DIAMOND DRILLING REPORT

GOLD HILL PROPERTY

KAMLOOPS MINING DIVISION, 92P/8E

Lat: 51°24'N Long: 120°06'W

Owner/ Operator
Minnova Inc
4th Floor 311 Water St.
Vancouver, B.C.

Shelley Lear, Don Blackadar
January 29, 1989

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INTRODUCTION

General

Minnova Inc is the owner of 24 claim units in the Barriere area of the Kamloops Mining Division known as the Gold Hill property. This report summarizes the results of a diamond drill programme carried out during May and June, 1988.

Location and Access (Figure 1)

The claims are located 25 km north of Barriere, which lies 65 km north of Kamloops, B.C.

Access is via the Dunn Lake road from Barriere to the south end of Dunn Lake. From there, a 4-wheel drive road provides access onto the property.

Physiography

The Gold Hill property lies in the Dunn Creek valley and on the steep slopes north and south of the creek. Elevations range from 450 to 900 m. Slopes are heavily forested but have not been logged due to the steep terrain.

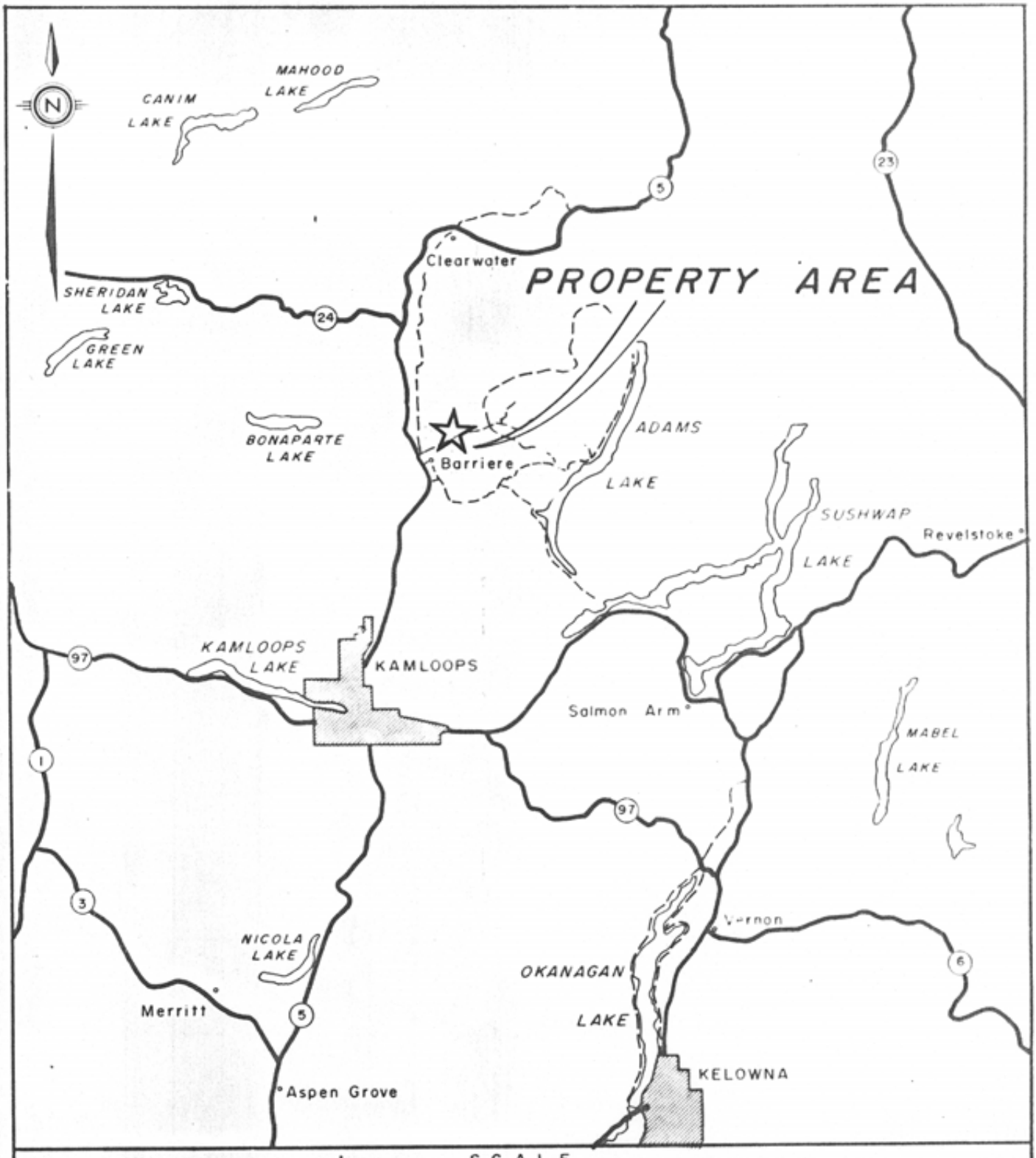
Property and Ownership

The claims are 100% owned and operated by Minnova Inc. The property consists of 4 claim blocks totalling 24 units. Pertinent data are summarized in Table 1. Claim configuration is shown in Figure 2.

Table 1

CLAIM STATUS

Claim	Record No.	Units	Expiry Date
Dixie	4238	6	Nov 12, 1993
Dixie #2	6856	6	Nov 21, 1993
Dixie #3	6857	4	Nov 21, 1993
Dixie 5	7465	8	Jan 15, 1989



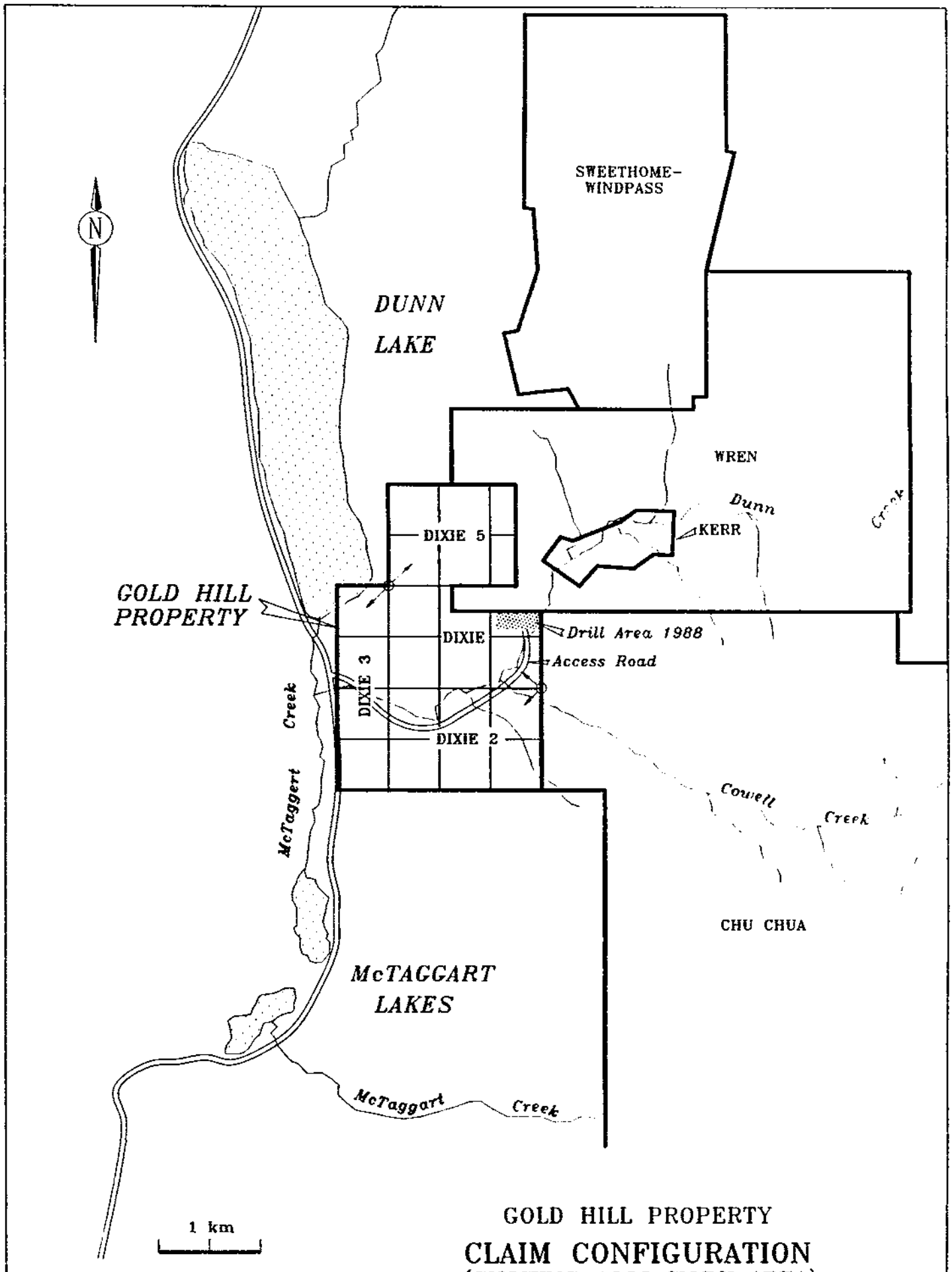
GOLD HILL PROPERTY

- LOCATION MAP -

JANUARY 1989

MINNOVA

FIGURE 1



GOLD HILL PROPERTY

CLAIM CONFIGURATION
(SHOWING 1988 WORK AREA)

MINNOVA Inc.

FILE: D:\OWG\GEOGH

NTS 92P/8E GE/sg JAN.1989 FIGURE 2

History

During the later 1920's H. Skoning and M. Fennell developed a series of drifts. The quartz vein and wallrock was transported to the creek where they crushed it and panned the free gold out. Over two dozen trenches and eight adits with over 300m of drifting exist on the property.

In 1935, 11 short holes were drilled on the vein systems. No results are available. Since then very little work is reported.

Late in 1986, Minnova made an agreement with M. Fennell to acquire the Dixie claim. The Dixie 2,3 and 5 claims were subsequently staked by Minnova around the main Dixie claim.

During 1987 Minnova conducted an exploration programme of surface geological mapping combined with underground mapping and sampling of the old adits. A 1 km long road was constructed to provide better access.

Work Done

A diamond drill programme consisting of 839.4 m in six holes was completed during May and June, 1988. Drill holes were designed to test down-dip extensions of gold-bearing quartz veins exposed at surface. A Longyear 38 surface rig modified for shallow angle holes was used. The contractor was Tonto Drilling.
All core is NQ size and is currently stored at Minnova's warehouse in Barriere.

DRILL RESULTS

Six holes were drilled from 3 locations. Table 2 summarizes the program. Hole locations are shown on Figure 3.

Table 2

DRILLING RESULT SUMMARY

Hole No.	Line	Station	Azimuth	Dip	Length(m)
GH-1	3+50W	0+00N	340°	-40°	141.1
GH-2	3+50W	0+00N	340°	-20°	43.3
GH-3	2+75W	0+70S	360°	-40°	266.7
GH-4	2+75W	0+70S	360°	-15°	42.67
GH-5	2+75W	0+70S	360°	-20°	157.58
GH-6	2+00W	0+80S	360°	-15°	188.06
				Total	839.4m

Hole GH-1 intersected a 12m wide (drilled length) fault zone with quartz veining and minor sulphides (pyrite, galena, chalcopyrite). This zone occurs at the contact between Mafic Diorite and Fennell Basalt. GH-2 also encountered strong alteration and veining at the contact. This hole was abandoned at 43.3 m due to excessive caving.

GH-3 and 5 have an altered zone at the Diorite-Basalt contact, although the intensity and width of the zone decreases at depth. Hole GH-4 intersected old workings at 42.67 m and was abandoned. A second (lower) shear zone in GH-5 is 30 m wide (drilled width) and contains strongly altered basalt with minor quartz veining and sulphides. The down-dip extension of this zone in GH-3 consists of moderately broken basalt with minor silicification and occasional thin quartz veinlets. The upper shear/quartz zone intersected by these holes is equivalent to Vein #2 which is exposed in Adit 7. The best gold values to date on the property were obtained from samples in this adit. One value of 40 gm/T over 30-50 cm and several 2000 to 7000 ppb Au were returned during the 1987 programme. Results from drill holes (maximum 650 ppb Au) did not duplicate these values.

GH-6 was located further south than proposed due to steep and unstable surface conditions. A 4 m wide shear zone with altered basalt, quartz veins and minor galena, sphalerite and pyrite was encountered. This correlates with shear zones on surface, although it is much narrower than anticipated. A gold value of 2900 ppb was obtained from a 0.45 m long sample of a galena-bearing quartz vein.

Lithogeochemistry

A total of 102 drill core samples were collected. Samples of diorite, unaltered and altered basalt were analyzed for Al_2O_3, Ba, CaO, Fe_2O_3, K_2O, MgO, MnO_2, Na_2O, SiO_2, Sr, TiO_2, Ag, As, Cu, Pb, Sb, Zn, Au. Samples of quartz veins or highly silicified rock were analyzed for Ag, As, Cu, Pb, Sb, Zn, Au only. Analysis was done by Min-En Labs of North Vancouver. A standard fusion process with ICP finish was used for the majors. Au was determined by wet geochemical method and other traces by aqua-regia digestion with and ICP finish.

Gold values are highest in the quartz veins, ranging from 5 to 2900 ppb with a mean of 310 ppb.

As expected, gold values from unaltered basalt are low ranging from 5 to 70 ppb. Only one sample occurs above 15 ppb.

