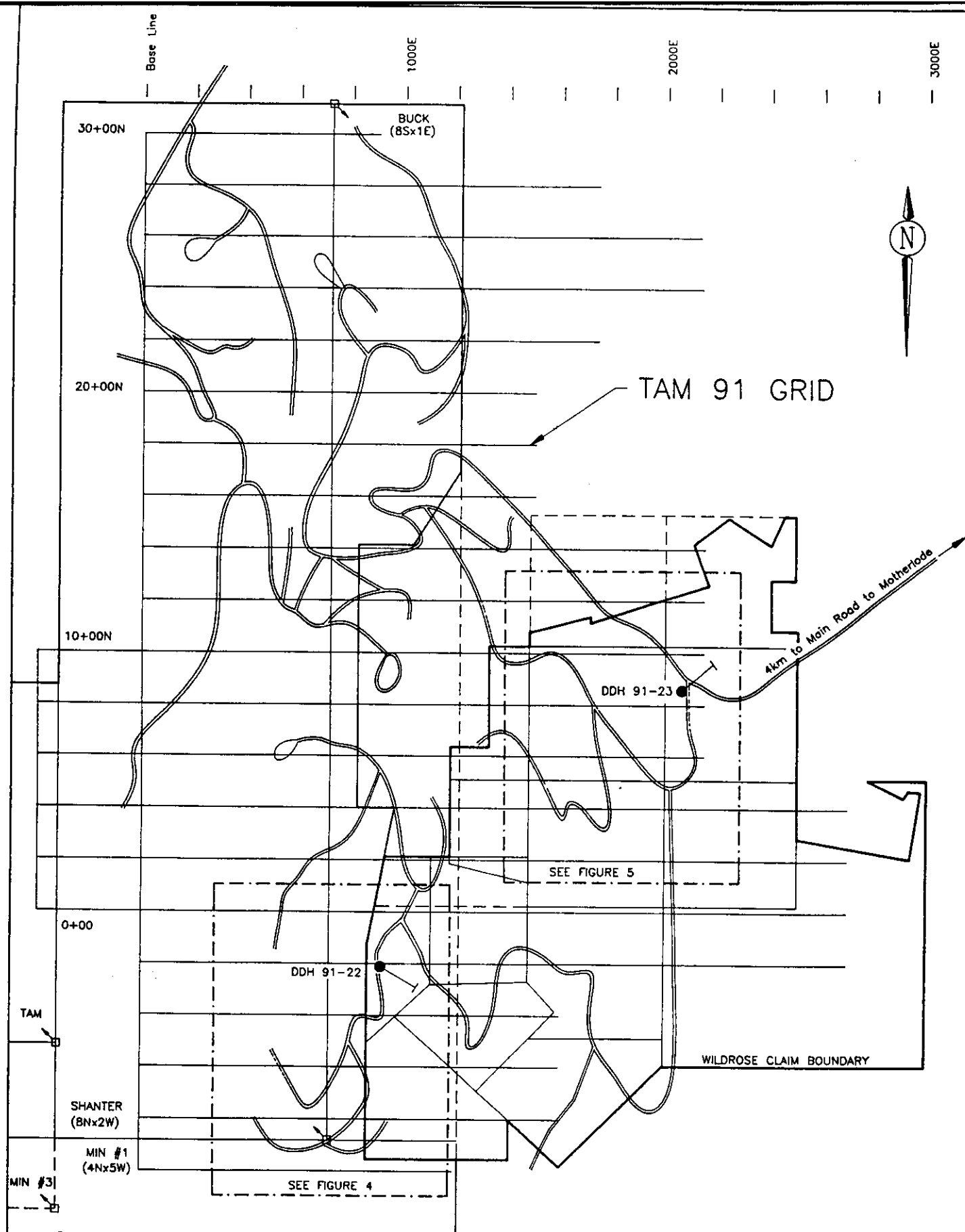


FIGURE 2
 WILDROSE GROUP
 GRID, DRILL HOLE LOCATION & ACCESS MAP
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1.4 Property and Ownership

The Wildrose Group of claims consists of 25 contiguous claims comprised of 19 two post claims, 2 four post claims, and 4 fractional claims making a total of 39 claim units (Figure 3). Claim information is summarised in the following table:

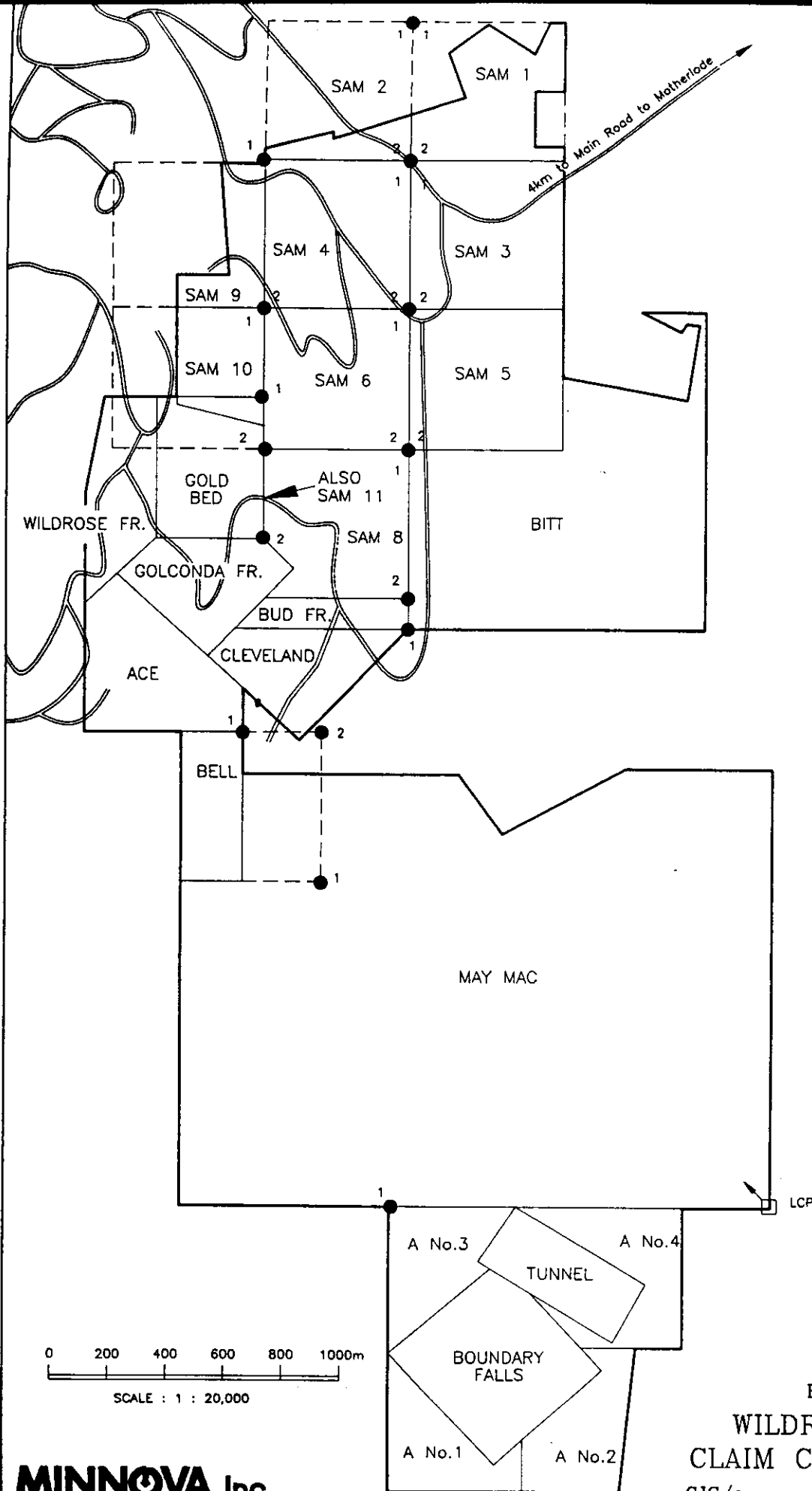
Table I: Summary of Claim Status - Wildrose Group

