ASSESSMENT REPORT

1996 DIAMOND DRILL PROGRAM

AMPLE/GOLDMAX PROPERTY

LILLOOET MINING DIVISION

NTS: 92J/09E, 92I/12W
LATITUDE: 50° 39'
LONGITUDE: 122° 10'

OWNED BY:
G. POLISCHUK, D. JAVORSKY

OPERATED BY:
HOMESTAKE CANADA INC.
#1000 - 700 West Pender St.
Vancouver, B.C.
V6C 1G8

Submitted by:
D.L. Kuran
R.J. McLeod

December 16, 1996

Distribution:
Homestake File
B.C.D.M.
G. Polischuk
D. Javorsky

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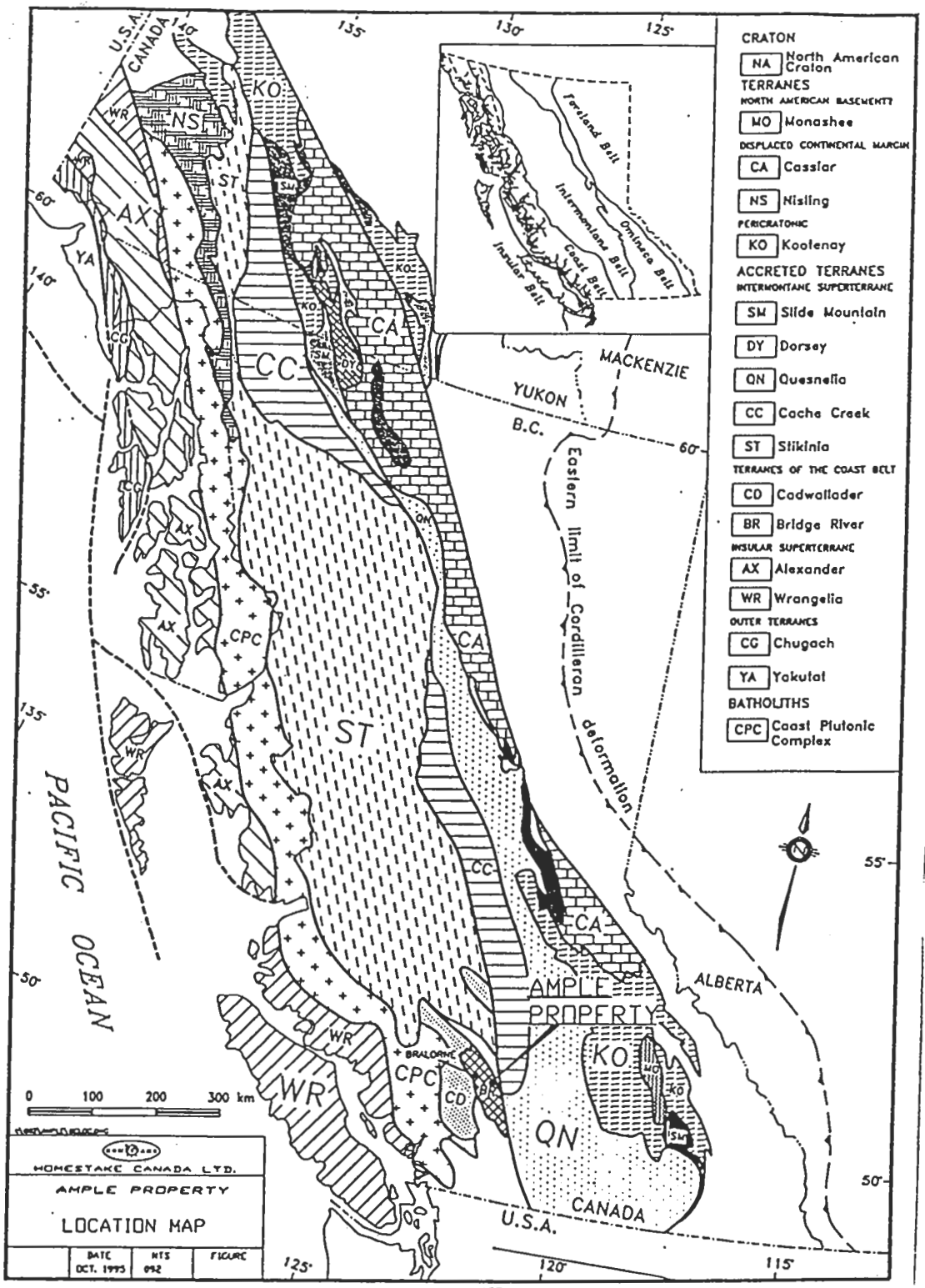


PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
R. L. KURAN
GEOSCIENTIST

HOMESTAKE CANADA INC.

Ample/Goldmax Project

PROPERTY LOCATION

DRAWN	DATE	NTS	FIGURE
RJM	Dec 12/ 96	92J/9E	1.1

1. INTRODUCTION

1.1 LOCATION AND ACCESS

The Ample/Goldmax property is located about 8 kilometers west of Lillooet, British Columbia (Figure 1.1). The property is bisected by Highway 99 {The Duffy Lake Road}, that runs along the north bank of Cayoosh Creek, South of Seton Lake. The claims are located on N.T.S. maps 92J/9E and 92I/12W at latitude 50° 39' and longitude 122° 10' in the Lillooet Mining Division.

Access to the property is achieved by the Duffy Lake Road, and via active Enterprise Creek and Seton Lake logging roads. Historical foot paths and horse trails can be also be used in the areas of early mining activity. Heli-pads may be constructed along several ridges of the north bank of Cayoosh creek. An access trail from Highway 99 constructed during 1996 allows 4X4 accessibility to the east side of the Ample claim.

1.2 LAND STATUS

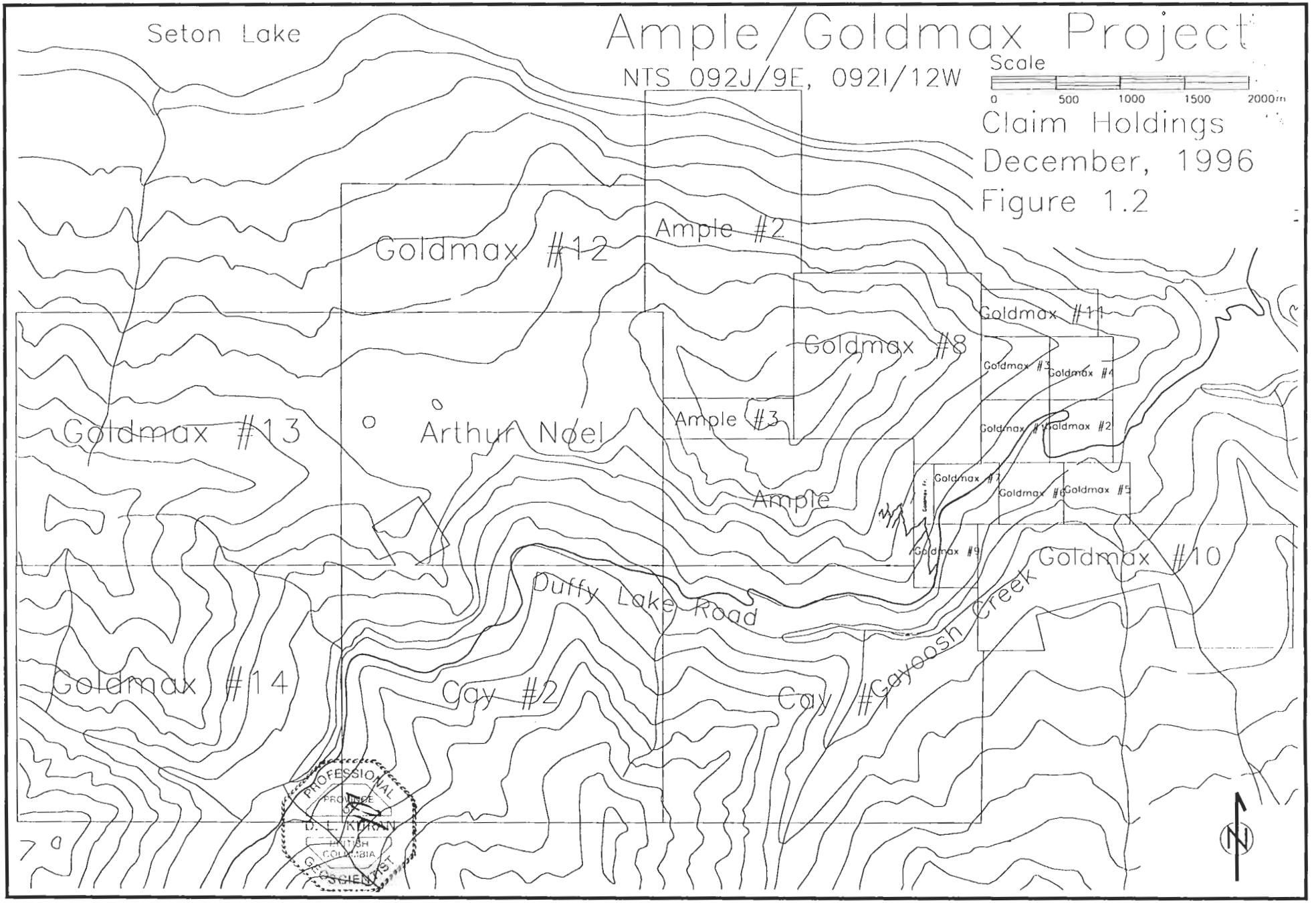
The Ample/Goldmax claim group is comprised of 21 claims totaling 187 units (Figure 1.2). These claims are held by Homestake Canada Inc., and are optioned from individuals Gary Polischuk and David Javorsky. Homestake has an option to acquire 100% of the property through exploration expenditures and cash payments over a three year period.

Table 1.2

Ample/Goldmax Claim Group

*Applying for work credit and new expiry date.

Claim Name	Tenure No.	No. of units	Current Expiry Date
Goldmax #1	229407	1	28/02/2002*
Goldmax #2	229408	1	28/02/2002*
Goldmax #3	229409	1	28/02/2000
Goldmax #4	229410	1	28/02/2000
Goldmax #5	229412	1	13/03/2002*
Goldmax #6	229413	1	13/03/1999*
Goldmax #7	316221	1	28/02/2000
Goldmax #8	316266	9	01/03/2004*
Goldmax #9	316267	1	28/02/2000
Goldmax #10	317079	10	20/04/2002*
Goldmax #11	345168	20	17/04/1997*
Goldmax #12	352643	10	15/11/1997
Goldmax #13	352644	20	12/11/1997
Goldmax #14	352645	20	14/11/1997
Goldmax fraction	316306	1	02/03/2000
Ample	314521	8	28/10/2004*
Ample #2	334206	15	21/03/2002*
Ample #3	334761	6	30/03/2003*
Cay #1	336814	20	16/06/2002
Cay #2	336825	20	18/06/1999*
Arthur Noel	317008	20	15/04/1999*


Seton Lake
Ample/Goldmax Project
NTS 092J/9E, 092I/12W
Scale
0
500
1000
1500
2000m
Claim Holdings
December, 1996
Figure 1.2
Goldmax #12
Ample #2
Goldmax #8
Goldmax #11
Goldmax #3
Goldmax #4
Goldmax #13
Arthur Noel
Ample #3
Goldmax #1
Goldmax #2
Goldmax #7
Goldmax #6
Goldmax #5
Ample
Goldmax #9
Goldmax #10
Duffy Lake Road
Gayoosh Creek
Goldmax #14
Cay #2
Cay #1
PROFESSIONAL
D. L. KIRAN
BRITISH
COLUMBIA
GEOSCIENTIST

1.3 PHYSIOGRAPHY

The property straddles the Cayoosh creek valley, over an elevation range from the 1800 m summit north of the Ample mine, to 450 m at creek level. Topography is generally steep, characterized by thick talus fans and shear escarpments commonly over 300 m in height. Overburden and hardpan accumulations can be in excess of 100 m; recent rock slides commonly cover the eluvial slopes, scarring and uprooting vegetation. Ancient terraces of Cayoosh Creek are located near the valley bottom. Rock outcropping is moderate around shear cliffs running up and down the valley, otherwise poor near the valley floor. Stands of Douglas fir, with lesser Ponderosa pine, Cedar and Cottonwood blanket most of the property, some blocks of which have been harvested. Bunch grass, willow and alder moderately cover the property. The climate is semi-arid, with hot, dry summers and cool dry winters. The property is in a snow or rain shadow of the Shulaps Range, with mean annual precipitation from 30 to 50 cm. Temperature ranges in January from -10° to 0° C, and 18° to 22° C in July.

1.4 EXPLORATION HISTORY

Mining activity around the Lillooet area originated with the discovery of the Fraser River gold in the mid 1800's. Later in the century, Chinese miners worked the placers in Cayoosh creek for decades downstream of the property, until the European miners caught on and sluiced several more miles upstream, spanning the Ample/Goldmax property. Both fine and nugget gold were recovered, and some small scale placer mining operations are still working Cayoosh Creek.

Two past producing mines are located within the property. The first was the Golden Cache in 1887, which produced spectacular native gold specimens, but only slightly over one thousand tons of ore was ever mined. The Ample Mine was the most significant in the area, with at least eight different adits and probably over 300 m of underground workings. Ore was transported to a stamp mill site on Cayoosh creek via a multi-towered aerial tramline. Production was likely only a few thousand tons at the Ample, based on the size of the tailings pile at the old mill site. The Bonanza prospect received a similar scale of work, but never produced. The latter two operations were worked off and on from 1900's to 1930's.

The most significant deposit in the Lillooet district is the Bralorne/Pioneer, approximately 60 kilometers to the West of the Ample/Goldmax property. These mines produced 8 million tonnes at an average grade of 0.51 oz/ton Au.

In 1994 Gary Polischuk discovered a quartz boulder with native gold on the Duffy Lake road, and sourced it to be 350 m up slope, later named the Ample/Goldmax zone; he later partnered with Dave Javorsky, holder of the Ample mine, and optioned the property to Homestake Canada Inc.

In 1995, Pamicon Developments Ltd. was contracted by Homestake Canada Inc. to map and sample the area of the new discovery. This program involved the establishment of a 100 m spaced baseline and with gridlines of varying length; a VLF/EM survey and a soil geochem survey were conducted over this grid. Hand trenching further exposed gold bearing phyllite and quartz stockwork.

In the spring of 1996, 2.2 km of access trail was constructed from the Duffy Lake Road to further expose this showing and permit access for the diamond drill and 4X4 vehicles.

1.5 1996 EXPLORATION PROGRAM

Homesake Canada Inc. operated a diamond drilling program which constituted 14 BQTK (thin wall) holes from eight setups totaling 1814 m. 649 core samples were taken and analyzed for gold and 7 element I.C.P.

This drilling phase had the mandate to test a series of stacked gold bearing quartz stockwork zones footwall to a series of parallel flat lying thrust faults; these were exposed during the access trail construction during the spring of 1996. Additionally, these structures are centered on a 100 m by 300 m soil geochem anomaly running up and down slope. Since the zones were running roughly parallel with slope, it was necessary to fan holes from several set-ups to determine their lateral extent.

2. GEOLOGY

2.1 REGIONAL GEOLOGY

The Ample/Goldmax property is located within the Bridge River Terrane, tectonically bound by the Intermontane Superterrane to the east and the Insular Superterrane to the west (Figure 2.1.1). It has been suggested that the Cache Creek, Hozameen and Bridge River were formerly a single terrane, separated by Cretaceous-Tertiary transverse faulting (Church, 1995). These rocks span over 100 million years of accumulation, from Permian to mid-Jurassic; cross-cutting evidence by dated intrusive units suggest some rocks may possibly be as old as Carboniferous.

The Bridge River complex is composed of an intercalated sequence of volcanics and sediments, namely ribboned radiolarian cherts, andesites, pillow basalts, argillite, greywacke, limestone, and lenses of altered ultramafics (Figure 2.1.2). These rocks regionally experience upper greenschist to lower amphibolite grade metamorphism; rocks of higher grade metamorphism are commonly referred to as the Bridge River schist.

The second major package of stratigraphic rocks is the Brew Group, comprised primarily of sediments; these rocks are dated from Jurassic to early Cretaceous in age (Duffell and McTaggart, 1952). The package may be up to 2500 m in thickness, made up of argillites, impure quartzites and conglomerates. Metamorphism ranges up to greenschist facies. Within the property area, greenstones and listwanitic assemblages have been identified within rocks mapped as Brew Group, implying volcanic portions as well.

The stratigraphic units are cross cut by several intrusive types from felsic to ultramafic; these occur as extensive cross-cutting dykes and sills, and irregular plugs or stocks. Ages range from syn-depositional volcanic feeders to young cross-cutting structures, generally from Triassic to Tertiary.

The ultramafic bodies of the area have historically been referred to as 'alpine type' (Leech, 1953), more commonly known as 'ophiolitic' by Nagel (1979), Wright et al. (1982) and Calon et al. (1990). The most common member is harzburgite, with lesser dunites and gabbros. These units are commonly serpentinized or listwanitized; since xenoliths of this unit are present in the Carboniferous-Permian Bralorne diorite, they have been suggested as Pre-Permian age (Leitch, 1989). Hence potentially all of these units are fault bound listwanites thrust into the Bridge River Complex. The presence of these rocks couple with abundant placer gold suggest a similar setting to the Mother Lode gold camp in California.

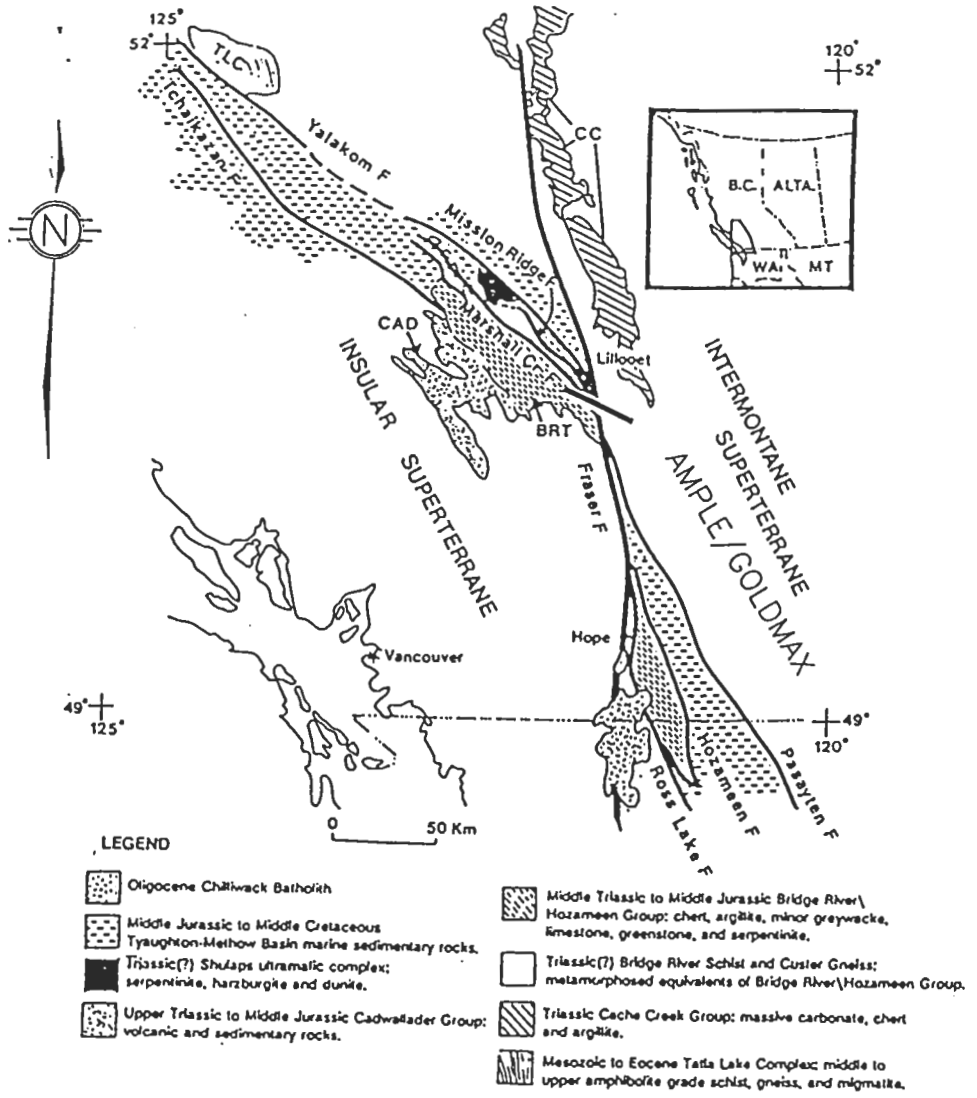


Fig. 1. Map of southwest British Columbia showing major lithological units and bounding faults referred to in the text. Abbreviations are CC, Cache Creek; BRT, Bridge River terrane; CAD, Cadwallader terrane; and TLC, Tatla Lake complex.

From: Coleman and Parrish: Eocene Strike Slip, SW British Columbia

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA D. L. KUHAN GEOSCIENTIST

HOMESTAKE CANADA INC.

Ample/Goldmax Project

TECTONIC SETTING

DRAWN	DATE	NTS	FIGURE
RJV	Dec 12/ 96	92J/8E	2.1.1.

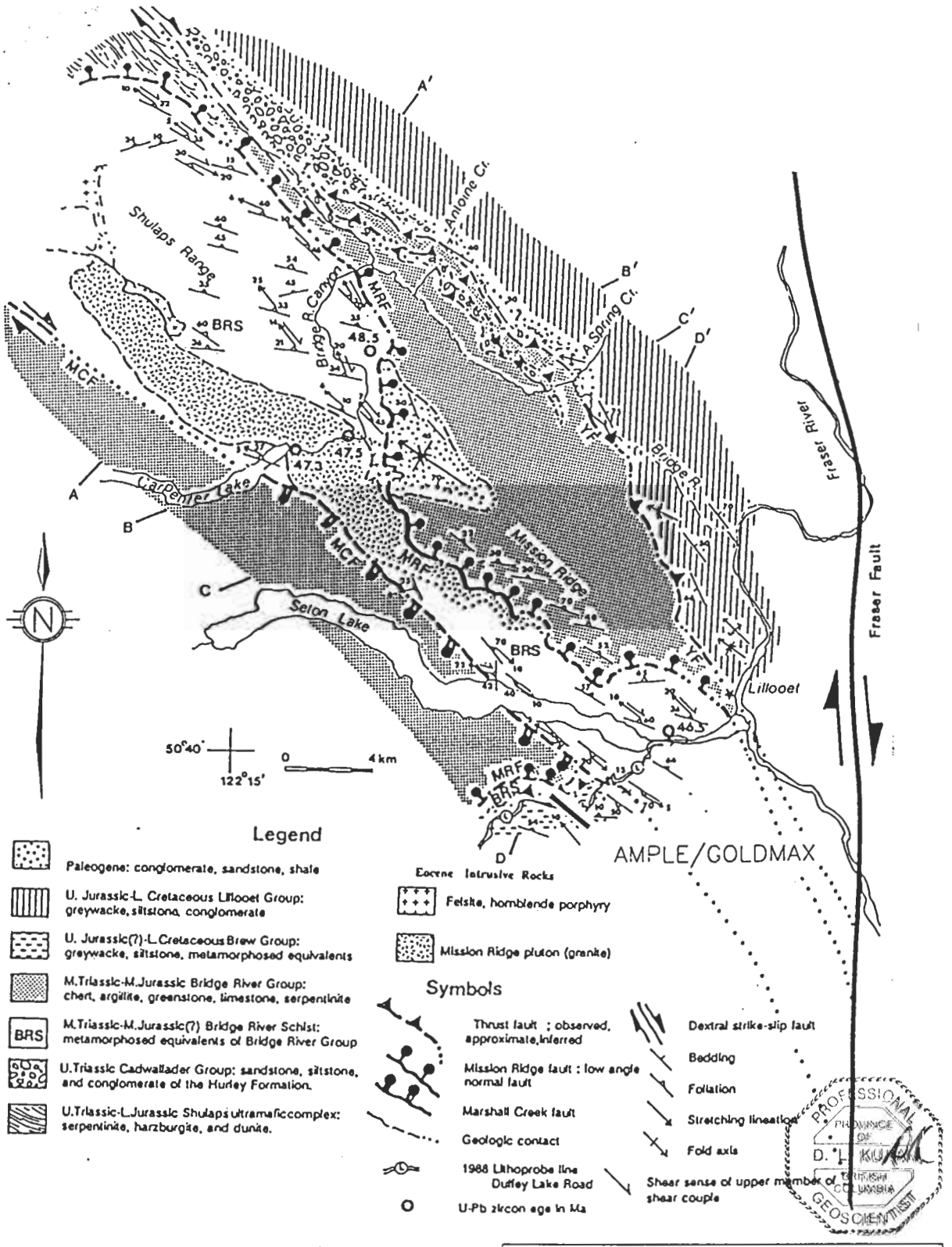


Fig. 2. Mission Ridge, the southern Shulaps Range and surrounding region. Geological map with major faults, summarized structural data, and U-Pb zircon ages in millions of years. Lines A-A', B-B', C-C', and D-D' correspond to the cross-section lines in Figure 3. Abbreviations are YF, Yalakom fault; MRF, Mission Ridge fault; and MCF, Marshall Creek fault; the Cayoosh Creek fault (not labeled) is represented by the barbed fault segment in the southwest corner of the mapped area. Local relief is more than 2200 m and accounts for the arcuate trace of some of the major faults.

From:

Coleman and Parrish: Eocene Strike Slip, SW British Columbia

HOMESTAKE CANADA INC.

Ample/Goldmax Project

REGIONAL GEOLOGY

DRAWN	DATE	NTS	FIGURE
RJM	Dec 12/ 96	92J/9E	2.1.2

The Bralorne series of intrusions is made up of co-magmatic phases of gabbro, gabbroic-diorite, diorite, soda granite and aplite (Church, 1995). These rocks have been dated as Permo-carboniferous, with a minimum age of 270 +/-5 Ma (Leitch et al, 1988). These rocks do not appear to be magmatically related to the ultramafics in the region (Church, 1995).
Deformed or altered intrusives from basic to intermediate in composition, likely represent feeder structures to the volcanics of the Bridge River Complex. Cross-cutting units of lesser degrees of metamorphism or fresh may be coeval with the Cretaceous-Tertiary Coast Range Plutonic event.

The Regional package is bounded to the east by the Fraser Fault, a major right lateral north trending transverse structure that may displace the Bridge River terrane from the Cache Creek terrane. The Mission Ridge fault is a steep normal fault that bounds the hangingwall Bridge River Complex from the more metamorphosed Bridge River schist. The Bridge River is thrust over the younger Brew Group by the shallow Ample/Cougar thrusts that trends east-west, and bisects the Ample/Goldmax property. Similarly, the Yalakom fault to the east juxtaposes the Bridge River over the Lillooet Group, the latter of which is contemporous with the Brew Group. The northwest trending 150 km long Marshall Creek fault transects the northwestern corner of the property; this structure has dextral strike slip movement of up to 15 km, and dip slip of approximately 3.5 km.