In the altered basalts gold ranges from 5 to 650 ppb with 23% of samples above 75 ppb. Anomalous values are summarized below:

Hole No.	From(m)	To(m)	Au ppb	Ag ppm	Rock type
GH-2	37.2	38.7	545	0.4	Alt.Basalt
GH-4	32.75	33.15	685	7.9	Qtz vein, ga,cpy
GH-6	63.4	63.65	450	17.8	Qtz vein, ga,sph Sb = 56 ppm
GH-6	63.65	66.1	650	1.5	Silic. basalt w/ qtz veins
GH-6	152.55	153.0	2900	3.2	Qtz vein, py,ga

A comparison of oxides for altered and unaltered basalts (Appendix 2) indicates no pronounced differences. Al_2O_3 is slightly lower in the altered basalts with a range of 7-15% compared to 12-16% in unaltered sections. K_2O and CaO are slightly enriched in the altered basalts. SiO_2 values are unchanged indicating no widespread silicification, although the altered basalts have stronger quartz veining.

CONCLUSIONS and RECOMMENDATIONS

The drill programme showed that alteration zones continue at depth, although they are narrower than on surface.

Gold values are slightly elevated, but lower than values from the adits.

Future exploration work should include mapping and sampling on the Dixie 5 claim north of the present grid. No further drilling on the grid area is recommended at this time.

APPENDIX I

ITEMIZED COST STATEMENT

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Diamond Drilling	
Tonto Drilling Ltd.	$66,005.99
Road and Drill Pad Construction	
Copper Valley Construction	3,130.00
Ultra Diversified	7,023.25
Analysis	
Min-En Labs	
81 Lithos @ $23.50	1,903.50
15 Geochem @ $10.25	153.75
3 Assays @ $46.25	92.50
Salaries - Minnova Personnel	
G. Evans 18 days @ $300/day	5,400.00
S. Lear 17 days @ $300/day	5,100.00
C. Evans 18 days @ $150/day	2,700.00
G. Johnson 2 days @ 150/day	300.00
Room & Board	
55 man-days @ $50/day	2,750.00
Truck Rental	
35 days @ $50/day	1,750.00
Total	$96,308.99

APPENDIX II

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Shelley R. Lear certify that:

1. I am an Exploration Geologist residing at 2393 W. 6th Ave., Vancouver, B.C.
2. I have a BSc in Geology from the University of British Columbia (1981).
3. I have practised my profession since 1981.
4. I personally carried out or supervised the work reported herein.

Dated this 31st day of January, 1989.

Shelley Lear

Shelley R. Lear
Geologist

STATEMENT OF QUALIFICATIONS

I, Donald William Blackadar of 3838 Regent Avenue, North Vancouver, B. C. do hereby certify that:

1. I graduated from the University of Calgary with a B.Sc. in Geology in 1975.

2. I graduated from the University of Alberta with a M.Sc. in Geology in 1981.

3. I have been a professional geologist registered in the Province of Alberta since 1978.

4. I have been employed on a full time basis in my profession since April 1975, except for two years spent at the University of Alberta.

5. I am currently employed as a Project Geologist by Minnova Inc. of 4th floor - 311 Water St., Vancouver, B.C.

6. Work reported in this volume was carried out under my direct supervision.

Date: February 8, 1989

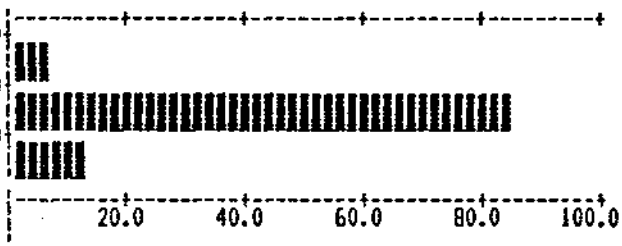
Signature: Don Blackadar

APPENDIX III

LITHOGEOCHEM LISTINGS AND STATISTICS

DATA TITLE : GOLD HILL DDH- LITHOS unaltered basalt

VARIABLE : SIO2



LOWER BOUND INCLUDED	NUMBER OF SAMPLES IN CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
			0.00	40.000
40.000	1	5.56	5.56	45.000
45.000	15	83.33	88.89	50.000
50.000	2	11.11		

PERCENT OF THE TOTAL SAMPLES

VARIABLE:	SIO2
NUMBER OF OBSERVATIONS:	18
MINIMUM:	43.470
MAXIMUM:	50.650
MEAN:	47.413
STANDARD ERROR OF MEAN:	0.385
STANDARD DEVIATION:	1.632
COEFFICIENT OF VARIATION:	3.441
SKEWNESS:	-0.234
KURTOSIS:	0.369

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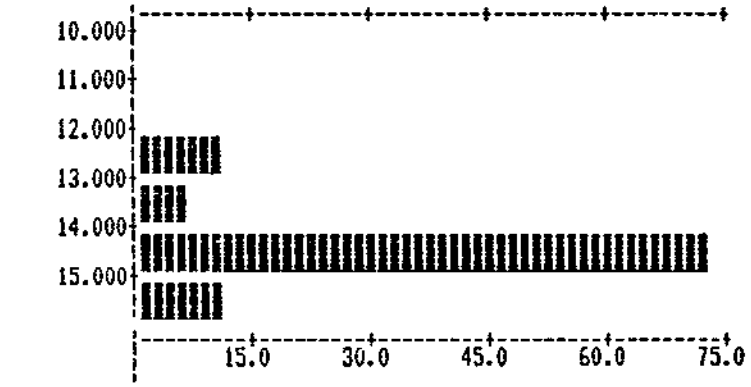
DATA TITLE : GOLD HILL DDH- LITHOS unaltered basalt

VARIABLE : AL203

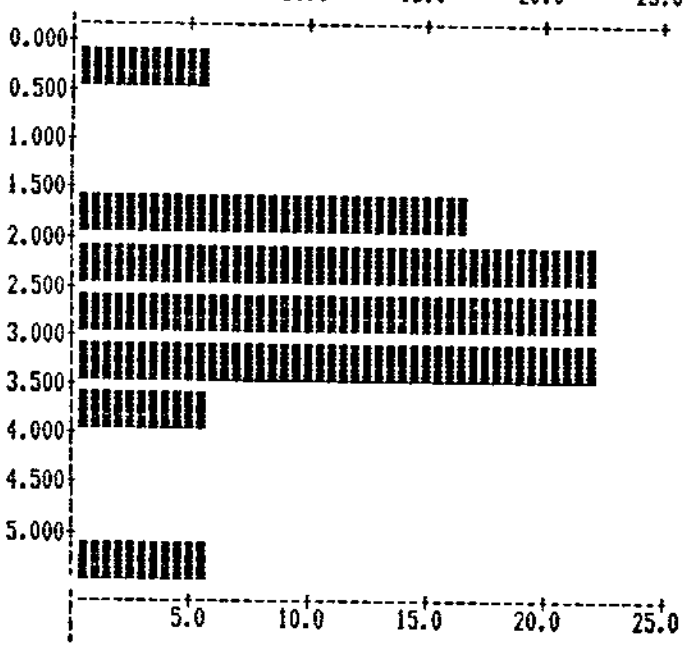


LOWER BOUND INCLUDED	NUMBER OF SAMPLES IN CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
			0.00	10.000
11.000	0	0.00	0.00	11.000
12.000	0	0.00	0.00	12.000
13.000	2	11.11	11.11	13.000
14.000	1	5.56	16.67	14.000
15.000	13	72.22	88.89	15.000
	2	11.11		

VARIABLE:	AL203
NUMBER OF OBSERVATIONS:	18
MINIMUM:	12.050
MAXIMUM:	15.960
MEAN:	14.356
STANDARD ERROR OF MEAN:	0.215
STANDARD DEVIATION:	0.912
COEFFICIENT OF VARIATION:	6.354
SKEWNESS:	-0.834
KURTOSIS:	0.749

DATA TITLE : GOLD HILL DDH- LITHOS unaltered basalt

VARIABLE : NA2O



LOWER BOUND INCLUDED	NUMBER OF SAMPLES IN CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
			0.00	0.000
0.000	1	5.56	5.56	0.500
0.500	0	0.00	5.56	1.000
1.000	0	0.00	5.56	1.500
1.500	3	16.67	22.22	2.000
2.000	4	22.22	44.44	2.500
2.500	4	22.22	66.67	3.000
3.000	4	22.22	88.89	3.500
3.500	1	5.56	94.44	4.000
4.000	0	0.00	94.44	4.500
4.500	0	0.00	94.44	5.000
5.000	1	5.56		

VARIABLE:	NA2O
NUMBER OF OBSERVATIONS:	18
MINIMUM:	0.290
MAXIMUM:	5.010
MEAN:	2.617
STANDARD ERROR OF MEAN:	0.238
STANDARD DEVIATION:	1.008
COEFFICIENT OF VARIATION:	38.504
SKEWNESS:	0.068
KURTOSIS:	0.616

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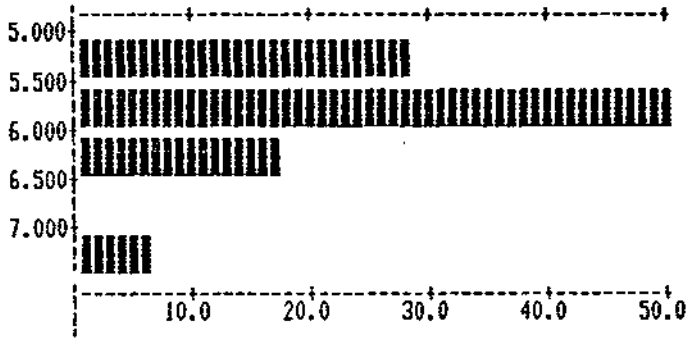
DATA TITLE : GOLD HILL DDH- LITHOS unaltered basalt

VARIABLE : MGO



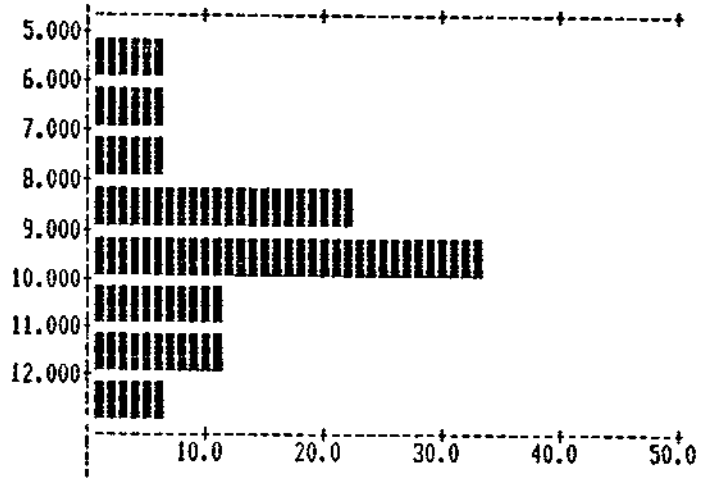
LOWER BOUND INCLUDED	NUMBER OF SAMPLES IN CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
			0.00	5.000
5.000	5	27.78	27.78	5.500
5.500	9	50.00	77.78	6.000
6.000	3	16.67	94.44	6.500
6.500	0	0.00	94.44	7.000
7.000	1	5.56		

VARIABLE:	MGO
NUMBER OF OBSERVATIONS:	18
MINIMUM:	5.030
MAXIMUM:	7.300
MEAN:	5.768
STANDARD ERROR OF MEAN:	0.117
STANDARD DEVIATION:	0.498
COEFFICIENT OF VARIATION:	8.632
SKEWNESS:	1.349
KURTOSIS:	2.507

****

DATA TITLE : GOLD HILL DDH- LITHOS unaltered basalt

VARIABLE : CAO



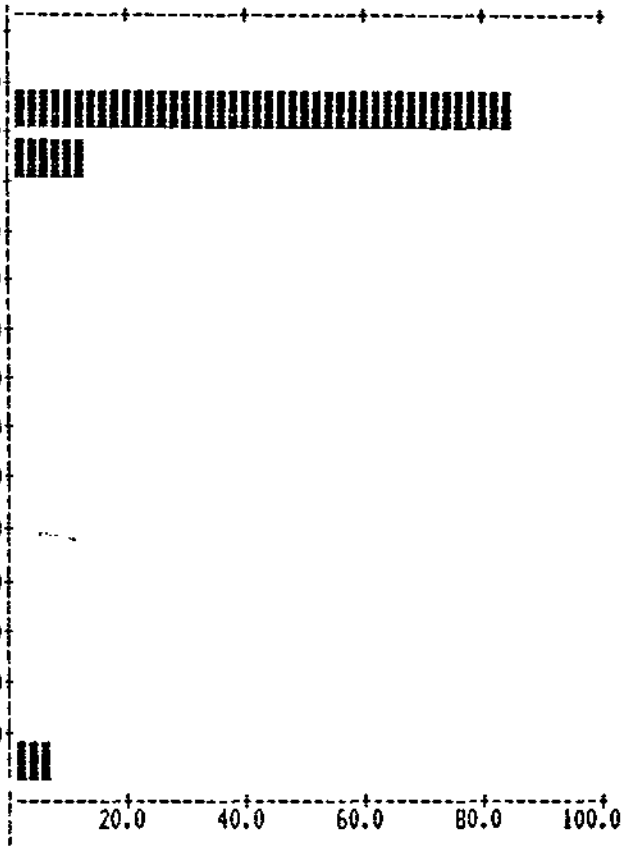
NUMBER OF SAMPLES IN CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
		0.00	5.000
1	5.56	5.56	6.000
1	5.56	11.11	7.000
1	5.56	16.67	8.000
4	22.22	38.89	9.000
6	33.33	72.22	10.000
2	11.11	83.33	11.000
2	11.11	94.44	12.000
1	5.56		

VARIABLE:	CAO
NUMBER OF OBSERVATIONS:	18
MINIMUM:	5.240
MAXIMUM:	12.550
MEAN:	9.256
STANDARD ERROR OF MEAN:	0.408
STANDARD DEVIATION:	1.730
COEFFICIENT OF VARIATION:	18.693
SKEWNESS:	-0.302
KURTOSIS:	0.011