<u>CLAIM NAME</u>	<u>REC. No.</u>	<u>No. OF UNITS</u>	<u>EXP. DATE</u>	<u>NEW EXP. DATE</u>
Golconda Fr.	214138	1	10/26/93	10/26/1997*
Cleveland Fr.	214139	1	10/26/93	10/26/1997*
Bell	214140	1	11/05/93	11/05/1997*
Ace	214141	1	11/05/93	11/05/1997*
Wildrose Fr.	214507	1	10/29/93	10/29/1997*
Gold Bed	214508	1	10/29/93	10/29/1997*
Bitt	215067	4	10/30/93	10/30/1997*
Bud Fr.	215066	1	10/30/93	10/30/1997*
May Mac	214189	12	08/17/93	08/17/1995*
A No. 1	216570	1	10/31/93	10/31/1995*
A No. 2	216571	1	10/31/93	10/31/1995*
A No. 3	216572	1	10/31/93	10/31/1995*
A No. 4	216573	1	10/31/93	10/31/1995*
Tunnel	216644 (L.888)	1	08/08/93	08/08/1995*
Boundary Falls	216647 (L.889)	1	08/16/93	08/16/1995*
Sam 1	214357	1	10/12/97	
Sam 2	214358	1	10/12/98	
Sam 3	214359	1	10/12/97	
Sam 4	214360	1	10/12/97	
Sam 5	214709	1	10/18/97	
Sam 6	214710	1	10/18/98	
Sam 8	214711	1	10/18/97	
Sam 9	214504	1	10/21/97	
Sam 10	214505	1	10/21/97	
Sam 11	216269	1	05/24/98	
		Total	39	units

*upon acceptance of this report

1.5 Property History

The Greenwood area is known for its Cu/Au skarn deposits within calcareous units of Triassic Brooklyn Formation, and for smaller tonnage precious metal vein deposits.



1 - INITIAL POST
 2 - FINAL POST

FIGURE 3
 WILDROSE GROUP
 CLAIM CONFIGURATION
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Intermittent work has been carried out on the claim group and immediate surrounding area since 1895. Previous work on the group consists generally of a number of old hand dug trenches and the occasional small adit driven along mineralized structures. In 1897 a 15 metre shaft was driven along a mineralized vein and fault zone. This zone could be traced in open cuts for 91 metres. Mineralization reportedly consists of massive and disseminated pyrrhotite with minor pyrite and arsenopyrite, and local blebs and masses of milky quartz.

1.6 Summary of Assessment Work, November - December, 1991

Diamond Drill Hole 91-22:	Location	2+00S, 9+50E
	Elevation	1230 metres A.S.L.
	Length	125.27 metres
	Azimuth	120°
	Dip	-55°
	Samples	39 core samples
	Started	November 21, 1991
	Completed	November 22, 1991
Diamond Drill Hole 91-23:	Location	8+65N, 20+75E
	Elevation	944 metres A.S.L.
	Length	148.44 metres
	Azimuth	030°
	Dip	-60°
	Samples	50 core samples
	Started	November 23, 1991
	Completed	November 25, 1991

2.0 GEOLOGY

2.1 Regional Geology and Structure

Regional geology of the area consists of Late Palaeozoic and Mesozoic volcanic and sedimentary rocks metamorphosed to greenschist facies. These are intruded by Mesozoic plutons and unconformably overlain by Tertiary volcanoclastic and flow rocks.

Late Palaeozoic rocks consist of chert greenstone, diorite and serpentinite of the Knob Hill Group, and dark grey argillite, limestone and minor volcanic rocks (andesite) belonging to the

Attwood Group. These rocks are unconformably overlain by Triassic Brooklyn Formation, a sequence of clastic sedimentary rocks, limestones and submarine pyroclastic breccias and dioritic intrusions.

Early Tertiary tectonism included resurgent magmatic activity, horst and graben development, and thrusting. Tertiary rock distributions in the area are controlled by extensional faulting.

The Wildrose Group is located along the eastern margins of the Toroda graben flanking the Texas Mary horst to the west. To the east of the horst is the Republic graben which extends south into the United States.

2.2 Property Geology

Property geology consists primarily of a bedded sequence of Carboniferous to Permian cherty sediments, volcanoclastic rocks (ash to crystal tuff), and argillite, generally striking north-north-west and dipping 40-50° north-east, although strikes and dips vary locally. These are intruded locally by small sills and dykes of microdioritic, trachytic, and hornblende dioritic composition. Past interpretation has grouped the microdiorite and trachyte with the Carboniferous Knob Hill Group, however regional observations suggest the microdiorite may belong to the Jurassic/Cretaceous Nelson Plutonic Series. A major north-south trending structure, the Greyhound Creek Fault, cuts across the Sam #3 and Sam #5 claims separating the Permo-Carboniferous units to the west from possible Triassic age quartzite, calcareous phyllite, and impure limestone in the southeast corner of the Sam #5 claim. These units strike in a roughly east-northeast direction, dipping to the northwest.

In addition to the above sequence, a series of chert pebble conglomerate and sheared volcanic agglomerate occur on the property. The chert pebble conglomerate is described as consisting

of fine chert pebbles 2-15 mm in diameter within a sandy silicious matrix. Agglomerate is described as a coarse collection of light to medium grey sandy material in a black silicious matrix. Fyles (1990) suggests the conglomerate and agglomerate belong to the Carboniferous or Permian Knob Hill Group while Little (1979) indicates these to be of Triassic age belonging to the Brooklyn Formation.

Argillite reportedly hosts much of the quartz, pyrite, pyrrhotite mineralization seen on the property. Known mineralization consists of bands of massive pyrite, pyrrhotite, minor chalcopyrite, and arsenopyrite in a quartz breccia.

3.0 DIAMOND DRILL PROGRAM

As part of a larger, 23 hole drill program, DDH's 91-22 and 91-23 were drilled in late November of 1991 to test for Tertiary Au mineralization and possible deeper level porphyry or transitional type disseminated and stockwork mineralization. A total of 273.71 metres were drilled in the two holes. Hole 91-22 was drilled to test a broad I.P. chargeability anomaly with a coincident weak magnetic anomaly possibly associated with disseminated mineralization near the contact of diorite with Permian sediments (Figure 4). A weak to strong Au in soil anomaly also occurs in the area. Hole 91-23 was drilled to test under a gossan zone exposed in a road cut on the property (Figure 5). A grab sample of a small stockwork chalcopyrite vein from this road cut returned a value of 27% Cu. The hole was drilled perpendicular to the strike and dip of vein to intersect possible stockwork mineralization at depth.

3.1 DDH 91-22 Results

The hole collared in a chloritically altered crowded feldspar porphyry dyke from 6.1 metres to 8.6 metres which is in fault contact with underlying interbedded tuffaceous sandstone, sandstone and ash tuff to a depth of 48.1 metres. Within this interval are