2.2 PROPERTY GEOLOGY

Current geological work at the Ample/Goldmax property has targeted a series of three to five parallel shallow dipping thrust faults that exhibit irregular footwall quartz stockwork and tension fractures. The veins are hosted within phyllic light grey to black mudstones and siltstones, locally intercalated with lesser light olive greenish grey probable volcanics. No sharp contact between the Bridge River Complex and the Brew Group is recognized in core, but the abundance of phyllic sediments implies that veining is hosted within Brew Group rocks. The presence of metavolcanics contradicts this, however. Deformation of these rocks appears to decrease with depth; within the target area, a strong slaty cleavage fabric has developed, coinciding with a pervasive and fracture filling light greenish grey micaceous alteration. The mudstones and siltstones are locally intercalated with coarser grained sandstones and conglomerates, commonly with elongate clasts. All sediments exhibit strong pervasive carbonate.

The stratigraphic rocks are intruded by numerous irregular light grey to greenish grey diorite dykes. Hornblende content ranges from 5-30%, generally with a very fine grained to aphanitic matrix. These rocks exhibit strong pervasive light green serecite, and moderate pervasive carbonate alteration; carbonates are primarily calcite and ankerite. Degree of alteration ranges from moderate to intense; some possible fresh occurrences of this unit are noted on surface. The intrusive bodies are usually oriented subparallel with foliation; flow banding and layering is common. Intruded pre-deformation, the diorite often exhibits strain textures, including elongate phenocrysts and augen textures. They are also folded, with boudining or brittle shearing present in areas of strong deformation.

At least three phases of quartz veins are observed at Ample/Goldmax (Lewis, 1996), with varying degrees of carbonate. Intersections of intense quartz stockwork zones typically display mostly foliation parallel discontinuous veins, up to 2.0 m in true width from hole AG 96-03. These type of veins are subject to strong folding, often resulting in boudinage textures. Common vein widths are one to two centimeters, and will constitute up to fifty percent of rock volume.

Two phases of later quartz veins, also mineralized, cross-cut the earliest stockwork. Intensity of quartz veining can increase abruptly or gradually.

A later event of irregular tight, commonly isoclinal folding event overprints the mineralizing event. These structures trend east-west, varying in orientation plus or minus 20°. Shallow plunges can vary to the east or west, rarely steeper than thirty degrees, with subvertical axial planes. Weak axial plane cleavage and shearing is locally developed. These mesostructures have a wavelength 2 to 5 m, often with complex, irregular parasitic folds. Boudins of quartz and the more competent rock units are commonly resultant from these structures. These structures are interpreted to be drag folds along the thrust faults.

Gold mineralization is known to occur with quartz veins and wallrock. Best gold grades are found within ribboned quartz veins. Stylolitic laminations within bull quartz hosts fine grained arsenopyrite, with rare pyrite and flakes of native gold; the ribbons commonly have a coating of graphite. Sulphide mineralization is concentrated at the margin of the narrower quartz stringers. Disseminated and bedding parallel euhedral arsenopyrite and pyrite grains occur within the phyllitic units; these units carry comparable gold grades to quartz stringer zones.

3. DIAMOND DRILLING

3.1 DRILL OPERATIONS

During the Spring of 1996, a total of 1813m of BQTK was cored using a JKS 300 rig operated by Hy-tech drilling of Smithers, B.C.. The drill was skidded behind a Caterpillar D-7 tractor, with drill water pumped from a 5000 gallon tank serviced by water trucks. Access from the Duffy Lake Road was achieved via the access trail constructed in the spring of 1996 (Figure 3.1.1). Fourteen holes from eight set-ups were attempted; four holes failed to reach bedrock due to deep or binding overburden. This phase targeted a 1995 soil geochem anomaly as well as the surface showings exposed during access trail construction. A summary of these results is located in Table 3.2.

3.2 CORE GEOCHEMISTRY

In total, 649 core samples were taken using a core splitter at lithologically controlled intervals. These were analyzed at Eco-tech Labs of Kamloops for 30 g/t Au geochem, with fire assay and coarse screened metallic assay for warranted samples. Other geochem analysis included Ag, As, Cu, Pb and Zn. Complete assay reports are located in Appendix 2. Gold grades within the mineralized zones range from trace to 66.34 g/ton metallic gold. However, the mineralized zones consistently display a thick anomalous section carrying greater than 100 ppb Au. A fair apparent correlation between arsenic and gold content is noted, but irregular.

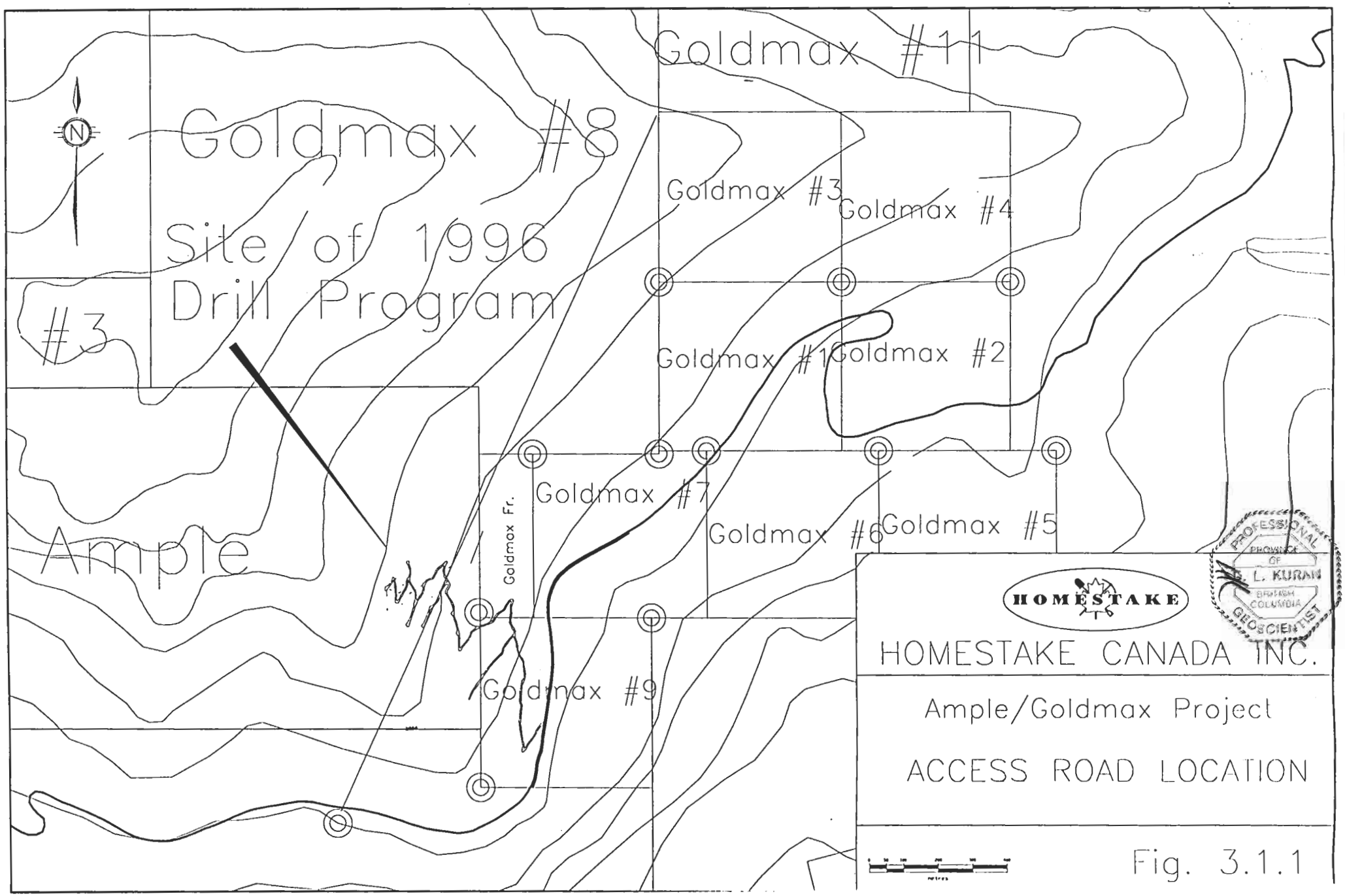

Goldmax #11
Goldmax #8
Site of 1996
Drill Program
#3
Goldmax #3
Goldmax #4
Goldmax #1
Goldmax #2
Goldmax #7
Goldmax #6
Goldmax #5
Goldmax Fr.
Ample
Goldmax #9
HOMESTAKE
HOMESTAKE CANADA INC.
Ample/Goldmax Project
ACCESS ROAD LOCATION
PROFESSIONAL GEOSCIENTIST
PROVINCE OF BRITISH COLUMBIA
L. KURAN

Fig. 3.1.1

Figure 3.2

Diamond Drill Hole Intersection Summary

Hole#	Azm	Dip	Length	From	To	Intersection	Au	Comments
AG96-01	56	-61	202	181.00	194.00	**13.00**	**0.618gpT**	Target: Ruby Zone
				187.00	188.00	1.00	1.48gpT	inclusive
AG96-02	150	-60	174	87.00	89.00	2.00	1.02gpT	10% qtz vns
				156.00	157.00	1.00	1.38gpT	15% qtz/carb vn 3% py
AG96-03	200	-48	103	55.85	61.05	5.20	0.53gpT	Includes two 15cm qtz vns
AG96-04	54	-61	177.4	66.70	67.70	1.00	5.77gpT	20% bx qtz vn shear, 1% py
				84.00	93.00	**9.00**	**0.87gpT**	15% 10-50cm qtz vns
				84.00	86.00	2.00	1.30gpT	inclusive
				91.00	93.00	2.00	1.24gpT	inclusive
				127.00	128.65	1.65	2.76gpT	
				172.00	175.00	**3.00**	**1.35gpT**	40% qtz vns
AG96-05	022	-45	137	17.40	17.80	0.40	1.97gpT	vein float in overburden
				33.60	36.00	2.40	1.60gpT	vein at surface @20deg to CA
				67.70	70.20	**2.50**	**4.65gpT**	40% veins 3% aspy @10deg to CA
AG96-06	110	-75	175	48.00	50.00	2.00	0.99gpT	25% qtz, 3% py 1% aspy
AG96-07	110	-75	191	19.50	20.50	1.00	**9.91gpT**	
				24.80	33.00	**8.20**	**11.76gpT**	
				26.80	28.00	**1.20**	**66.34gpT**	inclusive, VG
				124.00	127.00	3.00	2.59gpT	
				154.00	160.00	**6.00**	**3.09gpT**	
				154.00	157.00	3.00	4.27gpT	inclusive
AG96-08	45	-60	153	38.00	41.00	3.00	1.41gpT	
				56.80	64.00	**7.20**	**4.51gpT**	
AG96-09	180	-60	177	14.00	35.00	**21.00**	**2.75gpT**	20% veins, 2% py 1% aspy
				14.00	16.00	**2.00**	**11.2gpT**	inclusive
				68.00	69.00	1.00	3.41gpT	
				132.00	134.00	2.00	1.85gpT	2% py & po, 0.5% aspy
AG96-10a	55	-61	24	Hole Abandoned				
AG96-10b	45	-65	38	Hole Abandoned				
AG96-11	150	-65	41	Hole Abandoned				
AG96-12	55	-75	201	No significant results				
AG96-13	55	-65	21	Hole Abandoned				

3.3 INTERPRETATION OF DRILLING RESULTS

Diamond drilling at the Ample/Goldmax property has delineated three irregular zones of gold bearing quartz stockwork. Relatively close spaced drilling has revealed that these structures vary significantly in width and grade. The zones appear to strike from 90 degrees to 120 degrees, and dip north at approximately thirty degrees. This orientation is parallel with the slope of the

hillside. This phase of drill testing has not delineated any meaningful strike or dip lengths of any of these zones.

Intersections tend to vary in grade and width; the most encouraging yielded 11.76 g/t over 8.2m in hole AG96-09. Grade does appear to be increasing further upslope towards stratigraphic tops.

4. SUMMARY AND CONCLUSIONS

The Ample/Goldmax property is a mesothermal epigenetic gold bearing quartz vein system, located about 8 km West of Lillooet, B.C., straddling the Duffy Lake Road. It is located on NTS map sheets 092J/9E and 92I/12W; the property is privately owned, but Homestake has the option to earn 100% of the property pursuant to exploration expenditures and cash payments. The property is comprised of 21 claims totaling 187 units, all in good standing until April 17, 1997 or longer, assuming acceptance of this report. The property is located at the eastern margin of the Shulaps Mountains, and is characterized by shear cliffs and thick talus trains extending to Cayoosh creek.

The property has two historical past producer and a single historical prospect. Previous work has included geological mapping, sampling, soil geochem, ground geophysics and access trail construction. The 1996 drill program involved 1813m of core from 14 holes at 8 set-ups.

The Ample/Goldmax property occurs within the Bridge River terrane of the Intermontane belt. It is bisected by a thrust fault that juxtaposes the Permo-Jurassic Bridge River Complex of dominantly volcanics, sediments and their metamorphic equivalents over the Jurassic-Cretaceous Brew Group of sediments and meta-sediments. These rocks are intruded by mafic to felsic intrusives, ranging from contemperous with the stratigraphic units through to Tertiary. Rocks cored are dominantly phyllic mudstones and siltstones, with local greenstones and narrow diorite dykes and sills. These rocks host zones of ribboned quartz stockwork, and are commonly strongly folded.

The 1996 drill program revealed at least three zones of significant gold mineralization, yet extensive sections assaying over 100 ppb Au are found. The orientation of the mineralized zones runs parallel with slope, around 270° to 300°, dipping shallowly north around 30°. Strike and dip length are poorly understood, and may be discontinuous; grade appears to be increasing towards stratigraphic tops.

5. RECOMMENDATIONS

Based on the available data, it is recommended that further work be completed on the Ample/Goldmax group of claims.

1. Further mapping and prospecting throughout the property, focusing on structural geology and the past producers.

2. Extend the access trail further up slope, attempting mechanical trenching, mapping and sampling where warranted.

3. Further diamond drilling up slope and aggressively along strike from the 1996 program; this phase would test continuity and search for new, higher grade zones upwards in stratigraphy.

6.0 References

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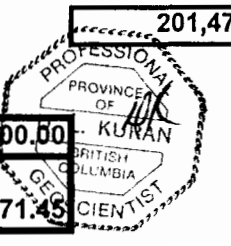
BUDGET COMPILATIONS SHEET
AMPLE/GOLDMAX

DESCRIPTION	AMOUNT	RATE ($)	NET ($)
Salaries			
Technical			
K. PATTERSON	35	225.00	7,875.00
R. McLEOD	8	225.00	1,800.00
D.KURAN	3	350.00	1,050.00
Support			
Temp/Seasonal/Contract			
C. KAIP	35	155.00	5,425.00
Fringe Clearing			
Subtotal			**16,150.00**
Drilling			
Surface			100,128.75
Mobilization/Demobilization			7,000.00
Fuel, Mud, Supplies			63,388.10
Subtotal			**170,516.85**
Analysis, Assay, Metallurgical			
Geochemical Analysis & Assay	649	8.50	5,516.50
	139	4.15	576.85
	55	18.00	990.00
Metallurgical Testwork			
Other Lab/Sample Prep	649	7.25	4,705.25
Subtotal			**11,788.60**
Travel			
Lodging	36	56.00	2,016.00
Meals/Groceries			1,000.00
Subtotal			**3,016.00**
Total Project Costs			**201,471.45**

Apportionment of Assessment Work

Work applied of claims	**132700.00**
Balance of Assessment work to Polischuk/Javorsky and Homestake P.A.C.	**68771.45**



8.0 STATEMENT OF QUALIFICATIONS

I, ROBERT J. McLEOD, of P.O. Box 86, Stewart, British Columbia, do hereby certify that:

1. I am presently employed by Homestake Canada Inc. of 1000-700 West Pender Street, Vancouver, British Columbia as a Geologist.

2. I am a graduate of the University of British Columbia (1993), and hold a B.Sc. (major) in Geology.

3. I have been employed continuously in my profession as an Exploration Geologist in Canada and the U.S.A. since graduation.

4. I have no interest in the property described herein, nor in the securities of any company associated with the property, not do I expect to acquire any such interest.

Signed at Vancouver, British Columbia this 20 day of December, 1996.

ROBERT J. McLEOD, B.Sc.

STATEMENT OF QUALIFICATIONS

I. DAVID L. KURAN of 25630 Bosonworth Avenue, in the municipality of Maple Ridge, British Columbia, hereby certify that:

1. I am a graduate of the University of Manitoba(1978) and hold a B.Sc. in Geology.

2. I am a fellow of the Geological Association of Canada.

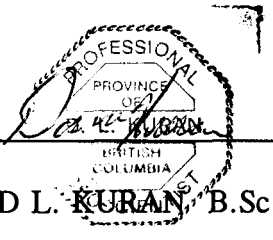
3. I am a Member in good standing of the Association of Professional Engineers and Geoscientists of the Province of British Columbia # 19142.

4. I have been employed in my profession as an Exploration Geologist in Canada, U.S.A., and Mexico since graduation.

5. I am presently employed by Homestake Canada Inc. of 1000-700 West Pender St., Vancouver, B.C. as Senior Geologist.

6. I supervised the planning and implementation of the work described in this report, was in daily communication with the project geologists on site, visited the property twice during the completion of the described work and was involved in the data interpretation and editing of this report on the Ample-Goldmax Project, located in the Cayoosh Creek area of Map NTS 92J, Lillooet Mining Division, B.C.

Signed at Vancouver, British Columbia this 20 day of December, 1996.



DAVID L. KURAN, B.Sc., P. Geol., F.G.A.C.

APPENDIX 1

DRILL LOGS

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — AG96-01

PROJECT: AMPLE	Date Commenced: APR. 16	Contractor: HY-TECH	Logged by: KP
DRILL HOLE: AG96-01	Date Completed: APR. 21		Geotech by: CK
LENGTH: 202.44	Core Diam: BQTK		

Collar Location

Latitude: 5610993.00
Departure: 568806.00
Elevation: 1048.00

SUMMARY

0.00-10.90	CASING *
10.90-12.85	Siltstone
12.85-22.30	GREENSTONE
22.30-24.80	Siltstone
24.80-25.90	DIORITE
25.90-26.70	FAULT ZONE
26.70-43.15	Siltstone
43.15-45.45	CONGLOMERATE
45.45-65.25	Siltstone
65.25-72.05	GREENSTONE
72.05-74.50	Siltstone
74.50-75.25	GREENSTONE
75.25-91.90	CHERT
91.90-111.50	Siltstone
111.50-114.45	GREENSTONE
114.45-132.90	Siltstone
132.90-133.80	DIORITE
133.80-146.90	Siltstone
146.90-147.52	GREENSTONE
147.52-172.00	Siltstone
172.00-176.52	DIORITE
176.52-182.10	Siltstone
182.10-184.50	GREENSTONE
184.50-202.44	Siltstone

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	56.00	-61.00	BRUNTON

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
0.00	10.90	CASING										
		<0.00-0.00>										
10.90	12.69	Siltstone	35001	11.20-11.65	0.45	695.00				2765.00	179.00	
		Aphanitic, blackish-green, foliated	35002	11.65-12.65	1.00	360.00				1270.00	126.00	
		cleavage, foliation 65°										
		Frs=30/m :Vns =2/m										
		Weak SI macroveins										
		Moderate CL pervasive										
		Trace CB pervasive										
		Weak QV vein										
		Strongly foliated meta-slst with probable FGR										
		volcaniclastic source for up to 40% of rock mass.										
		Moderate [CHL] pervasive and intense CHL localized on										
		partings parallel to foliation. ~2.5-2cm. QZ-CB										
		V's/meter. Approx. 85% Qz, 15% calcite, weak										
		limonitic stain along vein margins.										
		<11.20-11.65> Aphanitic, brown, foliated										
		cleavage, foliation 65°										
		Frs=100/m :Vns =0/m										
		Zone of intense [Fe-Co] approx. 5% blebby Qz, trace of										
		boxwork after PY.										
		<12.57-12.69> cleavage, foliation 65°										
		Frs=30/m :Vns =20/m										
		Intense [Fe-Co] similar to last zone. 2 Qz-Cb veins.										
		No visible Sx. One Qz-Cb vein with open space and										
		euhedral Qz xtals.										
12.85	22.30	GREENSTONE	35003	17.60-18.60	1.00					260.00	121.00	
		Fine-medium grained, greenish-gray, foliated										
		cleavage, foliation 60°										
		Frs=20/m :Vns =1/m										
		Weak SI macroveins										
		Strong CL pervasive										
		Moderate CB pervasive										
		Moderate QC vein										
		Strongly foliated GRST with common 2-5mm Qz-Cb veins										
		parallel to fol'n. Common chlorite along										
		partings/fractures/fol'n. Veins commonly contain wall										
		rock fragments. Minor shears with CHL and limonite at										
		17.65 and 18.10 both at 45 degrees. Broken sections:										
		14.40-14.60 18.10-18.70										
		15.35-15.70 19.60-20.00										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Common limonite along fractures in broken zones.										
22.30	24.80	Siltstone Aphanitic, grayish-black, foliated cleavage, foliation 70°:qz-carb veining 20° Frs=40/m :Vns =4/m Weak SI macroveins Moderate CL pervasive Moderate CB pervasive Weak QC vein approx. 5% limonite and boxwork after PY assoc'd with Qz-Cb V's. Both parallel to and perpendicular to fol'n. V's approx. 15% of rock mass. Strongly fol'd Chl-Cb altered meta-seds, common limontic staining on fol'n planes and assoc'd with Qz-Cb veins.	35004	22.45-23.95	1.50					110.00	153.00	
24.80	25.90	DIORITE Aphanitic, grayish-black, foliated cleavage, foliation 70°:qz-carb veining 20° Frs=40/m :Vns =4/m Weak SI macroveins Weak CL pervasive Moderate CB pervasive Weak QC vein Moderatly fol'd [CHL-CB] FGR diorite, faint possible FS and HB xtals to .5mm. Strong pervasive sil'n at margins, more pronounced at lower margin. Increasing intensity of [Fe-Cb] downwards toward fault. Faint possible Bx'n textures.	35005 35902	23.95-24.85 24.85-25.40	0.90 0.55					250.00 275.00	170.00 126.00	
25.90	26.70	FAULT ZONE Flt gouge and pieces of strongly limonitic Qz-Cb vein material										
26.70	43.15	Siltstone Aphanitic, blackish-violet, Brecciated, sheared lineations 55° Frs=10/m :Vns =3/m Moderate CL pervasive Trace CB pervasive Weak QV vein Zone of intense shear below fault. Looks clastic-probable Bx'n clasts elongated up to ratios of 15:1....cataclastite. 2 1cm. migmatitic Qz V's also parallel Qz vein cutting foliation at 30 degrees.	35006 35007	25.40-27.00 27.40-28.40	1.60 1.00	215.00				1780.00 325.00	161.00 138.00	