****

DATA TITLE : GOLD HILL DDH- LITHOS unaltered basalt

VARIABLE : AU



LOWER BOUND INCLUDED	NUMBER OF SAMPLES IN CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
			0.00	0.000
5.000	0	0.00	0.00	5.000
10.000	15	83.33	83.33	10.000
15.000	2	11.11	94.44	15.000
20.000	0	0.00	94.44	20.000
25.000	0	0.00	94.44	25.000
30.000	0	0.00	94.44	30.000
35.000	0	0.00	94.44	35.000
40.000	0	0.00	94.44	40.000
45.000	0	0.00	94.44	45.000
50.000	0	0.00	94.44	50.000
55.000	0	0.00	94.44	55.000
60.000	0	0.00	94.44	60.000
65.000	0	0.00	94.44	65.000
70.000	1	5.56		

VARIABLE:	AU
NUMBER OF OBSERVATIONS:	18
MINIMUM:	5.000
MAXIMUM:	70.000
MEAN:	9.167
STANDARD ERROR OF MEAN:	3.599
STANDARD DEVIATION:	15.267
COEFFICIENT OF VARIATION:	166.552
SKEWNESS:	3.498
KURTOSIS:	11.009

##########

Altered Basalt

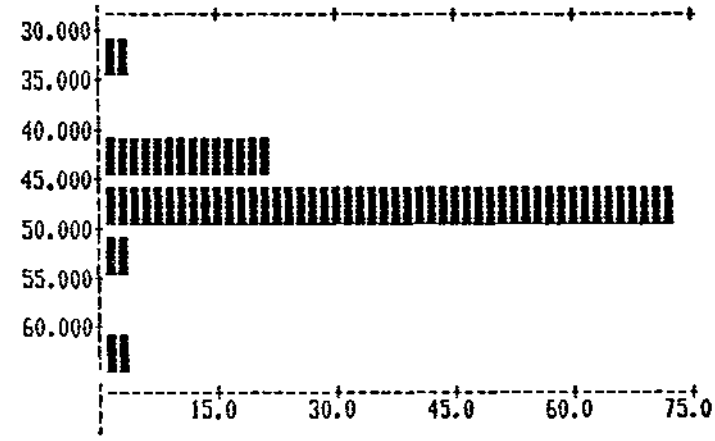
SAMPLE NO.	ROCK	AL2O3	CAO	K2O	MGO	MNO2	NA2O	SIO2	AU	PB	CU
7712	1.6	10.59	14.52	1.01	7.92	0.24	0.15	43.49	130.	34.	100.
7713	1.6	12.64	9.3	1.43	5.7	0.23	0.32	49.4	70.	52.	18.
7715	1.6	13.89	9.82	0.65	6.39	0.3	1.72	44.83	15.	13.	7.
7716	1.6	7.12	24.12	0.71	8.2	0.44	0.35	32.77	10.	17.	2.
7717	1.6	12.93	11.14	1.58	5.26	0.29	1.04	46.24	380.	59.	38.
7718	1.6	13.73	11.73	0.43	6.07	0.27	0.41	45.59	10.	26.	20.
12507	1.6	13.62	7.95	0.71	6.42	0.27	3.22	45.98	45.	28.	15.
BCD12529	1.6	12.98	10.27	1.09	4.56	0.25	3.18	42.17	330.	14.	17.
BCD12530	1.6	15.07	6.8	0.1	6.31	0.24	3.81	47.2	5.	17.	21.
BCD12531	1.6	8.63	11.53	0.01	2.85	0.15	0.05	62.68	5.	35.	56.
BCD12532	1.6	13.76	12.88	1.83	4.37	0.27	0.17	45.57	120.	20.	9.
BCD12533	1.6	14.68	9.06	0.78	5.28	0.24	3.18	45.13	5.	13.	16.
BCD12535	1.6	14.55	10.2	1.86	5.12	0.24	2.36	44.23	10.	12.	19.
BCD12537	1.6	14.85	9.31	0.61	4.55	0.22	2.44	47.53	5.	21.	11.
BCD12540	1.6	15.27	8.46	0.72	6.69	0.24	2.28	46.9	5.	27.	26.
BCD12548	1.6	10.96	9.7	0.62	4.46	0.17	4.77	51.68	125.	320.	43.
BCD12549	1.6	13.3	8.46	2.18	5.87	0.29	2.02	45.93	35.	12.	16.
BCD12550	1.6	13.7	8.55	2.44	6.05	0.26	1.47	45.4	25.	19.	11.
BCD12516	1.6	13.12	8.87	2.49	5.75	0.23	1.27	45.01	10.	13.	7.
BCD12518	1.6	12.95	10.28	1.69	5.6	0.25	2.02	46.01	40.	11.	5.
BCD12519	1.6	14.06	8.18	0.71	5.64	0.24	3.9	45.31	5.	43.	6.
BCD12521	1.6	12.02	11.43	1.94	5.52	0.21	2.6	45.43	60.	6.	4.
BCD12522	1.6	12.61	11.28	1.05	5.34	0.22	4.27	44.33	15.	6.	22.
BCD12524	1.6	10.7	13.38	0.32	5.06	0.22	4.5	42.37	50.	6.	4.
BCD12525	1.6	10.84	11.88	0.22	4.62	0.2	5.29	47.44	150.	7.	2.
BCD11701	1.6	9.38	13.17	0.08	5.22	0.22	4.47	46.02	140.	4.	3.
BCD11704	1.6	13.32	10.11	1.75	5.01	0.23	0.76	43.36	5.	25.	16.
BCD11705	1.6	14.36	8.69	0.4	5.84	0.24	2.02	47.25	5.	14.	10.
BCD11706	1.6	14.9	8.14	0.52	5.05	0.23	1.21	47.43	5.	16.	9.
BCD11708	1.6	13.76	11.21	0.88	5.5	0.25	0.97	45.74	5.	12.	8.
BCD11712	1.6	13.25	8.67	1.6	5.26	0.23	2.86	46.55	55.	9.	26.
BCD11713	1.6	12.97	8.59	1.32	5.4	0.23	3.11	48.13	205.	9.	28.
BCD11715	1.6	13.31	11.71	1.3	5.74	0.25	3.42	43.48	188.	10.	32.
BCD11717	1.6	11.56	11.27	1.35	4.9	0.23	2.92	47.68	650.	52.	49.
BCD11720	1.6	12.	16.7	1.53	2.4	0.24	0.44	46.42	5.	6.	17.
BCD11723	1.6	14.16	9.23	1.36	5.03	0.2	2.03	46.89	5.	29.	50.
BCD11724	1.6	11.83	11.54	0.98	5.32	0.21	1.32	49.09	50.	220.	19.
BCD11726	1.6	12.93	11.81	0.27	6.57	0.23	2.12	44.31	5.	48.	24.
BCD11730	1.6	15.16	6.98	0.4	6.38	0.24	3.35	47.67	10.	9.	45.
BCD11731	1.6	14.49	8.48	0.27	5.99	0.24	2.66	46.83	5.	15.	28.
BCD11732	1.6	14.61	10.78	0.08	5.4	0.23	2.51	46.67	5.	13.	38.
BCD11733	1.6	14.85	10.11	0.07	6.08	0.22	1.95	47.54	5.	6.	37.
BDC11707	1.6								10.	10.	10.

Unaltered basalt

SAMPLE NO.	ROCK	AL2O3	CAO	K2O	MGO	MNO2	NA2O	SIO2	AU	PB	CU
7714	1.	15.96	5.24	0.02	5.49	0.22	2.99	50.65	5.	22.	36.
BCD12536	1.	14.46	9.68	0.51	5.35	0.23	2.32	47.42	10.	176.	41.
BCD12538	1.	14.77	8.18	0.06	6.16	0.24	3.17	48.28	5.	18.	27.
BCD12517	1.	13.55	9.37	1.96	5.86	0.24	0.29	46.76	70.	22.	4.
BCD12523	1.	12.64	11.82	0.93	5.14	0.23	5.01	43.47	5.	4.	12.
BCD11703	1.	14.	9.16	1.37	5.77	0.24	1.78	45.29	10.	14.	4.
BCD11709	1.	14.9	8.99	0.09	5.61	0.25	2.58	47.1	5.	23.	17.
BCD11710	1.	14.12	12.55	0.04	5.67	0.24	1.52	46.62	5.	10.	36.
BCD11711	1.	14.5	9.38	0.06	6.1	0.25	3.8	47.1	5.	10.	39.
BCD11718	1.	15.62	8.54	0.08	6.22	0.24	2.65	46.28	5.	15.	39.
BCD11719	1.	14.81	11.02	0.07	5.86	0.24	2.02	47.86	5.	16.	40.
BCD11721	1.	14.55	10.34	0.03	5.85	0.23	2.2	48.18	5.	13.	42.
BCD11727	1.	14.33	6.71	0.07	7.3	0.2	3.16	48.07	5.	11.	37.
BCD11728	1.	14.48	8.61	0.03	5.67	0.22	2.64	47.68	5.	11.	33.
BCD11729	1.	14.52	9.49	0.07	5.43	0.23	3.17	48.72	5.	13.	42.
BCD11734	1.	12.05	9.96	0.47	5.03	0.21	2.47	47.63	5.	48.	41.
BCD11735	1.	14.57	7.52	0.15	5.67	0.23	3.42	50.07	5.	16.	38.
BCD11736	1.	14.58	10.05	0.23	5.64	0.22	1.92	46.26	5.	12.	42.

DATA TITLE : GOLD HILL DDH- LITHOS altered basalt

VARIABLE : SIO2

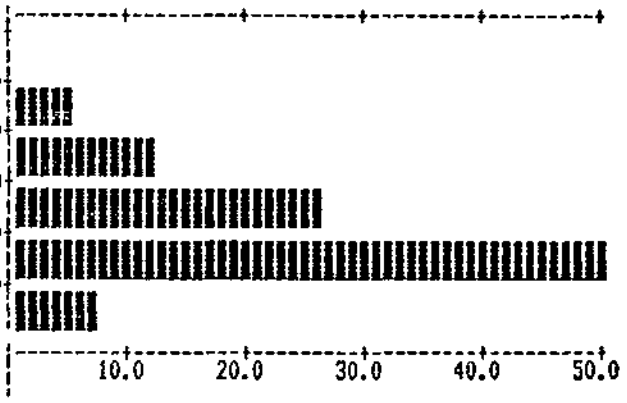


LOWER BOUND INCLUDED	NUMBER OF SAMPLES IN CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
			0.00	30.000
30.000	1	2.38	2.38	35.000
35.000	0	0.00	2.38	40.000
40.000	9	21.43	23.81	45.000
45.000	30	71.43	95.24	50.000
50.000	1	2.38	97.62	55.000
55.000	0	0.00	97.62	60.000
60.000	1	2.38		

VARIABLE:	SIO2
NUMBER OF OBSERVATIONS:	42
MINIMUM:	32.770
MAXIMUM:	62.680
MEAN:	46.197
STANDARD ERROR OF MEAN:	0.585
STANDARD DEVIATION:	3.788
COEFFICIENT OF VARIATION:	8.200
SKEWNESS:	0.921
KURTOSIS:	9.497

DATA TITLE : GOLD HILL DDH- LITHOS altered basalt

VARIABLE : AL203



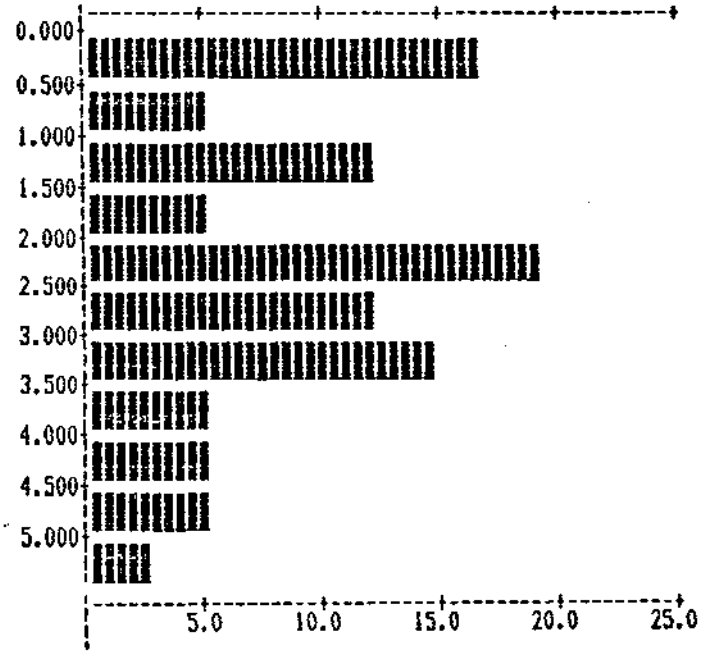
LOWER BOUND INCLUDED	NUMBER OF SAMPLES IN CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
			0.00	5.000
7.000	0	0.00	0.00	7.000
9.000	2	4.76	4.76	9.000
11.000	5	11.90	16.67	11.000
13.000	11	26.19	42.86	13.000
15.000	21	50.00	92.86	15.000
	3	7.14		

VARIABLE:	AL203
NUMBER OF OBSERVATIONS:	42
MINIMUM:	7.120
MAXIMUM:	15.270
MEAN:	12.986
STANDARD ERROR OF MEAN:	0.280
STANDARD DEVIATION:	1.815
COEFFICIENT OF VARIATION:	13.975
SKEWNESS:	-1.218
KURTOSIS:	1.304