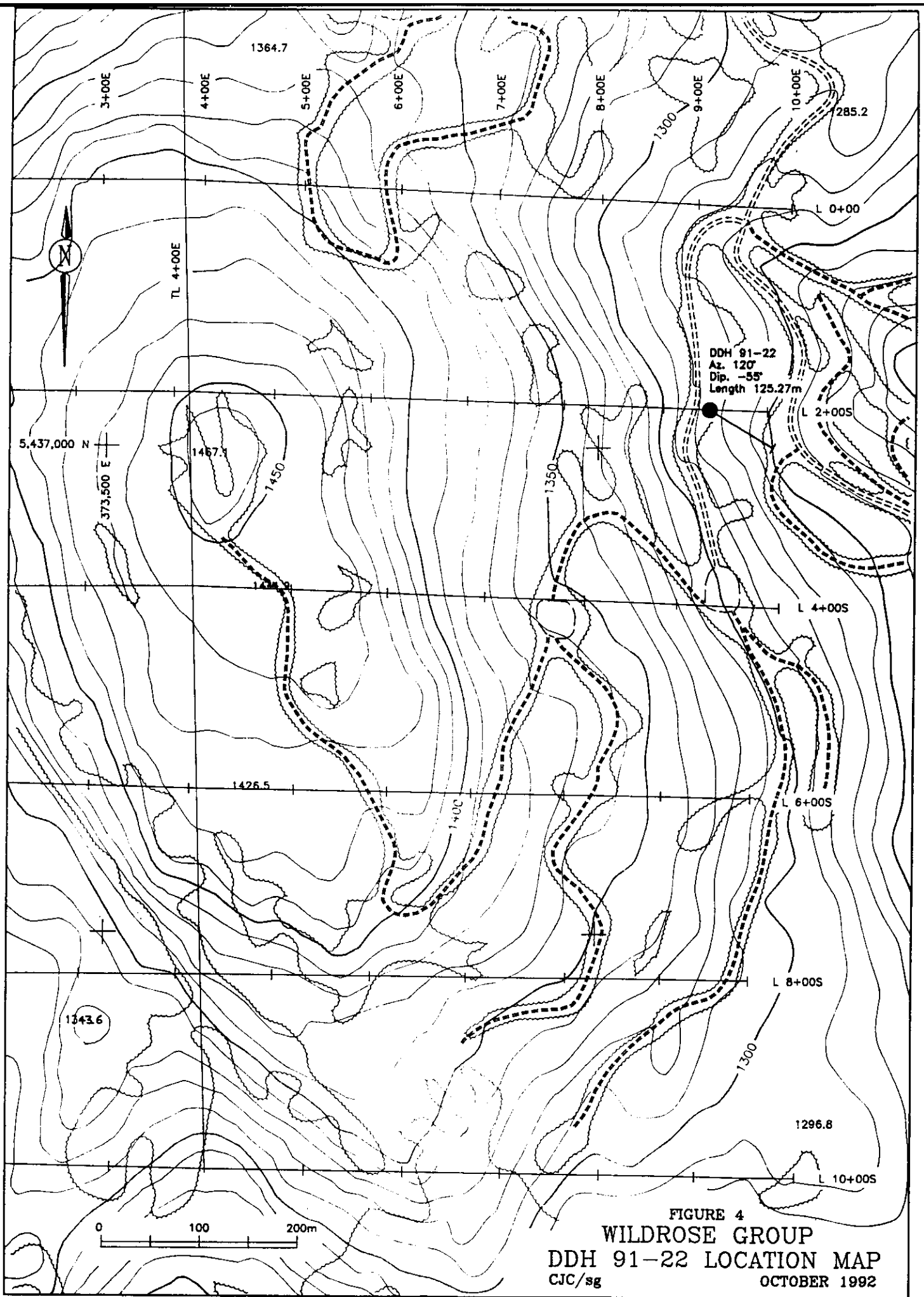


FIGURE 4
WILDROSE GROUP
DDH 91-22 LOCATION MAP
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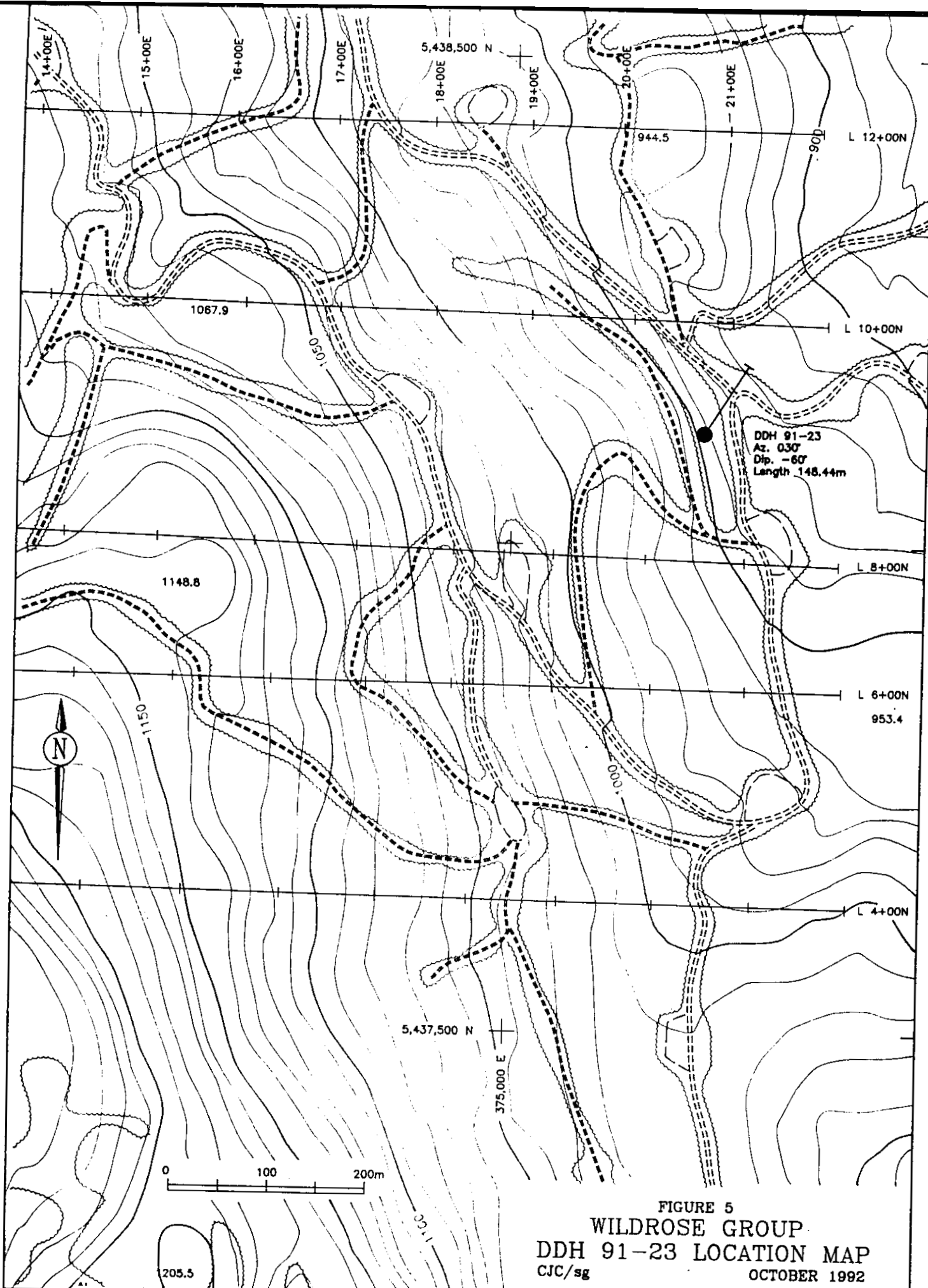


FIGURE 5
 WILDROSE GROUP
 DDH 91-23 LOCATION MAP
 CJC/sg
 OCTOBER 1992

small intervals of chert pebble conglomerate and quartz rich sandstones. From 48.1 metres to 66.4 metres fine grained argillaceous sediments were encountered followed by a fine grained feldspar and hornblende phyric Tertiary dyke to a depth of 76.77 metres. This dyke is locally weakly magnetic. From 74.47 metres to 75.58 metres a silicified, brecciated fault zone was encountered. Small quartz carbonate veinlets cross-cut the interval. From 76.77 metres to 125.27 metres (end of hole) interbedded chert/quartz pebble conglomerates and quartz rich sandstones were encountered. Pyrite occurs in trace amounts locally from 94.0 metres onward.

The hole was sampled by splitting continuously from start to end at approximately 3.0 metre intervals. No significant mineralization was encountered throughout. From 48.10 metres to 57.10 metres Pb and Zn values are elevated noticeably, with coincident maximums of 734 ppm Pb and 1950 ppm Zn. This interval corresponds to a rather non-descript interval of fine grained argillaceous sediments with weakly oxidized occasional fractures and no mineralization noted in drill core. Precious metal values throughout the hole were not significant (< 100 ppb Au, < 1.5 ppm Ag).