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
<30.65-43.15>	Aphanitic, blackish-gray, contorted, laminated	35008	30.85-31.85	1.00					240.00	136.00	
	bedding 65°	35009	34.00-35.00	1.00				0.40	225.00	256.00	
	Frs=20/m :Vns =5/m	35010	35.00-36.00	1.00					300.00	216.00	
	Moderate SI macroveins	35011	36.00-37.00	1.00					240.00	111.00	
	Strong CB pervasive	35012	37.00-38.00	1.00					350.00	65.00	
	Trace PY disseminated	35013	38.00-39.00	1.00				0.20	175.00	69.00	
	Slst with Qz veining 1mm-15cm. Trace Py disseminated	35903	40.85-41.35	0.50					245.00	37.00	8.00
	and along lamination in slst. Common zones of	35014	41.35-42.35	1.00					55.00	79.00	
	graphite generally associated with increase in % of Qz										
	veins. Overall rock strongly deformed - strong shear										
	near top of interval with Bx'n and lineation of										
	clasts. Deformation becoming more ductile further										
	down with .5-1m scale folds common. At 31.50m good										
	crenulations of bedding, crenulation planes at 50										
	degrees.										
<32.25-32.50>	DIORITE										
	Fine grained, grayish-green, bleached										
	cleavage, foliation 45°										
	Trace CL pervasive										
	Intense CB pervasive										
	Small finger of FGR intr, possibly GNST, very strongly										
	CB bleached, weakly fol'd.										
<36.00-37.00>	QUARTZ VEIN										
	Aphanitic, dark black, contorted										
	Frs=30/m :Vns =15/m										
	Intense SI macroveins										
	Weak CB pervasive										
	Weak PY disseminated										
	Intense QV vein										
	40cm. of banded Qz with intense graphitic zones										
	convoluted through Qz material. Graphite to 1.5cm										
	thick within Qz. 1-2% diss PY and stringers in Qz.										
	Also 60cm of approx. 15% 0.5-2cm Qz veins strongly										
	convoluted. Rare PY +_ limonite.										
<37.00-39.00>	Siltstone										
	Aphanitic, dark black, contorted										
	Frs=100/m :Vns =3/m										
	Strong SI macroveins										
	Strong CB pervasive										
	Weak CO coatings										
	Trace PY blebs										
	Broken zone with approx. 10% Qz-Cb vein material, rare										
	PY in Qz, some diss xtals more commonly in blebs and										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		fracture filling. Strong graphitic alt on fracture/shear surfaces and throughout massive to laminated slst.										
<39.35-42.35>		Aphanitic, dark black, laminated, contorted Frs=10/m :Vns =10/m Weak SI microveins Strong CB pervasive Weak PY stringers Weak QC vein Laminated slst with approx. 1% Py in bedding parallel stringers and disseminated, strongly folded zone. Fold closures every 50cm - 1m. From top to bottom:So=60, So=0, So=35, So=70, So=40										
43.15	45.45	CONGLOMERATE , gray, clastic, heterolithic cleavage, foliation 65°:lineations 90° Frs=3/m :Vns =0/m Weak SI matrix Strong CB pervasive Trace PY interstitial Very elongated clasts 0.2-1cm x 1-3cm, strong CB bleaching, 90-95% of clasts of probable volcanic origin, approx. 5% slst clasts. Silica +_ FGR PY filling pressure shadows common.	35015	44.00-45.00	1.00						26.00	
45.45	65.25	Siltstone , black, laminated, foliated cleavage, foliation 55°:bedding 0° Frs=25/m Weak SI macroveins Strong CB pervasive Trace CO coatings Trace PY disseminated Weak CV vein So=60 at 51.00m S1=60 So=70 (perpendicular) at 53.75 So=45 at 56.60 So=60 S1=50 (perpendicular) at 59.00 Slst with common Cb and less common Qz veins 1-10mm, fractures commonly have mod amounts of graphite. Foliation fairly consistent at 50-55 degrees, laminations where visible, are parallel and perpendicular to S1 and commonly tightly folded. Laminations commonly rotated by micro shears to form sigmoidal shapes. FGR PY Diss throughout slst often	35016 35017 35018 35019	46.80-47.80 52.00-53.00 53.00-54.00 54.00-55.00	1.00 1.00 1.00 1.00				0.40	 205.00 140.00 165.00	55.00 55.00 46.00 53.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		concentrated along laminations. Qz-Cb veins and microveins generally parallel to foliation but some x-cutting approx. perpendicular to fol'n. X-cutting veins generally carrying 10-20% PY										
<47.45-47.52>		DIORITE , pale gray, massive contact 60° Frs=0/m :Vns =0/m Moderate CB pervasive Moderate MS pervasive Trace PY disseminated FGR to APH. CB bleached diorite? Dyke sub-parallel with fol'n, faint Fs and Hb Phenos up to .5mm, rare VFGR diss PY										
<47.85-48.50>		Fine-medium grained, pale gray, massive Frs=0/m :Vns =0/m Weak SI stringers Moderate CB pervasive Moderate MS pervasive Trace PY disseminated Dyke as above but larger and coarser grained. Relict Hb's up to 2mm in X-section, faint blebby traces of Fs xtals.										
<48.75-48.95>		contact 50° Frs=0/m :Vns =0/m Moderate CB pervasive Moderate MS pervasive Trace PY disseminated As above.										
<54.57-54.75>		FAULT ZONE Brown, sheared fault/gouge 20° Strong CB pervasive Intense LI gouge Probable small scale flt with Fe-Cb/limonitic gouge.										
<57.20-57.62>		Siltstone Fine-coarse grained, blackish-gray, clastic cleavage, foliation 50° Frs=5/m :Vns =0/m Weak SI blebs Moderate CB pervasive Trace PY blebs										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Probable volc clasts within slst. Clasts originally angular, now elongated.										
65.25	72.05	GREENSTONE	35020	67.50-68.50	1.00					45.00	49.00	
		Aphanitic, grayish-green, banded, foliated	35021	70.00-71.00	1.00					55.00	60.00	
		cleavage, foliation 55°:qz-carb veining 55°										
		Frs=7/m :Vns =1/m										
		Weak SI macroveins										
		Weak CL pervasive										
		Weak CB macroveins										
		Trace PY coatings										
		Weak QC vein										
		GNST with up to 30% intercalated slst, banded and convoluted contacts btwn GNST and SLST. Qz-Cb veins up to 0.5cm at 67.80. 4cm of sheered Qz-Cb v's. Rare PY on fractures and Diss through GNST. S1=55 degrees at 67.75m, S1=85 at 70.70m veins parallel to S1										
<69.85-70.42>		DIORITE										
		Fine grained, grayish-green, massive, veined										
		contact 55°:qz veining 45°										
		Frs=3/m :Vns =4/m										
		Moderate SI macroveins										
		Trace CL pervasive										
		Trace CB vein										
		Moderate MS pervasive										
		Trace PY coatings										
		Moderate QV vein										
<71.15-71.45>		contact 55°:qz veining 45°										
		Frs=3/m :Vns =4/m										
		Moderate SI macroveins										
		Trace CL pervasive										
		Trace CB vein										
		Moderate MS pervasive										
		Trace PY coatings										
72.05	74.50	Siltstone	35022	72.00-73.00	1.00					205.00	102.00	
		Aphanitic, blackish-gray, foliated, contorted	35023	73.00-74.00	1.00					85.00	152.00	40.00
		cleavage, foliation 65°:cleavage, foliation 40°										
		Frs=40/m :Vns =5/m										
		Weak SI macroveins										
		Moderate CB pervasive										
		Weak CO coatings										
		Trace PY disseminated										
		Weak QC vein										
		Slst with up to 20% volc (gnst) component, Qz-Cb V's										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		to 0.5cm. Most parallel to fol'n, some perpendicular to fol'n. Perpendicular V's cut parallel V's. Common graphitic coating on fracture/shear surfaces.										
74.50	75.25	GREENSTONE Fine grained, gray, massive, contorted cleavage, foliation 75° Frs=5/m :Vns =2/m Weak SI macroveins Weak CL pervasive Weak QV vein GNST? Possible dyke or volc flow, Hb + Fs Phyric xtals to 1mm.	35024	74.00-75.00	1.00					150.00	148.00	
75.25	91.90	CHERT	35025	78.00-79.00	1.00						64.00	4.00
		, pale gray, massive, clastic	35026	79.00-80.00	1.00						74.00	6.00
		Frs=4/m :Vns =20/m	35027	81.00-82.00	1.00				0.40	60.00	133.00	4.00
		Intense SI pervasive	35028	86.00-87.00	1.00					65.00	79.00	
		Moderate CB pervasive	35029	90.00-91.00	1.00						48.00	2.00
		Trace PY stringers										
		Weak PR stringers										
		Highly siliceous zone, probable chert, possible PV sil'n, faint clastic textures preserved throughout. Good clastic texture at 80.90m. 95% of clasts siliceous, 5% slst. Many (approx. 100/m) small (1-2mm), graphitic stringers which contain up to 80% pyrrhotite. In upper portion of interval, less silicious zones within interval are strongly carbonaceous.										
<80.95-81.95>		FAULT ZONE Aphanitic, grayish-brown, sheared shear 35°:qz veining 35° Frs=100/m :Vns =1/m Weak SI macroveins Weak CB pervasive Weak CO coatings Trace PY blebs Small shear zone in non-sil'd interval within chert M-S graphite on shear planes.										
<90.50-91.50>		QUARTZ VEIN Aphanitic, pale white, massive, banded qz veining 30° Frs=10/m :Vns =20/m Intense SI vein Trace CB blebs										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Weak CO coatings										
		Trace PY disseminated										
		1M zone of intense banded Qz Veining. Massive Qz for										
		15cm, 90% Qz with graphitic/chloritic partings for										
		30cm.										
91.90	111.50	Siltstone	35030	91.00-92.00	1.00					15.00	46.00	2.00
		Aphanitic, dark black, foliated, massive	35031	92.80-93.80	1.00				0.20	40.00	74.00	
		qz-carb veining 10°:cleavage, foliation 35°	35032	93.80-94.80	1.00					15.00	53.00	
		Frs=20/m :Vns =5/m	35033	99.00-100.00	1.00					25.00	88.00	
		Weak SI macroveins	35034	100.00-101.00	1.00						55.00	
		Moderate CB pervasive	35035	110.00-111.00	1.00					10.00	53.00	
		Trace CO coatings										
		Trace PY blebs										
		Trace PR blebs										
		Weak QC vein										
		Large interval of calcareous, fgr slst. Rare coarser										
		horizons with clasts to 0.5cm. Qz-Cb veins often										
		strongly convoluted and contain up to 5% Py.										
		Moderately fol'd, laminations tightly folded and										
		crenulated. Fractures commonly graphitic.										
<93.10-94.25>		FAULT ZONE										
		Aphanitic, dark black, broken										
		Frs=100/m										
		Strong CO coatings										
		Shear zone/fault, intense graphitic alt and shearing.										
<102.44-102.56>		CHERT										
		Aphanitic, pale gray, banded, Brecciated										
		Frs=0/m :Vns =0/m										
		12 cm zone/bed of chert or intense silica flooding										
		sharp contacts indicate probable chert.										
		Structure:										
		91.50....111.50 94.40 Qz-Cb v=10,50 degrees										
		94.75 QzCb V=60 degrees 97.00m S1=35 degrees										
		103m Qz-Cb V=65 degrees 104m FLT/sr=25 degrees										
		105.75 CV=60 Degrees 106.10 So=50 degrees										
		108 So=0 108.7 Flt=15 degrees 111.00 So =40 degrees										
111.50	114.45	GREENSTONE	35036	113.00-114.00	1.00	75.00				55.00	60.00	
		Fine grained, greenish-gray, banded, contorted										
		bedding 25°:qz-carb veining 65°										
		Frs=4/m :Vns =6/m										
		Weak SI macroveins										
		Weak CB macroveins										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Weak QC vein Strongly CB bleached intercalated volcs and seds. Approx.70% volc, bedding, where visible, is tightly folded. Qz-Cb veins generally cut bedding.										
114.45	132.90	Siltstone	35037	123.00-124.00	1.00	410.00				95.00	91.00	
		Fine-coarse grained, blackish-gray, laminated, clastic	35038	131.90-132.90	1.00					25.00	70.00	
		bedding 45°:cleavage, foliation 10° Frs=8/m :Vns =10/m Weak SI macroveins Weak CB macroveins Weak QC vein finely laminated to coarsely clastic (in part tectonic) slst. For much of interval So and or S1 are close to 0 degrees. (115.50.....124.00m) Qz-Cb veining very Cb-rich and most of interval strongly Cb bleached. Structure: 115.00....Bd=45 115.50....BD=0 123.50...CV=10 degrees 127.30....Bd=65 degrees 128.20...BD=30 degrees 130.00 BD=40 degrees										
132.90	133.80	DIORITE	35904	132.90-133.80	0.90					70.00	43.00	6.00
		Fine-medium grained, gray, massive, crystalline Frs=15/m :Vns =0/m Moderate CB pervasive Weak LI coatings Trace PY disseminated Moderatly CB bleached dior. Groundmass FGR with probable Fs xtals, phenocrysts of HB to 3mm long. Limonitic fracture coatings.										
133.80	146.90	Siltstone	35039	133.80-134.80	1.00					150.00	35.00	
		Aphanitic, blackish-gray, veined, laminated	35040	137.10-138.10	1.00						89.00	
		cleavage, foliation 60°:bedding 80°	35041	140.00-141.00	1.00					20.00	71.00	
		Frs=20/m :Vns =10/m	35042	143.00-144.00	1.00				0.40	10.00	54.00	
		Weak SI macroveins	35043	146.00-146.90	0.90						56.00	
		Weak CB macroveins Weak CO coatings Trace PY stringers Trace PR stringers Moderate QC vein										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Laminated slst strongly strained, PV CB bleaching and Qz- Cb veining. Most V's parallel to fol'n, Approx. 10-20% perp to fol'n. Many perp V's carry PR +_ PY, commonly convoluted, several isoclinal folds and fold pairs.										
		Structure: 174.5...S1=60 FA=70, 137.50 fold pair 10cm scale, 138.00m S0=80 degrees, 139.50....S1=45 142....S1=70 144.00...S1=70										
<133.80-134.25>		QUARTZ VEIN Aphanitic, whiteish-gray, banded, Brecciated Frs=5/m Intense SI vein										
		Lrg Qz vn at lower contact with dior dyke. Lower 10 cm. of vn contains Bx'd wall Rx, vn cut by 1-3mm later stage qz vn's, common graphitic partings and rare blebby PY										
<136.90-137.10>		DIORITE Fine grained, gray, massive, crystalline Frs=15/m :Vns =0/m Moderate CB pervasive Moderate MS pervasive										
		Similar diorite to above but finer grained and more intensely altered.										
146.90	147.52	GREENSTONE Aphanitic, grayish-green, banded, foliated cleavage, foliation 55°:qz-carb veining 25° Frs=6/m :Vns =10/m Weak SI macroveins Trace CL pervasive Weak CB macroveins Moderate MS pervasive Weak QC vein Banded gnst cut by 1-5mm qz-cb V's both parallel and perp to fol'n.	35905	146.90-147.50	0.60					95.00	28.00	10.00
147.52	172.00	Siltstone Aphanitic, dark black, laminated bedding 65°:qz-carb veining 65° Frs=25/m :Vns =10/m Weak SI macroveins Trace CB pervasive Trace PY blebs Weak PR blebs	35044	147.50-148.50	1.00						43.00	6.00
			35045	148.50-149.50	1.00						69.00	8.00
			35906	149.60-150.50	0.90					110.00	63.00	10.00
			35046	150.50-151.10	0.60				0.40	5.00	65.00	6.00
			35047	151.10-152.10	1.00				0.20	10.00	85.00	8.00
			35048	152.10-153.10	1.00				0.40	45.00	62.00	6.00
			35049	153.10-154.40	1.30				0.20	15.00	45.00	8.00
			35050	154.40-155.40	1.00				0.20	10.00	51.00	8.00

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Weak QC vein	35051	157.00-158.00	1.00				0.40		77.00	8.00
		Generally well laminated slst, lam's fairly consistent	35052	158.00-159.00	1.00				0.60	80.00	93.00	8.00
		at 40 to 65 degrees. Common qz-cb veining parallel to	35053	159.00-160.00	1.00				0.60	225.00	120.00	12.00
		lam/fol'n. Common PY+PR replacing laminations and as	35054	160.00-161.00	1.00				0.40		102.00	8.00
		blebby stringers parallel to laminations rare	35055	161.00-162.00	1.00				0.80		112.00	8.00
		x-cutting qz-cb v's. Common graphitic coatings on	35056	162.00-163.00	1.00				0.60		111.00	12.00
		fractures/shears often with PY, Zones of mod CB	35057	163.00-164.00	1.00				0.40	15.00	73.00	12.00
		bleaching.	35058	164.00-165.00	1.00				0.80	45.00	71.00	8.00
			35059	170.00-171.00	1.00				0.20	40.00	65.00	4.00
		Structure:	35060	171.00-172.00	1.00	90.00			0.40	45.00	71.00	6.00
		148m...So=65 152.40...S1=50 156.80....S1=45										
		157.20....S1=40 157.80....So=35 163.00m....So=40										
		168.70....S1=45 171.50....So=25										
		So consistantly parallel to S1										
<147.90-148.50>		DIORITE										
		Fine grained, gray, massive										
		contact 50°										
		Moderate CB vein										
		Strong MS pervasive										
		Trace PY disseminated										
		Strongly CB+SER alt diorite dyke parallel to fol'n and										
		bedding.										
<149.60-150.75>		Moderate CB pervasive										
		Strong MS pervasive										
		Trace PY disseminated										
		strongly CB+SER alt diorite dyke parallel to fol'n and										
		bedding										
<153.10-154.40>		CHERT										
		Aphanitic, pale gray, banded										
		bedding 40°										
		Frs=25/m :Vns =3/m										
		Intense SI pervasive										
		Weak QC vein										
		Very siliceous probable primary chert. Blk wispy										
		partings are probable original bedding. Rare PY										
<154.75-155.05>		QUARTZ VEIN										
		Aphanitic, pale white										
		qz veining 45°										
		Trace PY blebs										
		Trace PR blebs										
		30cm Qz vn with convoluted graphitic wall Rx										
		inclusions, 2% blebby PR + PY concentrated at margins.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
<164.45-165.80>		Siltstone Aphanitic, pale black, sheared Frs=100/m Moderate CB pervasive Moderate CO pervasive Weak PY blebs Zone of strong shear, graphitic alt intense, rock soft, crumbly.										
172.00	176.52	DIORITE Fine grained, greenish-gray, massive, veined qz veining 35° Frs=4/m :Vns =3/m Weak SI vein Trace CL pervasive Trace CB pervasive Moderate MS pervasive FGR [SER+CB+CHL] dior dyke, approx. 3% qz veining with 1-2cm calcite xtals at margins of veins, veins 0.1-2cm. Convoluted at margins of dyke.	35061 35907 35062	172.00-173.00 173.00-174.00 175.00-176.00	1.00 1.00 1.00					145.00 160.00 220.00	17.00 23.00 30.00	 8.00
176.52	182.10	Siltstone Aphanitic, pale black, laminated, veined bedding 30° Frs=15/m :Vns =5/m Strong SI vein Weak CB macroveins Weak CO coatings Weak PY blebs Weak PR blebs Strong QV vein Folded, laminated slst with PR+PY in laminations, blebs and as fracture coatings. 20% Qz veins up to 30cm wide. Veins often ribboned with graphitic 1-1.5mm partings. 1-2% PR+PY in veins usually as 1-2mm blebs concentrated at margins of veins.	35063 35064 35065 35066 35067 35068	176.00-177.00 177.00-178.00 178.00-179.00 179.00-180.00 180.00-181.00 181.00-182.00	1.00 1.00 1.00 1.00 1.00 1.00	 90.00 230.00 715.00			0.40 0.40 0.40 0.40 0.40 0.40	155.00 30.00 10.00 35.00 60.00 60.00	74.00 85.00 68.00 67.00 58.00 69.00	8.00 24.00 24.00 8.00 12.00 2.00
182.10	184.50	GREENSTONE Aphanitic, greenish-gray, banded, veined cleavage, foliation 45° Frs=12/m :Vns =5/m Weak SI vein Trace CL vein Weak CB vein Trace PY blebs Trace PR blebs	35069	182.00-183.00	1.00	110.00				460.00	30.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Weak QC vein										
		Banded foliated gnst, possible strongly fol'd dior.										
		Approx 3% fol'n parallel and contorted Qz +-Cb V's.										
		Vein margins carry 1-5% PY+PR										
184.50	202.44	Siltstone	35070	184.00-185.00	1.00	440.00				405.00	63.00	6.00
		Aphanitic, pale black, laminated, veined	35071	185.00-186.00	1.00	605.00			0.40	290.00	89.00	10.00
		Frs=10/m :Vns =10/m	35072	186.00-187.00	1.00	775.00			0.40	1130.00	59.00	8.00
		Weak SI macroveins	35073	187.00-188.00	1.00	1.48			0.60	185.00	80.00	18.00
		Weak CB macroveins	35074	188.00-189.00	1.00	505.00				140.00	61.00	8.00
		Weak PY laminations	35075	189.00-190.00	1.00	345.00			0.40	115.00	91.00	14.00
		Weak PR laminations	35076	190.00-191.00	1.00	740.00			0.40	180.00	110.00	16.00
		Moderate QC vein	35077	191.00-192.00	1.00	145.00				55.00	47.00	6.00
		Qz, Cb and QZ-Cb veined slst, well laminated,	35078	192.00-193.00	1.00	635.00			0.40	1310.00	61.00	6.00
		lamination often tightly folded. Last 1m of hole	35079	193.00-194.00	1.00	925.00			0.40	525.00	52.00	8.00
		intensly graphitic, sheared fault.	35080	194.00-195.00	1.00					10.00	37.00	6.00
(eoh)			35081	195.00-196.00	1.00						26.00	6.00
			35082	196.00-197.00	1.00					15.00	45.00	10.00
			35083	197.00-198.00	1.00					5.00	42.00	8.00
			35084	198.00-199.00	1.00				0.20		47.00	10.00
			35085	199.00-200.00	1.00						40.00	16.00
			35086	200.00-201.00	1.00				0.20		55.00	14.00
			35087	201.00-202.00	1.00				0.20	30.00	45.00	12.00

12/16/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — AG96-02

PROJECT: AMPLE	Date Commenced: APR. 21	Contractor: HY-TECH	Logged by: KP
DRILL HOLE: AG96-02	Date Completed: APR. 23		Geotech by: CK
LENGTH: 173.48	Core Diam: BQTK		

Collar Location

Latitude: 5610987.00
Departure: 568806.00
Elevation: 1048.00

S U M M A R Y

0.00-6.75	CASING
6.75-26.70	GREENSTONE
26.70-29.00	DIORITE
29.00-29.20	FAULT ZONE
29.20-31.40	Siltstone
31.40-33.00	LAPILLI TUFF
33.00-48.40	Siltstone
48.40-51.50	CONGLOMERATE
51.50-77.65	Siltstone
77.65-80.80	DIORITE
80.80-103.10	Siltstone
103.10-107.35	DIORITE
107.35-111.50	Siltstone
111.50-112.10	FAULT ZONE
112.10-116.20	DIORITE
116.20-121.10	Siltstone
121.10-122.80	DIORITE
122.80-139.40	Siltstone
139.40-142.10	DIORITE
142.10-144.21	Siltstone
144.21-146.00	DIORITE
146.00-148.15	Siltstone
148.15-152.45	DIORITE
152.45-165.80	Siltstone
165.80-166.25	DIORITE
166.25-173.48	Siltstone

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	150.00	-60.00	BRUNTON
15.20	160.60	-60.00	SPERRY SUN
172.30	173.50	-58.50	SPERRY SUN

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
0.00	6.75	CASING										
<0.00-0.00>												
6.75	14.85	GREENSTONE	35088	7.10-8.10	1.00					40.00	108.00	4.00
		, greenish-brown, broken, foliated	35089	8.10-9.00	0.90					50.00	240.00	
		cleavage, foliation 60°	35090	16.50-17.50	1.00					145.00	207.00	
		Frs=50/m :Vns =1/m	35091	17.50-18.50	1.00	205.00				370.00	101.00	
		Weak SI vein	35092	18.50-19.50	1.00	330.00				575.00	213.00	
		Moderate CL pervasive	35093	19.50-20.50	1.00	670.00				295.00	143.00	
		Strong CB pervasive	35094	20.50-21.50	1.00	415.00				165.00	156.00	
		Weak QC vein	35095	21.50-22.50	1.00					45.00	238.00	
		STRONGLY FOL'D GNST; COMMON SLST BANDS/LAMINATIONS AT	35096	22.50-23.50	1.00					10.00	295.00	
		TOP OF INTERVAL. INTERVAL GENERALLY VERY BROKEN AND	35097	23.50-24.50	1.00					85.00	221.00	
		STRONG LIM STAINING ON FRACTURES. 3% QTZ/CARB VNS	35098	24.50-25.50	1.00					325.00	220.00	
		1-20CM	35099	25.50-26.50	1.00					135.00	111.00	
<7.60-8.15>		Aphanitic, dark gray, vuggy, banded										
		Frs=20/m										
		Intense SI pervasive										
		Weak LI coatings										
		VERY STRONGLY SIL'D OR POSSIBLY ORIGINAL CHERT BANDED										
		TEXTURE MAY BE ORIGINAL BEDDING										
<13.50-14.85>		Aphanitic, dark gray, veined										
		Frs=40/m :Vns =50/m										
		Intense SI pervasive										
		Trace PY disseminated										
		Strong QV vein										
		STRONGLY PV SIL'D ZONE W/ 10% QTZ VNS 0.1-1 CM, TRACE										
		VFG DISS PY										
<17.80-17.81>		bedding 75°										
<17.95-18.05>		QUARTZ-CALCITE VEINS										
		Aphanitic, pale white										
		Frs=40/m										
		Intense SI vein										
		Strong LI blebs										
		QTZ VN W/ 10% LIM										
<24.45-24.75>		Frs=10/m										
		Intense SI vein										
		Strong LI blebs										
		QTZ VN W/ 10% LIM										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
<25.70-25.71>		bedding 50°										
26.70	29.00	DIORITE Fine grained, pale gray, crystalline, massive :Vns =50/m Intense CB pervasive STRONG CARB ALT PROBABLE DIORITIC INTR POSSIBLY MGR SST ORANGE TINT DUE TO PERV FE-CARB										
29.00	29.20	FAULT ZONE Aphanitic, gray, fault gouge :Vns =1/m SMALL ZONE OF INTENSE FAULT GOUGE, LIMONITE AMD MINOR CALCITE VEINING										
29.20	31.40	Siltstone , gray, banded bedding 60° Frs=50/m Trace PY disseminated STRONGLY SHEARED SLST/SST WITH PROBABLE PARTIAL VOLCANIC SOURCE RARE FGR PYRITE DISS ALONG FOL/BED PLANES										
31.40	33.00	LAPILLI TUFF Fine-coarse grained, pale gray, clastic, foliated cleavage, foliation 55°:dyke 50° Frs=10/m Intense CB pervasive Trace PY disseminated STRONGLY CARB BLEACHED STRONGLY FOL'D/STRAINED CONG. CLASTS ELONGATED STRONGLY. ONE SMALL 3CM DIOR DYKE PARALLEL TO FOL'N AT 32.70M	35100	32.00-33.00	1.00					5.00	46.00	
33.00	48.40	Siltstone , dark black, laminated, veined bedding 45° Frs=40/m :Vns =5/m Weak SI macroveins Weak CB macroveins Weak CO coatings Trace PY blebs Moderate QC vein MASSIVE TO LAMINATED BLK SLST W/ RARE CLASTIC ZONES. SILACEOUS 1-3 MM CLASTS MATRIX SUPPORTED AND STRONGLY ELONGATED. PERVASIVE CB ALT AND 5% QZ-CB VNS. PY	35101 35102 35103 35104 35105 35106 35107 35108	33.00-34.00 34.00-35.00 42.00-43.00 43.00-44.00 44.00-45.00 45.00-46.00 46.00-47.00 47.00-48.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00					15.00 5.00	74.00 82.00 73.00 91.00 74.00 84.00 75.00 86.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		COMMONLY ASSOCIATED W/ VNS ALONG VN MARGINS.										
	<33.50-33.51>	bedding 45°										
	<37.30-37.31>	bedding 70°										
	<41.90-41.91>	bedding 65°										
	<43.70-43.71>	bedding 75°										
	<46.50-46.51>	bedding 65°										
	<46.51-46.52>	qz-carb veining 35°										
48.40	51.50	CONGLOMERATE										
		Fine-coarse grained, dark gray, clastic, foliated										
		bedding 55°:lineations 65°										
		Frs=15/m										
		Strong CB pervasive										
		Trace PY disseminated										
		STRONGLY SHEARED CONGLOMERATE. CLASTS 50% SILICEOUS,										
		50%SERICITE ALTERED POSSIBLE VOLCANICS.										
51.50	77.65	Siltstone	35109	52.00-53.00	1.00						43.00	
		, grayish-green, laminated, foliated	35110	57.00-58.00	1.00					5.00	43.00	
		cleavage, foliation 65°:bedding 60°	35111	58.00-59.00	1.00					15.00	67.00	
		Frs=15/m :Vns =2/m	35112	60.00-61.00	1.00					20.00	23.00	
		Weak SI macroveins	35113	63.00-64.00	1.00					45.00	33.00	
		Trace CL pervasive	35114	65.85-66.85	1.00					90.00	71.00	
		Strong CB pervasive	35115	75.50-76.50	1.00					90.00	150.00	
		Trace CO coatings										
		Weak QC vein										
		MASSIVE LAMINATED SLST W/ UP TO 60% FGR VOLC										
		INCREASING TOWARDS BOTTOM OF INTERVAL. RARE QTZ-CARB										
		VNS CONCENTRATED IN CONVOLUTED ZONE. PERVASIVE MEDIUM										
		TO VERY STRONG CARB ALT										
	<52.70-52.71>	cleavage, foliation 60°										
	<53.40-53.41>	bedding 60°										
	<55.30-55.31>	cleavage, foliation 60°										
	<55.30-57.15>	CONGLOMERATE										
		Fine-coarse grained, dark gray, clastic, foliated										
		Frs=15/m										
		Strong CB pervasive										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Trace PY disseminated										
		SAME AS CONG AT 48.40-51.50M										
<57.15-57.62>		QUARTZ-CALCITE VEINS										
		Aphanitic, whiteish-green, mottled										
		QTZ-CARB VN W/ LARGE BLEBBY COVOLUTED POSSIBLE										
		VOLCANIC OR INTRUSIVE ASSOCIATED. RARE PY AT VN										
		MARGINS										
<59.20-59.21>		cleavage, foliation 70°										
<60.00-60.67>		FAULT ZONE										
		Dark black, broken, sheared										
		Frs=100/m										
		Trace SI macroveins										
		Intense CB pervasive										
		Intense CO coatings										
		Weak PY blebs										
		Weak QC vein										
		STRONGLY SHEARED FLT ZONE W/ ZONE OF CONVOLUTED										
		BEDDING BELOW										
<61.30-61.31>		qz veining 65°										
<66.00-66.45>		CHERT										
		Aphanitic, gray, massive, veined										
		qz veining 55°										
		Frs=10/m :Vns =10/m										
		Intense SI pervasive										
		Weak CB coatings										
		Trace PY blebs										
		Strong QV macroveins										
		STRONGLY SIL'D OR ORIGINAL CHRT ZONE. QZ VNS 0.5-2 CM										
		WITH BLEBBY PY IN VN MARGIN AND IN WALLROCK NEAR VNS.										
<70.00-70.01>		cleavage, foliation 70°										
<72.25-72.26>		cleavage, foliation 75°										
<76.30-76.31>		cleavage, foliation 60°										
<77.60-77.61>		cleavage, foliation 65°										
77.65	80.80	DIORITE										
		Fine-medium grained, greenish-gray, crystalline, foliated										
		cleavage, foliation 60°										
		Frs=5/m :Vns =1/m										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Weak SI macroveins										
		Moderate CL pervasive										
		Trace CB pervasive										
		Moderate MS pervasive										
		Weak QC vein										
		STRONGLY FOLIATED XTALINE PROBABLE DYKE. MG IN CENTER										
		FG AT MARGINS, ONE 1CM QTZ VN PARALLEL TO FOLIATION										
80.80	103.10	Siltstone	35116	81.00-82.00	1.00					375.00	57.00	
		, dark black, foliated, laminated	35117	84.00-85.00	1.00					30.00	74.00	
		bedding 50°	35118	86.00-87.00	1.00	105.00				30.00	77.00	
		Frs=20/m :Vns =3/m	35119	87.00-88.00	1.00	1.11				110.00	101.00	
		Moderate SI vein	35120	88.00-89.00	1.00	930.00				2470.00	70.00	
		Moderate CB pervasive	35121	89.00-90.00	1.00					30.00	74.00	
		Trace CO coatings	35122	91.00-92.00	1.00					20.00	38.00	
		Weak PY stringers	35123	97.00-98.00	1.00	195.00				10.00	63.00	4.00
		Trace PR blebs	35124	98.00-99.00	1.00						64.00	
		Moderate QC vein	35125	99.00-100.00	1.00						67.00	
		LAMINATED TO MASSIVE SLST CUT BY 0.1-10CM QZ/CB VNS W/	35126	100.00-101.00	1.00						67.00	
		1-2% BLEBBY PY +/- PR. RARE MIGMATIC QZ/CARB VNS.	35127	101.00-102.00	1.00					10.00	64.00	
		0.5% PY/PO AS BLEBBY STRINGERS/LAMINATIONS IN	35128	102.00-103.00	1.00						39.00	
		LAMINATED SLST										
<89.50-89.51>		bedding 50°										
<90.50-90.51>		bedding 70°										
<101.50-101.51>		cleavage, foliation 55°										
<102.80-102.81>		cleavage, foliation 60°										
103.10	107.35	DIORITE	35129	105.50-106.50	1.00					200.00	68.00	
		Fine-medium grained, grayish-green, foliated, crystalline										
		cleavage, foliation 50°:qz veining 20°										
		Frs=8/m :Vns =2/m										
		Moderate SI vein										
		Moderate CL pervasive										
		Weak CB macroveins										
		Strong MS pervasive										
		Trace CO coatings										
		Trace PY disseminated										
		Trace PR blebs										
		Weak QV vein										
		Moderate QC vein										
		STRONGLY FOLIATED DYKE. CRYSTAL SIZE INCREASES										
		TOWARDS CENTER OF DYKE. COMMON GRAPHITE ON FRACTURE										
		SURFACES										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
107.35	111.50	Siltstone , dark black, massive, foliated cleavage, foliation 75° Frs=7/m :Vns =2/m Weak SI macroveins Trace CB pervasive Trace CO coatings Trace PY disseminated Weak QC vein MASSIVE SLST WITH RARE LAMINATIONS. STRONGLY DUCTILY DEFORMED. FEW .5-1 CM QTZ/CARB VNS W/ SMALL BLEBS OF PR&PY										
111.50	112.10	FAULT ZONE Blackish-white, sheared, broken shear 50°:shear 20° Frs=150/m :Vns =20/m Strong SI vein Intense CB pervasive Strong CO pervasive Weak PY blebs Strong QC vein STRONG SHEAR ZONE W/ INTENSE GRAPHITIC ALTERATION; QTZ VEINING W/ UP TO 2% BLEBBY PYRITE										
112.10	116.20	DIORITE , pale gray, crystalline, foliated cleavage, foliation 65°:qz veining 65° Frs=20/m :Vns =4/m Moderate SI macroveins Intense CB pervasive Intense MS pervasive Trace PY disseminated Moderate QC vein STRONGLY SERECITE ALTERED DIORITC? DYKE. MODERATE TO STRONGLY CARBONATE BLEACHED. NO GREEN FRESH CHL AS WITH OTHER DYKES	35130 35131	111.40-112.40 115.00-116.00	1.00 1.00	270.00				765.00 195.00	49.00 30.00	2.00
116.20	121.10	Siltstone , dark black, veined, clastic bedding 75°:cleavage, foliation 65° Frs=25/m :Vns =5/m Trace SI macroveins Weak CB macroveins Trace PY blebs Weak QC vein	35132	116.20-117.20	1.00					35.00	27.00	4.00