****

DATA TITLE : GOLD HILL DDH- LITHOS altered basalt

VARIABLE : NA2O



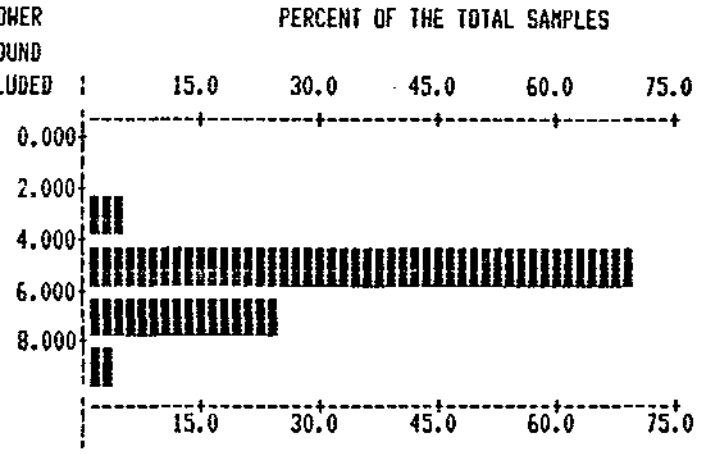
LOWER BOUND INCLUDED	NUMBER OF SAMPLES IN CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
			0.00	0.000
0.000	7	16.67	16.67	0.500
0.500	2	4.76	21.43	1.000
1.000	5	11.90	33.33	1.500
1.500	2	4.76	38.10	2.000
2.000	8	19.05	57.14	2.500
2.500	5	11.90	69.05	3.000
3.000	6	14.29	83.33	3.500
3.500	2	4.76	88.10	4.000
4.000	2	4.76	92.86	4.500
4.500	2	4.76	97.62	5.000
5.000	1	2.38		

VARIABLE:	NA2O
NUMBER OF OBSERVATIONS:	42
MINIMUM:	0.050
MAXIMUM:	5.230
MEAN:	2.260
STANDARD ERROR OF MEAN:	0.214
STANDARD DEVIATION:	1.388
COEFFICIENT OF VARIATION:	61.442
SKEWNESS:	0.192
KURTOSIS:	-0.853

****

ITLE : GOLD HILL DDH- LITHOS altered basalts

VARIABLE : MGO



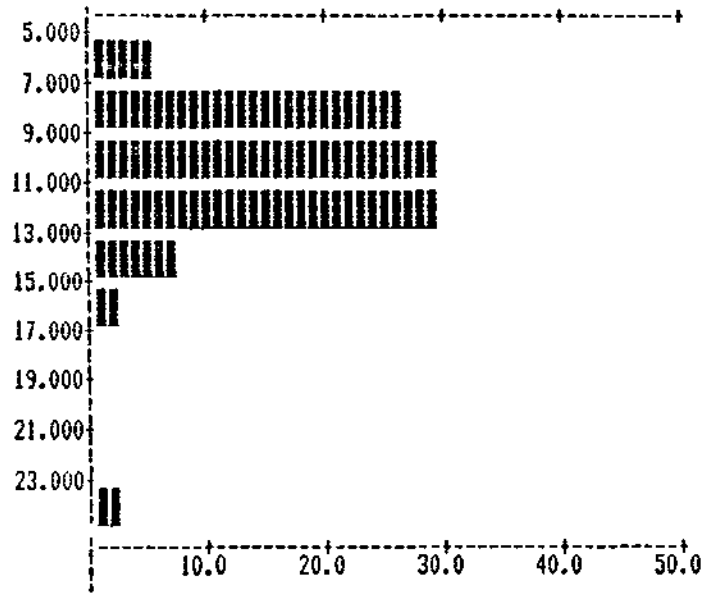
LOWER BOUND INCLUDED	NUMBER OF SAMPLES IN CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
			0.00	0.000
0.000	0	0.00	0.00	2.000
2.000	2	4.76	4.76	4.000
4.000	29	69.05	73.81	6.000
6.000	10	23.81	97.62	8.000
8.000	1	2.38		

VARIABLE:	MGO
NUMBER OF OBSERVATIONS:	42
MINIMUM:	2.400
MAXIMUM:	8.200
-	5.493
..ARD ERROR OF MEAN:	0.159
STANDARD DEVIATION:	1.032
COEFFICIENT OF VARIATION:	18.786
SKEWNESS:	-0.279
KURTOSIS:	2.044

****

DATA TITLE : GOLD HILL DDH- LITHOS altered basalt

VARIABLE : CAO

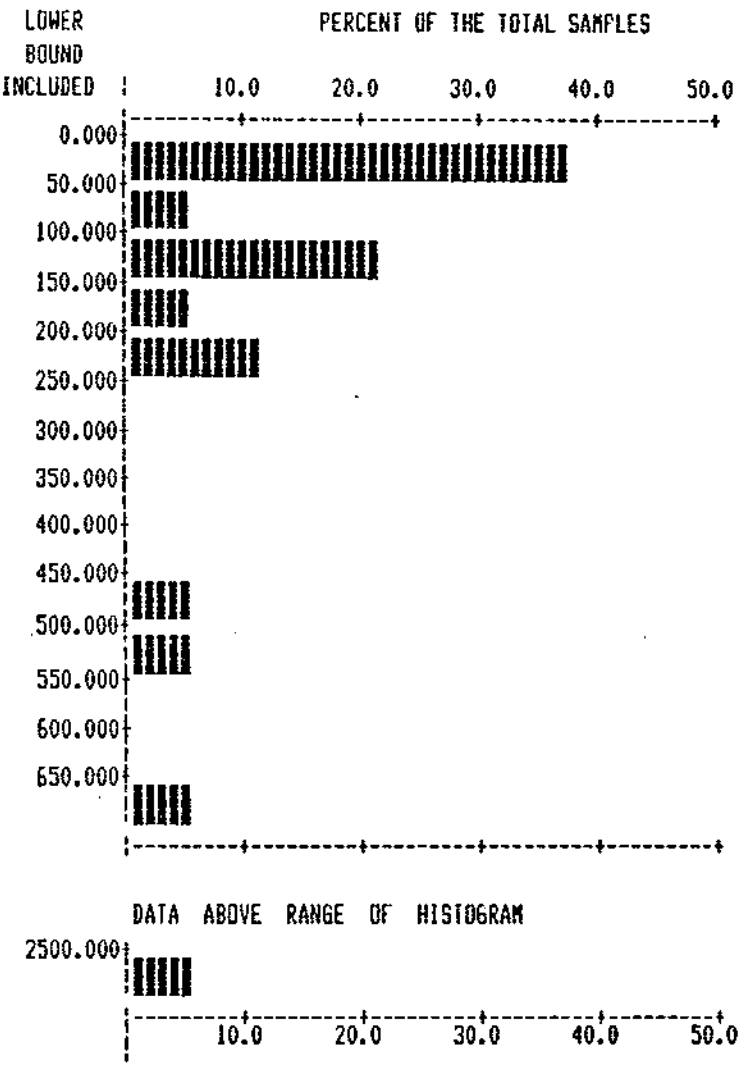


LOWER BOUND INCLUDED	NUMBER OF SAMPLES IN CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
			0.00	5.000
5.000	2	4.76	4.76	7.000
7.000	11	26.19	30.95	3.000
9.000	12	28.57	59.52	11.000
11.000	12	28.57	88.10	13.000
13.000	3	7.14	95.24	15.000
15.000	1	2.38	97.62	17.000
17.000	0	0.00	97.62	19.000
19.000	0	0.00	97.62	21.000
21.000	0	0.00	97.62	23.000
23.000	1	2.38		

VARIABLE:	CAO
NUMBER OF OBSERVATIONS:	42
MINIMUM:	6.800
MAXIMUM:	24.120
MEAN:	10.626
STANDARD ERROR OF MEAN:	0.453
STANDARD DEVIATION:	2.935
COEFFICIENT OF VARIATION:	27.619
SKEWNESS:	2.415
KURTOSIS:	8.411

DATA TITLE : GOLD HILL DDH- LITHOS Quartz veins

VARIABLE : AU



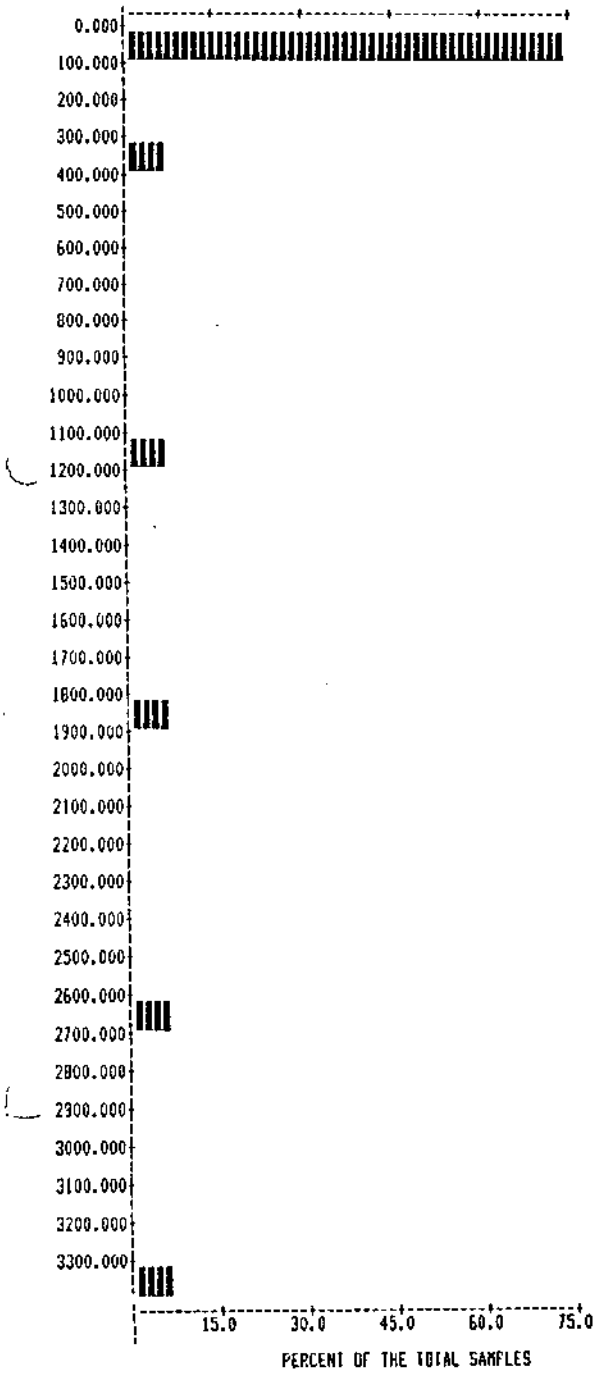
LOWER BOUND INCLUDED	NUMBER OF SAMPLES IN CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
0.000			0.00	0.000
50.000	7	36.84	36.84	50.000
100.000	1	5.26	42.11	100.000
150.000	4	21.05	63.16	150.000
200.000	1	5.26	68.42	200.000
250.000	2	10.53	78.95	250.000
300.000	0	0.00	78.95	300.000
350.000	0	0.00	78.95	350.000
400.000	0	0.00	78.95	400.000
450.000	0	0.00	78.95	450.000
500.000	1	5.26	84.21	500.000
550.000	1	5.26	89.47	550.000
600.000	0	0.00	89.47	600.000
650.000	0	0.00	89.47	650.000
DATA ABOVE RANGE OF HISTOGRAM				
2500.000	1	5.26	94.74	2500.000

VARIABLE:	AU
NUMBER OF OBSERVATIONS:	19
MINIMUM:	5.000
MAXIMUM:	2900.000
MEAN:	310.526
STANDARD ERROR OF MEAN:	150.364
STANDARD DEVIATION:	655.419
COEFFICIENT OF VARIATION:	211.067
SKEWNESS:	3.219
KURTOSIS:	9.846

****

DATA TITLE : GOLD HILL DDH- LITHOS Quartz veins

VARIABLE : PB

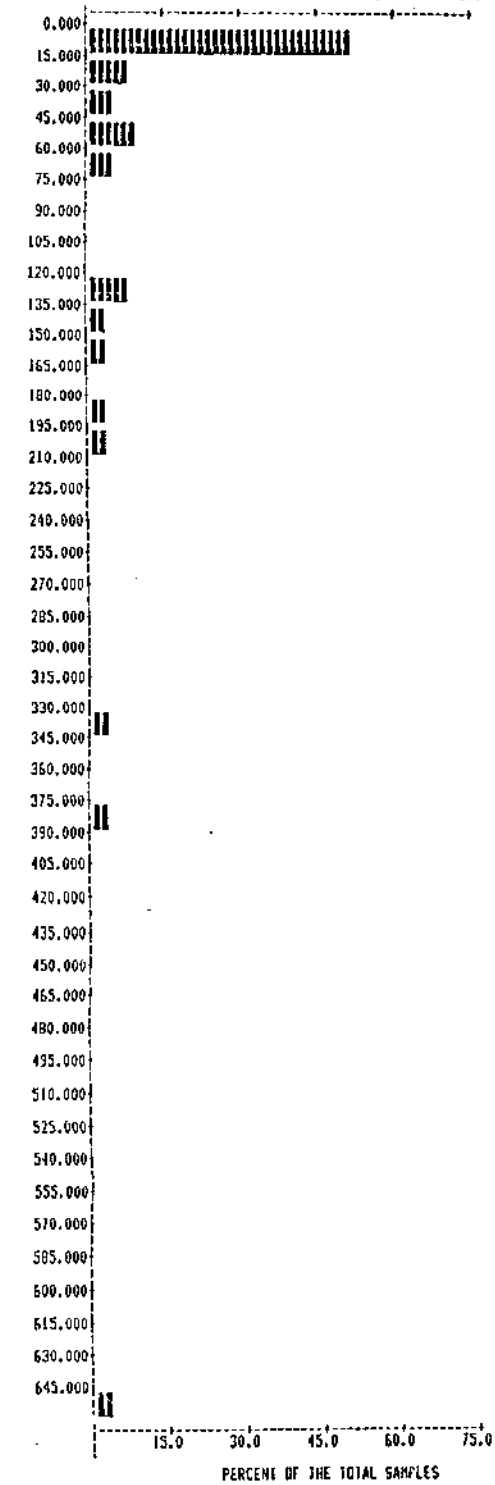


LOWER BOUND INCLUDED	NUMBER OF SAMPLES IN CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
			0.00	0.000
100.000	14	73.68	73.68	100.000
200.000	0	0.00	73.68	200.000
300.000	0	0.00	73.68	300.000
400.000	1	5.26	78.95	400.000
500.000	0	0.00	78.95	500.000
600.000	0	0.00	78.95	600.000
700.000	0	0.00	78.95	700.000
800.000	0	0.00	78.95	800.000
900.000	0	0.00	78.95	900.000
1000.000	0	0.00	78.95	1000.000
1100.000	0	0.00	78.95	1100.000
1200.000	1	5.26	84.21	1200.000
1300.000	0	0.00	84.21	1300.000
1400.000	0	0.00	84.21	1400.000
1500.000	0	0.00	84.21	1500.000
1600.000	0	0.00	84.21	1600.000
1700.000	0	0.00	84.21	1700.000
1800.000	0	0.00	84.21	1800.000
1900.000	1	5.26	89.47	1900.000
2000.000	0	0.00	89.47	2000.000
2100.000	0	0.00	89.47	2100.000
2200.000	0	0.00	89.47	2200.000
2300.000	0	0.00	89.47	2300.000
2400.000	0	0.00	89.47	2400.000
2500.000	0	0.00	89.47	2500.000
2600.000	0	0.00	89.47	2600.000
2700.000	1	5.26	94.74	2700.000
2800.000	0	0.00	94.74	2800.000
2900.000	0	0.00	94.74	2900.000
3000.000	0	0.00	94.74	3000.000
3100.000	0	0.00	94.74	3100.000
3200.000	0	0.00	94.74	3200.000
3300.000	0	0.00	94.74	3300.000
	1	5.26		