3.2 DDH 91-23 Results

The hole collared in, and remained in to 10.68 metres, a chert breccia made up of angular crystalline chert fragments in a silicified, locally banded matrix. Minor pyrite was noted. From 10.68 metres to 25.9 metres fine grained andesite flows were encountered, occasionally cross cut by hydrothermal breccias. Alteration throughout consists of alternating areas of silicification/chloritization and silicification/sericitization. Mineralization is generally absent throughout with the occasional interval (< 50cm) of up to 10-15% disseminated pyrite. A diorite dyke cuts the andesite from 22.66 metres to 23.4 metres. From 25.9

metres to 27.2 metres is an interval of indeterminate origin characterized by strong sericitic alteration and occasional quartz carbonate veinlets. A strongly fractured, locally brecciated, sequence of chert occurs from 27.2 to 39.64 metres with minor chalcedonic veining. This is followed by an interval of andesite which is locally strongly argillicly altered with some banded silicification and minor pyrite. From 56.39 to 60.90 metres a brecciated shear zone is encountered with strong clay alteration, and this is followed by a clay, chlorite, and talc altered feldspar porphyry to a depth of 93.51 metres. The porphyry is bounded at its lower contact by a brecciated shear zone to 94.19 metres. From 94.19 to the end of the hole at 148.44 metres is andesite cut by minor banded quartz veins at high angles to the core axis. Sericite, chlorite, and silica alteration vary throughout and pyrite and possibly chalcopyrite are seen in very trace amounts.

The hole was sampled continuously by splitting from start to end at approximately 3.0 metre intervals except in discreet zones such as veining requiring smaller or larger sample widths, as the case warranted. No significant mineralization was intersected. Small localized zones of weakly elevated Ba (up to 1940 ppm Ba) and Cu (up to 802 ppm Cu) were encountered, but precious metal values remain consistently low (< 100 ppb Au, < 1.5 ppm Ag) throughout.

4.0 CONCLUSIONS

No significant economic mineralization was encountered in either hole. Hole 91-22 showed elevated Pb and Zn values locally, as well as consistently elevated As values. The highest Au value for this hole was 68 ppb Au. Hole 91-23 showed locally elevated Ba and Cu values with sporadic elevated As values, however the highest Au value obtained in this hole was 71 ppb Au.

5.0 REFERENCES

- Assessment Report 4125.
Geological Mapping on the Bombini Group, Deadwood Creek, for
Fury Explorations, 1972.
- BCDM Annual Reports, 1904, 1921, 1922
- Church, B.N., 1986.
Geological Setting and Mineralization in the Mount Attwood-
Phoenix area of the Greenwood Mining Camp. BCDM Paper 1986-
2.
- Clayton, C.J., 1992.
Assessment Report on 1991 Linecutting and I.P. Geophysics on
the Sam Group near Greenwood, B.C. Greenwood Mining Division.
- Clayton, C.J., 1992.
Assessment Report on 1991 Drilling on the Tam 91 Group near
Greenwood, B.C. Greenwood Mining Division.
- Fyles, J.T., 1990.
Geology of the Greenwood-Grand Forks Area, British Columbia,
NTS 82E/1,2. B.C. Geological Survey Branch Open File 1990-
25.
- Little, H.W., 1983.
Geology of the Greenwood Map Area, British Columbia. GSC
Paper 79-29.

APPENDIX I: STATEMENT OF COSTS

STATEMENT OF COSTS – WILDROSE GROUP ASSESSMENT

DDH 91–22, DDH 91–23

GEOLOGIST

FIELD: 6 DAYS @ \$150 \$900
REPORT WRITING: 2 DAYS @ \$150 \$300

ASSISTANT

FIELD: 2 DAYS @ \$90 \$180

DRILLING COSTS

273.71 METRES @ \$38.00/METRE \$10,401
WATER HAULING: 40 HR @ \$60.00/HR \$2,400

ANALYSIS

89 SAMPLES @ \$15.50/SAMPLE \$1,380
SHIPPING \$475

TRUCK RENTAL

5 DAYS @ \$65.00/DAY \$325

MISC

\$20

TOTAL: \$16,380

APPENDIX II: STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Cameron J. Clayton of 2882 Masefield Road, North Vancouver, B.C. hereby certify that:

1. I am a graduate of Queen's University, Kingston, Ontario with a Bachelor of Applied Science degree in Geological Engineering.
2. I have practised my profession for five years.
3. I am a contract geologist currently employed by Minnova, Inc.
4. I have personally, and actively supervised the drilling program reported herein including the planning of drill hole locations, logging of core, and sampling of core.

Date: October, 1992

Signature: _____

Cameron J. Clayton

APPENDIX III: DRILL HOLE RECORDS

MINNOVA INC.
DRILL HOLE RECORD

HOLE NUMBER: TM 91-22

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: WILDROSE
PROJECT NUMBER: 672
CLAIM NUMBER:
LOCATION: GREENWOOD

PLOTTING COORDS GRID: TAM 91 GRID
NORTH: 200.00S
EAST: 950.00E
ELEV: 1230.00

ALTERNATE COORDS GRID: TAM91 GRID
NORTH: 2+ 0S
EAST: 9+50E
ELEV: 1230.00

COLLAR DIP: -55° 0' 0"
LENGTH OF THE HOLE: 125.27m
START DEPTH: 0.00m
FINAL DEPTH: 125.27m

COLLAR GRID AZIMUTH: 120° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 120° 0' 0"

DATE STARTED: November 21, 1991
DATE COMPLETED: November 22, 1991
DATE LOGGED: December 3, 1991

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
ROD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NO

CONTRACTOR: Atlas
CASING: 10' LIH
CORE STORAGE: Greenwood

PURPOSE: To test broad chargeability and weak mag anomaly possibly associated with dissem. mineralization

DIRECTIONAL DATA: near contact of diorite with Permian seds. A weak to strong Au soil anomaly is seen in the area.

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
0.00	-	0° 0'	ACID	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
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HOLE NUMBER: TM 91-22

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-October-1992

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 6.10	«CASING»					
6.10 TO 8.60	«CROWDED FSP PORPH»	Colour: green Grain Size: f.gr. to m.gr. This is a strongly chloritically altered crowded feldspar porphyry dyke. Feldspars are approx. 1 mm in length and are euhedral to subhedral, very minor quartz carbonate veinlets crosscut the interval 8.60: fault gouge		{6.1-8.60} «chl»	{6.1-8.60} «tr to 2% py»	
8.60 TO 48.10	«INT.BED SANDY TUFF, ST, ASH TUFF»	Colour: green grey Grain Size: v.f.gr. to m.gr. This unit is the same as described in hole TM 91-21 for the majority of the hole. It consists of interbedded very fine grained to aphanitic tuff to medium grained xtal tuffs and qtz rich sandstone. The entire interval is rather non-descript with few highlights. {8.60-8.80} «8x» Angular fragments of volcanoclastics in a chloritic matrix {14.90-18.14} «CHRT Pebble congl.» -this is a chloritic ash matrix supported sequence with rounded chert/quartz fragments 18.4-18.71 -quartz rich sandstone, bedding a 29.64-30.10 -quartz rich sandstone 32.8-35.33 -quartz rich sandstone 36.0-37.35 -qtz pebble/chert pebble conglomerate this is clast supported 37.4-38.3 A small interval of interbedded fine grained ash	70	{8.60-18.86} «mod chl» {25.14-25.54} «albite vein» «18.71-29.64} «str. chl» {30.10-32.8} «str. chl» {35.33-36.0} «str. chl» {37.35-38.30} «wk chl»	{25.14-25.54} «tr cp» The interval is virtually devoid of mineralization. Again, the sandy more permeable units may carry some sulphide as some are weakly oxidized	