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		MASSIVE TO FAINTLY LAMINATED SLST TO MG SS INTERVALS WHERE CLASTICS ARE VERY FLATTENED. MINOR GRAPH ON FRACTURES. 2-3% DOMINANTLY CC(+/-QTZ) VNS 0.1 TO 0.5 CM. MOST PERPENDICULAR TO FOLIATION										
121.10	122.80	DIORITE	35133	121.80-122.80	1.00					15.00	164.00	
		, gray, massive										
		dyke 60°										
		Frs=10/m :Vns =5/m										
		Weak SI vein										
		Weak CB macroveins										
		Intense MS pervasive										
		Weak PY stringers										
		SAME AS 112.1-116.2 DIOR DYKE BUT FINER GRAINED										
122.80	139.40	Siltstone	35134	122.80-123.80	1.00					10.00	83.00	4.00
		, dark black, laminated, clastic	35135	127.50-128.50	1.00						47.00	8.00
		bedding 60°	35136	129.80-130.80	1.00					180.00	34.00	
		Frs=15/m	35137	138.00-139.00	1.00						58.00	6.00
		Trace SI macroveins										
		Weak CB macroveins										
		Trace CO coatings										
		Weak PY stringers										
		Weak CV vein										
		SLST W/ COMMON SST BEDS. TIGHTLY FOLDED ZONE 125M TO 131M. RARE STRINGERS OF PY-PR ALONG LAMINATIONS										
<129.90-130.40>		INTRUSIVE										
		Aphanitic, tanish-gray										
		dyke 50°										
		Frs=20/m :Vns =1/m										
		Intense SI vein										
		Moderate CB vein										
		Moderate PY vein										
		Intense QC vein										
		APHANITIC GREY/BROWN PLASTIC LOOKING INTR W/ ONE 15CM QZ-CB VN IN THE CENTER. SEVERAL CB-PY VNS 0.1CM TO 1CM AT DYKE MARGINS. DYKE CUTS BEDDING										
<131.90-132.25>		dyke 50°										
		Frs=20/m :Vns =1/m										
		SAME 129.9-130.4 BUT NO QTZ VN										
139.40	142.10	DIORITE	35138	140.00-141.00	1.00						7.00	2.00
		Aphanitic, gray, bleached	35139	141.00-142.00	1.00						51.00	8.00
		dyke 40°										
		Frs=10/m										

FROM	TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Intense CB pervasive										
		Intense MS pervasive										
		Trace PY coatings										
		Weak CV vein										
		APHANITIC STRONGLY CB-SER ALT INTR. DIOR?										
142.10	144.21	Siltstone										
		, dark black, massive, bedded										
		bedding 60°										
		Frs=30/m :Vns =5/m										
		Trace SI macroveins										
		Trace CB macroveins										
		Weak PY stringers										
		Weak QC vein										
		MASSIVE TO BEDDED SLST, 1% 1-3MM QTZ/CARB VNS. PY										
		STRGRS NEAR OVERLYING INTRUSIVE UNIT.										
144.21	146.00	DIORITE										
		Aphanitic, gray, bleached										
		dyke 40°										
		Frs=10/m										
		Intense CB pervasive										
		Intense MS pervasive										
		Trace PY coatings										
		Weak CV vein										
		DIOR SAME AS 139.4-142.1										
146.00	148.15	Siltstone	35141	146.00-147.00	1.00						36.00	4.00
		, dark black, massive, bedded	35142	147.00-148.00	1.00	230.00					28.00	2.00
		bedding 60°										
		Frs=10/m :Vns =2/m										
		Trace SI macroveins										
		Weak CB macroveins										
		Trace PY stringers										
		Weak CV vein										
		Trace QC vein										
		SLST INTERBEDDED W/ FG SS. MODERATE SHEAR ZONE AT TOP										
		OF INTERVAL AT CONTACT W/ DIOR. 1% CONVOLUTED CB										
		VNS0.5% PLANAR FOL'N CUTTING QTZ/CARB VNS. .5% PY IN										
		STRGRS AND BLEBS. SST /W COMMON SLST RIP UP CLASTS?										
		TO 1 CM										
148.15	152.45	DIORITE	35143	148.00-149.00	1.00						42.00	4.00
		Fine-coarse grained, green, chilled margin										
		dyke 15°:qz veining 25°										
		Frs=5/m :Vns =5/m										
		Weak SI vein										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Moderate CL pervasive										
		Trace CB macroveins										
		Strong MS pervasive										
		Weak QV vein										
		Trace CV vein										
		ZONE OF 3 DYKES AT VERY LOW ANGLE TO CORE AXIS.										
		BOTTOM TWO DEFINATELY SAME, TOP PROBABLY. 2-3 MM										
		CHILLED MARGINS.										
		ROUND TO AMEBOID QZ BLEBS 1-5MM, POSSIBLY AMYGDULES,										
		INCREASING TOWARDS BOTTOM OF DYKES. ALSO 1-3MM CLOTS										
		OF CHLORITE ASSOCIATED W/ QTZ BLEBS										
	<148.72-149.82>	Siltstone										
		Aphanitic, dark black, massive, laminated										
		bedding 50°										
		Frs=10/m :Vns =3/m										
		Weak SI vein										
		Weak CB vein										
		Weak PY stringers										
		Moderate QC vein										
		MASSIVE TO FAINTLY LAMINATED SILTSTONE. BEDDING WHERE										
		VISIBLE IS CONVOLUTED. PY AS STRGRS TO FRACTURE										
		COATING										
	<151.05-151.75>	bedding 50°										
		Frs=5/m :Vns =2/m										
		Weak SI vein										
		Weak CB vein										
		Weak PY stringers										
		Trace PR blebs										
		Weak QC vein										
		SAME AS 148.72-149.82 PY & PR IN BLEBS ASSOC W										
		QTZ/CARB VNS										
	<152.45-165.80>	, dark black, bedded, veined	35144	155.00-156.00	1.00					10.00	53.00	10.00
		bedding 65°	35145	156.00-157.00	1.00	1.38				490.00	55.00	6.00
		Frs=15/m :Vns =20/m	35146	157.00-158.00	1.00					90.00	88.00	58.00
		Weak SI vein	35147	158.00-159.00	1.00					70.00	60.00	6.00
		Moderate CB macroveins	35148	159.00-160.00	1.00					70.00	60.00	16.00
		Trace CO coatings	35149	160.00-161.00	1.00	90.00				135.00	54.00	16.00
		Moderate PY blebs	35150	164.00-165.00	1.00					30.00	32.00	4.00
		Moderate QC vein										
		MASSIVE TO LAMINATED SLST INTERCAL W/ SST. STRONG										
		STOCKWORKED CC & PV VNG (1-5MM) ABOVE FLT ZONE AT										
		160M. SST MASSIVE W/ STR PERV CB ALT										
165.80	166.25	DIORITE	35151	165.00-166.00	1.00					125.00	98.00	6.00

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Fine grained, greenish-gray, chilled margin, foliated cleavage, foliation 55°:dyke 50° Frs=1/m Moderate CL pervasive Strong MS pervasive MG EQUIVALENT OF OTHER DYKES. XTLS STRONGLY ALIGNED-FOLIATED. CAN IDENTIFY FSP, PROBABLE HBL PHENOS NO VISIBLE QUARTZ										
166.25	173.48	Siltstone	35152	167.50-168.50	1.00					5.00	42.00	8.00
		, blackish-gray, bedded	35153	172.48-173.48	1.00					20.00	25.00	4.00
		bedding 40° Frs=10/m Weak SI macroveins Weak CB macroveins Trace PY blebs Weak QC vein SLST WITH INTERBEDDED SST AND GRIT. COMMON CB VNG +/- BLEBBY PY. INTERVAL STRONGLY FOLDED/CONVOLUTED AT 168M. BEDDING GENERALLY AT 40-50. COMMON SLST RIP-UP CLASTS IN SST. ONE 5CM BX'D QTZ-CB-CHL VN AT BASE OF HOLE										
(eoh)												

12/16/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — AG96-03

PROJECT: AMPLE	Date Commenced: APR. 23	Contractor: HY-TECH	Logged by: KP
DRILL HOLE: AG96-03	Date Completed: APR.24		Geotech by: CK
LENGTH: 103.00	Core Diam: BQTK		

Collar Location

Latitude: 5610987.00
Departure: 568804.00
Elevation: 1048.00

SUMMARY

0.00-3.05	CASING
3.05-24.95	GREENSTONE
24.95-32.50	Siltstone
32.50-35.20	DIORITE
35.20-56.85	Siltstone
56.85-59.05	QUARTZ VEIN •
59.05-69.00	Siltstone
69.00-70.25	DIORITE
70.25-103.35	Siltstone

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	200.00	-45.00	BRUNTON
15.20	210.50	-48.00	SPERRY SUN
104.90	215.50	-47.50	SPERRY SUN

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
0.00	3.05	CASING										
	<0.00-0.00>											
3.05	24.95	GREENSTONE	35154	4.88-5.65	0.77						46.00	8.00
		, greenish-brown, broken, foliated	35155	5.65-6.30	0.65					30.00	45.00	
		cleavage, foliation 65°:qz veining 65°	35156	12.00-13.61	1.61	400.00				355.00	73.00	
		Frs=300/m :Vns =5/m	35157	14.00-15.00	1.00	290.00				340.00	107.00	
		Weak SI macroveins	35158	20.20-21.20	1.00	460.00				875.00	113.00	2.00
		Strong CL pervasive										
		Moderate CB pervasive										
		Trace QV vein										
		Trace CV vein										
		Very broken, fractured faulted zone. Moderate to										
		strong fe-cb alt. Several zones of broken limontic										
		qtz pieces. Where gnst is visible strongly fol'd										
		common 0.5 cm qtz/carb vns parallel to foliation.										
		foliation consistantly 65 deg.										
	<3.80-4.25>	CHERT										
		Aphanitic, gray, massive, mottled										
		Frs=30/m :Vns =1/m										
		Intense SI pervasive										
		Chert or pervasively silicified zone.										
	<5.65-6.30>	Frs=30/m :Vns =1/m										
		Intense SI pervasive										
		Chert or pervasively sil'd zone w/ one >7cm qtz vn w/										
		chl/lim ribboning.										
24.95	32.50	Siltstone	35159	25.00-26.00	1.00					40.00	63.00	4.00
		Fine-coarse grained, dark black, foliated	35160	26.00-27.00	1.00						46.00	8.00
		bedding 60°:cleavage, foliation 70°	35161	28.00-29.00	1.00					20.00	36.00	
		Frs=30/m :Vns =5/m	35162	30.00-31.00	1.00						61.00	2.00
		Trace SI macroveins										
		Trace CB macroveins										
		Trace PY blebs										
		Trace QC vein										
		TR% pyrite - blebs										
		Strongly fol'd slst w/ common foliation parallel										
		carbonate vns w/ rare blebby pyrite. Several coarser										
		tuff beds w/in slst.										
	<25.05-25.60>	QUARTZ VEIN										
		Blackish-white										
		qz veining 80°										

FROM	TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Frs=15/m :Vns =70/m										
		Intense SI macroveins										
		Moderate LI vein										
		Zone of sheated qtz vns 0.2-1 cm w/ limontic margins.										
		Convoluted & highly strained but overall about 80 deg.										
	<28.50-29.10>	DIORITE										
		Fine-medium grained, gray, massive, crystalline										
		dyke 60°										
		Frs=10/m :Vns =1/m										
		Strong SI vein										
		Trace CL pervasive										
		Trace CB pervasive										
		Strong MS pervasive										
		Trace PY disseminated										
		Strong QC vein										
		TR% pyrite - disseminated										
		FG probable dior dyke w/ one 3cm qtz-cb vn in center										
		of dyke.										
	<32.50-35.20>	Fine-medium grained, greenish-gray, crystalline	35912	33.50-34.50	1.00					70.00	90.00	14.00
		Frs=10/m :Vns =2/m										
		Moderate CL pervasive										
		Weak CB pervasive										
		Moderate MS pervasive										
		Trace CV vein										
		MG diorite. Grain size increasing towards center of										
		dyke. Moderatly foliated, fsp & probable hbl phenos										
		visible.										
35.20	56.85	Siltstone	35163	37.00-38.00	1.00					20.00	65.00	4.00
		Fine-coarse grained, dark black, laminated	35164	40.10-41.60	1.50					20.00	57.00	6.00
		bedding 65°:cleavage, foliation 70°	35165	42.00-43.00	1.00					10.00	60.00	10.00
		Frs=40/m :Vns =10/m	35166	43.50-44.50	1.00						77.00	4.00
		Trace SI macroveins	35167	49.00-50.00	1.00					10.00	58.00	4.00
		Weak CB macroveins	35168	50.65-51.65	1.00					140.00	43.00	
		Trace PY blebs	35169	54.85-55.85	1.00					170.00	73.00	
		Weak CV vein	35170	55.85-56.85	1.00	215.00				1340.00	46.00	
		TR% pyrite - blebs										
		Massive to laminated slst w/ several lapilli tuff										
		intervals. Also some gnst (ash tuff?) near base.										
		fol'n fairly consistant about 70 deg. Bedding										
		consistant for top portion of interval, convoluted										
		from 58m to base of interval.										
	<40.10-41.60>	FAULT ZONE										
		Aphanitic, dark black, fault gouge										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Trace SI vein										
		Trace PY disseminated										
		Trace QV vein										
		1%% pyrite - disseminated										
		Fault gouge zone; no discernable orientation.										
<50.40-50.65>		DIORITE										
		Fine grained, grayish-green, massive										
		dyke 70°										
		Frs=25/m										
		Trace CL pervasive										
		Moderate CB pervasive										
		Moderate MS pervasive										
		Small dior dyke w/ assoc cal+qz +py vng in slst below										
		dyke.										
56.85	59.05	QUARTZ VEIN	35171	56.85-57.95	1.10	115.00				1710.00	5.00	
		Aphanitic, pale white, massive, ribboned	35172	57.95-59.05	1.10					820.00	6.00	
		qz veining 70°										
		Frs=7/m										
		Intense SI vein										
		Trace PY blebs										
		Trace PR blebs										
		Intense QV vein										
		1%% pyrite - blebs										
		.5% pyrrhotite - blebs										
		2.2m qtz vn ribboned at margins w/ graphitic material										
		1-2mm wide. Rare aspy as fine grained coatings on										
		fracture surfaces/ribbons.										
<56.85-59.05>		1 % pyrite - blebs										
		.2% arsenopyrite - coatings										
		.5% pyrrhotite - blebs										
		in 2m qtz vn										
59.05	69.00	Siltstone	35173	59.05-60.05	1.00	160.00				280.00	54.00	
		Fine-coarse grained, dark black, foliated	35174	60.05-61.05	1.00	100.00				600.00	49.00	
		cleavage, foliation 60°	35175	62.00-63.00	1.00					50.00	56.00	
		Frs=25/m :Vns =5/m	35176	63.00-64.00	1.00					15.00	19.00	
		Trace SI vein	35177	65.00-66.00	1.00					10.00	76.00	4.00
		Weak CB macroveins	35178	68.00-69.00	1.00					150.00	95.00	
		Trace CO coatings										
		Trace PY coatings										
		Trace CV vein										
		Weak QC vein										
		.5% pyrite - coatings										
		Fol'd slst. Where lams visible tightly folded to										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		convoluted. Pervasive microshearing along fol'n. Calcite vns commonly parallel to foliation, strong pv cb alt towards top of zone. Up to 60% volcanic material (GNST) in a mottled mish-mash between slst & gnst. Foliation fairly consistant at 50-60 deg.										
<63.30-64.20>		SANDSTONE , gray, massive Frs=4/m Intense CB pervasive Trace PY disseminated TR% pyrite - disseminated Massive strongly cb bleached sst. Clasts to 1.5 mm; generally mx supported.										
69.00	70.25	DIORITE Fine grained, pale gray, massive, crystalline dyke 70° Frs=20/m Trace SI vein Trace CL pervasive Trace CB pervasive Moderate MS pervasive Trace PY disseminated Trace QV vein TR% pyrite - disseminated Fgr dior dyke. One 2cm qz vn at upper contact.										
70.25	103.35	Siltstone	35179	71.00-72.00	1.00				0.80	25.00	104.00	
		Fine-coarse grained, blackish-gray, laminated, massive	35180	72.00-73.00	1.00				0.40	15.00	89.00	2.00
		cleavage, foliation 50°	35181	73.00-74.00	1.00					30.00	77.00	4.00
		Frs=20/m :Vns =5/m	35182	74.00-75.00	1.00					340.00	56.00	
		Trace SI vein	35183	77.00-78.00	1.00					20.00	65.00	6.00
		Weak CB macroveins	35184	78.00-79.00	1.00					5.00	67.00	4.00
		Trace CO coatings	35185	79.00-80.00	1.00					10.00	71.00	6.00
		Trace PY blebs	35186	80.00-81.00	1.00					15.00	69.00	2.00
		Trace PR blebs	35187	81.00-82.00	1.00						84.00	6.00
		Trace QV vein	35188	90.00-91.00	1.00						56.00	10.00
		Weak QC vein	35189	91.00-92.00	1.00						56.00	10.00
		1 % pyrite - blebs	35190	92.00-93.00	1.00						53.00	8.00
		1 % pyrrhotite - blebs	35191	97.00-98.00	1.00					55.00	110.00	24.00
		Massive to laminated slst. Beds of strongly cb alt	35192	99.00-100.00	1.00						55.00	10.00
		volcaniclastic sst to probable cong similar to those	35193	100.00-101.00	1.00						68.00	18.00
		in interval above dior. Fol'n generally very	35194	101.00-102.00	1.00	430.00				10.00	56.00	12.00
		consistant at 50-60 deg. Bedding and lamination	35195	102.00-103.00	1.00	150.00				45.00	86.00	12.00
		parallel to foliation, except from 71.5 to 75.5 and 90.0 to 93.2 where bedding is tightly folded and										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
	convoluted										
<70.60-70.61>	cleavage, foliation 50°										
<73.20-73.21>	cleavage, foliation 55°										
<73.40-74.40>	Siltstone Aphanitic, blackish-white, veined, contorted Frs=15/m :Vns =19/m Strong SI vein Trace PY blebs Trace PR blebs Strong QV vein 2%% pyrite - blebs 2%% pyrrhotite - blebs Zone of 25% convoluted 0.5-2 cm qz vns. Py&pr in stringers and blebs in slst and concentrated along vn margins.										
<75.00-75.01>	cleavage, foliation 30°										
<76.00-76.01>	bedding 50°										
<80.85-80.86>	bedding 60°										
<82.80-82.81>	bedding 60°										
<86.20-86.21>	cleavage, foliation 55°										
<89.50-89.51>	bedding 50°										
<99.50-103.00>	Siltstone Aphanitic, blackish-white, veined Strong SI vein Moderate CB macroveins Trace PY blebs Trace PR blebs Strong QV vein Moderate CV vein 1%% pyrite - blebs 1%% pyrrhotite - blebs Approx 12% qz vns w/ 2-3% py+pr in blebs mostly /w cb vnlts.										
<103.00-103.01> (eoh)	bedding 75°										

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — AG96-04

PROJECT: AMPLE	Date Commenced: APR. 24	Contractor: HY-TECH	Logged by: KP
DRILL HOLE: AG96-04	Date Completed: APR. 27		Geotech by: CK
LENGTH: 177.44	Core Diam: BQTK		

Collar Location

Latitude: 5610944.00
Departure: 568730.00
Elevation: 1090.00

S U M M A R Y

0.00-9.15	CASING
9.15-26.50	OVERBURDEN
26.50-36.70	SANDSTONE
36.70-41.85	Siltstone
41.85-42.40	DIORITE
42.40-47.10	CONGLOMERATE
47.10-56.10	Siltstone
56.10-60.85	CONGLOMERATE
60.85-73.35	Siltstone **
73.35-74.45	DIORITE
74.45-76.70	Siltstone *
76.70-77.12	DIORITE
77.12-87.50	Siltstone
87.50-88.10	DIORITE
88.10-95.35	Siltstone *
95.35-95.90	DIORITE
95.90-113.70	Siltstone
113.70-114.70	GRANNODIORITE
114.70-123.62	Siltstone
123.62-128.65	Siltstone *
128.65-130.95	GREENSTONE
130.95-136.70	Siltstone
136.70-140.55	LAPILLI TUFF
140.55-166.05	Siltstone
166.05-166.90	DIORITE
166.90-168.30	Siltstone
168.30-170.30	DIORITE
170.30-177.15	Siltstone *
177.15-177.44	DIORITE

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	54.00	-61.50	BRUNTON
15.20	55.60	-60.50	SPERRY SUN
88.40	58.50	-62.50	SPERRY SUN
177.40	69.50	-66.00	SPERRY SUN