VARIABLE:	PB
NUMBER OF OBSERVATIONS:	19
MINIMUM:	5.000
MAXIMUM:	3308.000
MEAN:	504.368
STANDARD ERROR OF MEAN:	229.224
STANDARD DEVIATION:	999.163
COEFFICIENT OF VARIATION:	198.102
SKEWNESS:	1.757

DATA TITLE : GOLD HILL DDH- LITHOS altered basalt

VARIABLE : AU



LOWER BOUND INCLUDED	NUMBER OF SAMPLES IN CATEGORY	PERCENTAGE OF THE TOTAL SAMPLES	CUMULATIVE PERCENT BELOW LOWER BOUND	LOWER BOUND
0.000			0.00	0.000
15.000	22	51.16	51.16	15.000
30.000	3	6.98	58.14	30.000
45.000	2	4.65	62.79	45.000
60.000	4	9.30	72.09	60.000
75.000	2	4.65	76.74	75.000
90.000	0	0.00	76.74	90.000
105.000	0	0.00	76.74	105.000
120.000	0	0.00	76.74	120.000
135.000	3	6.98	83.72	135.000
150.000	1	2.33	86.05	150.000
165.000	1	2.33	88.37	165.000
180.000	0	0.00	88.37	180.000
195.000	1	2.33	90.70	195.000
210.000	1	2.33	93.02	210.000
225.000	0	0.00	93.02	225.000
240.000	0	0.00	93.02	240.000
255.000	0	0.00	93.02	255.000
270.000	0	0.00	93.02	270.000
285.000	0	0.00	93.02	285.000
300.000	0	0.00	93.02	300.000
315.000	0	0.00	93.02	315.000
330.000	0	0.00	93.02	330.000
345.000	1	2.33	95.35	345.000
360.000	0	0.00	95.35	360.000
375.000	0	0.00	95.35	375.000
390.000	1	2.33	97.67	390.000
405.000	0	0.00	97.67	405.000
420.000	0	0.00	97.67	420.000
435.000	0	0.00	97.67	435.000
450.000	0	0.00	97.67	450.000
465.000	0	0.00	97.67	465.000
480.000	0	0.00	97.67	480.000
495.000	0	0.00	97.67	495.000
510.000	0	0.00	97.67	510.000
525.000	0	0.00	97.67	525.000
540.000	0	0.00	97.67	540.000
555.000	0	0.00	97.67	555.000
570.000	0	0.00	97.67	570.000
585.000	0	0.00	97.67	585.000
600.000	0	0.00	97.67	600.000
615.000	0	0.00	97.67	615.000
630.000	0	0.00	97.67	630.000
645.000	1	2.33		645.000

VARIABLE:	AU
NUMBER OF OBSERVATIONS:	43
MINIMUM:	5.000
MAXIMUM:	650.000
MEAN:	70.186
STANDARD ERROR OF MEAN:	19.027
STANDARD DEVIATION:	124.763
COEFFICIENT OF VARIATION:	177.768
SKEWNESS:	2.830
KURTOSIS:	9.264

APPENDIX IV

DRILL LOGS

MINNOVA INC.

HOLE NUMBER: GH-01 DRILL HOLE RECORD IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GOLD HILL
PROJECT NUMBER: 227
CLAIM NUMBER:
LOCATION:

PLOTTING COORDS GRID:
NORTH: 0.00
EAST: 350.00W
ELEV: 890.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -40° 0' 0"
LENGTH OF THE HOLE: 141.10m
START DEPTH: 0.00m
FINAL DEPTH: 141.10m

COLLAR GRID AZIMUTH: 340° 0' 0"
COLLAR ASTRONOMIC AZIMUTH: 340° 0' 0"

DATE STARTED: May 22, 1988
DATE COMPLETED: May 23, 1988
DATE LOGGED: May 24, 1988

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

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

CONTRACTOR: TONTO
CASING: 3.4M
CORE STORAGE: BARRIERE

PURPOSE: TO TEST THE MAIN VEIN #1 SYSTEM.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
45.72	-	-41° 0'	ACID	OK		-	-	-	-	-	
140.21	-	-41° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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MINNOVA INC.

HOLE NUMBER: GH-01 — DRILL HOLE RECORD — DATE: 20-July-1988

FROM / TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.40	CASING <OB>					Casing
3.40 TO 85.40	MAFIC DIORITE - PYROXENITE GABBRO <M DIOR>	Colour - dark green. Grain Size - medium grained. - Massive medium grained porphyry - Mafic groundmass +/- plag grains - Generally moderately magnetic - Occasional grains drawn out along fabric - Grain size from coarse fine grained - coarse medium grained. - Normally a mafic Diorite - Gabbro with mafic hornblende-pyroxene? groundmass with serpentine.		<Chl, serp>	<Tr py, po>	
				3.4 - 54.0 - Serp + Chl on fracture with avg. 1-2% Qtz-Carb veinlets with interstit carb - 1-2% 3-5mm Qtz veinlets (white - light blue) - zones with 5% light wispy green silicification with chl bands	3.4 - 47.4 Occasional py blebs in quartz veinlets 20-40 degrees to CA, 1% dissem. pyrn.	3.4 - 6.2 Weak fault with broken rock 30-40 degrees to CA
						9.7 - 13.4 <FLT> Moderate fault with clay gouge.
						27.6 - 29.6 Weak fault with broken rock 30 degrees to CA.
					47.4 - 49.9 Avg. 1% disseminated pyrite.	47.4 - 49.9 <FLT> Strong fault with clay-serp gouge. Ang. frags of quartz vein.
				54.0 - 69.8 Quartz-carb veinlets 2%. Quartz veinlets 5-10%. Serp-Chl in faults.	49.9 - 69.9 Zones with 2-5% very fine grained dissem. pyrr. with 1% fine grained disseminated py, occasional cpy bleb in quartz veinlets.	
				69.8 - 85.4 Chl altered with minor serp 3-4% Quartz veinlets with minor qtz-carb veinlets.	69.9 - 71.3 1% disseminated pyrite, trace pyrr 71.3 - 85.4 1% fine grained disseminated py or pyrr?	69.9 - 71.3 <FLT> Strong fault with clay gouge and QV chips 30-40%. 78.4 - 79.3 Fault zone with clay gouge.
85.40 TO 97.00	FAULT ZONE WITH QTZ VEINS <FLT +> <QTZ VNS>	Colour - light green. Grain Size - medium grained - aphanitic. Badly broken ground.			<Tr py, ga, <py>	
		85.4 - 87.9 Strong fault with clay gouge and occasional QV frag. ang. (Maf. Dio.).		85.4 - 87.9 10% QV chips.		
		87.9 - 90.0 Strong fault with silicified rock (Maf. Dio.).		87.9 - 90.0 Silicified with qtz veinlets + green mica 1-2%.	87.9 - 90.0 1% disseminated pyrite.	

FROM / TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		90.0 - 91.0 QV with wallrock silicification, badly broken. QV white. 91.0 - 92.3 Altered + badly faulted Mafic Dio. 92.3 - 94.5 92.3 Fennell Basalt Contact, strongly broken. Light green Fennell Basalt. 94.5 - 97.0 Intense fault zone with 90% clay gouge.		90.0 - 91.0 QV with silicification + minor green mica. 92.3 - 94.5 Strongly silicified. 94.5 - 97.0 Strong clay alteration, some black gouge, shear @ 40 degrees to CA, some QV chips.	90.0 - 91.0 1-2% coarse Ga blebs, tr cpy blebs, 2-3% py blebs. 92.3 - 94.5 1% disseminated pyrite. 94.5 - 97.0 Trace disseminated pyrite.	{92.3} <Fennell Contact>
97.00 TO 141.10	VARIOLITIC BASALT <BSLT>	Colour - light green. Grain Size - fine grained. - Fennell Variolitic Basalt. Generally fine grained massive matrix with zones of light coloured variolites.	97.0 - 97.7 Weak bleaching. 97.7 - 107.9 Avg. 2-3% qtz-carb veinlets. 107.9 - 111.5 Very weak bleaching turns rock a light brown colour. 111.5 - 116.4 Silicified zone with bleaching around 20-30%. Qtz veinlets with some vein bx @ 20-40 degrees to CA. (Possibly a healed fault?) 116.4 - 141.1 1% Qtz veinlets except 129.6 - 131.6 Small quartz vein with bleaching 10 degrees to CA.	<Tr py> 97.0 - 111.5 Trace disseminated pyrite with occas. disseminations in qtz veinlets. 111.5 - 116.4 Avg. 3-5% pyrite as veinlets with QV and in fractures. 116.4 - 141.1 Trace disseminated pyrite.	97.0 - 99.4 Weak fault with broken rock. 117.0 - 121.0 Weak fault with broken rock.

HOLE NUMBER: GH-01 | ASSAY SHEET | DATE: 19-July-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	COMMENTS
7703	87.90	90.00	2.10	.014	.02	.01	3.2	.20								
7710	90.00	91.00	1.00	.028	.02	.23	5.7	.67								

HOLE NUMBER: GH-01 GEOCHEM. SHEET DATE: 20-July-1988

Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	SIO2 %	SR %	TIO2 %	ZR %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
7701	6.50	9.50	3.00	6.04	.005	4.56	15.00	.01	20.43	.20	.01	44.45	.02	.70	.005		91.41	1.4	32	3	117	52	1	59	5
7702	31.70	34.80	3.10	6.31	.005	6.88	14.17	.01	19.04	.28	.01	41.71	.02	.75	.005		89.18	1.2	44	4	017	9	1	56	10
7703	47.40	48.50	1.10	6.20	.005	3.86	14.34	.01	22.81	.28	.01	41.72	.02	.69	.005		89.93	1.5	41	4	104	4	1	45	5
7704	48.50	49.90	1.40	6.31	.008	3.67	15.57	.01	22.72	.29	.01	40.91	.01	.74	.005		90.24	1.1	50	7	50	5	4	43	5
7705	59.10	62.20	3.10	6.00	.005	4.22	15.23	.01	22.86	.35	.01	40.58	.02	.71	.005		89.98	.8	36	2	86	6	1	48	5
7707	65.50	67.50	2.00	6.16	.005	3.47	16.33	.01	22.13	.26	.01	41.90	.02	.69	.005		90.97	.7	57	2	135	10	1	41	5
7706	69.90	71.30	1.40	5.83	.005	9.28	13.50	.01	17.92	.32	.01	40.69	.03	.66	.005		88.21	1.4	45	2	75	7	6	45	5
7711	91.00	92.30	1.30	6.82	.006	15.84	12.19	.27	13.88	.30	.01	36.49	.08	377	.006		86.64	2.6	102	9	68	69	35	130	110
7712	92.30	94.50	2.20	10.59	.031	14.52	9.11	1.01	7.92	.24	.15	43.49	.06	1.33	.009		88.44	2.1	39	19	100	34	13	105	130
7713	94.50	97.00	2.50	12.64	.046	9.30	10.60	1.43	5.70	.23	.32	49.40	.03	1.49	.010		91.19	1.7	43	42	18	52	6	71	70
7714	101.80	104.80	3.00	15.96	.012	5.14	10.80	.02	5.49	.22	2.99	50.65	.03	1.76	.011		93.21	.7	1	35	36	22	2	74	5
7715	111.50	113.00	1.50	13.89	.032	9.82	11.52	.65	6.39	.30	1.72	44.83	.03	1.50	.010		90.69	1.2	1	57	7	19	1	71	15
7716	113.00	114.50	1.50	7.12	.033	24.12	10.92	.71	8.20	.44	.35	32.77	.03	.71	.006		85.40	1.1	4	50	2	17	1	36	10
7717	114.50	116.40	1.90	12.93	.047	11.14	9.92	1.58	5.26	.29	1.04	46.24	.03	1.47	.010		89.97	1.7	34	91	38	59	5	83	380
7718	132.30	135.30	3.00	13.73	.012	11.73	11.61	.43	6.07	.27	.41	45.59	.02	1.51	.011		91.40	1.0	10	21	20	26	3	61	10

MINNOVA INC.

HOLE NUMBER: GH-02 DRILL HOLE RECORD IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GOLD HILL	PLOTTING COORDS GRID:	ALTERNATE COORDS GRID:	COLLAR DIP: -20° 0' 0"
PROJECT NUMBER: 227	NORTH:	NORTH: 0+ 0N	LENGTH OF THE HOLE: 43.30m
CLAIM NUMBER: DIXIE	EAST: 350.00E	EAST: 3+50E	START DEPTH: 0.00m
LOCATION:	ELEV: 890.00	ELEV: 890.00	FINAL DEPTH: 43.30m

COLLAR GRID AZIMUTH: 340° 0' 0" COLLAR ASTRONOMIC AZIMUTH: 340° 0' 0"

DATE STARTED: May 23, 1988	COLLAR SURVEY: NO	PULSE EM SURVEY: NO	CONTRACTOR: TONTO
DATE COMPLETED: May 25, 1988	MULTISHOT SURVEY: NO	PLUGGED: NO	CASING: PULLED
DATE LOGGED: May 27, 1988	RQD LOG: NO	HOLE SIZE: NQ	CORE STORAGE: BARRIERE

PURPOSE: ABANDONNED DUE TO CAVING.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
31.70	-	-19° 0'	ACID			-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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MINNOVA INC.