HOLE NUMBER: TM 91-22

DRILL HOLE RECORD

LOGGED BY: Cam Clayton

PAGE: 2

HOLE NUMBER: TM 91-22

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-October-1992

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		and crystal or sandy tuff units with 1 to 2 cm thick beds @ 39.53-42.1 -quartered sandstone bedding 42.37-44.5 -rubbly broken core, possibly small fault 42.37-48.1 Generally this interval is white quartz rich grain supported sandstone/conglomerate etc. small tuffaceous beds and fragments are seen in matrix and these are chloritic. Toward the bottom of the interval the core becomes broken and rubbly slightly brecciated in areas indicating a lower fault contact	50 42	{42.1-44.5} «wk chl»		
48.10 TO 66.40	«ARG SEDS»	Colour: grey to black Grain Size: v.f.gr. to f.gr. This interval consists of grey to black, very fine grained argillaceous sediments. Within the interval, fragments of chloritic sandy tuffaceous sediments are observed. {53.6} «graph. flt. gouge» The interval is non-descript bedding: The bottom contact is clay gouge and fault breccia {66.4} «flt gouge, Bx»	54 54	{48.10-66.4} «wky graph.»	Although occasional fractures are weakly oxidized, mineralization is not seen	
66.40 TO 76.77	«TERT. DYKE »	Colour: grey Grain Size: f.gr. This is a fine grained grey feldspar and hornblende phyric unstrained Tertiary dyke. Feldspars are subhedral to euhedral comprising 60.70% Hornblende is generally subhedral only comprising 5-10% {69.49} «FLT gouge»		{66.4-76.77} «str. carb» The matrix has undergone str. carb		

HOLE NUMBER: TM 91-22

DRILL HOLE RECORD

LOGGED BY: Cam Clayton

PAGE: 3

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>↓71.2↓ «FLT gouge»</p> <p>↓74.47-75.58↓ «FLT zone» This fault is silicified and brecciated at its upper contact and chloritically altered at its bottom contact From the bottom of this fault zone to the end of the interval the dyke becomes more chloritically altered and silicified. The final 20 cm are finer grained and appear to be a chill margin. A small fault may be associated with the bottom contact</p>		<p>alteration (15-20%)</p> <p>↓68.2-68.4↓ «wk. mt»</p> <p>↓66.4-76.77↓ «arg. alt» -feldspars strongly altered to clays</p> <p>-small quartz carbonate veinlets cross-cut the interval</p> <p>↓74.47-74.98↓ «sil» ↓74.98-75.58↓ «chl» ↓75.58-76.77↓ «chl, sil»</p>		
76.77 TO 125.27	«INT. BED CHT/QTZ PEBBLE CGL & QTZ-RICH SST»	<p>Colour: grey Grain Size: c.gr. and f.gr. This is a rather non-descript sequence of inter-bedded quartz and chert pebble conglomerate with quartz rich sandstones. Generally these are clast supported units with very little matrix. The conglomerate units have quartz chert pebbles up to 1 cm in dimension but more commonly 0.5 mm. The clasts are subrounded to subangular and are unstrained</p> <p>The finer grained sandstone units have clasts up to 1 mm but generally fine grained bedding orientation varies between 38-42 deg.</p> <p>↓94.00-94.22↓ «Qtz vn Bx»</p> <p>This is a hydrothermal breccia crosscutting the interval and filled by silica</p> <p>↓14.65-115.05↓ «h'thermal Bx» This hydrothermal breccia contains angular fragments of quartz pebble conglomerate in siliceous matrix</p>	60 38	<p>Aside from the occasional quartz carbonate vein cross-cutting the interval, alteration is relatively absent. Some graphitic fractures occur</p> <p>↓87.88-88.00↓ «Q/C vnls»</p> <p>↓94.00-94.22↓ «sil vn» ↓110.5-111.0↓ «graph. fr»</p> <p>↓122.0-122.77↓ «grph fr»</p>	<p>↓94.0-94.22↓ «tr to 1% py» ↓110.5-111.0↓ «tr py with graphite»</p> <p>↓119.45-120.09↓ «tr py» -occurs as small veinlets</p> <p>↓122.0-122.77↓ «tr py» -as veinlets assoc. with graphite</p>	

COMP: MINNOVA INC.
 PROJ: 672
 ATTN: I.PIRIE/D.HEBERLEIN

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-1652-RJ1+2
 DATE: 91/12/10
 • ROCK • (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BA PPM	CU PPM	MO PPM	PB PPM	SB PPM	ZN PPM	AU-FIRE PPB
BCD35122	.1	36	51	72	1	76	1	233	20
BCD35123	.1	48	99	42	1	54	1	262	28
BCD35124	.1	82	54	199	1	29	1	257	38
BCD35125	.5	46	53	93	1	80	1	275	10
BCD35126	.1	48	50	95	1	27	1	117	22
BCD35127	.1	53	55	56	1	21	1	123	17
BCD35128	.1	52	98	44	1	22	1	114	16
BCD35129	.3	82	65	85	1	27	1	111	29
BCD35130	.1	48	210	60	1	20	1	118	10
BCD35131	.3	44	154	45	1	23	1	82	6
BCD35132	.3	34	97	32	1	21	1	70	4
BCD35133	.5	46	141	38	1	20	1	68	8
BCD35134	.7	44	72	40	2	105	1	181	4
BCD35135	.8	57	56	45	1	134	1	357	21
BCD35136	.7	45	56	56	1	427	1	1101	2
BCD35137	1.5	51	130	46	2	734	2	1950	6
BCD35138	.8	38	57	105	1	361	1	1584	32
BCD35139	.2	49	55	44	1	264	1	700	6
BCD35140	.1	32	66	72	1	61	1	313	4
BCD35141	.1	32	140	74	1	76	1	383	7
BCD35142	.8	2	208	19	1	26	1	72	2
BCD35143	.8	8	247	17	1	23	1	63	4
BCD35144	.7	8	444	20	1	28	1	70	4
BCD35145	.5	21	115	37	6	30	1	97	3
BCD35146	.7	32	41	19	4	33	1	137	2
BCD35147	.6	28	70	28	3	123	1	377	4
BCD35148	.5	24	64	30	2	45	1	215	2
BCD35149	.8	36	69	45	3	225	1	782	28
BCD35150	.9	25	70	20	4	57	1	151	3
BCD21276	.5	32	45	25	3	22	1	111	10
BCD21277	.4	198	39	44	4	80	1	382	68