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
0.00	9.15	CASING										
<0.00-0.00>												
9.15	26.50	OVERBURDEN Probable overburden - sections of mg-cg diorite upto 30cm but interupted by rubble.										
26.50	31.55	SANDSTONE	35196	28.00-29.00	1.00				0.20		42.00	
		, dark gray, clastic, foliated	35197	32.00-33.00	1.00					15.00	64.00	
		cleavage, foliation 35° Frs=70/m :Vns =1/m Strong CB pervasive Trace CO coatings Weak QC vein Broken section, weak to moderate limonite staining on fractures. Intercalated with laminated slst. Rare limonitic qtz/carb vng.										
<32.10-31.55>		Fine-coarse grained, blackish-gray, Brecciated cleavage, foliation 30° Frs=15/m										
		Strongly deformed zone w/ wispy blebs of intr & bx'd clasts.										
36.70	41.85	Siltstone	35198	37.00-38.00	1.00					15.00	81.00	
		, black, massive, foliated	35199	38.00-39.00	1.00					10.00	62.00	
		cleavage, foliation 30°	35200	40.00-41.00	1.00					100.00	73.00	
		Frs=70/m :Vns =5/m Weak SI macroveins Weak CB macroveins Trace CO coatings Moderate QC vein Broken fol'd slst w/ up to 10% (over short interval) qz/carb veining. Veins dominantly parallel to fol'n but very blebby. Minor limonite on fracture surfaces.										
41.85	42.40	DIORITE	35201	41.00-42.00	1.00					75.00	66.00	
		Aphanitic, grayish-green, massive										
		dyke 30° Frs=30/m :Vns =2/m Trace CB pervasive Moderate MS pervasive Weak QV vein Aphanitic grey-green dyke, margins a bit convoluted but aprox 30 deg, parallel to fol'n.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
42.40	47.10	CONGLOMERATE	35202	46.00-47.00	1.00					15.00	46.00	
		Fine-coarse grained, grayish-black, clastic										
		bedding 20°:cleavage, foliation 15°										
		Frs=15/m :Vns =1/m										
		Intense CB pervasive										
		Weak QC vein										
		1 % pyrite - blebs										
		Strongly fol'd/lin'd cong. Clasts 3-13mm by up to										
		300mm, interbedded w/ 1-3 cm slst beds. 2 1cm										
		qtz/carb vns parallel to fol'n. Minor limonite on										
		fractures.										
47.10	56.10	Siltstone	35203	47.00-48.00	1.00					30.00	51.00	
		, blackish-gray, massive, foliated	35204	52.00-53.00	1.00					25.00	70.00	
		bedding 5°:cleavage, foliation 10°	35205	54.00-55.00	1.00	230.00					65.00	
		Frs=100/m :Vns =1/m										
		Moderate CB pervasive										
		Weak CO coatings										
		Trace QC vein										
		1 % pyrite - blebs										
		Strongly fol'd slst. Portions phylitic, foliation										
		generally 0-15 deg. Portions of interval medium to										
		coarse grained sandstone, generally carbonate altered.										
56.10	60.85	CONGLOMERATE	35206	57.00-58.00	1.00					20.00	40.00	
		Fine-coarse grained, gray, clastic	35207	59.00-60.00	1.00	115.00				15.00	88.00	
		cleavage, foliation 40°										
		Frs=20/m										
		Trace SI macroveins										
		Strong CB pervasive										
		1 % pyrite - disseminated										
		Strongly foliated conglomerate similar to 42.40-47.10m										
60.85	73.35	Siltstone	35208	60.00-61.00	1.00					45.00	44.00	
		, blackish-white, veined, contorted	35209	61.00-62.00	1.00	235.00				1105.00	63.00	
		bedding 0°:bedding 40°	35210	62.00-63.00	1.00	945.00				180.00	62.00	4.00
		Frs=15/m :Vns =10/m	35211	63.00-64.00	1.00	720.00			0.40	230.00	83.00	8.00
		Trace CB pervasive	35212	64.00-65.00	1.00	490.00			0.60	110.00	78.00	10.00
		Weak CO coatings	35213	65.00-66.00	1.00	190.00			0.40	70.00	77.00	10.00
		Intense QV vein	35214	66.00-67.00	1.00	5.72			1.00	65.00	54.00	16.00
		2 % pyrite - blebs	35215	67.00-68.00	1.00	725.00			0.20	70.00	98.00	
		Intensely quartz veined slst. Qz vns 1-20cm,	35216	68.00-69.00	1.00	225.00				720.00	65.00	4.00
		convoluted with no obvious preferred orientation.	35217	69.00-70.00	1.00	1.09				90.00	44.00	4.00
		Many veins ribboned with graphite +/-Py +Ap.	35218	70.00-71.00	1.00	140.00			0.20	40.00	35.00	6.00
		Arsenopyrite is dominantly 1-2 mm euhedral crystals in	35219	71.00-72.00	1.00	90.00				15.00	24.00	2.00
		the siltstone. Concentrations from 72-73m up to 5%	35220	72.00-73.00	1.00	770.00				1205.00	74.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		aspy.										
		<60.85-73.35> 1 % pyrite - blebs 1 % arsenopyrite - disseminated										
		<63.80-63.81> bedding 40°										
		<64.40-64.41> cleavage, foliation 1°										
		<67.50-67.51> bedding 1°										
		<72.00-73.00> 1 % pyrite - blebs 5 % arsenopyrite - disseminated										
73.35	74.45	DIORITE Fine grained, grayish-green, massive, veined contact 5° Frs=5/m :Vns =3/m Weak CL pervasive Trace CB pervasive Moderate MS pervasive Moderate QV vein Fg dioritic dyke with blebby 1-6cm qz veining in center of dyke. One 10 cm vein at lower contact of dyke with chloritic/graphitic partings.	35913	73.00-74.00	1.00	115.00				145.00	32.00	
74.45	76.70	Siltstone Aphanitic, blackish-white, veined, massive Frs=15/m :Vns =5/m Trace CB pervasive Trace CO coatings Strong QV vein 1 % pyrite - blebs Quartz veined siltstone similar to above dyke. Hints of fol'd laminations at very low angle to core axis. Veins 1-10cm. Arsenopyrite as euhedral 1-6mm crystals in siltstone.	35221 35222	74.00-75.00 75.00-76.00	1.00 1.00	565.00 365.00				3520.00 2235.00	65.00 101.00	
		<74.45-76.70> .5% pyrite - blebs 5 % arsenopyrite - disseminated										
76.70	77.12	DIORITE Fine grained, grayish-green, massive dyke 30° Frs=5/m :Vns =3/m Weak CL pervasive Trace CB pervasive	35223	76.00-77.00	1.00	925.00					69.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Moderate MS pervasive										
		Weak QV vein										
		Same as 73.35-74.15 Diorite										
77.12	87.50	Siltstone	35224	77.00-78.00	1.00	1.02				2170.00	54.00	
		, blackish-white, laminated, veined	35225	78.00-79.00	1.00	315.00			0.40	3450.00	65.00	
		bedding 30°	35226	79.00-80.00	1.00	75.00				370.00	42.00	
		Frs=40/m :Vns =7/m	35227	80.00-81.00	1.00	115.00				1000.00	60.00	
		Qz veined, laminated siltstone with up to 8% Ap as	35228	81.00-82.00	1.00	95.00				475.00	77.00	
		euhedral 1-2mm crystals in siltstone and fine grained	35229	82.00-83.00	1.00	305.00			0.20	4220.00	70.00	
		along partings in veins. Py as small blebs	35230	83.00-84.00	1.00	235.00				185.00	68.00	
		predominantly along vein margins	35231	84.00-85.00	1.00	1.01				715.00	66.00	
<82.50-82.51>		bedding 30°										
<83.10-83.11>		bedding 45°										
<84.30-84.31>		bedding 50°										
87.50	88.10	DIORITE	35232	85.00-86.00	1.00	1.66				4435.00	50.00	
		Fine grained, grayish-green, massive, veined	35233	86.00-87.00	1.00	880.00				6365.00	61.00	
		Frs=10/m :Vns =8/m	35234	87.00-88.00	1.00	220.00				760.00	26.00	
		Trace CL pervasive										
		Trace CB pervasive										
		Weak MS pervasive										
		Intense QV vein										
		Same as 73.35 - 74.15 diorite.										
88.10	95.35	Siltstone	35235	88.00-89.00	1.00	595.00			0.40	3705.00	67.00	8.00
		, blackish-white, veined, laminated	35236	89.00-90.00	1.00	720.00			1.60	45.00	77.00	28.00
		bedding 40°	35237	90.00-91.00	1.00	300.00			0.60	665.00	76.00	8.00
		Frs=10/m :Vns =10/m	35238	91.00-92.00	1.00	1.45			0.40	45.00	79.00	20.00
		Weak CB macroveins	35239	92.00-93.00	1.00	1.03			0.20	1070.00	59.00	2.00
		Weak CO coatings	35240	93.00-94.00	1.00				0.40	95.00	81.00	6.00
		Strong QV vein	35241	94.00-95.00	1.00					75.00	50.00	4.00
		Weak QC vein										
		3 % pyrite - disseminated										
		3 % pyrrhotite - disseminated										
		Convoluted siltstone with quartz and quartz-carbonate										
		veining. Veins from 0.2-2cm, often ribboned; strongly										
		convoluted and blebby. 10% flattened blebs and										
		stringers of pyrite and pyrrhotite and 1% small(to										
		1mm) euhedral arsenopyrite crystals.										
<88.10-95.35>		4 % pyrite - disseminated										
		1 % arsenopyrite - disseminated										
		6 % pyrrhotite - disseminated										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
<89.10-89.11>		bedding 40°										
<89.90-89.91>		bedding 55°										
<92.16-92.65>		DIORITE Fine grained, gray, banded, massive cleavage, foliation 65° Frs=6/m :Vns =5/m Trace CB pervasive Moderate MS pervasive Moderate QV vein 2 % pyrite - blebs 2 % pyrrhotite - blebs Very fine grained dyke with diffuse contacts.										
<93.00-93.01>		bedding 70°										
95.35	95.90	DIORITE Fine grained, gray, massive dyke 60° Frs=2/m :Vns =0/m Trace CL pervasive Moderate MS pervasive Fine grained dyke.										
95.90	113.70	Siltstone	35242	95.00-96.00	1.00					25.00	50.00	
		, black, massive, laminated	35243	96.00-97.00	1.00				0.40		77.00	4.00
		bedding 70°	35244	97.00-98.00	1.00				0.60		74.00	4.00
		Frs=15/m	35245	101.00-102.00	1.00					5.00	78.00	
		Moderate CB macroveins	35246	106.00-107.00	1.00					35.00	29.00	
		Weak QV vein	35247	108.00-109.00	1.00					75.00	75.00	
		Moderate CV macroveins										
		1 % pyrite - blebs										
		1 % pyrrhotite - blebs										
		Massive to faintly laminated siltstone with common foliation parallel carbonate veinlets. Minor blebby pyrite and pyrrhotite.										
<96.50-96.51>		bedding 70°										
<103.35-104.50>		SANDSTONE , gray, massive bedding 55° Frs=10/m Strong CB pervasive 1 % pyrite - coatings										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Massive to fine grained sandstone, strongly carbonate altered.										
		<104.50-104.51> bedding 55°										
		<105.20-105.21> bedding 70°										
		<105.80-105.85> SANDSTONE Fine-coarse grained, gray, massive bedding 70° Frs=15/m Intense CB pervasive										
		Sandstone grading down into pebble sized strongly foliated conglomerate. Strongly carbonate altered.										
		<111.70-111.71> bedding 55°										
113.70	114.70	GRANNODIORITE	35914	113.00-114.70	1.70					75.00	39.00	2.00
		Fine-medium grained, gray, foliated										
		cleavage, foliation 40°										
		Frs=8/m										
		Trace CB pervasive										
		Trace MS pervasive										
		2 % pyrite - blebs										
		Dyke with strongly flattened hornblende phenocrysts to 4mm long. 5-10% quartz grains in fine grained matrix.										
114.70	123.62	Siltstone	35248	115.00-116.00	1.00					110.00	76.00	
		, gray, foliated, veined	35249	117.00-118.00	1.00					10.00	71.00	
		cleavage, foliation 55°	35250	121.00-122.00	1.00	200.00			0.40	1095.00	75.00	
		Frs=20/m :Vns =5/m	35251	122.00-123.00	1.00	210.00				1020.00	66.00	
		Strong CB macroveins										
		Weak CO pervasive										
		Strong CV macroveins										
		Moderate QC vein										
		2 % pyrite - blebs										
		1 % pyrrhotite - blebs										
		Strongly pervasively carbonate altered and carbonate veined foliated siltstone. Carbonate veins parallel to foliation. 1% pyrite as small fine grained blebs generally in carbonate veins.										
		<115.30-115.31> bedding 65°										
		<116.80-116.81> bedding 50°										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		<118.75-118.76> bedding 55°										
		<122.50-122.51> bedding 45° Bedding strongly crenulated.										
123.62	128.65	Siltstone	35252	123.00-124.00	1.00	110.00				205.00	62.00	
		Aphanitic, dark black, massive, veined	35253	124.00-125.00	1.00				0.20	160.00	82.00	
		cleavage, foliation 60°:qz veining 60°	35254	125.00-126.00	1.00					40.00	75.00	
		Frs=8/m :Vns =10/m	35255	126.00-127.00	1.00	180.00				970.00	79.00	
		Strong QV vein	35256	127.00-128.00	1.00	1.02			0.20	6575.00	62.00	
		Weak QC macroveins	35257	128.00-128.65	0.65	4.51			0.80	6920.00	94.00	
		2 % pyrite - blebs										
		1 % pyrrhotite - blebs										
		Massive black siltstone/mudstone, quartz veins										
		0.2-5cm, generally parallel to foliation at 60 deg.										
		2% pyrite stringers parallel to foliation and as blebs										
		in veins. 1% pyrrhotite as blebs in veins, 3%										
		euhedral arsenopyrite crystals, increasing in										
		abundance towards bottom of interval.										
		<123.62-128.65> 2 % pyrite - microveins										
		3 % arsenopyrite - disseminated										
		1 % pyrrhotite - disseminated										
128.65	130.95	GREENSTONE	35258	128.65-129.65	1.00	275.00				1020.00	57.00	
		Grayish-green, foliated										
		cleavage, foliation 60°										
		Frs=7/m :Vns =2/m										
		Trace CL pervasive										
		Weak QV macroveins										
		Weak CV macroveins										
		1 % pyrite - blebs										
		1 % pyrrhotite - blebs										
		Foliated greenstone with minor quartz carbonate										
		veining.										
130.95	136.70	Siltstone	35259	131.00-132.00	1.00	255.00			0.40	2400.00	67.00	
		Aphanitic, blackish-gray, laminated, contorted	35260	132.00-133.00	1.00				0.40	5.00	95.00	
		bedding 45°										
		Frs=8/m :Vns =3/m										
		Strong CB pervasive										
		Trace CO coatings										
		Weak QC vein										
		1 % pyrite - blebs										
		1 % pyrrhotite - blebs										
		Laminated siltstone with 1% blebby and stringer										
		pyrite+pyrrhotite. Tightly folded and convoluted from										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		130.95 to 135m. Lamination and foliation consistantly 45 deg from 135.00-136.70m.										
<135.00-136.70>		bedding 45°										
136.70	140.55	LAPILLI TUFF Fine-coarse grained, gray, foliated cleavage, foliation 60° Frs=10/m Intense CB pervasive 1 % pyrite - disseminated Strongly foliated lappili tuff, or volcaniclastic conglomerate.	35261	137.00-138.00	1.00					20.00	34.00	
140.55	166.05	Siltstone	35262	140.55-142.00	1.45				0.40	15.00	65.00	
		, black, laminated, massive	35263	142.00-143.00	1.00				0.60	15.00	83.00	
		bedding 55°	35264	144.00-145.00	1.00				0.40	15.00	78.00	4.00
		Frs=40/m :Vns =1/m	35265	146.00-147.00	1.00					15.00	63.00	
		Weak CO coatings	35266	150.00-151.00	1.00					30.00	56.00	
		Weak QV macroveins	35267	157.00-158.00	1.00					25.00	72.00	
		Weak CV macroveins	35268	159.00-160.00	1.00					15.00	50.00	
		Weak QC macroveins	35269	161.00-162.00	1.00					10.00	54.00	8.00
		1 % pyrite - blebs	35270	164.00-165.00	1.00					155.00	115.00	
		1 % pyrrhotite - blebs	35271	165.00-166.00	1.00	1.00			0.60	340.00	79.00	
		Massive to laminated moderately foliated siltstone. Substantial quartz veining confined to top 1m and bottom 1m of interval. Generally moderate to strong pervasive carbonate alteration and common carbonate veins. Rare blebby pyrite generally associated with veins. Laminations/Foliations consistently 55-65 degrees from top of interval to 162.00m. Below 162.00m, laminations fade and commonly at low anges (0-20 degrees) Rare blebs of pyrrhotite in quartz carbonate veins. Minor interbedded sandstone.										
<157.50-157.75>		FAULT ZONE Aphanitic, dark black, fault gouge Frs=400/m Intense CO pervasive 2 % pyrite - disseminated Strongly graphitic fault zone, fine grained pyrite disseminated throughout gouge.										
166.05	166.90	DIORITE Fine grained, grayish-green, foliated cleavage, foliation 50° Frs=5/m :Vns =4/m										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Trace CL pervasive										
		Intense MS pervasive										
		Strong QV macroveins										
		Weak CV macroveins										
		1 % pyrite - blebs										
		1 % pyrrhotite - blebs										
		Fine grained strongly serecite altered diorite? dyke.										
		Quartz +/- carbonate veining at both margins.										
166.90	168.30	Siltstone	35272	166.00-167.00	1.00	255.00			0.40	60.00	32.00	176.00
		Aphanitic, dark black, laminated, foliated	35273	167.00-168.00	1.00	150.00			0.40	25.00	91.00	38.00
		cleavage, foliation 40°:bedding 40°										
		Frs=15/m :Vns =2/m										
		Trace CO coatings										
		Moderate QV vein										
		Moderate CV macroveins										
		Weak QC macroveins										
		2 % pyrite - blebs										
		1 % pyrrhotite - blebs										
		Laminated slst. Laminations generally parallel to										
		fol'n. Minor quartz +/- quartz/carbonate veining										
		containing blebs of pyrite and pyrrhotite.										
168.30	170.30	DIORITE	35274	169.00-170.00	1.00				0.20	275.00	86.00	12.00
		, grayish-green, foliated										
		cleavage, foliation 55°:dyke 50°										
		Frs=10/m :Vns =2/m										
		Trace CL pervasive										
		Trace CB pervasive										
		Strong MS pervasive										
		Moderate QV vein										
		1 % pyrite - microveins										
		1 % pyrrhotite - microveins										
		Three dykes with minor siltstone between. Dykes										
		parallel to foliation. Quartz veining with pyrite and										
		pyrrhotite at dyke margins. Grain size coarsens										
		towards center of dykes. All crystals strongly										
		flattened. Moderate sericite +carbonate+chlorite										
		alteration.										
170.30	177.15	Siltstone	35275	170.00-171.00	1.00	100.00			0.60	195.00	84.00	14.00
		, blackish-white, laminated, massive	35276	171.00-172.00	1.00	90.00			0.60	25.00	86.00	16.00
		bedding 30°	35277	172.00-173.00	1.00	1.29			0.80	2080.00	100.00	6.00
		Frs=50/m :Vns =10/m	35278	173.00-174.00	1.00	1.74			1.00	2100.00	102.00	8.00
		Trace CB pervasive	35279	174.00-175.00	1.00	1.03			0.40	3050.00	41.00	4.00
		Trace CO coatings	35280	175.00-176.00	1.00	260.00				60.00	34.00	2.00
		Intense QV vein	35281	176.00-177.00	1.00					10.00	34.00	10.00

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		1 % pyrite - blebs 2 % pyrrhotite - blebs Siltstone with one interbedded sandstone bed. 30% ribboned quartz veining. Veins 1 to 5cm, generally small and somewhat convoluted. Blebby pyrite and pyrrhotite in veins and 1% arsenopyrite in siltstone and along partings in veins.										
<170.30-177.15>		2 % pyrite - blebs 2 % arsenopyrite - disseminated 2 % pyrrhotite - blebs										
177.15	177.44	DIORITE Aphanitic, pale gray, massive Frs=40/m Trace CB pervasive Intense MS pervasive TR% pyrite - coatings Very strongly sericite altered dyke. Trace of fgr pyrite on fractures.										
(eoh)												

12/16/96

From	TO	Measured Width	Recovery	RQD	Hardness
0.00	0.00	0.00	0	0	

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — AG96-05

PROJECT: AMPLE	Date Commenced: APR. 27	Contractor: HY-TECH	Logged by: KP
DRILL HOLE: AG96-05	Date Completed: APR. 30		Geotech by: CK
LENGTH: 136.89	Core Diam: BQTK		

Collar Location

Latitude: 5610945.00
Departure: 568727.00
Elevation: 1090.00

S U M M A R Y

0.00-12.20	CASING
12.20-33.60	OVERBURDEN
33.60-36.00	Siltstone •
36.00-40.00	SANDSTONE
40.00-49.30	Siltstone **
49.30-54.20	SANDSTONE
54.20-65.35	Siltstone *
65.35-67.70	DIORITE *
67.70-72.90	Siltstone *
72.90-80.85	CONGLOMERATE
80.85-82.90	DIORITE
82.90-93.05	Siltstone •
93.05-101.65	CONGLOMERATE
101.65-102.50	DIORITE
102.50-108.55	Siltstone
108.55-109.70	DIORITE
109.70-130.70	Siltstone
130.70-136.89	GREENSTONE

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	22.00	-44.50	BRUNTON
15.20	25.50	-42.50	SPERRY SUN
44.20	28.50	-44.00	SPERRY SUN
105.20	33.50	-45.00	SPERRY SUN
135.70	31.50	-46.00	SPERRY SUN

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
0.00	12.20	CASING										
12.20	33.60	OVERBURDEN	35282	17.40-17.80	0.40	1.97			0.40	280.00	19.00	88.00
		Rubble with two 40 cm sections of quartz vein material	35283	30.18-30.70	0.52				0.40	90.00	6.00	2.00
		with minor graphitic selvages with 1% pyrite and										
		arsenopyrite along selvages.										
33.60	36.00	Siltstone	35284	33.60-34.80	1.20	1.87			0.40	455.00	36.00	
		, blackish-white, veined, foliated	35285	34.80-36.00	1.20	1.37			0.20	205.00	36.00	
		qz-carb veining 10°:bedding 10°										
		Frs=30/m :Vns =15/m										
		Moderate LI vein										
		Intense QC vein										
		1 % pyrite - disseminated										
		Faintly laminated siltstone, laminations 0 to 20										
		degrees to core axis. 35% quartz-carbonate veins										
		generally trending down core axes. Common limonite										
		and boxwork at vein margins. Rare unoxidized pyrite										
		in center of veins.										
<33.60-36.00>		QUARTZ-CALCITE VEINS [.1%]										
		.1% pyrite - disseminated										
36.00	40.00	SANDSTONE	35286	36.00-37.00	1.00	95.00				40.00	22.00	
		, gray, massive, foliated	35287	37.00-38.00	1.00	295.00			0.20	655.00	26.00	
		cleavage, foliation 10°:qz veining 15°	35288	39.00-40.00	1.00	250.00				1065.00	31.00	
		Frs=40/m :Vns =5/m										
		Moderate QV macroveins										
		Weak CV macroveins										
		1 % pyrite - disseminated										
		Sandstone/greywacke with common siltstone rip-ups to										
		1x3cm. 2-4mm quartz veins cutting foliation and										
		bedding at low (10-15 deg) angles. Common 0.5mm										
		calcite crystals at quartz vein margins. Trace										
		disseminated pyrite throughout the rock mass.										
40.00	49.30	Siltstone	35289	40.00-41.00	1.00	895.00			0.40	1870.00	36.00	
		, blackish-gray, veined	35290	41.00-42.00	1.00				0.20	35.00	54.00	2.00
		bedding 1°:qz veining 1°	35291	42.00-43.00	1.00	205.00				15.00	43.00	
		Frs=50/m :Vns =8/m	35292	43.00-44.00	1.00	525.00			0.20	790.00	56.00	
		Trace CO coatings	35293	44.00-45.00	1.00	500.00				1600.00	39.00	
		Strong QV vein	35294	47.30-48.30	1.00				0.20	30.00	59.00	
		Strong CV macroveins	35295	48.30-49.30	1.00				0.20	35.00	61.00	2.00
		1 % pyrite - blebs										
		Faintly laminated to thinly bedded siltstone. Common										
		blebby calcite veining along laminations. Foliation										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		parallel to laminations. Quartz veins sub-parallel to laminations for most of interval. Convoluted from 40 to 45.50m. One coarser grained bed from 45.50 to 47.00m with clasts to 0.5 cm.										
<40.00-40.85>		QUARTZ-CALCITE VEINS [1%] 1 % pyrite - blebs 50% Qz-Cb veining										
<43.50-44.00>		Siltstone [1%] 1 % arsenopyrite - disseminated 1% 1-1.5mm euhedral Aspy xtals in slst										
49.30	54.20	SANDSTONE	35296	49.30-50.30	1.00	135.00				25.00	34.00	
		, gray, massive	35297	53.20-54.20	1.00	400.00				35.00	28.00	
		bedding 15°:cleavage, foliation 20° Frs=10/m :Vns =2/m Moderate QC macroveins massive to rarely bedded sandstone. Moderate fol'n parallel to bedding. Weak pervasive Cb alt and 1-5mm Qz-Cb veinlets with rare small Py blebs.										
54.20	65.35	Siltstone	35298	54.20-55.20	1.00	500.00			0.20	235.00	53.00	
		, dark black, laminated, massive	35299	55.20-56.00	0.80	440.00			0.40	110.00	62.00	
		bedding 15°:cleavage, foliation 10°	35300	56.00-57.00	1.00	105.00			0.80	10.00	73.00	4.00
		Frs=30/m :Vns =2/m	35301	57.00-58.00	1.00	260.00			0.20	25.00	84.00	
		Weak CO coatings	35302	58.00-59.00	1.00	410.00			0.20	35.00	80.00	
		Weak PY blebs	35303	59.00-60.00	1.00	185.00				20.00	76.00	
		Moderate QV vein	35304	60.00-61.00	1.00	265.00			0.20	20.00	74.00	
		Moderate CV macroveins	35305	64.00-65.00	1.00				0.20	85.00	86.00	2.00
		Massive to laminated slst. Cb veinlets parallel to fol'n. Laminations generally parallel to fol'n. Small shear zone with strong graphitic alt at 55.20m.	35306	65.00-65.35	0.35	1.20			0.40	5860.00	91.00	
<54.20-55.60>		QUARTZ VEIN [3%] 3 % pyrite - blebs										
65.35	67.70	DIORITE	35307	65.35-66.50	1.15	350.00			1.40	1550.00	30.00	
		Aphanitic, pale gray, massive, veined	35308	66.50-67.70	1.20	495.00			0.40	1960.00	16.00	
		qz veining 10°:qz veining 80° Frs=20/m :Vns =5/m Intense MS pervasive Weak PY blebs Strong QV vein Aphanitic strongly sericite altered diorite? dyke. Small Py blebs and 0.5mm Ap xtals disseminated through dyke.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
<65.35-67.70>		QUARTZ VEIN [2.5%] 2 % pyrite - blebs .5% arsenopyrite - disseminated										
67.70	72.90	Siltstone	35309	67.70-68.20	0.50	6.21			0.60	5280.00	58.00	
		, blackish-gray, laminated, mottled	35310	68.20-69.20	1.00	4.56			0.60	2915.00	50.00	
		bedding 10°:cleavage, foliation 10°	35311	69.20-70.20	1.00	3.93			0.40	3855.00	48.00	
		Frs=20/m :Vns =5/m	35312	70.20-71.20	1.00	765.00				1260.00	62.00	
		Strong CB pervasive	35313	71.20-72.20	1.00	85.00				50.00	43.00	
		Weak CO coatings										
		Weak PY stringers										
		Strong QV vein										
		Slst with 15% Qz veining and up to 10% Cb veining.										
		Veins generally parallel to fol'n. Areas of strong Cb bleaching.										
<67.70-71.20>		QUARTZ VEIN [3%] 1 % pyrite - stringers 2 % arsenopyrite - disseminated										
72.90	80.85	CONGLOMERATE	35314	76.00-77.00	1.00				0.40	25.00	29.00	
		Fine-coarse grained, pale gray, foliated, clastic	35315	79.00-80.00	1.00					20.00	35.00	
		bedding 0°:cleavage, foliation 5°										
		Frs=10/m :Vns =0/m										
		Intense CB pervasive										
		Trace CO coatings										
		Trace PY coatings										
		Strongly fol'd/flattened heterolithic cong. Many clasts with pressure shadows, some flattened up to 10:1. Slst matrix, common graphite on fractures.										
80.85	82.90	DIORITE	35916	81.00-82.00	1.00							
		Aphanitic, grayish-green, massive										
		dyke 15°										
		Frs=5/m :Vns =0/m										
		Trace CL pervasive										
		Moderate MS pervasive										
		Trace PY disseminated										
		Massive aphanitic dyke parallel to fol'n										
82.90	93.05	Siltstone	35316	82.85-84.00	1.15	550.00			0.40	1535.00	37.00	
		, gray, foliated, mottled	35317	84.00-85.00	1.00	1.08				1030.00	61.00	
		cleavage, foliation 5°:bedding 25°	35318	85.00-86.00	1.00	180.00				20.00	68.00	
		Frs=15/m :Vns =5/m	35319	86.00-87.00	1.00					25.00	50.00	
		Trace CO coatings	35320	87.00-88.00	1.00	1.34			0.40	805.00	57.00	
		Strong QC vein	35321	88.00-89.00	1.00	250.00				95.00	57.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Slst with cong beds, mottled with Qz-Cb veining.	35322	89.00-90.00	1.00	345.00				65.00	58.00	
		Laminations, where visable, strongly convoluted down	35323	90.00-91.00	1.00	370.00				475.00	66.00	
		to 89.40m, below lams fairly consistent at 25 deg.	35324	91.00-92.00	1.00	120.00				30.00	44.00	4.00
		Strongly Cb altered.	35325	92.00-93.00	1.00				0.40		36.00	
<82.90-89.40>		QUARTZ-CALCITE VEINS [6%]										
		3 % pyrite - blebs										
		1 % arsenopyrite - disseminated										
		2 % pyrrhotite - blebs										
93.05	101.65	CONGLOMERATE	35326	94.00-95.00	1.00	405.00			0.60	295.00	58.00	
		Fine-coarse grained, gray, clastic, foliated	35327	97.00-98.00	1.00	230.00			0.20	525.00	51.00	
		cleavage, foliation 20°:bedding 25°	35328	98.00-99.00	1.00	110.00			0.60	30.00	39.00	
		Frs=8/m :Vns =1/m	35329	100.65-101.65	1.00				0.40	40.00	30.00	
		Strong CB pervasive										
		Trace PY coatings										
		Moderate QV vein										
		Cgr sandstone to pebble conglomerate. Strongly fol'd,										
		moderate to strong pervasive Cb alt. One irregular Qz										
		vein running down core axis from 97.00 to 98.00m.										
		Cong heterolithic and includes slst, intermediate										
		volcanic, and highly siliceous clasts.										
101.65	102.50	DIORITE										
		Aphanitic, greenish-gray, massive										
		dyke 30°										
		Frs=5/m :Vns =5/m										
		Moderate CL pervasive										
		Strong MS pervasive										
		Weak CV macroveins										
		Aphanitic dyke.										
102.50	108.55	Siltstone	35330	103.00-104.00	1.00						84.00	
		, dark black, laminated, foliated	35331	104.00-105.00	1.00					20.00	58.00	
		cleavage, foliation 25°:bedding 30°										
		Frs=8/m :Vns =1/m										
		Trace PY disseminated										
		Moderate CV macroveins										
		Slst with coarser sst beds. Fol'n consistently										
		parallel to bedding at 25-30 deg. Rare dis Py.										
108.55	109.70	DIORITE	35332	108.70-109.70	1.00					15.00	67.00	
		Fine grained, pale gray, massive										
		dyke 35°:cleavage, foliation 35°										
		Frs=20/m :Vns =1/m										
		Strong CB pervasive										
		Intense MS pervasive										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Trace PY coatings										
		Weak QV vein										
		Fgr diorite dyke with one 4cm Qz vein. Minor Py										
		coating fractures.										
109.70	130.70	Siltstone	35333	118.00-119.00	1.00						92.00	
		, blackish-gray, laminated, massive	35334	120.00-121.00	1.00					10.00	64.00	
		cleavage, foliation 30°:bedding 30°	35335	122.00-123.00	1.00					25.00	68.00	
		Frs=15/m :Vns =2/m	35336	124.00-125.00	1.00						68.00	
		Moderate CB pervasive	35337	127.00-128.00	1.00					15.00		
		Weak PY stringers										
		Weak QV macroveins										
		Laminated to massive slst, portions mottled with										
		probable volcanic ash. Strong Cb bleaching in										
		sections. 1% fine Py stringers parallel to fol'n.										
130.70	136.89	GREENSTONE	35338	131.00-132.00	1.00						92.00	
		Aphanitic, grayish-green, foliated	35339	136.00-136.89	0.89						146.00	
		cleavage, foliation 25°										
		Frs=10/m :Vns =0/m										
		Trace CL pervasive										
		Moderate CB pervasive										
		Strongly fol'd gnst, fol'n consistently 25 deg.										
(eoh)												