HOLE NUMBER: GH-02 — DRILL HOLE RECORD — DATE: 19-July-1988

FROM / TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 / TO / 5.80	CASING <OB>					
5.80 / TO / 29.10	GABBRO DIORITE <M DIOR>	Colour - green - black. Grain Size - medium grained.		<carb - serp>	<1-2% po-py>	
				Weak carb-serp (talc).	1-2% po-py	
		5.8 - 9.75 Dark, massive, medium grained gabbro. Moderate carbonate. Weakly to moderately magnetic. Numerous fine veinlets with carb-qtz-serp (talc).				
		9.75 - 11.58 Fault gouge. Mainly mud with minor quartz vein.				{9.75 - 11.58} <FLT>
		11.58 - 22.5 Increasing patchy and veinlet controlled light coloured serpentine. In places almost looks like fragments. Usually they contact euhedral pyroxene remnants or pseudomorphs.				BCD 12501, 12502 taken to test this patching. More to take if they kick!
		22.5 - 28.8 Back to medium grained gabbro-diorite without light patches. Still numerous carb-qtz veins & veinlets.		28.6 - 28.8 Carb-green mica bleaching.	1% po-py. 28.6 - 28.8 2% py, poss. tr sp.	
		28.8 - 29.1 Fault gouge.	25			{28.8 - 29.1} <FLT>
29.10 / TO / 43.00	FENNELL BASALT <SSLT>	Colour - light grey - green. Grain Size - fine grained. Broken but non-foliated basalt with abundant dark (chloritic?) fractures and qtz-carb veins. Locally weakly variolitic. Becomes increasingly broken with depth. Hole eventually lost due to caving. Unable to tricone through.		First metre or so is strongly bleached and veined. Elsewhere varies from weak to moderate (carb). Veinlets can occur without significant alteration.	<2-3% py, tr ga, cpy> 29.1 - 29.25 Semi-massive pyrite vein. Otherwise 2-3% fine pyrite in veinlets. Occasional trace ga, cp. Poss. tet. No concentrations but well distributed throughout zone.	

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	COMMENTS
12512	6.70	9.70	3.00						125	54	14	1.4	5	43	2	
12513	25.00	28.00	3.00						87	56	7	.8	5	21	2	
12503	28.60	30.10	1.50						23	93	21	.3	125	236	6	
12504	30.10	31.10	1.00						301	88	16	.5	5	1	3	
12505	31.10	32.60	1.50						12	72	18	.4	125	17	3	
12506	32.60	34.10	1.50						20	86	23	.4	40	44	4	
12514	35.70	37.20	1.50						39	76	18	.3	35	52	7	
12509	37.20	38.70	1.50						18	94	19	.4	545	97	11	
12510	38.70	40.20	1.50						23	95	19	.4	160	27	13	
12511	40.20	43.30	3.10						59	96	22	1.3	210	49	21	

Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	SIO2 %	SR %	TIO2 %	ZR %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
12512	6.70	9.70	3.00	7.24	.005	5.54	14.70	.01	19.80	.24	.01	41.74	.02	.87	.006		90.17	1.4	43	2	125	14	2	54	5
12501	17.30	18.70	1.40	6.31	.005	9.77	11.84	.01	15.55	.37	.01	44.57	.02	.74	.005		89.20	.9	24	3	109	21	2	52	5
12502	19.10	20.60	1.50	7.48	.005	7.93	13.83	.01	16.83	.39	.01	42.05	.02	.82	.005		89.35	1.3	33	6	150	16	3	63	10
12513	25.00	28.00	3.00	7.23	.005	8.02	13.64	.01	16.39	.28	.01	41.98	.02	.81	.005		88.89	.8	21	5	87	7	2	56	5
12507	34.10	35.70	1.60	13.62	.027	7.95	10.87	.71	6.42	.27	3.22	45.98	.04	1.66	.011		90.78	1.2	29	36	15	28	3	75	45

MINNOVA INC.

HOLE NUMBER: GH-03 | DRILL HOLE RECORD | IMPERIAL UNITS: | METRIC UNITS: X

PROJECT NAME: GOLD HILL
PROJECT NUMBER: 227
CLAIM NUMBER:
LOCATION: BARRIERE

PLOTTING COORDS GRID:
NORTH: 70.00S
EAST: 275.00W
ELEV: 794.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -40° 0' 0"
LENGTH OF THE HOLE: 266.70m
START DEPTH: 0.00m
FINAL DEPTH: 266.70m

COLLAR GRID AZIMUTH: 360° 0' 0"
COLLAR ASTRONOMIC AZIMUTH: 360° 0' 0"

DATE STARTED: May 26, 1988
DATE COMPLETED: May 29, 1988
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

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

CONTRACTOR: TONTO DRILLING
CASING: 3.04M
CORE STORAGE: BARRIERE

PURPOSE: TO TEST VEIN SYSTEM.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
76.20	-	-41° 0'	ACID	OK		-	-	-	-	-	
143.26	-	-41° 0'	ACID	OK		-	-	-	-	-	
168.66	-	-42° 0'	ACID	OK		-	-	-	-	-	
210.00	-	-43° 0'	ACID	OK		-	-	-	-	-	
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FROM / TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 / TO / 3.05	CASING <OB>					
3.05 / TO / 72.90	MAFIC DIORITE-PYROXENITE <M DIOR>	Colour - dark grey-green. Grain Size - medium grained. Mafic Diorite - pyroxenite. - anhedral-subhedral white F.S. porph. - groundmass of dark grey to green px-hbl. - relatively homogeneous. Local minor variations in grain size - serp/chlorite on fractures/groundmass throughout		<carb. serp-chl>	<1-5% po,py>	
				3.05 - 25.75 Thin calcite-qtz veinlets at 30 degrees Serp/chlorite on fractures.	3.05 - 7.0 2-5% pyrrhotite. Possibly with magnetite.	3.05 - 16.5 Moderate to very broken core.
						6.1 - 7.32 Poor, 40% recovery.
						21.3 - 21.45 Minor fault. Clay gouge with qtz vein.
				21.35 - 21.40 White qtz vein in fault zone.		
						21.65 - 21.75 Minor Fault. Broken core, clay.
						21.95 - 22.02 <FLT> Minor Fault, clay gouge.
				22.6 - 22.8 5cm wide, light green clay? bands. At 50 degrees to C.A. Offset by later fractures.		
				25.75 - 45.95 2-5% calc/qtz/chl veins. Concentrated in broken/gouge zones. Veins at 60-90 degrees to C. A. Thin, light green clay filled fractures at 0-30 degrees to C.A.		Broken zones with calc/qtz veins, minor gouge: 27.6 - 28.0 33.4 - 33.7 36.2 - 36.53 36.78 - 36.88 42.5 - 43.4 43.2 - 43.86 44.95 - 45.1
		45.95 - 52.8 Light grey altered diorite. - 10-20% interstitial calcite. Py partially altered to light brown mineral. Bleached appearance. - 10-30% chl/serp alteration of groundmass.		45.95 - 52.8 Moderately, pervasive carb. alteration. Thin calcite veinlets.	51.5 1-2mm wide fine grained pyrite infilling fracture with calcite. 52.1 - 52.5 Trace pyrite on fractures.	52.1 - 52.5 Weak Fault - broken core.
		52.8 - 64.8 - Light brown pyroxene? 1-2mm.		52.8 - 72.9 Thin calc/qtz veinlets.	52.8 - 64.8 Trace py/po, very fine.	

FROM / TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		- dark green chl/serp matrix.		Occasional grey clay-filled fractures.		
				58.7		
				20cm long calcite zone.		
		64.8 - 72.9		68.4		
		F.S. increases up to 30%. Altered to light green		16cm long white quartz vein. Tr py.		
		in places. Up to 4mm; gives spotted appearance.				72.8 - 72.9 <FLT>
		FAULT CONTACT				
72.90	HORNFELS			<qtz-carb>	<Tr py, po, cpy>	
TO	BASALT	Colour - light brown to dark grey.				
76.29	<ALT BSLT>	Grain Size - fine - aphanitic.				
		Intensely altered basalts.		Strong qtz-carb veining.	Trace py, po, very trace cpy.	
		Occasional remnant variolith visible.			- concentrated in qtz veins.	
		Upper contact broken over 10cm.				
				73.1 - 73.45		
				White qtz vein, tr calc. Occasional		
				frags of wall rock.		
76.29	CHLORITE				<Tr - 2% py/po>	
TO	ALT. FENNEL	Colour - medium grey-green.				
88.85	BASALT	Grain Size - fine.				
	<CHL BSLT>	- Occasional relict variolith.		- Occasional qtz-carb veining assoc.	Trace - 2% py, po often at selvages of	
		- 10% dark green - black chlorite? seams.		with sulphides.	qtz veins and on fractures.	79.2 - 79.6
		Irregular & discont. Possibly formed by cooling		- Chl-serp on fractures.		Broken core.
		and cracking at top of flow.				
88.85	VARIOLITIC			<chl, qtz vns>	<Tr py/po>	
TO	BASALT	Colour - medium green to brown.				
206.70	<BSLT>	Grain Size - fine.				
		Variolitic green basalt.		Chlorite on fractures.	Trace py/po.	Broken zones:
		Varioles - light brown, 2-5mm		- occasional thin qtz veins	Sulphides in qtz veins + fractures.	89.6 - 90.2
		- zones of fine grained brown basalt with chlorite				96.2 - 96.7
		seams		102.05 - 102.6		117.2 - 118.3
		- Intra pillow breccia in places.		Moderately bleached zone.		121.4 - 121.3
						125.0 - 125.2
				113.0 - 120.2 <Alt. Bslt.>	113.0 - 120-.2	
				Strong alteration.	Trace - 2% py/po.	
				Light brown colour.		
				2-5% qtz-carb veins.		
				117.3 - 119.5		
				Intense qtz veining.		
				121.8 - 122.9		
				Qtz veining in bleached basalt.		

FROM / TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				125.5 - 126 Bleached basalt. Calc/qtz veinlets.	125.5 - 126 2-5% py.	
		128.94 - 130.2 Medium grained porphyritic basalt. F.S.? porphs- light green to white. Contacts sharp at 50 degrees to C.A.				
						{146.98 - 148.4} <FLT> Fault zone. Broken core with chl fractures.
						149.7 - 150.2 Broken core.
						{150.8 - 151.72} <FLT> Broken core. Minor fault.
						154.2 - 155 Moderately broken core.
				{155.6 - 157.65} <Alt. Bslt.> Moderately bleached zone. Light brown. 1 10cm wide qtz vein.		
		158.92 - 165.2 Medium grained porphyritic basalt. White FS porph and 1-2mm long needles of dark green px?				
		166.3 - 168.4 10% black chl? seams in fine grained light grey matrix.				
				176.03 Green mica in qtz vein.		
				179.12 Green mica with pyrrh. in qtz vein.		
				190.15 - 190.65 5% qtz-calc veins. Tr. py.		Broken zones: 180.1 - 180.35 185.9 - 186.3 187.5 - 187.9 199.6 - 200.0
				202.18 - 202.8 Qtz flooding, minor calcite. Some gouge. Tr py.		

HOLE NUMBER: GH-03 | ASSAY SHEET | DATE: 20-July-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	COMMENTS
12539	202.20	202.80	0.60						4	54	12	1.2	90	37	4	