DEC 18 1991

HOLE NUMBER: TM 91-22

ASSAY SHEET

DATE: 6-October-1992

Sample	From (m)	To (m)	Length (m)	ASSAYS		GEOCHEMICAL										COMMENTS
				Ag ppm	As ppm	Ba ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Au ppb	Au g/t	Au oz/t		
BCD35122	6.10	8.60	2.50	0.1	36	51	72	1	76	1	233	20				
BCD35123	8.60	11.60	3.00	0.1	48	99	42	1	54	1	262	28				
BCD35124	11.60	14.60	3.00	0.1	82	54	199	1	29	1	257	38				
BCD35125	14.60	17.60	3.00	0.5	46	53	93	1	80	1	275	10				
BCD35126	17.60	20.60	3.00	0.1	48	50	95	1	27	1	117	22				
BCD35127	20.60	23.60	3.00	0.1	53	55	56	1	21	1	123	17				
BCD35128	23.60	26.60	3.00	0.1	52	98	44	1	22	1	114	16				
BCD35129	26.60	29.60	3.00	0.3	82	65	85	1	27	1	111	29				
BCD35130	29.60	32.60	3.00	0.1	48	210	60	1	20	1	118	10				
BCD35131	32.60	35.60	3.00	0.3	44	154	45	1	23	1	82	6				
BCD35132	35.60	38.60	3.00	0.3	34	97	32	1	21	1	70	4				
BCD35133	38.60	41.60	3.00	0.5	46	141	38	1	20	1	68	8				
BCD35134	41.60	44.60	3.00	0.7	44	72	40	2	105	1	181	4				
BCD35135	44.60	48.10	3.50	0.8	57	56	45	1	134	1	357	21				
BCD35136	48.10	51.10	3.00	0.7	45	56	56	1	427	1	1101	2				
BCD35137	51.10	54.10	3.00	1.5	51	130	46	2	734	2	1950	6				
BCD35138	54.10	57.10	3.00	0.8	38	57	105	1	361	1	1584	32				
BCD35139	57.10	60.10	3.00	0.2	49	55	44	1	264	1	700	6				
BCD35140	60.10	63.10	3.00	0.1	32	66	72	1	61	1	313	4				
BCD35141	63.10	66.40	3.30	0.1	32	140	74	1	76	1	383	7				
BCD35142	66.40	69.40	3.00	0.8	2	208	19	1	26	1	72	2				
BCD35143	69.40	72.40	3.00	0.8	8	247	17	1	23	1	63	4				
BCD35144	72.40	76.77	4.37	0.7	8	444	20	1	28	1	70	4				
BCD35145	76.77	79.77	3.00	0.5	21	115	37	6	30	1	97	3				
BCD35146	79.77	82.77	3.00	0.7	32	41	19	4	33	1	137	2				
BCD35147	82.77	85.77	3.00	0.6	28	70	28	3	123	1	377	4				
BCD35148	85.77	88.77	3.00	0.5	24	64	30	2	45	1	215	2				
BCD35149	88.77	91.77	3.00	0.8	36	69	45	3	225	1	782	28				
BCD35150	91.77	94.77	3.00	0.9	25	70	20	4	57	1	151	3				
BCD21276	94.77	97.77	3.00	0.5	32	45	25	3	22	1	111	10				
BCD21277	97.77	100.77	3.00	0.4	198	39	44	4	80	1	382	68				
BCD21278	100.77	103.77	3.00	0.5	27	115	24	5	121	1	383	17				
BCD21279	103.77	106.77	3.00	0.5	130	197	30	3	202	1	632	42				
BCD21280	106.77	109.77	3.00	0.5	13	142	23	2	19	1	131	21				
BCD21281	109.77	112.77	3.00	0.4	20	133	41	4	150	1	458	6				
BCD21282	112.77	115.77	3.00	0.8	11	100	20	4	33	1	293	2				
BCD21283	115.77	118.77	3.00	0.2	10	83	25	3	12	1	96	5				
BCD21284	118.77	121.77	3.00	0.5	56	116	25	3	34	1	206	46				

HOLE NUMBER: TM 91-22

ASSAY SHEET

PAGE: 1

HOLE NUMBER: TM 91-22

ASSAY SHEET

DATE: 6-October-1992

Sample	From (m)	To (m)	Length (m)	Ag ppm	As ppm	Ba ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Au ppb	Au g/t	Au oz/t		
BCD21285	121.77	125.27	3.50	0.6	38	53	31	5	28	1	337	22				

HOLE NUMBER: TM 91-22

ASSAY SHEET

PAGE: 2

MINNOVA INC.
DRILL HOLE RECORD

HOLE NUMBER: TM 91-23

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: WILDROSE
PROJECT NUMBER: 672
CLAIM NUMBER:
LOCATION: GREENWOOD

PLOTTING COORDS GRID: TAM 91 GRID
NORTH: 865.00N
EAST: 2075.00E
ELEV: 944.00

ALTERNATE COORDS GRID: TAM91 GRID
NORTH: 8+65N
EAST: 20+75E
ELEV: 944.00

COLLAR DIP: -60° 0' 0"
LENGTH OF THE HOLE: 148.44m
START DEPTH: 0.00m
FINAL DEPTH: 148.44m

COLLAR GRID AZIMUTH: 30° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 30° 0' 0"

DATE STARTED: November 23, 1991
DATE COMPLETED: November 25, 1991
DATE LOGGED: December 5, 1991

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
ROD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NO

CONTRACTOR: Atlas
CASING: 10' LIM
CORE STORAGE: Greenwood

PURPOSE: To test gossan zone exposed in road cut on property containing chalcopyrite vein running 27% Cu.

DIRECTIONAL DATA: Hole drilled perpendicular to strike and dip of vein to intersect possible stockwork mineralisation