12/16/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — AG96-06

PROJECT: AMPLE	Date Commenced: APR. 30	Contractor: HY-TECH	Logged by: KP
DRILL HOLE: AG96-06	Date Completed: MAY 3		Geotech by: CK
LENGTH: 175.61	Core Diam: BQTK		

Collar Location

Latitude: 5610940.00
Departure: 568729.00
Elevation: 1090.00

S U M M A R Y

0.00-12.20	CASING
12.20-16.00	OVERBURDEN
16.00-28.00	Siltstone
28.00-29.10	DIORITE
29.10-31.40	Siltstone
31.40-32.10	DIORITE
32.10-36.95	Siltstone
36.95-38.25	DIORITE
38.25-56.60	Siltstone
56.60-57.80	DIORITE
57.80-63.95	Siltstone
63.95-66.70	DIORITE
66.70-80.10	Siltstone
80.10-82.40	DIORITE
82.40-90.95	Siltstone
90.95-91.75	DIORITE
91.75-103.10	Siltstone
103.10-104.95	DIORITE
104.95-123.60	Siltstone
123.60-124.55	DIORITE
124.55-143.75	Siltstone
143.75-147.05	DIORITE
147.05-157.95	Siltstone
157.95-165.50	SANDSTONE
165.50-175.61	Siltstone

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	110.00	-75.00	BRUNTON
16.80	109.50	-76.00	SPERRY SUN

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
0.00	12.20	CASING										
12.20	16.00	OVERBURDEN Slst rubble.										
16.00	28.00	Siltstone	35340	21.00-22.00	1.00							
		, blackish-brown, vuggy, laminated	35341	22.00-23.00	1.00							
		bedding 65°:cleavage, foliation 75°	35342	23.00-24.00	1.00							
		Frs=70/m :Vns =3/m	35343	26.00-27.00	1.00							
		Trace PY blebs										
		Weak QV vein										
		Moderate CV macroveins										
		Slst with several sst beds, common limonitic vugs to 0.5x3cm. Fol'n consistently 60-75 deg. Rare unoxidized Py.										
28.00	29.10	DIORITE	35917	28.00-29.00	1.00							
		, grayish-green, massive										
		dyke 60°										
		Frs=12/m :Vns =1/m										
		Weak CL pervasive										
		Moderate MS pervasive										
		Trace QV macroveins										
		Massive fgr dyke with one 0.5cm Qz vein.										
29.10	31.40	Siltstone	35344	29.10-30.00	0.90							
		, blackish-gray, laminated, veined	35345	30.00-31.40	1.40							
		bedding 60°:cleavage, foliation 65°										
		Frs=50/m :Vns =4/m										
		Trace CO coatings										
		Moderate QV vein										
		Weak QC vein										
		Slst grading to gritstone at base of interval, coarser sections strongly Cb altered, one 10cm Qz vein, minor limonite on fractures.										
31.40	32.10	DIORITE										
		Aphanitic, blueish-gray, massive										
		contact 75°										
		Frs=10/m :Vns =0/m										
		Trace CL pervasive										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Strong MS pervasive										
		Trace PR blebs										
		Massive aphanitic to fgr dyke, rare 1mm blebs of Pr										
		disseminated throughout.										
32.10	36.95	Siltstone	35346	32.50-33.40	0.90							
		, blackish-gray, laminated, clastic	35347	33.40-34.40	1.00							
		bedding 60°:cleavage, foliation 60°										
		Frs=100/m :Vns =2/m										
		Moderate CB pervasive										
		Weak PY blebs										
		Weak QV vein										
		Weak QC vein										
		Laminated slst interbedded with pebble cong, cong										
		strongly Cb alt, several small Qz veins parallel to										
		fol'n.										
36.95	38.25	DIORITE	35348	36.00-37.00	1.00							
		, grayish-green, massive, porphyritic										
		Frs=15/m :Vns =0/m										
		Trace CL pervasive										
		Moderate MS pervasive										
		Trace PY disseminated										
		Massive dyke, aphanitic groundmass with 5% Hb										
		phenocrysts to 1.5mm.										
38.25	56.60	Siltstone	35349	40.00-41.00	1.00							
		, blackish-gray, laminated, veined	35350	43.00-44.00	1.00							
		cleavage, foliation 50°:qz veining 50°	35351	44.00-45.00	1.00							
		Frs=12/m :Vns =5/m	35352	45.00-46.00	1.00							
		Weak PY blebs	35353	46.00-47.00	1.00							
		Weak PR blebs	35354	47.00-48.00	1.00							
		Moderate QV vein	35355	48.00-49.00	1.00	1.34						
		Weak CV vein	35356	49.00-50.00	1.00	655.00						
		Weak QC vein	35357	50.00-51.00	1.00	125.00						
		Laminated slst, tightly folded from top of interval to	35358	51.00-52.00	1.00	365.00						
		47.70m, several good m folds - hinge of larger fold?	35359	52.00-53.00	1.00							
56.60	57.80	DIORITE	35360	53.00-54.00	1.00							
		Fine grained, pale gray, massive	35361	54.00-55.00	1.00	255.00						
		cleavage, foliation 60°	35362	55.00-56.00	1.00							
		Frs=15/m :Vns =0/m	35363	56.00-56.60	0.60							
		Weak CL pervasive	35918	56.70-57.80	1.10							
		Strong MS pervasive										
		Massive dyke, faint probable Hb xtals to 1mm.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
57.80	63.95	Siltstone	35364	57.80-59.00	1.20							
		, dark black, laminated, foliated	35365	59.00-60.00	1.00							
		cleavage, foliation 55°:qz-carb veining 65°										
		Frs=25/m :Vns =2/m										
		Trace CO coatings										
		Weak PY stringers										
		Weak PR blebs										
		Weak QV macroveins										
		Moderate QC macroveins										
		Black slst, Qz-Cb veins dominantly parallel to fol'n,										
		small stringers and blebs of Py+Pr throughout slst.										
63.95	66.70	DIORITE	35366	64.50-65.50	1.00							
		Fine-medium grained, pale gray, massive										
		Frs=15/m										
		Trace CL pervasive										
		Trace CB pervasive										
		Strong MS pervasive										
		Two dykes with 15 cm slst between. Dyke weakly fol'd,										
		coarser grained in center.										
66.70	80.10	Siltstone	35367	66.75-68.00	1.25							
		, dark black, massive	35368	68.00-69.00	1.00							
		cleavage, foliation 55°	35369	69.00-70.00	1.00							
		Frs=40/m :Vns =4/m	35370	70.00-71.00	1.00							
		Trace CO coatings	35371	75.00-76.00	1.00							
		Weak PY blebs	35372	79.00-80.00	1.00							
		Weak PR blebs										
		Weak CV macroveins										
		Massive to faintly laminated slst. Fol'n consistently										
		50-60 deg, laminations generally parallel to fol'n.										
80.10	82.40	DIORITE	35919	81.00-82.00	1.00							
		Fine-medium grained, gray, massive, crystalline										
		Frs=15/m :Vns =2/m										
		Trace CL pervasive										
		Moderate CB pervasive										
		Strong MS pervasive										
		Weak CV vein										
		Fgr to mgr diorite dyke, similar to dykes at 57m and										
		65m.										
82.40	90.95	Siltstone	35373	82.00-82.85	0.85							
		, dark black, massive, foliated	35374	83.25-84.25	1.00							
		cleavage, foliation 50°	35375	88.00-89.00	1.00							
		Frs=10/m	35376	90.00-90.95	0.95							
		Weak PY stringers										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Weak PR blebs										
		Weak CV macroveins										
		Massive to faintly laminated slst, fol'n consistently										
		50 deg, laminations tightly folded. Cb veinlets										
		parallel to fol'n.										
<82.85-83.25>		DIORITE										
		Fine-medium grained, gray, massive										
		Frs=15/m :Vns =2/m										
		Trace CL pervasive										
		Moderate CB pervasive										
		Strong MS pervasive										
		Weak CV vein										
		Fgr diorite dyke sos as dyke at 80.10-82.40m.										
<90.95-91.75>		, pale gray, massive										
		Frs=40/m :Vns =2/m										
		Moderate CL pervasive										
		Strong MS pervasive										
		Strong QC vein										
		Aphanitic to fgr dyke with 5-10cm veins at dyke										
		margins, veins contain 2-3% patchy chlorite.										
91.75	103.10	Siltstone	35377	90.95-92.00	1.05							
		, blackish-gray, laminated, massive	35378	92.00-93.00	1.00							
		bedding 65°:cleavage, foliation 65°	35379	93.00-94.00	1.00							
		Frs=100/m :Vns =10/m	35380	95.00-96.00	1.00							
		Moderate CB pervasive	35381	96.00-97.00	1.00							
		Trace CO coatings	35382	102.00-103.00	1.00							
		Weak PY blebs										
		Weak PR blebs										
		Moderate CV macroveins										
		Weak QC vein										
		Slst with common Cb veinlets, very broken towards										
		bottom of section, minor graphitic coatings on										
		fractures throughout, laminations folded tightly at										
		93.00m consistently at 65 deg below, several zones of										
		strong pervasive Cb alt.										
103.10	104.95	DIORITE	35383	103.00-104.00	1.00							
		, grayish-green, massive, veined										
		cleavage, foliation 60°										
		Frs=70/m :Vns =2/m										
		Moderate CL pervasive										
		Moderate MS pervasive										
		Strong QC vein										
		Dyke with Qz-Cb veining at margins.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
104.95	123.60	Siltstone	35384	104.00-105.00	1.00							
		, blackish-white, laminated, veined	35385	106.00-107.00	1.00							
		Frs=30/m :Vns =5/m	35386	108.00-109.00	1.00							
		Weak PY stringers	35387	109.00-110.00	1.00							
		Weak PR blebs	35388	110.00-111.00	1.00							
		Intense QV vein	35389	111.00-112.00	1.00	310.00						
		Weak CV vein	35390	112.00-113.00	1.00	325.00						
		Laminated, commonly convoluted, strongly Qz veined	35391	113.00-114.00	1.00	635.00						
		slst. Veins 0.5-20cm, commonly blebby, non-planar.	35392	114.00-115.00	1.00	260.00						
		Bottom of interval strongly bx'd.	35393	115.00-116.00	1.00							
<109.80-123.60>		QUARTZ VEIN [%]	35394	116.00-117.00	1.00	275.00						
		2 % pyrite - blebs	35395	117.00-118.00	1.00	340.00						
		2 % arsenopyrite - euhedral	35396	118.00-119.00	1.00	320.00						
		2 % pyrrhotite - blebs	35397	119.00-120.00	1.00	100.00						
		.1% gold - blebs	35398	120.00-121.00	1.00							
		20% Qz veins with common small calcite xtals at vein	35399	121.00-122.00	1.00							
		margins. 2% 1mm euhedral Aspy generally concentrated	35400	122.00-123.00	1.00	225.00						
		in graphitic slst near vein margins. 4% Py+Pr as 1-3mm	35401	123.00-123.60	0.60	570.00						
		blebs in vein margins. One 1mmx0.5mm flake of VG										
		seen.										
123.60	124.55	DIORITE	35402	123.60-124.55	0.95							
		Fine-medium grained, grayish-green, veined										
		cleavage, foliation 90°:qz-carb veining 50°										
		Frs=10/m :Vns =10/m										
		Weak CL pervasive										
		Moderate MS pervasive										
		Moderate QC vein										
		Dyke with common Qz-Cb veining, weakly fol'd at 80-90										
		deg.										
124.55	143.75	Siltstone	35403	124.55-126.00	1.45	90.00						
		, blackish-gray, bedded, laminated	35404	126.00-127.00	1.00							
		bedding 75°	35405	129.00-130.00	1.00							
		Frs=20/m :Vns =5/m	35406	134.00-135.00	1.00							
		Moderate CB pervasive	35407	135.00-136.00	1.00							
		Trace CO coatings	35408	136.00-137.00	1.00							
		Weak PY blebs	35409	140.00-141.00	1.00							
		Weak PR laminations	35410	142.75-143.75	1.00							
		Moderate QC macroveins										
		Laminated to bedded slst interbedded with mgr sst, %										
		of sst increacing toward bottom of interval. Coarser										
		beds strongly calcarious. 1% Pr commonly replacing										
		laminations, 1% Py as fracture coatings and small										
		blebs in veinlets. Laminations/bedding consistently										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		60-85 deg.										
143.75	147.05	DIORITE	35411	143.75-144.75	1.00							
		, grayish-green, crystalline, veined	35412	144.75-146.00	1.25							
		qz-carb veining 30°										
		Frs=10/m :Vns =2/m										
		Weak CL pervasive										
		Moderate CB pervasive										
		Moderate MS pervasive										
		Strong QC vein										
		Fgr dyke with Qz-Cb veining at margins and in center.										
		Veins contain 5% patchy chlorite.										
147.05	157.95	Siltstone	35413	147.05-148.00	0.95							
		, blackish-gray, laminated, massive	35414	148.00-149.00	1.00							
		bedding 70°	35415	149.00-150.00	1.00							
		Frs=40/m :Vns =1/m	35416	150.00-151.00	1.00							
		Moderate CB pervasive	35417	151.00-152.00	1.00							
		Trace CO coatings	35418	152.00-153.00	1.00							
		Weak PY microveins	35419	153.00-154.00	1.00							
		Weak PR blebs	35420	154.00-155.00	1.00	600.00						
		Moderate QV microveins	35421	155.00-156.00	1.00							
		Slst with commonly interbedded sst. Massive slst beds	35422	156.00-157.00	1.00							
		have up to 10% Qz-Py micro-stockworked veins. Sst										
		beds have common slst rip-ups.										
157.95	165.50	SANDSTONE	35423	162.00-163.00	1.00							
		, gray, massive, clastic										
		bedding 75°										
		Frs=5/m :Vns =1/m										
		Moderate CB pervasive										
		Trace PY blebs										
		Trace PR blebs										
		Weak QC macroveins										
		Massive, calcareous sst. Common slst rip-ups to 3cm,										
		minor interbedded slst. Trace Py+Pr as small blebs in										
		Qz-Cb veinlets.										
165.50	175.61	Siltstone	35424	167.00-168.00	1.00							
		, blackish-gray, bedded	35425	168.00-169.00	1.00							
		bedding 65°	35426	172.00-173.00	1.00							
		Frs=15/m :Vns =1/m	35427	174.00-175.00	1.00							
		Weak CB pervasive										
		Trace PY blebs										
		Weak QC vein										
		Interbedded slst and sst with rare Qz-Cb veins										
		x-cutting bedding. Interval contains two small dior										

FROM	TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		dykes sub-parallel to bedding.										
(eoh)												

12/16/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — AG96-07

PROJECT: AMPLE	Date Commenced: MAY 3	Contractor: HY-TECH	Logged by: KP
DRILL HOLE: AG96-07	Date Completed: MAY 5		Geotech by: CK
LENGTH: 191.16	Core Diam: BQTK		

Collar Location

Latitude: 5610981.00
Departure: 568700.00
Elevation: 1123.00

SUMMARY

0.00-9.76	CASING
9.76-26.80	GREENSTONE •
26.80-57.15	Siltstone *
57.15-61.12	DIORITE
61.12-65.50	Siltstone
65.50-78.75	CONGLOMERATE
78.75-90.05	Siltstone
90.05-91.30	DIORITE
91.30-96.00	Siltstone
96.00-98.55	DIORITE
98.55-102.45	Siltstone
102.45-105.55	DIORITE
105.55-144.00	Siltstone *
144.00-146.40	DIORITE
146.40-161.80	Siltstone *
161.80-185.80	SANDSTONE
185.80-186.25	DIORITE
186.25-191.16	Siltstone

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	110.00	-75.00	BRUNTON
13.70	115.50	-75.00	SPERRY SUN
100.60	131.50	-77.00	SPERRY SUN
187.50	178.50	-81.00	SPERRY SUN

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
0.00	9.76	CASING		0.00-0.00	0.00							
<0.00-0.00>												
9.76	26.80	GREENSTONE	35428	10.00-11.00	1.00	1.17	1.17			1845.00	105.00	
		Aphanitic, greenish-gray, foliated	35429	11.00-12.00	1.00	205.00				925.00	183.00	
		cleavage, foliation 70°:qz veining 30°	35430	12.00-13.00	1.00	330.00				190.00	117.00	
		Frs=12/m :Vns =2/m	35431	13.00-14.00	1.00	240.00				250.00	161.00	
		Weak CB pervasive	35432	15.20-16.20	1.00				0.20	1045.00	232.00	
		Trace CO coatings	35433	18.50-19.50	1.00	500.00				715.00	127.00	
		Weak PY blebs	35434	19.50-20.50	1.00	9.91	7.58	9.91	0.60	270.00	172.00	
		Trace PR blebs	35435	22.80-23.80	1.00	205.00				220.00	227.00	
		Strong QV vein	35436	23.80-24.80	1.00	765.00			0.20	290.00	128.00	
		Foliated gnst with minor intercalated slst. 10%	35437	24.80-25.80	1.00	1.23	1.23			460.00	127.00	
		0.5-20cm Qz veins, most perpendicular to fol'n. Larger	35438	25.80-26.80	1.00	1.02	1.02		0.40	665.00	80.00	
		veins near base of interval moderately internally										
		bx'd. 1% Py as 1-4mm blebs in and near veins, trace										
		Aspy in gnst at 21.40m										
<14.85-15.20>		DIORITE										
		, gray, massive, crystalline										
		dyke 55°										
		Frs=10/m										
		Moderate MS pervasive										
		Weak PY blebs										
		Diorite dyke, 50% 0.5-1mm plagioclase laths, sericitic										
		groundmass. 1% 1mm blebs of Py disseminated										
		throughout.										
<25.30-26.80>		QUARTZ VEIN [%]										
		2 % pyrite - blebs										
		35% 0.5-20cm Qz veins, 2% blebby Py dominantly in vein										
		margins.										
26.80	57.15	Siltstone	35439	26.80-28.00	1.20	66.34	74.88	66.34	8.00	675.00	214.00	2.00
		, blackish-gray, massive, veined	35440	28.00-29.00	1.00	1.89	1.89		0.60	6855.00	49.00	10.00
		cleavage, foliation 50°	35441	29.00-30.00	1.00	4.23	4.23		0.40	2020.00	32.00	20.00
		Frs=15/m :Vns =10/m	35442	30.00-31.00	1.00	1.69	1.69		0.80	4180.00	64.00	36.00
		Weak PY blebs	35443	31.00-32.00	1.00	1.28	1.28		3.00	720.00	72.00	50.00
		Trace PR blebs	35444	32.00-33.00	1.00	5.61	5.43	5.61	0.40	255.00	32.00	20.00
		Strong QV vein	35445	33.00-34.00	1.00	415.00			0.60	345.00	41.00	30.00
		Massive to faintly laminated slst, laminations tightly	35446	34.00-35.00	1.00	280.00			0.20	1420.00	40.00	18.00
		folded where visible. Probable fault at 25.50m.	35447	35.00-36.00	1.00	755.00			0.20	1190.00	32.00	4.00
<26.80-39.30>		QUARTZ VEIN [%]	35448	36.00-37.00	1.00	910.00			0.40	30.00	21.00	
		2 % pyrite - blebs	35449	37.00-38.00	1.00	1.43	1.43		0.40	50.00	31.00	4.00