HOLE NUMBER: GH-03

GEOCHEM. SHEET

DATE: 20-July-1988

Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	SIO2 %	SR %	TIO2 %	ZR %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
12526	19.00	22.00	3.00	7.76	.010	5.32	16.02	.08	16.98	.30	.19	41.96	.04	.87	.013	.15	89.7	2.2	15	6	11	15	4	59	5
12527	47.00	50.00	3.00	12.20	.010	7.63	14.12	.08	12.20	.29	.05	39.76	.01	1.29	.017	.01	89.70	2.2	15	6	11	15	4	59	5
12529	68.00	71.00	3.00	12.39	.025	10.91	11.52	.69	8.24	.29	.78	42.54	.02	1.46	.007	.61	89.48	.8	9	38	12	24	5	138	5
12529	73.50	76.30	2.80	12.98	.040	10.27	11.33	1.09	4.56	.24	3.18	42.17	.04	1.21	.016	.83	87.97	1.7	25	63	17	14	3	87	330
12530	82.60	85.00	3.00	15.07	.017	6.80	11.74	.10	6.31	.24	3.81	47.20	.02	1.49	.010	.13	92.94	3.6	33	30	21	17	5	104	5
12531	102.00	102.60	0.60	8.63	.005	11.53	5.12	.01	2.85	.15	.05	62.68	.01	.64	.005	.08	91.74	2.6	51	13	56	36	5	39	5
12532	113.00	116.00	3.00	13.76	.048	12.88	9.23	1.83	4.37	.27	.17	45.57	.02	1.43	.007	.75	90.33	.7	37	48	2	20	5	64	120
12533	116.00	117.30	1.30	14.68	.026	9.06	10.24	.78	5.28	.24	3.18	45.13	.03	1.43	.007	.29	90.39	1.0	21	28	16	13	4	78	5
12534	117.30	119.50	2.20																						
12535	125.50	126.00	0.50	14.55	.035	10.20	9.91	1.86	5.12	.24	2.36	44.23	.03	1.25	.007	.92	90.83	1.2	18	37	19	12	3	67	10
12536	135.00	138.00	3.00	14.46	.017	9.68	9.91	.51	5.35	.23	2.32	47.42	.02	1.36	.006	.44	91.73	2.7	27	60	41	176	5	105	10
12537	155.60	157.60	2.00	14.85	.020	9.31	9.75	.61	4.55	.22	2.44	47.53	.02	1.45	.007	.31	91.06	.5	34	17	11	21	6	67	5
12538	176.00	179.00	3.00	14.77	.012	8.18	10.15	.06	6.16	.24	3.17	48.28	.02	1.41	.007	.17	92.63	2.9	32	20	27	18	5	65	5
12540	206.00	209.00	3.00	15.27	.024	8.46	10.52	.72	6.69	.24	2.28	46.90	.02	1.40	.007	.15	92.69	3.4	31	31	26	27	6	74	5
11729	212.00	215.00	3.00	14.52	.005	9.49	9.57	.07	5.43	.23	3.17	48.72	.01	1.31	.009	.17	92.72	1.8	1	13	42	13	1	64	5
11730	220.00	223.00	3.00	15.16	.027	6.98	10.52	.40	6.38	.24	3.35	47.67	.02	1.43	.010	.13	92.33	1.2	29	45	45	9	3	81	10
11731	223.00	226.00	3.00	14.49	.031	8.48	11.20	.27	5.99	.24	2.66	46.83	.01	1.39	.010	.19	91.80	1.4	38	29	28	15	5	68	5
11732	230.00	233.00	3.00	14.61	.006	10.78	10.17	.08	5.40	.23	2.51	46.67	.01	1.26	.010	.14	91.90	1.7	2	11	38	13	4	68	5
11733	239.00	242.00	3.00	14.85	.006	10.11	9.72	.07	6.08	.22	1.95	47.54	.01	1.31	.009	.12	92.00	1.3	30	22	37	6	4	68	5
11734	244.60	245.97	1.37	12.05	.025	9.96	8.04	.47	5.03	.21	2.47	47.63	.01	1.1	.007	.05	87.06	.7	6	22	41	48	3	95	5
11735	249.00	252.00	3.00	14.57	.011	7.52	9.40	.15	5.67	.23	3.42	50.07	.02	1.26	.009	.18	92.50	1.3	1	19	38	16	4	74	5
11736	260.00	263.00	3.00	14.58	.010	10.05	10.69	.23	5.34	.22	1.92	46.26	.02	1.24	.010	.10	90.98	1.3	6	17	42	12	4	63	5

MINNOVA INC.
DRILL HOLE RECORD

HOLE NUMBER: GH-04 IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GOLD HILL
PROJECT NUMBER: 227
CLAIM NUMBER:
LOCATION: BARRIERE

PLOTTING COORDS GRID:
NORTH: 70.00S
EAST: 275.00W
ELEV: 794.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -15° 0' 0"
LENGTH OF THE HOLE: 42.67m
START DEPTH: 0.00m
FINAL DEPTH: 42.67m

COLLAR GRID AZIMUTH: 360° 0' 0" COLLAR ASTRONOMIC AZIMUTH: 360° 0' 0"

DATE STARTED: May 30, 1988
DATE COMPLETED: May 31, 1988
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

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

CONTRACTOR: TONTO DRILLING
CASING: 3.04M
CORE STORAGE: BARRIERE

PURPOSE: HIT OLD WORKINGS AT 44.5M - ABANDONED.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
32.61	-	-14° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.04	CASING <OB>					
3.04 TO 42.67	DIORITE GABBRO <M DIOR>	Colour - dark grey. Grain Size - medium grained. - white to light green F.S. phenos up to 2mm - matrix is fine grained pyroxene? chl/serp on fractures - broken sections common - finer grained, darker sections are magnetic due to disseminated pyrrh.		<caro, chl/serp>	<Tr - 2% po/py>	
				- 2-5% qtz-calc veining; especially in broken sections - chl/serp on fractures	Tr - 1% po/py as fine grained disseminations - also on fractures + qtz veins.	
					3.04 - 10.5 Tr - 2% pyrrh. Moderately magnetic.	
						7.4 - 8.2 <FLT> Broken core. Py/qtz on fractures. Minor clay gouge.
						10.45 - 16.3 <FLT> Fault zone. Broken core, minor gouge.
		16.3 - 28.3 5-20% calcite-rimmed FS? phenos. 0.5-3mm wide.		16.3 - 28.3 2-5% calc-qtz veins occasionally up to 5cm wide.		22.8 - 24.4 Minor fault. Moderate broken core.
		28.3 - 42.67 30-60% white to light brown FS? phenos. Sub-rounded, 1-3mm wide.		28.3 - 39.25 Thin QV mostly at 60-80 degrees to CA.		
				32.75 - 33.15 White qtz vein.	32.75 - 33.15 <Tr ga, cpy> 2% py, tr ga, cpy.	
				39.25 - 42.67 Qtz-calc veining up to 20%. Increases towards end of hole.	39.25 - 39.40 5% py as fine grained blebs in qtz-calc veins.	
					39.40 - 42.67 Tr - 2% py, concentrated on fractures.	39.80 - 42.67 <FLT> Moderate to well broken core with qtz veining. Poor recovery, approx. 50%.
		Hole intersected old workings at 42.67m. Abandoned at 44.5m and re-started at -20 degrees.				

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	COMMENTS
12543	32.75	33.15	0.40						67	25	303	7.9	685	59	5	
12545	39.25	42.67	3.42						9	101	65	2.4	25	35	3	

HOLE NUMBER: GH-04 GEOCHEM. SHEET DATE: 20-July-1988

Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	SIO2 %	SR %	TIO2 %	ZR %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
12541	5.00	8.00	3.00	7.08	.005	4.30	15.75	.01	20.28	.28	.06	40.72	.02	.81	.005	.19	89.5	2.1	16	5	48	8	4	54	5
12542	17.00	20.00	3.00	7.58	.005	5.93	14.60	.01	18.68	.31	.01	41.92	.02	.88	.006	.01	89.95	2.3	56	4	43	13	5	48	5
12544	33.50	36.50	3.00	7.55	.005	7.53	13.42	.01	16.80	.31	.01	41.35	.03	.93	.005	.23	88.15	1.0	23	4	6	8	4	57	10

MINNOVA INC.
DRILL HOLE RECORD

HOLE NUMBER: GH-05 IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GOLD HILL
PROJECT NUMBER: 227
CLAIM NUMBER:
LOCATION: BARRIERE

PLOTTING COORDS GRID:
NORTH: 70.00S
EAST: 275.00W
ELEV: 794.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -20° 0' 0"
LENGTH OF THE HOLE: 157.58m
START DEPTH: 0.00m
FINAL DEPTH: 157.58m

COLLAR GRID AZIMUTH: 360° 0' 0" COLLAR ASTRONOMIC AZIMUTH: 360° 0' 0"

DATE STARTED: May 29, 1998
DATE COMPLETED: 0, 0
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

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

CONTRACTOR: TONTO DRILLING
CASING: 1.5M
CORE STORAGE: BARRIERE

PURPOSE:

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
24.39	-	-21° 0'	ACID	OK		-	-	-	-	-	
85.35	-	-21° 0'	ACID	OK		-	-	-	-	-	
129.84	-	-22° 0'	ACID	OK		-	-	-	-	-	
155.10	-	-23° 0'	ACID	OK		-	-	-	-	-	
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FROM / TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 1.50	CASING <OB>					
1.50 TO 47.00	DIORITE GABBRO <M DIOR>	Colour - dark to light grey. Grain Size - medium grained. - white 0.5-2mm F.S. phenos - fine grained pyroxene?-rich matrix - darker, finer grained varieties often magnetic due to very fine pyrrh. - F.S. often partially calc. altered		<carb, serp/chl> - chl/serp on fractures - thin calcite veins, calc-altered F.S. phenos	<Tr py/po> Tr py/po 2.5 - 8.2 Moderately magnetic. Tr - 2% pyrrh.	[2.5 - 4.0] <FLT> Fault. Broken core. [5.05 - 7.5] <FLT> Fault. Broken core, calc. frags. [12.8 - 18.5] <FLT> Fault. Zones of very broken core, minor gouge, slickensides.
		18.5 - 34.8 Lighter grey diorite. F.S. larger & up to 40%. Calcite rims on F.S. phenos.		18.5 - 34.0 Minor chl on fractures and with calc. veins.		24.5 - 26.0 Minor fault. Moderately broken, some gouge. 32.8 -0 33.3 Moderately broken core.
		34.8 - 47.0 F.S. phenos increase to 40-60%. FAULT CONTACT.		34.8 - 47.0 2-5% thin qtz veins, often with black chl.	34.8 - 47.0 Very trace py with QV.	[46.5 - 47.0] <FLT> Broken core, fault.
47.00 TO 58.80	ALTERED BASALT WITH QV <ALT BSLT> <+ QV>	Colour - light green to brown. Grain Size - fine. - upper contact faulted.		<Qtz vns> 47.0 - 47.65 Qtz vein fragments.	<Tr py, ga, cpy> Trace py, ga, cpy	<FLT> Fault zone, core very broken throughout. Poor recovery in places - 60%.
		47.65 - 50.2 Light brown, silicified basalt.		47.65 - 50.2 10-20% cross-cutting qtz veins.	47.65 - 50.2 Tr - 1% py, especially on fractures. Tr ga/cpy in qtz vein.	
		50.2 - 56.1 Light green, altered basalt. Light brown varioles up to 7mm wide. - chl on fractures		50.2 - 56.1 2% thin qtz veins.	50.2 - 56.1 Very trace py.	
		56.6 - 57.2		56.6 - 57.2	56.6 - 57.2	

HOLE NUMBER: GH-05 DATE: 20-July-1988

FROM / TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		Silicified basalt.		Intense qtz veining, tr calc.	5% py	
		57.3 - 58.8 Light green altered basalt. Chl seams and fracture fillings. - moderately broken core				57.3 - 57.5 Very broken core with qtz frags.
58.80 TO 124.51	VARIOLITIC BASALT <BSLT>	Colour - medium green. Grain Size - fine. - Light brown varioles 2-5mm wide occur in places.		<Chl, qtz-calc> - Chl on fractures and occasionally in groundmass.	<Tr py> Trace pyrite. - Conc. near qtz veins.	
				58.8 - 70.4 Network of thin (1mm) qtz-calc veinlets; 5-10%.		
				66.5 - 67.0 20% qtz-calc veining in fault.	66.5 - 67.0 2% py	66.5 - 67.0 Fault zone, broken core.
				70.4 - 77.5 Chl as thin seams and fracture coating.		72.95 - 73.15 Minor fault. Chl fractures.
				77.5 - 80.6 Light brown, moderately silicified bleached basalt. 10% qtz veins up to 2cm wide.	77.5 - 80.6 2% py, especially in wallrock near quartz veins.	79.4 - 82.9 <FLT> Broken core. FAULT.
				80.6 - 82.9 Chl + calc on fractures in fault zone.	82.1 Trace galena in qtz vein.	
				85.1 - 86.25 Light brown to grey, highly silicified basalt. 20% qtz veins.	85.1 - 86.25 2% py	88.0 - 89.6 Fault zone. Broken core.
				89.6 - 90.2 Light brown altered basalt with 20% qtz veins.		
		93.3 - 97.4 Dark green, fine grained basalt. Occasional medium green varioles.		92.1 - 97.4 2% thin (1mm) qtz-calc veins with chl.		96.5 - 97.5 Minor fault. Broken core.
				99.25 - 99.33 Silicified basalt. Light green.	99.25 - 99.33 Trace pyrite.	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				5% qtz-calc veining.		
				102.8 - 105.1 Occasional epidote with calcite veins.		
				105.4 - 107.4 10% thin calcite veinlets.		
				107.4 - 108.65 Silicified light grey basalt. 10-30% qtz veining. Trace pyrite.		
						109.6 - 112.17 <FLT> Fault zone. Broken core.
				110.0 - 113.15 Bleached and silicified basalt. 20% qtz veining.	110.0 - 113.15 Trace - 1% pyrite. Euhedral pyrite on fractures.	
				117.10 - 124.51 Moderately altered basalt. Light green to brown, 5% qtz veins. Alt. increases near lower contact.		
124.51 TO 133.44	SHEAR ZONE ALT. BASALT + QTZ VEINS <FLT +> <BSLT,QV>	Colour - light brown to green. Grain Size - fine grained. Moderate to highly silicified basalt. Intense Qtz veining. - very broken throughout, some fault gouge.		<qtz vns>	<Tr - 5% py>	
		124.51 - 133.8 Light brown, highly silicified basalt. Pseudo-breccia texture - frags of light brown basalt in grey silicic matrix. Possibly formed by healing of fractured rock.		124.51 - 133.8 Intense qtz veining and flooding - up to 70%.	Trace pyrite. Euhedral pyrite on fractures up to 5% fine pyrite in gouge zones.	133.19 - 138.5 Highly broken core.
				133.8 - 134.4 White, broken qtz vein. Length uncertain as much core lost. Tr py.		
		134.4 - 139.5 Medium green, fine grained basalt.		134.4 - 138.5 5% thin qtz veinlets.		
		139.5 - 139.9 Grey basalt; shattered, cemented by fault gouge.		139.5 - 141.7 2-5% qtz veins.		
		139.9 - 141.7 Fine grained, light grey basalt.				