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
-	-	-	-	-	-	-	-	-	-	-	-
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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 6.10	<<CASING>>					
6.10 TO 10.68	<<CHERT BX>>	<p>Colour: white/grey white Grain Size: variable This interval consists of angular to sub-angular rounded fragments (up to 2 cm) of fine grained massive crystalline chert fragments in a matrix of buff white quartz 9.2-10.0 -the core is still hydrothermally brecciated but the rock type is strongly silicified and sericitally altered The brecciation is confined to a 3 cm vein parallel to c.a. 10.0-10.68 -the interval is a dark grey cherty unit again fractured and brecciated</p>		<p>{6.1-9.2} <sil> -silicification in areas appears banded {9.2-10.0} <ser, sil></p>	Sulphides (pyrite) occur in trace amounts through the interval generally as veinlets along fractures	
10.68 TO 22.66	<<ANDESITE FLOW>>	<p>Colour: green Grain Size: f.gr. This is a fine grained to aphanitic altered andesite flow. Within the very fine grained matrix are seen what appear to be gas vesicles filled by quartz. These are of the order of < 1 mm in dimension. Occasional hydrothermal breccias crosscut the interval</p> <p>Another curious fine grained mineral is also seen. This a black semi-hard mineral of tabular habit with a cross section that appears hexagonal in areas and trigonal elsewhere. This may be tourmaline</p> <p>11.57 -h'thermal bx 14.2 -flow breccias 15.5-17.4 -sil, chl. bx</p>	48	<p>Alteration through the interval consists of alternating areas of silification/chloritization and silicification sericitization</p> <p>10.68-12.9 -chl, sil 12.9-13.2 -sil, ser, tourmaline? 13.2-14.02 -sil, chl.</p> <p>14.02-15.00 -chl, ser 15.00-17.21 -sil, chl.</p>		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>‡17.75-17.8‡ «FLT gouge» -chloritically alt. ‡19.2‡ «shear fabric»</p>	32	<p>17.2-18.46 -chlorite 18.46-18.94 -silicification 18.94-19.3 -chl, sil 19.3-20.0 -chl, ser 20.0-20.3 -silicification 20.3-27.66 -sericite, chlorite ‡10.68-22.66‡ «alternat. chl, ser, sil»</p>	<p>‡18.46-18.94‡ «10-15% diss py» -associated with silicification ‡20.0-20.3‡ «10-15% diss. py»</p>	
22.66 TO 23.40	«DIORITE DYKE»	<p>Colour: grey white Grain Size: m.gr. This is a medium grained grey white eucratic diorite dike. Feldspars are subhedral comprising 80% of matrix. Biotite is common</p>		<p>‡22.66-23.4‡ «argillic» -feldspars are altered to clays</p>	Trace pyrite occurs through the interval	
23.40 TO 25.90	«ANDESITE FLOW»	<p>Colour: grey green to green Grain Size: v.f.gr to m.gr. This is similar to the interval described from 10.68-22.66 23.4-24.8 -the unit is very fine grained again with what appear to be fine grained gas vesicles filled by silica. The interval grades into a more chloritically altered medium grained andesite</p>		<p>‡23.4-24.8‡ «str. ser, chl» ‡24.8-25.9‡ «str. chl»</p>	<p>Sulphides are not common through interval ‡24.7‡ «10% py»</p>	
25.90 TO 27.20	«SER ALT»	<p>Colour: yellow green Grain Size: variable This interval is of indeterminate origin. The protolith may have been a dyke, based on the sharpness of contacts. The interval appears to be strongly sheared</p>		<p>‡25.9-27.2‡ «str. ser» -occasional quartz carbonate veins cross cut the interval</p>		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
27.20 TO 39.64	«CHERT»	<p>Colour: grey white to yellow white Grain Size: f.gr. This is a fine grained grey white to yellow white cherty interval. It is strongly fractured in areas with varying alteration types associated with these fractures from chlorite to sericite to silicification</p> <p>{29.2-29.65} «h'thermal bx»</p> <p>{33.40-34.70} «Bx» -this is an indistinctly brecciated interval overprinted by sericite and silica</p> <p>{34.9-36.14} «h'thermal bx» -some fractures contain chalcedonic veining</p> <p>Some of these veins are vuggy indicating dissolution of minerals/</p>	28	<p>Alteration is associated with varying degrees of fracturing. Some areas of silica introduction are banded and chalcedonic in appearance</p> <p>{29.2-29.6} «sil, ser»</p> <p>{33.4-36.0} «sil, ser»</p>	Trace amounts of pyrite are seen generally as fracture coatings or as very fine disseminations	
39.64 TO 46.80	«ANDESITE»	<p>Colour: green Grain Size: m.gr. This is a dark green medium to fine grained andesite volcanic flow. The unit is cut by small quartz veinlets and vein breccias. The quartz veinlets are chalcedonic in areas. 42.0-46.8 -the intensity of fracturing and brecciation increases and is accompanied by increasing silicification and veining</p>		<p>{39.64-46.8} «str. chl»</p> <p>{40.5-40.7} «qtz vein»</p> <p>{42.0-46.8} «str. silic»</p>	<p>Sulphide content tends to increase with degree of silicification</p> <p>{42.00-46.8} «2% diss py»</p>	
46.80 TO 51.40	«ARGILLIC AND»	<p>Colour: buff grey Grain Size: v.f.gr. There is a buff grey coloured, strongly argillically altered very fine grained andesite. The black fine grained mineral described in the interval 10.68-22.66 is also seen in this interval to roughly 2%</p> <p>Occasional zones of silicification and quartz vein and brecciation cut the interval</p>		<p>{46.8-57.4} «v. str. arg» the interval has been strongly alt. to clays</p> <p>{50.4} «banded quartz» this is a cavity filled by quartz that is shows alternating light and dark</p>		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				bands		
51.40 TO 56.39	«AND»	Colour: green Grain Size: m.gr. This is a dark green medium grained andesitic flow. Some coarser feldspar crystals are seen in the interval. Some small quartz/chalcedonic cross the interval {51.82} «Fault gouge»		{51.4-52.6} «str. sil» {54.14-55.4} «ser» {55.4-56.39} «str. sil» This is strongly fractured with silica veinlets through it.		
56.39 TO 60.90	«SHEAR BX»	Colour: buff grey Grain Size: variable This is a broad strongly argillically and clay altered brecciated and faulted shear zone. 56.39-58.5 -the interval consist of gouge and quartz frags up to 1 cm 58.5-60.90 -the fragments comprising the fault matrix are larger, up to 5 cm shear fabric is oriented at roughly @	58	{56.39-60.90} «str. clay»		
60.90 TO 93.51	«ALT. F' SPAR PORPH»	Colour: grey green Grain Size: v.f.gr. This interval consists of a strongly altered feldspar porphyry. Altered feldspar grains are up to 5 mm in dimension comprising roughly only 5-10% of the unit and are contained within a very fine grained to aphanitic groundmass. The interval is only weakly fractured with quartz carbonate and talc veinlets. Some of the feldspars have a glomeroporphyritic texture {76.1-76.32} «h'thermal bx» This interval contains brecciated fragments of argillically altered porphyry in a green talc matrix	38	{60.90-72.40} «talc, clay» feldspars within this interval are altered to green talc, the matrix is altered to clay {72.4-75.6} «chl» {75.6-80.8} «clay, talc» -matrix is strongly altered to clay, feldspar phenocrysts are talc altered and small talc veinlets cross cut the interval {80.6-80.8} «chl, clay»		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>{78.5} «FLT gouge» {78.82-78.96} «FLT gouge» {80.4-80.54} «FLT gouge» {86.77} «FLT gouge» {89.87} «FLT gouge» {90.54-91.33} «FLT gouge»</p> <p>{91.9-92.3} «shear zone» -strong clay altered</p> <p>{93.51} «FLT gouge»</p>	38 46 30	{84.4-93.5} «str. clay, talc»		
93.51 TO 94.19	«SHEAR/BX ZONE»	<p>Colour: green grey Grain Size: variable There is a chloritically and sericitically altered and silicified shear/breccia zone, silicified fragments are subangular and up to 6 cm -shear fabric</p>	28	<p>{93.5-93.85} «chlorite alt» {93.85-94.19} «ser alt»</p>	Trace amounts of pyrite are associated with silicified frags	
94.19 TO 148.44	«AND»	<p>Colour: green grey Grain Size: m.gr. and f.gr. This is a green grey medium to fine grained andesitic flow that appears brecciated locally throughout and sericitically chloritically altered and locally silicified. In some localized areas small feldspar phenocrysts are visible but these are generally obliterated by alteration overprinting</p> <p>{118.1-120.0} «FLT Bx, gouge»</p> <p>This zone contains local silicified breccias containing angular fragments and areas of chloritic fault gouge</p> <p>{122.58-123.5} «Bx» {125.4-126.7} «Bx And FLT gouge» {129.9-130.2} «shear»</p>	30	<p>A number of banded quartz veins cut the interval, generally at high angles to the c.a. (70 deg)</p> <p>Other stockwork veinlets occur at random orientations</p> <p>{94.9-95.4} «hem. alt.»</p> <p>This is a matrix alteration</p> <p>{94.19} «5% stkrwk 0'vns» {99.6} «0'vns»</p> <p>sericite chloritic and silica alt'n vary rapidly and it is not possible to distinguish separate zones</p> <p>{112.0-120.1} «str. chl, sil»</p>		<p>{99.6} «1% py, tr cp» this occurs within quartz veins oriented 20 deg to c.a.</p> <p>{104.25} «tr py, tr cp, vns» this is in a small quartz veinlet at 16 deg to c.a.</p>

HOLE NUMBER: TM 91-23

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-October-1992

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-this shear zone is sericitized	38	↓120.1-122.0↓ «ser, clay»	↓112.0-120.1↓ «tr to 1% py»	
		↓131.0-131.88↓ «sil, ser, bx»	28	↓122.0-131.88↓ «chl, sil»	This mineralization is always associated with silica introduction	
		↓132.76-133.73↓ «FLT gouge + Bx»		↓134.2-135.3↓ «str. ser» -matrix alteration	↓122.0-131.88↓ «tr to 1% py»	
		↓142.54-143.11↓ «Bx FLT gouge» -the breccia matrix consists of silicification	20	↓135.3-146.2↓ «chl, ser, clay, sil»	Again this is associated with silica introduction	
		↓144.2↓ «Bx, shear»	42	↓142.54-142.84↓ «sil»		
		↓145.4-146.2↓ «Bx»	30	↓144.0-144.1↓ «sil, Q vns»		
		↓148.25-148.44↓ «Bx»		↓146.2-148.25↓ «Qtz vns» -this is a bull white massive quartz vein	↓146.2-148.25↓ «tr py»	
E.O.H.						

HOLE NUMBER: TM 91-23

DRILL HOLE RECORD

LOGGED BY: Cam Clayton

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COMP: MINNOVA INC.