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		.5% arsenopyrite - euhedral	35450	38.00-39.00	1.00	350.00			0.20	20.00	53.00	2.00
		.5% pyrrhotite - blebs										
		.1% gold - blebs										
		50% 0.5-40cm Qz veins, larger veins internally bx'd.										
		One bx'd vein at 27.80-28.25m with common VG, over 15										
		blebs seen up to 1mm, minor fgr Py + Aspy also. Veins										
		generally sub-parallel to fol'n.										
<46.00-46.50>		CONGLOMERATE	35451	39.00-40.00	1.00					60.00	44.00	6.00
		Medium-coarse grained, gray, foliated, clastic	35452	40.00-41.00	1.00	170.00			0.20	65.00	40.00	6.00
		cleavage, foliation 30°:bedding 50°	35453	41.00-42.00	1.00	145.00			0.20	1455.00	41.00	18.00
		Frs=5/m	35454	42.00-43.00	1.00	155.00			0.40	40.00	44.00	4.00
		Intense CB pervasive	35455	43.00-44.00	1.00	200.00			0.20	35.00	61.00	4.00
		50cm section of coarse grit/ pebble cong.										
57.15	61.12	DIORITE	35456	48.00-49.00	1.00					15.00	60.00	
		, pale gray, massive	35457	53.00-54.00	1.00					30.00	71.00	
		dyke 55°	35458	55.00-56.00	1.00					55.00	79.00	
		Frs=8/m :Vns =1/m	35459	56.00-57.15	1.15				0.20		68.00	2.00
		Strong CB pervasive	35920	57.30-58.30	1.00							
		Moderate MS pervasive	35460	58.80-60.30	1.50					10.00	62.00	
		Trace PY disseminated										
		Strong QC vein										
		2 massive dykes with 1.5m of slst btwn. Aphanitic										
		groundmass with 15% bleached Hb xtals to 1mm. 0.5%										
		fgr diss Py. Barren Cb-Qz veins with minor chlorite										
		at dyke margins.										
61.12	65.50	Siltstone	35461	61.12-62.12	1.00				0.40	10.00	63.00	
		, blackish-gray, foliated	35462	62.12-63.12	1.00				0.40		59.00	4.00
		cleavage, foliation 55°	35463	63.12-64.12	1.00				0.40	20.00	65.00	4.00
		Frs=50/m										
		Weak CO coatings										
		Weak PY blebs										
		Strong CV microveins										
		Weak QC macroveins										
		Strongly foliated massive to faintly laminated slst										
		with 15% Cb stringers parallel to fol'n. Moderate to										
		strong pervasive Cb alt.										
65.50	78.75	CONGLOMERATE	35464	69.00-70.00	1.00				0.40	15.00	81.00	
		Fine-coarse grained, pale gray, foliated, clastic	35465	72.00-73.00	1.00				0.20	10.00	52.00	2.00
		cleavage, foliation 65°:lineations 85°	35466	76.00-77.00	1.00						35.00	
		Frs=10/m :Vns =1/m	35467	77.00-78.00	1.00	110.00				5.00	43.00	
		Strong CB pervasive										
		Weak PY blebs										
		Weak QC vein										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Strongly flattened and elongated heterolithic coarse gritstone to pebble cong. Rare Qz-Cb veins with minor Py. Common interbedded slst.										
78.75	90.05	Siltstone	35468	79.00-80.00	1.00	205.00			0.40	365.00	56.00	4.00
		, blackish-gray, massive, laminated	35469	81.00-82.00	1.00				0.40	40.00	97.00	4.00
		cleavage, foliation 55°:bedding 45°	35470	85.00-86.00	1.00				0.40		65.00	10.00
		Frs=15/m :Vns =1/m	35471	88.00-89.00	1.00				0.40	80.00	67.00	10.00
		Weak PY blebs										
		Weak PR blebs										
		Moderate QC vein										
		Massive to faintly laminated slst with minor Py+Pr as blebs and small stringers. Rare Cb and Qz-Cb veins and veinlets generally parallel to fol'n.										
90.05	91.30	DIORITE	35472	90.05-91.05	1.00				0.40	25.00	28.00	
		, pale gray, massive, veined										
		dyke 55°:shear 15°										
		Frs=15/m :Vns =5/m										
		Strong MS pervasive										
		Trace CO coatings										
		Trace PY disseminated										
		Strong QC vein										
		Aphanitic to fgr dyke with 20% barren Qz-Cb veins. Trace disseminated Py.										
91.30	96.00	Siltstone	35473	91.30-92.00	0.70				0.20		64.00	14.00
		, blackish-gray, massive, foliated	35474	92.75-94.00	1.25				0.20		76.00	14.00
		cleavage, foliation 60°										
		Frs=10/m										
		Weak PY stringers										
		Weak PR blebs										
		Moderate CV macroveins										
		Massive to faintly laminated slst. 5% Cb veinlets parallel to fol'n, 2% Py+Pr as stringers and 1-3mm blebs.										
96.00	98.55	DIORITE	35921	96.35-97.35	1.00							
		, pale gray, massive, veined										
		:qz-carb veining 50°										
		Frs=7/m :Vns =3/m										
		Trace PY disseminated										
		Strong QC vein										
		Fgr dyke with 10% 1-10cm barren Qz-Cb veins. Moderate pervasive Cb. Trace vfgr diss Py.										
98.55	102.45	Siltstone	35475	98.50-99.50	1.00						71.00	10.00

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Aphanitic, dark black, massive, foliated	35476	100.25-101.25	1.00					10.00	56.00	10.00
		cleavage, foliation 55°:qz-carb veining 55°										
		Frs=50/m :Vns =1/m										
		Weak CO coatings										
		Weak PY blebs										
		Weak PR blebs										
		Moderate QC vein										
		Fgr blk slst with common graphite. Several 10-20cm										
		dykes similar to dykes above and below. Minor Qz-Cb										
		veining sub-parallel to fol'n.										
102.45	105.55	DIORITE	35477	101.25-102.75	1.50						77.00	14.00
		, pale gray, massive, Brecciated	35922	103.50-104.50	1.00							
		dyke 70°										
		Frs=20/m :Vns =1/m										
		Moderate CB pervasive										
		Moderate MS pervasive										
		Trace PY disseminated										
		Weak QC vein										
		Fgr dyke with internal bx'n, 10-70% grey to black										
		angular siliceous clasts.										
105.55	144.00	Siltstone	35478	105.55-106.55	1.00					10.00	58.00	14.00
		, blackish-gray, foliated, veined	35479	109.00-110.00	1.00				0.40		84.00	14.00
		cleavage, foliation 65°	35480	112.00-113.00	1.00				0.20		74.00	18.00
		Frs=30/m :Vns =5/m	35481	113.00-114.00	1.00				0.40		70.00	20.00
		Strong CB pervasive	35482	114.00-115.00	1.00				0.40		74.00	24.00
		Trace CO coatings	35483	115.00-116.00	1.00				0.40		65.00	14.00
		Weak PY stringers	35484	116.00-117.00	1.00	95.00			0.20		61.00	14.00
		Weak PR blebs	35485	117.00-118.00	1.00	105.00			0.40	35.00	62.00	6.00
		Moderate QV vein	35486	118.00-119.00	1.00	155.00				145.00	78.00	8.00
		Moderate CV macroveins	35487	119.00-120.00	1.00	245.00				1080.00	75.00	4.00
		Weak QC vein	35488	120.00-121.00	1.00					200.00	76.00	4.00
		Massive to laminated slst, moderately fol'd at 55-70	35489	121.00-122.00	1.00					115.00	59.00	8.00
		deg, laminations generally parallel to fol'n but	35490	122.00-123.00	1.00	240.00			0.20	195.00	68.00	8.00
		convoluted in zone of Qz veining, moderate to strong	35491	123.00-124.00	1.00	625.00			0.40	305.00	69.00	18.00
		Cb alt, one 15cm dior dyke at 116.65m.	35492	124.00-125.00	1.00	2.74	2.74		0.60	2510.00	72.00	8.00
<113.45-127.30>		QUARTZ VEIN [%]	35493	125.00-126.00	1.00	2.32	2.32		0.60	200.00	63.00	10.00
		1 % pyrite - blebs	35494	126.00-127.00	1.00	2.66	2.66		0.60	1100.00	66.00	18.00
		.5% arsenopyrite - euhedral										
		2 % pyrrhotite - blebs										
		25% 0.5-20cm Qz veins, many ribboned with graphitic										
		material. Veins dominantly sub-parallel to fol'n.										
		0.5% euhedral Aspy in slst.										
144.00	146.40	DIORITE	35495	127.00-128.00	1.00	420.00			0.60	20.00	83.00	12.00

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Fine-medium grained, grayish-green, crystalline	35496	128.00-129.00	1.00				0.40		49.00	10.00
		Frs=8/m :Vns =0/m	35497	132.00-133.00	1.00				0.80	40.00	93.00	22.00
		Weak CL pervasive	35498	136.00-137.00	1.00				0.80	45.00	70.00	26.00
		Trace CB pervasive	35499	140.00-141.00	1.00				0.60	25.00	71.00	26.00
		Moderate MS pervasive	35500	142.00-143.00	1.00				0.60	20.00	50.00	22.00
		Fgr-mgr dior dyke, contacts irregular, blebby.	35501	143.00-144.00	1.00				0.40	30.00	81.00	24.00
		Anhedral probable Hb xtals to 2mm.	35923	144.70-145.50	0.80							
146.40	161.80	Siltstone	35502	147.00-148.00	1.00				0.40		47.00	24.00
		, blackish-gray, laminated, veined	35503	149.00-150.00	1.00	340.00			0.60	2000.00	51.00	14.00
		cleavage, foliation 60°:bedding 65°	35504	152.00-153.00	1.00	265.00			0.60	825.00	53.00	16.00
		Frs=20/m :Vns =10/m	35505	153.00-154.00	1.00	750.00			0.80	635.00	97.00	22.00
		Weak CO coatings	35506	154.00-155.00	1.00	5.84	5.26	5.84	1.00		69.00	24.00
		Weak PY stringers	35507	155.00-156.00	1.00	3.42	3.42		0.60		47.00	10.00
		Weak PR blebs	35508	156.00-157.00	1.00	3.57	3.57		1.20	9165.00	107.00	18.00
		Strong QV vein	35509	157.00-158.00	1.00	1.86	1.86		1.00	4035.00	120.00	28.00
		Moderate QC vein	35510	158.00-159.00	1.00	1.96	1.96		0.60	4400.00	74.00	24.00
		Laminated slst with common Qz veining. Laminations	35511	159.00-160.00	1.00	1.87	1.87		0.60	6800.00	76.00	20.00
		and fol'n consistant at 60 deg except in veined zone.	35512	160.00-161.00	1.00	170.00			0.20	820.00	54.00	22.00
<158.10-161.00>		QUARTZ VEIN [%]										
		2 % pyrite - blebs										
		3 % arsenopyrite - euhedral										
		1 % pyrrhotite - blebs										
		50% Qz veining, euhedral Aspy xtals to 8mm long										
		concentrated at vein margins in slst. Veins commonly										
		ribbloned with graphitic material.										
161.80	185.80	SANDSTONE	35513	161.00-161.80	0.80	275.00			0.20	40.00	37.00	24.00
		, blackish-gray, bedded, laminated	35514	162.25-163.25	1.00					30.00	35.00	32.00
		bedding 75°	35515	166.00-167.00	1.00						34.00	22.00
		Frs=15/m :Vns =1/m	35516	174.00-174.95	0.95					35.00	40.00	20.00
		Moderate CB pervasive	35517	176.00-177.00	1.00					45.00	106.00	24.00
		Trace PY disseminated	35518	180.50-181.50	1.00				0.20		44.00	22.00
		Trace PR blebs										
		Weak QC vein										
		Massive sst with interbedded slst, slst often										
		laminated, sst beds 2-20 cm often with slst rip-ups.										
		Sst beds commonly calcareous, bedding consistently										
		70-80 deg.										
<174.95-175.45>		DIORITE										
		, grayish-green, massive, veined										
		Frs=12/m :Vns =5/m										
		Weak CL pervasive										
		Trace CB pervasive										
		Strong MS pervasive										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Strong QC vein										
		Fgr dyke with 10% Qz-Cb veining, veins 0.5-1cm with no preferred orientation.										
<176.45-176.75>		Frs=12/m :Vns =5/m										
		Weak CL pervasive										
		Trace CB pervasive										
		Strong MS pervasive										
		Strong QC vein										
		Fgr dyke similar to dyke at 174.95-175.45m.										
<185.80-186.25>		, grayish-green, massive										
		Frs=10/m :Vns =0/m										
		Moderate CL pervasive										
		Strong MS pervasive										
		Trace PY coatings										
		Massive strongly sericite altered dyke, contacts irregular.										
186.25	191.16	Siltstone	35519	186.25-187.50	1.25				0.20		59.00	24.00
		, dark black, massive	35520	189.00-190.00	1.00				0.40	10.00	67.00	30.00
		bedding 80°	35521	190.00-191.16	1.16				0.20	15.00	67.00	28.00
		Frs=20/m :Vns =10/m										
		Weak PY stringers										
		Moderate QC macroveins										
		Massive to thinly bedded slst with irregular micro-stockworked Qz-Cb veinlets. Bedding consistently 75-80 deg but commonly disrupted by small shears.										
(eoh)												

12/16/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — AG96-08

PROJECT: AMPLE	Date Commenced: MAY 5	Contractor: HY-TECH	Logged by: KP
DRILL HOLE: AG96-08	Date Completed: MAY 7		Geotech by: CK
LENGTH: 153.00	Core Diam: BQTK		

Collar Location

Latitude: 5610984.00
Departure: 568700.00
Elevation: 1123.00

SUMMARY

0.00-4.57	CASING
4.57-17.55	GREENSTONE
17.55-29.50	Siltstone
29.50-56.80	GREENSTONE
56.80-79.20	CONGLOMERATE •
79.20-79.95	GREENSTONE
79.95-96.35	CONGLOMERATE
96.35-102.48	Siltstone
102.48-102.60	DIORITE
102.60-120.35	Siltstone
120.35-132.20	GREENSTONE
132.20-133.40	DIORITE
133.40-151.37	GREENSTONE

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	45.00	-60.00	BRUNTON
4.60	53.50	-63.00	SPERRY SUN
149.70	53.50	-70.00	SPERRY SUN

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
0.00	4.57	CASING										
4.57	16.80	GREENSTONE	35522	7.50-8.50	1.00					40.00	64.00	26.00
		, greenish-gray, foliated	35523	10.00-11.00	1.00					55.00	218.00	12.00
		cleavage, foliation 50°	35524	14.00-15.00	1.00					120.00	132.00	14.00
		Frs=10/m :Vns =2/m	35525	15.85-16.80	0.95					120.00	183.00	8.00
		Moderate SI pervasive	35526	16.80-17.55	0.75				0.40	130.00	85.00	4.00
		Moderate CL pervasive										
		Moderate QC vein										
		Strongly folitaed greenstone with intercalated										
		siltstone. Patchy 10 - 20 cm zones of pervasive										
		silicification, foliation variable from 25 - 65										
		degrees but no folded or convoluted zones.										
		Quartz/Carbonate veins generally subparallel to										
		foliation and commonly contain patchy chlorite.										
	<15.85-16.80>	, dark gray, massive										
		Frs=30/m :Vns =1/m										
		Intense SI pervasive										
		Strong QV vein										
		Strongly silicified zone, minor limonite on fractures.										
		Approximately 5% boxwork after pyrite. One 15 cm										
		quartz vein.										
17.55	29.50	Siltstone	35527	17.55-19.00	1.45				0.80	165.00	171.00	6.00
		, black, broken, veined	35528	19.00-20.00	1.00				0.80	110.00	149.00	4.00
		Frs=80/m :Vns =3/m	35529	20.00-21.00	1.00				0.80	85.00	102.00	6.00
		Strong SI pervasive	35530	21.00-22.00	1.00				0.40	110.00	90.00	4.00
		Weak LI coatings	35531	22.00-23.00	1.00					130.00	93.00	4.00
		Strong QV vein	35532	23.00-24.00	1.00	95.00			0.80	30.00	68.00	16.00
		Pervasively silicified siltstone with 1 - 4 cm quartz	35533	24.00-25.00	1.00	190.00			2.00	105.00	91.00	42.00
		veins, common limonite on fractures and at vein	35534	25.00-26.00	1.00					135.00	103.00	8.00
		margins. Core generally broken, foliation, where	35535	26.00-27.00	1.00	175.00				290.00	76.00	10.00
		present, at low angles to core axis. Upper portion of	35536	27.00-28.00	1.00	210.00			0.40	35.00	61.00	12.00
		interval completely silicified and partially	35537	28.00-29.00	1.00	120.00				35.00	45.00	
		brecciated -> possible correlation to mineralized zone										
		at 20m in AG96-07.										
29.50	41.00	GREENSTONE	35538	30.00-31.00	1.00				0.40	60.00	52.00	4.00
		, grayish-green, foliated, Brecciated	35539	32.00-33.00	1.00					2495.00	50.00	8.00
		cleavage, foliation 15°	35540	33.00-34.00	1.00				0.60	2720.00	73.00	16.00
		Frs=10/m :Vns =2/m	35541	34.00-35.00	1.00					7745.00	43.00	10.00
		Moderate CL pervasive	35542	35.00-36.00	1.00					485.00	51.00	10.00
		Moderate CB macroveins	35543	36.00-37.00	1.00	290.00			0.20	3070.00	46.00	
		Trace PY blebs	35544	37.00-38.00	1.00	615.00				1525.00	36.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Moderate QV vein	35545	38.00-39.00	1.00	2.10	2.10		0.40	85.00	64.00	2.00
		TR% pyrite - blebs	35546	39.00-40.00	1.00	1.04	1.04		0.20	3725.00	42.00	12.00
		Foliated to faintly brecciated greenstone, rare	35547	40.00-41.00	1.00	1.10	1.10		0.20		46.00	10.00
		0.5-5cm quartz veins, generally cutting foliation.	35548	48.00-49.00	1.00				0.40		40.00	14.00
		Near the top of the interval several zones of patchy	35549	55.40-56.80	1.40	425.00			0.80	6530.00	65.00	42.00
		Fe-Cb alt. Trace Py as small blebs in veins. 35.60										
		-> CV= 15 degrees, 45.80 -> CV= 0 degrees, 51.60 ->										
		CV= 50 degrees, 52.80 -> S1= 45										
<37.00-41.00>		, blackish-brown, broken										
		Frs=100/m :Vns =2/m										
		Trace CB pervasive										
		Moderate LI coatings										
		Weak CO coatings										
		Weak PY blebs										
		Strong QV vein										
		Strongly broken zone, common graphite, limonite on										
		fractures and pervasive through small sections.										
		Approximately 1 % unoxidized pyrite generally in										
		veins.										
56.80	79.20	CONGLOMERATE	35550	56.80-58.00	1.20	10.57	7.26	10.57	0.60		56.00	8.00
		Fine-coarse grained, blackish-gray, foliated, clastic	35551	58.00-59.00	1.00	400.00				260.00	150.00	6.00
		cleavage, foliation 30°	35552	59.00-60.00	1.00	4.69	4.69		1.20		70.00	6.00
		Frs=10/m :Vns =3/m	35553	60.00-61.00	1.00	4.75	4.75		0.40	920.00	91.00	8.00
		Moderate CB pervasive	35554	61.00-62.00	1.00	6.15	5.58	6.15		215.00	87.00	28.00
		Trace CO coatings	35555	62.00-63.00	1.00	2.58	2.58			3795.00	164.00	2.00
		Weak PY blebs	35556	63.00-64.00	1.00	1.20	1.20			1455.00	160.00	8.00
		Strong QV vein	35557	64.00-65.00	1.00	215.00				1725.00	204.00	6.00
		Moderate CV vein	35558	65.00-66.00	1.00	435.00				530.00	195.00	
		1%% pyrite - blebs	35559	66.00-67.00	1.00	1.95	1.95		0.20	945.00	142.00	8.00
		Conglomerate, interbedded with siltstone approximately	35560	67.00-68.00	1.00	1.23	1.23		0.20	155.00	105.00	8.00
		60% conglomerate, 40% siltstone. Highly strained -	35561	68.00-69.00	1.00	5.83	5.45	5.83	0.40	435.00	95.00	6.00
		clasts flattened up to 15:1 ratios. Foliation	35562	69.00-70.00	1.00	2.34	2.34			260.00	86.00	
		variable, somewhat convoluted in mineralized zone but	35563	70.00-71.00	1.00	745.00			0.20	275.00	90.00	
		generally 20 -40 degrees.	35564	71.00-72.00	1.00	75.00				245.00	64.00	
<56.80-70.40>		QUARTZ VEIN [%]										
		?? LI blebs										
		% pyrite - blebs										
		3%% chalcopyrite - euhedral										
		Zone of 25% quartz veins, 0.5 - 15 cm. Dominantly										
		subparallel with foliation but irregular, blebby and										
		somewhat convoluted. Aspy dominantly as euhedral 1-4										
		mm crystals in siltstone but also as blebbs in veins.										
		quartz veins concentrated in siltstone, rare in										
		conglomerate.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
79.20	79.95	GREENSTONE	35565	75.00-76.00	1.00					380.00	108.00	6.00
		Aphanitic, greenish-gray, massive, veined	35566	77.70-79.80	2.10					270.00	101.00	6.00
		Frs=15/m :Vns =5/m										
		Moderate CL pervasive										
		Trace CB pervasive										
		Strong MS pervasive										
		Strong QC vein										
		Probable greenstone, possible dyke. Cut by 10%										
		quartz/carbonate veinlets.										
79.95	96.35	CONGLOMERATE	35567	79.80-80.00	0.20				0.20	95.00	73.00	8.00
		Fine-coarse grained, dark gray, foliated, clastic	35568	80.00-81.00	1.00				0.40	35.00	77.00	12.00
		cleavage, foliation 30°:bedding 40°	35569	81.00-82.00	1.00					35.00	44.00	12.00
		Frs=8/m :Vns =3/m	35570	82.00-83.00	1.00				0.40	40.00	45.00	12.00
		Strong CB pervasive	35571	83.00-84.00	1.00				0.40	25.00	43.00	6.00
		Trace CO coatings	35572	84.00-85.00	1.00					40.00	50.00	10.00
		Weak PY blebs	35573	85.00-86.00	1.00	175.00			0.40	320.00	47.00	6.00
		Moderate QV vein	35574	86.00-87.00	1.00	110.00			0.40	290.00	58.00	8.00
		Moderate QC vein	35575	87.00-88.00	1.00	215.00				790.00	39.00	18.00
		1%% pyrite - blebs	35576	93.00-94.00	1.00					25.00	70.00	26.00
		Pebble conglomerate interbedded with siltstone. Clasts										
		strongly flattened , common siltstone rip-ups in										
		conglomerate. Quartz veins concentrated in siltstone,										
		Trace Ap at 85.70 meters, foliation consistent at 25 -										
		30 degrees.										
96.35	102.48	Siltstone	35577	96.35-97.35	1.00				0.40	10.00	48.00	24.00
		, blackish-gray, foliated, laminated	35578	101.00-102.00	1.00						74.00	32.00
		bedding 45°:cleavage, foliation 45°										
		Frs=20/m										
		Moderate CB pervasive										
		Trace CO coatings										
		Trace PY stringers										
		Moderate QC macroveins										
		Laminated siltstone with minor interbedded sandstone,										
		5% quartz/carbonate veinlets parallel to foliation.										
102.48	102.60	DIORITE										
		, greenish-gray, massive, crystalline										
		dyke 55°										
		Frs=5/m :Vns =10/m										
		Strong CL pervasive										
		Moderate CB pervasive										
		Moderate MS pervasive										
		Moderate QC macroveins										
		12 cm hornblende phyric dyke, contacts parallel with										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		fol'n, 1-3 mm quartz/carbonate stringers subparallel to foliation/dyke.										
102.60	114.75	Siltstone	35579	102.00-103.00	1.00					25.00	99.00	38.00
		, blackish-gray, laminated, massive	35580	106.00-107.00	1.00						84.00	38.00
		bedding 50°:cleavage, foliation 50°	35581	111.00-112.00	1.00					15.00	90.00	40.00
		Frs=15/m :Vns =1/m	35582	113.80-114.75	0.95				0.20	25.00	62.00	30.00
		Trace CO coatings	35583	115.00-116.00	1.00					20.00	54.00	26.00
		Trace PY blebs	35584	117.00-118.00	1.00				0.20	5.00	96.00	30.00
		Moderate QC macroveins										
		TR% pyrite - blebs										
		Strongly foliated siltstone, foliation consistently 50 - 55 degrees, carbonate veinlets parallel to fol'n.										
<113.80-114.75>		Fine-coarse grained, blackish-gray, foliated cleavage, foliation 60°										
		Frs=12/m :Vns =1/m										
		Moderate CB pervasive										
		Weak PY blebs										
		Moderate CV macroveins										
		1%% pyrite - blebs										
		Siltstone with approximately 30 % probable volcanic clasts. Clasts 0.5 - 4cm, moderatly flattened.										
120.35	132.20	GREENSTONE	35585	121.65-122.65	1.00	750.00			0.60		132.00	8.00
		, grayish-green, mottled, foliated	35586	124.50-125.50	1.00					60.00	145.00	8.00
		cleavage, foliation 50°	35587	125.50-127.00	1.50				0.20	40.00	93.00	8.00
		Frs=30/m :Vns =2/m	35588	127.00-128.00	1.00					80.00	142.00	
		Trace CL pervasive	35589	129.00-130.00	1.00					530.00	213.00	48.00
		Strong CB pervasive										
		Trace PY blebs										
		Moderate QC vein										
		.5% pyrite - blebs										
		Mottled volcanic (gnst) with siltstone matrix, moderatly foliated, common carbonate stringers and pervasive carbonate alteration. Approximately 5% 1-5 mm AP crystals over 20 cm at 128.30m. Rare 1-2 cm quartz/carbonate veins parallel to foliation.										
132.20	133.40	DIORITE										
		, grayish-green, massive, foliated										
		dyke 45°:cleavage, foliation 45°										
		Frs=12/m :Vns =1/m										
		Moderate CL pervasive										
		Weak CB pervasive										
		Moderate MS pervasive										
		Weak QC vein										

FROM	TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Massive hornblende phyric diorite, one 3cm quartz/carbonate vein parallel to foliation.										
133.40	151.37	GREENSTONE	35590	139.00-140.00	1.00					15.00	152.00	
		, grayish-green, mottled, massive	35591	146.00-147.00	1.00					25.00	136.00	
		cleavage, foliation 50°	35592	147.00-148.00	1.00					5.00	182.00	6.00
		Frs=15/m :Vns =3/m	35593	148.00-149.00	1.00					45.00	89.00	2.00
		Weak CL pervasive	35594	150.00-151.37	1.37					1100.00	154.00	170.00
		Strong CB pervasive										
		Trace PY disseminated										
		Moderate QC vein										
		TR% pyrite - disseminated										
		Mottled greenstone with siltstone, weakly foliated.										
		Quartz/carbonate veins 0.5-5cm generally parallel to foliation, contain patchy chlorite and rare pyrite.										
(eoh)												

12/16/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — AG96-09

PROJECT: AMPLE	Date Commenced: MAY 7	Contractor: HY-TECH	Logged by: KP
DRILL HOLE: AG96-09	Date Completed: MAY 9		Geotech by: CK
LENGTH: 176.00	Core Diam: BQTK		

Collar Location

Latitude: 5610979.00
Departure: 568699.00
Elevation: 1123.00

S U M M A R Y

0.00-4.10	CASING
4.10-19.88	GREENSTONE *
19.88-27.75	Siltstone *
27.75-29.95	DIORITE
29.95-44.65	Siltstone *
44.65-45.65	DIORITE
45.65-57.65	Siltstone
57.65-57.85	DIORITE
57.85-103.60	Siltstone
103.60-108.70	DIORITE
108.70-136.35	Siltstone
136.35-136.85	DIORITE
136.85-156.75	SANDSTONE
156.75-159.05	DIORITE
159.05-168.05	Siltstone
168.05-171.10	DIORITE
171.10-176.83	Siltstone

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	180.00	-60.00	BRUNTON
10.10	183.50	-60.00	SPERRY SUN
83.80	194.50	-62.00	SPERRY SUN
175.30	209.50	-60.00	SPERRY SUN