FROM / TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		141.7 - 153.44 Light green-grey, fine grained, altered basalt. Some broken sections. Most pieces 10-15cm. 152.2 - 153.4 More competent zone. Occasional sections of unaltered basalt. Transition zone to next unit.		141.7 - 153.44 <grn mica> Minor bright green mica; occasionally calcite on fractures.		148.94 - 152.2 Very broken core. 150.5 - 151.6 Fault gouge. Black (Mn?) staining.
153.44 TO 157.58	BASALT <BSLT>	Colour - medium green. Grain Size - fine grained. - 2-5% dark green phenos in fine grained medium green groundmass - 2cm wide chill zones represent pillow margins		Occasional qtz veins, up to 5% near upper contact.	<Tr py/po>	

HOLE NUMBER: GH-05 | ASSAY SHEET | DATE: 22-July-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS CU %	ZN %	PB %	AG gm/T	AU gm/T	GEOCHEMICAL CU PPM	ZN PPM	PB PPM	AG PPM	AU PPB	AS PPM	SB PPM	COMMENTS
12515	56.60	57.30	0.70						1	90	5	1.4	10	29	2	
12520	85.10	86.25	1.15						1	84	94	1.6	200	36	2	
11702	133.80	134.40	0.60						14	26	12	3.9	145	116	3	

HOLE NUMBER: GH-05 GEOCHEM. SHEET DATE: 22-Jul-1988

Sample	From (m)	To (m)	Length (m)	AL2O3 %	BA %	CAO %	FE2O3 %	K2O %	MGO %	MNO2 %	NA2O %	SIO2 %	SR %	TIO2 %	ZR %	S %	TOT %	AG PPM	AS PPM	BA PPM	CU PPM	PB PPM	SB PPM	ZN PPM	AU PPB
12546	7.50	10.50	3.00	7.17	.005	4.20	15.38	.01	20.12	.28	.04	41.73	.02	.87	.005	.21	90.02	1.9	9	4	17	12	4	58	5
12547	41.00	44.00	3.00	7.56	.005	8.24	13.33	.01	15.62	.30	.01	41.72	.03	.95	.005	.10	87.86	.4	18	5	10	15	4	61	5
12548	47.00	50.20	3.20	10.96	.030	9.70	7.37	.62	4.46	.17	4.77	51.68	.04	1.13	.005	.55	91.51	1.6	19	53	45	320	2	92	125
12549	50.20	53.00	2.80	13.30	.065	8.46	10.43	2.18	5.87	.29	2.02	45.93	.03	1.51	.008	.36	90.45	.7	1	80	16	12	3	77	35
12550	53.00	56.60	3.60	13.70	.074	8.525	10.48	2.44	6.05	.26	1.47	45340	.03	1.50	.007	.14	90.10	.7	11	72	11	19	3	91	25
12516	57.30	58.80	1.50	13.12	.057	8.87	10.14	2.49	5.75	.23	1.27	45.01	.03	1.42	.006	.30	88.70	1.0	23	62	7	13	3	86	10
12517	64.00	67.00	3.00	13.55	.067	9.37	10.29	1.96	5.86	.24	.29	46.76	.03	1.41	.007	.48	90.32	1.0	25	86	4	22	5	71	70
12518	77.50	80.60	3.10	12.95	.051	10.28	9.34	1.69	5.60	.25	2.02	46.01	.01	1.35	.005	.72	90.30	1.4	22	48	5	11	3	70	40
12519	80.60	82.90	2.30	14.06	.043	8.18	10.38	.71	5.64	.24	3.90	45.31	.03	1.35	.008	.26	90.12	.9	10	91	6	43	4	81	5
12521	107.40	108.65	1.25	12.02	.044	11.43	8.87	1.94	5.52	.21	2.60	45.43	.04	1.18	.005	.59	89.87	1.3	13	49	4	6	2	82	60
12522	110.00	113.15	3.15	12.61	.021	11.28	8.72	1.05	5.34	.22	4.27	44.33	.05	1.25	.006	.84	89.97	1.2	8	27	22	6	2	89	15
12523	119.00	122.00	3.00	12.64	.022	11.82	8.33	.93	5.14	.23	5.01	43.47	.05	1.24	.006	.35	89.22	9	9	24	12	4	2	107	5
12524	124.50	127.50	3.00	10.70	.018	13.38	9.28	.32	5.06	.22	4.50	42.37	.05	1.04	.007	.86	87.83	.8	19	21	4	6	2	103	50
12525	127.50	130.50	3.00	10.84	.013	11.88	7.63	.22	4.62	.20	5.39	47.44	.01	.97	.005	.69	89.84	1.2	31	11	2	7	1	65	150
11701	130.50	133.80	3.30	9.38	.009	13.17	8.79	.08	5.22	.22	4.47	46.02	.06	.75	.005	.90	89.06	1.1	29	9	3	4	1	95	140
11703	134.40	138.50	4.10	14.00	.045	9.16	10.29	1.37	5.77	.24	1.78	45.29	.04	1.35	.009	.45	89.80	.9	42	52	4	14	5	70	10
11704	138.50	141.50	3.00	13.32	.047	10.11	13.79	1.75	5.01	.23	.76	43.96	.05	1.22	.014	.19	90.46	1.5	40	52	16	25	4	58	5
11705	141.50	144.50	3.00	14.36	.025	8.69	10.08	.40	5.84	.24	2.02	47.25	.05	1.33	.014	.31	90.60	1.1	33	23	10	14	5	71	5
11706	144.50	147.50	3.00	14.90	.029	8.14	11.72	.52	5.05	.23	1.21	47.43	.05	1.35	.014	.48	91.13	1.1	41	34	9	16	6	71	5
11707	147.50	150.50	3.00	13.69	.031	10.18	10.00	.84	5.51	.24	1.21	46.77	.05	1.23	.014	.37	90.14	.8	46	37	10	10	7	64	10
11708	150.50	153.44	2.94	13.76	.038	11.21	9.49	.88	5.50	.25	.97	45.74	.05	1.26	.014	.28	89.44	.9	10	42	8	12	5	61	5
11709	154.00	157.00	3.00	14.90	.012	8.99	10.40	.09	5.61	.23	2.58	47.10	.04	1.35	.013	.09	91.45	2.6	27	15	17	23	7	69	5

MINNOVA INC.
DRILL HOLE RECORD

HOLE NUMBER: GH-06 . IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: GOLD HILL
PROJECT NUMBER: 227
CLAIM NUMBER:
LOCATION: BARRIERE1

PLOTTING COORDS GRID:
NORTH: 80.00S
EAST: 200.00W
ELEV: 761.00

ALTERNATE COORDS GRID:
NORTH: 0+80S
EAST: 2+ 0W
ELEV: 761.00

COLLAR DIP: -15° 0' 0"
LENGTH OF THE HOLE: 188.06m
START DEPTH: 0.00m
FINAL DEPTH: 188.06m

COLLAR GRID AZIMUTH: 360° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 360° 0' 0"

DATE STARTED: June 5, 1988
DATE COMPLETED: June 8, 1988
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

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

CONTRACTOR: TONTO DRILLING
CASING: 11.58M
CORE STORAGE: BARRIERE

PURPOSE: TO TEST SHEAR/VEIN STRUCTURE AT DEPTH.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
24.00	-	-14° 0'	ACID	OK	
52.40	-	-14° 0'	ACID	OK	
75.60	-	-14° 0'	ACID	OK	
105.07	-	-12° 0'	ACID	OK	
131.06	-	-11° 0'	ACID	OK	
167.64	-	-10° 0'	ACID	OK	

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments

Don Blackadar

MINNOVA INC.

HOLE NUMBER: GH-06 — DRILL HOLE RECORD — DATE: 22-July-1988

FROM / TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 11.58	CASING <OB>					
11.58 TO 14.94	BOULDERS <OB>	Chips and altered fragments of diorite, limonitic granite and basalt.				
14.94 TO 166.40	VARIOLITIC BASALT <BSLT>	Colour - medium green to grey. Grain Size - fine grained. - zones of light green varioles; 0.5-2mm wide. - fine grained groundmass with occasional 0.5mm wide black phenos 14.94 - 22.45 2% 1-2mm wide chl seams. Varioles concentrated at dark green chl chill margins marking pillow boundaries.		Occasional 2-3mm wide qtz veins. 24.4 - 24.5 Intense qtz veining. 27.1 - 27.4 Qtz healed fractures. 30.1 3cm wide qtz vein. 34.9 6cm qtz vein with py & green mica. 42.5 - 54.5 Occasional epidote on selvages of qtz veins. 55.8 - 61.0 Light brown altered basalt. Dark green chloritic sections. Qtz veins; 5% up to 4cm wide. Vuggy in places.	<Tr py/po> - pyrite often as fracture coatings 27.2 Tr pyrrh. in qtz vein. 30.45 Tr pyrrh. in qtz vein. 34.75 - 35.1 2% py as fine grained blebs.	26.1 - 26.5 Broken core. 29.6 - 29.95 Minor fault. Broken core & gouge. 30.8 - 32.1 <FLT> Fault. Broken core. 37.6 - 39.0 Moderately broken core. Chl on fractures. 45.3 - 45.9 Minor fault; broken core. 48.2 - 49.0 Minor fault; broken core.

FROM / TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				61.0 - 61.7 <QV> White qtz vein.	61.0 - 61.7 <2% gn, tr sp> 2% galena, trace sphalerite, very trace cpy.	
				61.7 - 63.4 30-50% diss. epidote alteration.		62.3 - 63.8 <FLT> Broken core, fault zone.
				63.4 - 63.65 Qtz vein.	63.4 - 63.65 2% py, trace galena, sphalerite.	
				63.65 - 66.1 Fine grained, light brown, moderately silicified basalt. Qtz veining up to 20%.		
				66.1 - 67.5 Moderately altered basalt, 2% thin qtz veins.		
		69.5 - 74.5 Porphyritic basalt. Fine, 0.5mm dark green pyroxene? phenos.				
				76.85 - 78.6 Light brown altered basalt. Moderately silicified in places. Minor clay gouge associated with qtz veins.		
				79.4 - 80.2 30% qtz veining at 30-40 degrees to CA.		
					82.25 - 87.5 Tr - 2% pyrrh. as fine grained blebs up to 5mm wide.	
				87.5 - 90.5 10% epidote alteration, 5% qtz-calc veins/interstitial alteration. Minor chl alteration.	87.5 - 90.5 2-5% fine grained pyrite.	89.1 - 89.6 Minor fault. Broken core.
					90.5 - 129 Tr - 2% po/py. Pyrrh. confined to fine grained, medium grey sections. Mostly po below 100m. as fine grained blebs up to 10mm long.	
				94.5 - 95.0 Strong chl/calc/qtz/epidote alteration. 2% pyrite.		
				96.1 - 96.45 Chl/calc/qtz/ep alteration as above.		97.4 - 97.8 Minor fault. Broken core, chl on

FROM / TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
						fracture.
		105.3 - 110.0 Occasional faint, 1-3mm long white phenos. F.S.?				
				131.3 - 132.05 Light brown bleached basalt. 5% qtz veins. Minor chl.		
				140.5 - 141.7 5% thin calcite veinlets.		
				141.7 - 143.1 10-20% epidote; 1-2mm long patches. Possibly replacing phenos.		
				144.2 - 145.7 Light brown altered basalt. 10% qtz veining.		144.4 - 145.7 <FLT> Fault zone. Broken core, poor recovery approximately 40%.
					148.5 - 151.0 Tr po as fine grained blebs.	
				152.55 - 153.0 <QV> Intense qtz veining, with altered basalt. Banded white/light green appearance.	152.85 - 153.0 <gn, py> 1% galena; 5% pyrite in qtz vein.	
				154.5 - 163.8 Up to 5% epidote altered at qtz vein selvages.		
				164.1 - 166.4 Light grey-brown alteration. 10-20% thin qtz veins.		
166.40 TO 171.55	SHEAR ZONE ALTERED BASALT & QTZ VEINS <SHEAR> <ALT.BSLT> <QTZ VEINS>	Colour - light green to brown. Grain Size - fine. Broken core, fault gouge. Intense qtz flooding of basalt in places.		166.4 - 167.8 Very broken, moderately bleached basalt. Occasional calcite on fractures.		
				167.8 - 168.95 Light brown basalt, intense qtz/carb	167.8 - 168.95 Tr sph, galena in qtz veins.	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				flooding.		
				(168.95 - 169.35) <QV> White, broken quartz vein.	(168.95 - 169.35) <5% gn, 2% sph> 5% galena, 2% red-brown sphalerite, trace pyrite.	169.35 - 170.0 Grey clay fault gouge, 50% recovery.
				170.0 - 171.5 Light grey basalt with dark green 1-2mm long porphyries. 5% qtz veins.		
171.50 TO 188.06	BASALT <BSLT>	Colour - dark green. Grain Size - fine. - faint 0.5-1mm long white phenocrysts. - fine grained dark green matrix - minor chl on fractures - fractured appearance common with qtz filling spaces		2% qtz as thin veinlets + fracture fillings.	<Tr py> Trace pyrite with qtz.	175.45 - 175.9 Highly broken core. Minor fault?
				177.2 - 177.8 Light brown highly altered zone. Tectonic breccia with grey fault gouge over upper 15cm. 10% qtz veining.	177.2 - 177.8 Trace pyrite with qtz veins.	
		177.8 - 188.06 1-2mm long light green varioles, concentrated at chilled, epidote altered pillow margins.		(178.2 - 178.5) <Hem alt.> Strong hematization.		
				182.8 - 182.95 Qtz vein.	182.8 - 182.95 Trace galena.	185.1 - 185.5 Broken zone. Moderately bleached.

MINNOVA Inc.

GOLD HILL JOINT VENTURE

DRILL HOLE LOCATION MAP

SCALE: 1: 1000

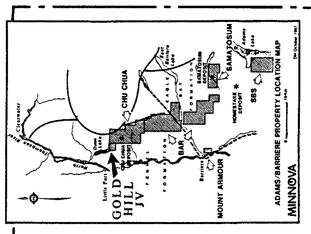
0 20 40 60 80 100m

N.T.S. 92P/8 | REVISED: JAN. 1989 | MAP: 3

DRAWN BY: GE/sg | DATE: NOV. 1987

GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,372



DIXIE 4

DIXIE (4328) CLAIM BOUNDARY

GH-1 (41m)
GH-2 (41m)
GH-3 (210m)
GH-4 (43m)
GH-5 (107m)
GH-6 (180m)
GH-1,2
GH-3,4,5
ADIT #1
ADIT #2
ADIT #3
ADIT #4
ADIT #5
ADIT #6
ADIT #7

2+00W
3+00W
4+00W
5+00W
6+00W
7+00W
8+00W
9+00W
10+00W

BL 0+00

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