PROJ: 672

ATTN: I. PIRIE/D. HEBERLEIN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 1V-1657-RJ1+2

DATE: 91/12/11

* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	BA PPM	CU PPM	MO PPM	PB PPM	SB PPM	ZN PPM	AU-FIRE PPB
BCD21286	.7	28	542	112	16	14	1	25	38
BCD21287	.6	17	826	280	9	14	1	19	2
BCD21288	.2	6	1196	193	5	16	1	30	1
BCD21289	.6	6	71	211	3	15	1	23	1
BCD21290	.8	6	148	412	7	16	1	21	3
BCD21291	.9	7	284	382	11	27	1	20	5
BCD21292	1.2	5	313	751	20	19	1	26	6
BCD21293	.7	3	390	386	6	45	1	46	3
BCD21294	.2	1	528	443	1	15	1	44	71
BCD21295	1.0	11	236	218	5	10	1	8	15
BCD21296	.9	10	34	157	9	10	1	15	6
BCD21297	.8	7	24	118	3	10	1	11	12
BCD21298	1.1	13	26	163	11	9	1	6	3
BCD21299	.2	1	113	348	2	13	1	39	4
BCD21300	.9	9	34	534	26	13	1	13	40
BCD21301	.8	2	116	313	2	17	1	77	5
BCD21302	.4	4	44	200	3	18	1	26	2
BCD21303	.3	2	21	438	2	6	1	35	4
BCD21304	.4	1	272	271	7	9	1	35	7
BCD21305	.7	8	365	153	6	18	1	33	4
BCD21306	.7	4	1298	29	2	30	1	58	2
BCD21307	.7	1	635	24	2	32	1	50	2
BCD21308	.8	4	1822	23	2	36	1	58	1
BCD21309	1.0	18	374	23	3	62	1	75	1
BCD21310	.8	1	478	21	2	29	1	55	3
BCD21311	.8	8	413	20	2	33	1	50	2
BCD21312	.7	13	1940	18	2	36	1	55	3
BCD21313	.5	1	248	18	1	28	1	74	5
BCD21314	.7	4	1270	18	1	36	1	68	2
BCD21315	.7	2	318	23	2	29	1	56	2
BCD21316	1.0	14	525	37	5	28	1	54	8
BCD21317	.5	16	581	189	7	18	1	63	5
BCD21318	.3	1	35	250	1	13	1	61	4
BCD21319	.6	1	68	802	5	14	1	41	11
BCD21320	.8	1	71	172	2	13	1	36	2
BCD21321	.4	1	25	717	3	6	1	42	3
BCD21322	.5	1	19	347	5	14	1	37	2
BCD21323	.3	1	28	147	1	9	1	47	1
BCD21324	1.1	6	53	343	10	16	1	28	2
BCD21325	.6	6	178	113	5	15	1	19	1
BCD44401	.7	6	143	329	9	14	1	24	3
BCD44402	.7	1	60	338	30	18	1	45	13
BCD44403	.5	1	117	380	4	20	1	57	39
BCD44404	.9	1	73	461	7	18	1	37	2
BCD44405	.8	3	93	363	7	13	1	33	1
BCD44406	.3	1	38	222	1	13	1	51	5
BCD44407	.6	1	26	225	19	5	1	54	2
BCD44408	.4	1	29	108	1	7	1	49	1
BCD44409	.8	1	40	150	1	10	1	34	2
BCD44410	.9	9	43	151	6	15	1	14	3

DEC 10 1991

HOLE NUMBER: TM 91-23

ASSAY SHEET

DATE: 6-October-1992

Sample	From (m)	To (m)	Length (m)	ASSAYS		GEOCHEMICAL								Au g/t	Au oz/t	COMMENTS
				Ag ppm	As ppm	Ba ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Au ppb				
BCD21286	6.10	8.39	2.29	0.7	28	542	112	16	14	1	25	38				
BCD21287	8.39	10.68	2.29	0.6	17	826	280	9	14	1	19	2				
BCD21288	10.68	13.68	3.00	0.2	6	1196	193	5	16	1	30	1				
BCD21289	13.68	16.68	3.00	0.6	6	71	211	3	15	1	23	1				
BCD21290	16.68	19.68	3.00	0.8	6	148	412	7	16	1	21	3				
BCD21291	19.68	22.66	2.98	0.9	7	284	382	11	27	1	20	5				
BCD21292	22.66	23.40	0.74	1.2	5	313	751	20	19	1	26	6				
BCD21293	23.40	25.90	2.50	0.7	3	390	386	6	45	1	46	3				
BCD21294	25.90	27.40	1.50	0.2	1	528	443	1	15	1	44	71				
BCD21295	27.40	30.20	2.80	1	11	236	218	5	10	1	8	15				
BCD21296	30.20	33.20	3.00	0.9	10	34	157	9	10	1	15	6				
BCD21297	33.20	36.20	3.00	0.8	7	24	118	3	10	1	11	12				
BCD21298	36.20	39.64	3.44	1.1	13	26	163	11	9	1	6	3				
BCD21299	39.64	42.64	3.00	0.2	1	113	348	2	13	1	39	4				
BCD21300	42.64	46.80	4.16	0.9	9	34	534	26	13	1	13	40				
BCD21301	46.80	49.80	3.00	0.8	2	116	313	2	17	1	77	5				
BCD21302	49.80	51.40	1.60	0.4	4	44	200	3	18	1	26	2				
BCD21303	51.40	54.40	3.00	0.3	2	21	438	2	6	1	35	4				
BCD21304	54.40	56.39	1.99	0.4	1	272	271	7	9	1	35	7				
BCD21305	56.39	60.90	4.51	0.7	8	365	153	6	18	1	33	4				
BCD21306	60.90	63.90	3.00	0.7	4	1298	29	2	30	1	58	2				
BCD21307	63.90	66.90	3.00	0.7	1	635	24	2	32	1	50	2				
BCD21308	66.90	69.90	3.00	0.8	4	1822	23	2	36	1	58	1				
BCD21309	69.90	72.30	2.40	1	18	374	23	3	62	1	75	1				
BCD21310	72.30	75.30	3.00	0.8	1	478	21	2	29	1	55	3				
BCD21311	75.30	78.30	3.00	0.8	8	413	20	2	33	1	50	2				
BCD21312	78.30	81.30	3.00	0.7	13	1940	18	2	36	1	55	3				
BCD21313	81.30	84.30	3.00	0.5	1	248	18	1	28	1	74	5				
BCD21314	84.30	87.30	3.00	0.7	4	1270	18	1	36	1	68	2				
BCD21315	87.30	90.30	3.00	0.7	2	318	23	2	29	1	56	2				
BCD21316	90.30	93.51	3.21	1	14	525	37	5	28	1	54	8				
BCD21317	93.51	94.19	0.68	0.5	16	581	189	7	18	1	63	5				
BCD21318	94.19	97.19	3.00	0.3	1	35	250	1	13	1	61	4				
BCD21319	97.19	100.19	3.00	0.6	1	68	802	5	14	1	41	11				
BCD21320	100.19	103.19	3.00	0.8	1	71	172	2	13	1	36	2				
BCD21321	103.19	106.19	3.00	0.4	1	25	717	3	6	1	42	3				
BCD21322	106.19	109.20	3.01	0.5	1	19	347	5	14	1	37	2				
BCD21323	109.20	112.20	3.00	0.3	1	28	147	1	9	1	47	1				

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ASSAY SHEET

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ASSAY SHEET

DATE: 6-October-1992

Sample	From (m)	To (m)	Length (m)	Ag ppm	As ppm	Ba ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Au ppb	Au g/t	Au oz/t
BCD21324	112.20	115.20	3.00	1.1	6	53	343	10	16	1	28	2		
BCD21325	115.20	118.20	3.00	0.6	6	178	113	5	15	1	19	1		
BCD44401	118.20	121.20	3.00	0.7	6	143	329	9	14	1	24	3		
BCD44402	121.20	124.20	3.00	0.7	1	60	338	30	18	1	45	13		
BCD44403	124.20	127.20	3.00	0.5	1	117	380	4	20	1	57	39		
BCD44404	127.20	130.20	3.00	0.9	1	73	461	7	18	1	37	2		
BCD44405	130.20	133.20	3.00	0.8	3	93	363	7	13	1	33	1		
BCD44406	133.20	136.20	3.00	0.3	1	38	222	1	13	1	51	5		
BCD44407	136.20	139.20	3.00	0.6	1	26	225	19	5	1	54	2		
BCD44408	139.20	142.20	3.00	0.4	1	29	108	1	7	1	49	1		
BCD44409	142.20	145.20	3.00	0.8	1	40	150	1	10	1	34	2		
BCD44410	145.20	148.44	3.24	0.9	9	43	151	6	15	1	14	3		

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