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
0.00	4.10	CASING										
4.10	9.50	GREENSTONE	35595	6.00-7.00	1.00					110.00	71.00	12.00
		Aphanitic, greenish-gray, foliated, banded	35596	7.00-8.00	1.00					105.00	52.00	6.00
		cleavage, foliation 75°	35597	8.00-9.50	1.50					105.00	45.00	8.00
		Frs=30/m :Vns =3/m	35598	13.00-14.00	1.00					1605.00	144.00	2.00
		Weak CL pervasive	35599	14.00-15.00	1.00	9.54	8.74	9.54	0.40		75.00	4.00
		Trace PY blebs	35600	15.00-16.00	1.00	12.85	11.85	12.85	1.00		108.00	6.00
		Moderate QV vein	35601	16.00-17.00	1.00	595.00				335.00	71.00	8.00
		Weak QC vein	35602	17.00-18.00	1.00	1.55	1.55			1230.00	87.00	8.00
		Strongly fol'd, banded gnst, fol'n consistently 70-85	35603	18.00-19.00	1.00	1.16	1.16			310.00	73.00	
		degrees. Minor limonite on fractures at top of zone.	35604	19.00-19.88	0.88	1.01	1.01			2060.00	109.00	6.00
	<4.10-9.50>	Aphanitic, gray, massive										
		Frs=20/m										
		Intense SI pervasive										
		Trace PY disseminated										
		Pervasily sil'd zone with faint Qz micro-stockworking.										
		Bx'd at base of zone. Strongly broken zone. From										
		9.50 to 10.80m below sil'n - possible flt.										
	<14.20-19.88>	QUARTZ VEIN [%]										
		1 % pyrite - blebs										
		.5% arsenopyrite - disseminated										
		15% 0.3-5cm Qz veins, some ribboned with graphite +/-										
		fgr aspy, many with 1-2mm calcite xtals at vein										
		margins. Up to 5% fgr aspy diss through gnst, common										
		blebby Py at vein margins. Veins both parallel to and										
		cross-cutting fol'n.										
19.88	27.75	Siltstone	35605	19.88-21.00	1.12	4.90	9.47	4.90		8015.00	49.00	8.00
		Aphanitic, blackish-gray, laminated, veined	35606	21.00-22.00	1.00	1.02	1.02			3795.00	21.00	8.00
		bedding 70°	35607	22.00-23.00	1.00	1.03	1.03			2505.00	26.00	14.00
		Frs=20/m :Vns =10/m	35608	23.00-24.00	1.00	1.81	1.81			665.00	48.00	30.00
		Weak PY blebs	35609	24.00-25.00	1.00	1.42	1.42			2265.00	42.00	8.00
		Trace PR laminations	35610	25.00-26.00	1.00	1.22	1.22			215.00	36.00	16.00
		Intense QV vein	35611	26.00-27.00	1.00	1.25	1.25			165.00	51.00	34.00
		Laminated slst with 0.5-20cm Qz veins. Veins	35612	27.00-27.75	0.75	2.66	2.66			260.00	65.00	20.00
		generally sup-parallel to fol'n but often non-planar										
		and cutting laminations. Fol'n consistently 70-80										
		deg.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
<19.88-27.75>		QUARTZ VEIN [%] 2 % pyrite - blebs 1 % arsenopyrite - euhedral .5% pyrrhotite - laminations .1% gold - blebs 30% Qz veining, many ribboned with graphite and fgr aspy. One 35cm vein at 20.00m faintly brecciated with 7 flakes of VG seen and fine ribbons of fgr aspy.										
27.75	29.95	DIORITE	35613	27.75-28.90	1.15	920.00				3825.00	50.00	14.00
		, grayish-green, massive, porphyritic	35614	28.90-29.95	1.05	2.67	2.67			2960.00	39.00	4.00
		dyke 90° Frs=8/m :Vns =4/m Trace CL pervasive Strong MS pervasive Trace PY disseminated Trace PR blebs Strong QV vein Strongly SER alt HB-phyric dyke, fgr euhedral diss Aspy throughout dyke.										
29.95	44.65	Siltstone	35615	29.95-31.00	1.05	3.70	3.70			3490.00	30.00	22.00
		, blackish-green, massive, veined	35616	31.00-32.00	1.00	3.33	3.33			3100.00	36.00	8.00
		bedding 60°	35617	32.00-33.00	1.00	2.58	2.58			435.00	28.00	14.00
		Frs=40/m :Vns =15/m	35618	33.00-34.00	1.00	1.11	1.11			1835.00	45.00	6.00
		Weak PR blebs	35619	34.00-35.00	1.00	1.19	1.19			2805.00	49.00	8.00
		Strong QV vein	35620	35.00-36.00	1.00					85.00	41.00	6.00
		Moderate CV vein	35621	36.00-37.00	1.00				0.20	40.00	50.00	14.00
		Massive to faintly laminated slst with 0.1-3cm Qz veins commonly parallel to fol'n.	35622	37.00-38.00	1.00					20.00	60.00	14.00
			35623	41.00-42.00	1.00						60.00	16.00
			35624	43.65-44.65	1.00						74.00	20.00
<29.95-36.70>		QUARTZ VEIN [%] 2 % pyrite - blebs 2 % arsenopyrite - euhedral 30% Qz veining, fairly convoluted but generally parallel to fol'n. Minor fgr aspy in graphitic ribbons in veins, most aspy as euhedral 1-3mm xtals in slst.										
44.65	45.65	DIORITE	35927	44.65-45.65	1.00							
		Aphanitic, pale gray, massive dyke 70° Frs=20/m Weak CB pervasive Intense MS pervasive Aphanitic to VFGR dior dyke.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
45.65	57.65	Siltstone	35625	46.00-47.00	1.00						60.00	10.00
		, blackish-gray, laminated, massive	35626	49.00-50.00	1.00					15.00	59.00	20.00
		cleavage, foliation 60°	35627	51.00-52.00	1.00					15.00	51.00	20.00
		Frs=30/m :Vns =5/m	35628	53.00-54.35	1.35					15.00	41.00	14.00
		Weak CB pervasive	35629	55.00-56.00	1.00				0.20	25.00	94.00	20.00
		Weak PY disseminated										
		Strong CV vein										
		Moderate QC vein										
		Massive to laminated slst, fol'n fairly consistent at										
		60-70 degrees. Laminations generally parallel to										
		fol'n, but also folded and cut by fol'n-parallel										
		micro-faults. Most veins and veinlets parallel to										
		fol'n.										
57.65	57.85	DIORITE										
		Aphanitic, grayish-green, massive										
		dyke 60°										
		Frs=20/m										
		Trace CL pervasive										
		Intense MS pervasive										
		Small massive aphanitic dyke approx parallel to fol'n.										
57.85	103.60	Siltstone	35630	57.00-58.00	1.00				0.20	30.00	79.00	18.00
		, blackish-gray, massive, laminated	35631	60.00-61.00	1.00					10.00	30.00	14.00
		cleavage, foliation 50°	35632	62.65-64.00	1.35	165.00				130.00	61.00	14.00
		Frs=15/m :Vns =5/m	35633	66.00-67.00	1.00	280.00				545.00	68.00	6.00
		Trace CB pervasive	45634	67.00-68.00	1.00	960.00						
		Trace CO coatings	35635	68.00-69.00	1.00	3.41	3.41		0.80	800.00	62.00	18.00
		Weak PY stringers	35636	69.00-70.00	1.00	230.00			0.20	165.00	72.00	20.00
		Weak PR stringers	35637	70.00-71.00	1.00	75.00			0.40		54.00	20.00
		Moderate QV vein	35638	71.00-72.00	1.00	300.00			0.40	15.00	70.00	16.00
		Strong QC vein	35639	72.00-73.00	1.00						50.00	14.00
		Massive to laminated slst, Qz and Qz-Cb veins commonly	35640	73.00-74.00	1.00	85.00				620.00	66.00	12.00
		fol'n parallel but also x-cutting, veins cutting fol'n	35641	74.00-75.00	1.00					35.00	69.00	10.00
		later than fol'n parallel veins and commonly have	35642	75.00-76.00	1.00						88.00	18.00
		20-30% PY+PR. Fol'n and laminations commonly tightly	35643	76.00-77.00	1.00						61.00	20.00
		folded	35644	77.00-78.00	1.00						51.00	20.00
		but generally 40-60 degrees.	35645	78.00-79.00	1.00					110.00	57.00	16.00
			35646	79.00-80.00	1.00						57.00	26.00
		62.00m....So=45 62.50m....66.50-tightly folded	35647	80.00-81.00	1.00						43.00	22.00
		72.00m....So=55 79.60m....S1=65 83.30m....S1=4	35648	81.00-82.00	1.00					85.00	48.00	22.00
		86.70m....S1=50 89.20m....So=40 94.10m....S1=60	35649	82.00-83.00	1.00						49.00	22.00
		102.70m....S1=75 95.50m....97.50 tightly folded.	35650	83.00-84.00	1.00						73.00	28.00
103.60	108.70	DIORITE	35651	84.00-85.00	1.00				0.40	15.00	64.00	22.00
		, grayish-green, massive, crystalline	35652	85.00-86.00	1.00						62.00	20.00

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Frs=8/m	35653	86.00-87.00	1.00					135.00	67.00	22.00
		Weak CL pervasive	35654	87.00-88.00	1.00						51.00	24.00
		Strong CB pervasive	35655	88.00-89.00	1.00						54.00	24.00
		Strong MS pervasive	35656	94.00-95.00	1.00				0.20		65.00	26.00
		Trace PY disseminated	35657	95.00-96.00	1.00				0.20		44.00	22.00
		Large FGR-MGR dyke. Zones of aphanitic rock within	35658	96.00-97.00	1.00					40.00	55.00	12.00
		xtaline rock may indicate multiple phases of	35659	100.00-101.00	1.00						62.00	16.00
		intrusion.	35660	101.00-102.00	1.00				0.40	15.00	63.00	22.00
108.70	133.00	Siltstone	35661	102.30-103.60	1.30						78.00	26.00
		, blackish-gray, laminated	35928	105.10-106.10	1.00							
		cleavage, foliation 80°	35662	108.50-109.50	1.00					10.00	80.00	26.00
		Frs=20/m :Vns =2/m	35663	110.00-111.00	1.00						80.00	22.00
		Moderate CB pervasive	35664	114.00-115.00	1.00						40.00	18.00
		Trace CO coatings	35665	117.00-118.00	1.00				0.40	5.00	81.00	24.00
		Weak PY blebs	35666	120.00-121.00	1.00				0.20	30.00	48.00	16.00
		Weak PR blebs	35667	122.00-123.00	1.00				0.60		77.00	24.00
		Moderate QC vein	35668	127.00-127.91	0.91					30.00	59.00	24.00
		Laminated slst with minor interbedded sst. Fol'n	35669	127.91-129.00	1.09	155.00				10.00	58.00	14.00
		fairly consistently 75-90 degrees. Laminations folded	35670	129.00-130.00	1.00					25.00	48.00	12.00
		and crenulated. Common 1-3mm Cb stringers, rare	35671	130.00-131.00	1.00					60.00	63.00	20.00
		larger 1-5cm Qz-Cb veins. PY+PR as small blebs in	35672	131.00-132.00	1.00	90.00			0.20	15.00	37.00	8.00
		slst and larger(1-5mm) blebs in veins.	35673	132.00-133.00	1.00	1.02	1.02			125.00	54.00	10.00
<127.91-133.00>		, grayish-black, veined, laminated										
		bedding 90°										
		Frs=100/m :Vns =10/m										
		Intense SI pervasive										
		Weak PY blebs										
		Weak PR blebs										
		Strong QV vein										
		Moderate QC vein										
		Broken zone of pervasive sil'n and increased Qz										
		veining, Cb microveins commonly perp to fol'n (o										
		degrees to core axis) with small vugs along veinlets.										
136.35	136.85	DIORITE	35674	133.00-134.00	1.00	2.68	2.68			2845.00	36.00	10.00
		Aphanitic, grayish-green, massive	35675	134.00-136.35	2.35					30.00	21.00	18.00
		dyke 90°										
		Frs=40/m										
		Weak SI pervasive										
		Trace CL pervasive										
		Intense MS pervasive										
		Small strongly altered aphanitic dyke.										
136.85	156.75	SANDSTONE	35676	136.35-137.35	1.00					5.00	19.00	18.00
		, blackish-gray, laminated, bedded	35677	137.35-138.35	1.00					75.00	46.00	20.00

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		bedding 60°	35678	142.00-143.00	1.00					20.00	25.00	22.00
		Frs=15/m :Vns =1/m	35679	148.00-149.00	1.00						36.00	24.00
		Moderate CB pervasive	35680	153.00-154.00	1.00						28.00	22.00
		Trace PY blebs	35681	155.75-156.75	1.00						51.00	26.00
		Trace PR blebs										
		Weak QC vein										
		Interbedded sst and slst, common slst rip-ups in sst										
		beds. Slst generally laminated, bedding/fol'n										
		parallel and generally 60-65 degrees. Rare qz veins										
		generally parallel to fol'n and commonly boudined.										
		PY+PY generally as small blebs strung out parallel to										
		fol'n.										
156.75	159.05	DIORITE	35682	156.75-158.00	1.25					25.00	92.00	26.00
		, pale gray, crystalline, veined										
		qz-carb veining 65°										
		Frs=15/m :Vns =8/m										
		Weak CB pervasive										
		Strong MS pervasive										
		Trace PY blebs										
		Weak PR blebs										
		Strong QC vein										
		Strongly Ser-Cb alt dyke, aphanitic to FGR. Margins										
		irregular, with Qz+Cb+-Chl veining and common blebby										
		PR. Dominant vein orientation approx 65 degrees.										
159.05	168.05	Siltstone	35683	162.00-163.00	1.00					25.00	53.00	26.00
		, blackish-gray, laminated, bedded	35684	165.00-166.00	1.00						34.00	20.00
		bedding 70°:qz-carb veining 80°	35685	167.00-168.00	1.00						47.00	26.00
		Frs=20/m :Vns =4/m										
		Trace CB pervasive										
		Trace PY blebs										
		Weak PR blebs										
		Moderate QC vein										
		Laminated slst with minor interbedded sst,										
		laminations/bedding consistently 70 degrees from										
		159.05 to 165.00, tightly folded below, most veining										
		in folded section, veins commonly 70-90 degrees, PY+PR										
		as blebs strung out along laminations and in x-cutting										
		veins at 0-20 degrees to core axis.										
168.05	171.10	DIORITE	35929	169.00-170.00	1.00							
		, gray, crystalline, massive										
		dyke 70°:qz-carb veining 70°										
		Frs=10/m :Vns =3/m										
		Strong CB pervasive										
		Intense MS pervasive										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Trace PY disseminated										
		Trace PR disseminated										
		Moderate QC vein										
		Strongly Ser+Cb alt dyke with rare 0.2-2cm Qz-Cb veins										
		generally oriented 60-80 degrees.										
171.10	176.83	Siltstone	35686	171.00-172.00	1.00						35.00	20.00
		, blackish-gray, laminated, bedded	35687	174.00-175.00	1.00						53.00	26.00
		bedding 75°	35688	175.83-176.83	1.00	95.00					48.00	26.00
		Frs=20/m										
		Moderate CB macroveins										
		Weak PY blebs										
		Weak PR blebs										
		Laminated slst with minor interbedded sst, common										
		rip-ups in sst, bedding from 50-75 degrees, commonly										
		disrupted by small shears.										
(eoh)												

12/16/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — AG96-10A

PROJECT: AMPLE	Date Commenced: MAY 9	Contractor: HY-TECH	Logged by: KP
DRILL HOLE: AG96-10A	Date Completed: MAY 10		Geotech by: CK
LENGTH: 24.00	Core Diam: BQTK		

Collar Location

Latitude: 5611059.00
Departure: 568761.00
Elevation: 1080.00

S U M M A R Y

0.00-18.30	CASING
18.30-24.00	OVERBURDEN

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	55.00	-61.00	BRUNTON

FROM	TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
0.00	18.30	CASING		0.00-0.00	0.00							
18.30	24.00	OVERBURDEN Casing to 55', drilled ahead to 80', no bedrock found.										
(eoh)												

12/16/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — AG96-10B

PROJECT: AMPLE	Date Commenced: MAY 10	Contractor: HY-TECH	Logged by: KP
DRILL HOLE: AG96-10B	Date Completed: MAY 11		Geotech by: CK
LENGTH: 38.00	Core Diam: BQTK		

Collar Location

Latitude: 5611058.50
Departure: 568762.50
Elevation: 1080.00

S U M M A R Y

0.00-5.00	CASING
5.00-38.00	OVERBURDEN

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	45.00	-65.00	BRUNTON

FROM	TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
0.00	5.00	CASING		0.00-0.00	0.00							
5.00	38.00	OVERBURDEN Casing to 15'; hole skipping along bedrock surface through broken ground to 125'.										
(eoh)												

12/16/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — AG96-11

PROJECT: AMPLE	Date Commenced: MAY 11	Contractor: HY-TECH	Logged by: KP
DRILL HOLE: AG96-11	Date Completed: MAY 12		Geotech by: CK
LENGTH: 41.00	Core Diam: BQTK		

Collar Location

Latitude: 5610870.50
Departure: 568803.00
Elevation: 1017.00

S U M M A R Y

0.00-10.00	CASING
10.00-41.00	OVERBURDEN

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	150.00	-65.00	BRUNTON

HOLE: AG96-11 HOMESTAKE MINING COMPANY - AMPLE

FROM	TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
0.00	10.00	CASING		0.00-0.00	0.00							
10.00	41.00	OVERBURDEN Casing to 30'; drilled ahead to 135' but lost core barrel in broken possible bedrock.										
(eoh)												

12/16/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — AG96-12

PROJECT: AMPLE	Date Commenced: MAY 12	Contractor: HY-TECH	Logged by: KP
DRILL HOLE: AG96-12	Date Completed: MAY 14		Geotech by: CK
LENGTH: 201.00	Core Diam: BQTK		

Collar Location

Latitude: 5610856.00
Departure: 568904.50
Elevation: 980.00

SUMMARY

0.00-15.24	CASING
15.24-17.40	OVERBURDEN
17.40-33.85	SANDSTONE
33.85-41.50	DIORITE
41.50-46.05	SANDSTONE
46.05-53.80	DIORITE
53.80-63.15	Siltstone
63.15-68.30	DIORITE
68.30-85.65	Siltstone
85.65-89.05	DIORITE
89.05-98.80	Siltstone
98.80-99.75	DIORITE
99.75-128.30	Siltstone
128.30-129.40	DIORITE
129.40-134.85	SANDSTONE
134.85-142.85	DIORITE
142.85-146.50	SANDSTONE
146.50-149.65	DIORITE
149.65-167.25	Siltstone
167.25-183.50	SANDSTONE
183.50-191.90	DIORITE
191.90-197.86	Siltstone

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	45.00	-75.00	BRUNTON
19.76	46.50	-74.00	SPERRY SUN
104.27	53.50	-76.00	SPERRY SUN
195.47	61.50	-79.00	SPERRY SUN

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
0.00	15.24	CASING										
15.24	17.40	OVERBURDEN										
17.40	33.85	SANDSTONE	35689	21.00-22.00	1.00							
		, grayish-black, clastic, foliated	35690	23.50-23.50	0.00							
		cleavage, foliation 85°:bedding 75°	35691	30.00-31.00	1.00							
		Frs=25/m :Vns =2/m										
		Moderate CB pervasive										
		Trace PY blebs										
		Trace PR blebs										
		Weak QC vein										
		MGR-CGR sst with interbedded slst, rare Qz-Cb veining										
		commonly perpendicular to fol'n, PY+PR as blebs in										
		veins. TR AP as 1-3mm xtals in sst seen over 10cm.										
33.85	41.50	DIORITE	35692	34.00-35.00	1.00							
		Fine-medium grained, gray, foliated	35693	36.00-37.00	1.00							
		cleavage, foliation 40°	35694	40.50-41.50	1.00							
		Frs=15/m :Vns =2/m										
		Strong CB pervasive										
		Moderate MS pervasive										
		Trace PY disseminated										
		Moderate QC vein										
		FGR-CGR dyke, mafic xtals (probable HB) to 4mm										
		moderatly fol'd, Qz-Cb veins 0.3-5cm.										
41.50	46.05	SANDSTONE	35695	43.00-44.00	1.00							
		, grayish-black, massive	35696	45.05-46.05	1.00							
		bedding 65°										
		Frs=15/m										
		Moderate CB pervasive										
		Trace PY blebs										
		Weak QC vein										
		Sst with interbedded slst, common slst rip-ups in sst,										
		minor Qz-Cb stringers with PY, trace euhedral Aspy										
		xtals in slst.										
46.05	53.80	DIORITE	35930	47.35-48.35	1.00							
		, grayish-green, massive, veined	35697	50.00-51.00	1.00							
		dyke 70°:qz-carb veining 40°										
		Frs=10/m :Vns =2/m										
		Weak CL pervasive										
		Strong CB pervasive										
		Moderate MS pervasive										
		Trace PY disseminated										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Moderate QC vein										
		Aphanitic to MGR dyke, coarsening towards center.										
		1-5cm Qz-Cb veins oriented 30-40 degrees. Trace VFGR										
		disseminated PY										
53.80	63.15	Siltstone	35698	57.10-58.60	1.50							
		, blackish-gray, bedded, contorted	35699	60.00-61.00	1.00							
		Frs=15/m :Vns =3/m	35700	61.00-62.00	1.00							
		Strong CB pervasive	35701	62.00-63.15	1.15							
		Trace CO coatings										
		Weak PY stringers										
		Weak PR stringers										
		Moderate QC vein										
		Slst with interbedded FGR sst, moderatly convoluted,										
		bedding 0-75 degrees, Qz-Cb veins 0.1-3cm often with										
		patchy CHL.										
<57.10-58.60>		DIORITE										
		Aphanitic, gray										
		Frs=25/m										
		Intense CB pervasive										
		Moderate MS pervasive										
		Trace PY disseminated										
		Zone of several small (10-30cm) dykes, contacts wispy,										
		gradational, convoluted.										
<63.15-68.30>		, grayish-green, crystalline, veined	35702	63.15-64.45	1.30							
		cleavage, foliation 55°	35931	67.00-67.80	0.80							
		Frs=10/m :Vns =5/m	35932	67.80-68.20	0.40							
		Weak CL pervasive										
		Moderate CB pervasive										
		Moderate MS pervasive										
		Strong QC vein										
		Dyke with 1-5cm barren Qz-Cb veins, FGR interspersed										
		with CGR sections indicating multiple phases of										
		intrusion, CGR sections hbl-phyric, weakly fol'd,										
		Qz-Cb veins generally parallel to fol'n.										
68.30	85.65	Siltstone	35703	70.00-71.00	1.00							
		, blackish-gray, massive, bedded	35704	71.70-72.70	1.00							
		bedding 70°	35705	77.00-78.00	1.00							
		Frs=12/m :Vns =3/m	35706	83.00-84.00	1.00							
		Weak CB pervasive	35707	84.00-85.00	1.00							
		Trace CO coatings										
		Weak PY stringers										
		Trace PR blebs										
		Moderate QC vein										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Slst with interbedded FGR sst, Qz-Cb veins 0.1-3cm generally sub-parallel to bedding, PY as small stringers in slst, small PR blebs diss through slst.										
<72.70-	73.20>	DIORITE , gray, massive Frs=5/m :Vns =1/m Moderate CB pervasive Moderate MS pervasive Trace PY disseminated Weak QC vein 50cm aphanitic to VFGR dyke, margins irregular.										
<77.35-	77.75>	cleavage, foliation 60°:dyke 60° Frs=2/m :Vns =2/m Strong CB pervasive Moderate MS pervasive Trace PY blebs Trace PR blebs Moderate QC vein Moderatly fol'd dyke.										
<85.65-	89.05>	Aphanitic, pale gray, massive dyke 70° Frs=10/m :Vns =4/m Trace CL pervasive Trace CB pervasive Strong MS pervasive Trace PY disseminated Moderate QC vein 2 dykes with interval of slst between. Dykes aphanitic with trace vfgr disseminated PY. Qz-Cb veining concentrated at dyke margins.	35708 35933	85.00-86.00 88.00-89.00	1.00 1.00							
<86.85-	87.80>	Siltstone , blackish-gray, laminated, contorted Frs=10/m Strong CB stringers Weak PY stringers Weak PR blebs Slst with CB+PY stringers, laminations commonly disrupted, blebby PR along laminations.										
<89.05-	98.80>	, blackish-gray, massive, bedded bedding 70° Frs=15/m :Vns =2/m	35709 35710 35711	89.05-90.00 90.00-91.00 92.65-93.65	0.95 1.00 1.00							

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		Weak CB pervasive	35712	97.80-98.80	1.00							
		Weak PY stringers										
		Trace PR blebs										
		Moderate QC vein										
		Slst with interbedded FGR sst, bedding consistently 60-70 degrees, Qz-Cb veining 1-10cm concentrated in interval from 92.80 to 93.40m. PY dominantly as fine (<1mm) stringers in slst, PR as small blebs disseminated in slst.										
98.80	99.75	DIORITE	35713	98.80-99.75	0.95							
		, grayish-green, massive										
		Frs=10/m :Vns =5/m										
		Moderate CL pervasive										
		Strong MS pervasive										
		Trace PY disseminated										
		Strong QC vein										
		Massive aphanitic dyke, 10% Qz+Cb+Chl veining. Rare FGR PY in veins.										
99.75	128.30	Siltstone	35714	99.75-100.80	1.05							
		, blackish-gray, bedded	35715	102.00-103.00	1.00							
		bedding 80°:cleavage, foliation 85°	35716	106.00-107.00	1.00							
		Frs=15/m :Vns =4/m	35717	111.00-112.00	1.00							
		Moderate CB pervasive	35718	113.00-114.00	1.00							
		Trace CO coatings	35719	118.00-119.28	1.28							
		Weak PY stringers	35720	121.00-122.00	1.00							
		Trace PR stringers	35721	127.30-128.30	1.00							
		Moderate QC vein										
		Slst interbedded with FGR sst, common small (to 1cm) slst rip-ups in sst. Pervasive Cb alteration more intense in sst intervals. Most Qz-Cb veins sub parallel to bedding, some x-cutting. Bedding consistently 75-85 degrees.										
<100.80-101.70>		DIORITE										
		, grayish-green, massive										
		Frs=10/m :Vns =5/m										
		Moderate CL pervasive										
		Strong MS pervasive										
		Trace PY disseminated										
		Strong QC vein										
		Zone with 3 small (10-20cm) dykes. As dyke above at 98.80-99.75m										
<122.00-122.25>		Aphanitic, grayish-green, foliated										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
		bedding 70° Frs=10/m :Vns =1/m Weak CB pervasive Trace PY blebs Trace PR blebs Weak QC vein Sst interbedded with slst, sst massive with rare small slst rip-ups. Blebby PY-PR assoc'd with Qz-Cb veins.										
146.50	149.65	DIORITE , grayish-green, massive, veined qz-carb veining 30° Frs=5/m :Vns =5/m Trace CL pervasive Weak CB pervasive Strong MS pervasive Trace PR blebs Strong QC vein Aphanitic to VFGR dyke, Qz-Cb-CHL veins 0.5-15cm, most smaller veins planar and consistently oriented approx 30 degrees.	35727	148.25-149.65	1.40							
149.65	160.00	Siltstone , blackish-gray, bedded, laminated bedding 75° Frs=25/m :Vns =3/m Weak CB pervasive Trace CO coatings Weak PY blebs Trace PR blebs Weak QV vein Moderate CV vein Slst with approx 30% interbedded FGR sst, Cb stringers generally approx bedding-parallel, PY+PR as blebby replacements along laminations in slst also as fine stringers.	35728 35729 35730 35731 35732 35733 35734	149.65-150.65 152.00-153.00 158.00-159.00 159.00-160.00 160.00-161.00 164.00-165.00 166.00-167.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00							
<157.00-160.00>		, blackish-white, broken, Brecciated Frs=100/m :Vns =5/m Trace CB pervasive Weak CO coatings Weak PY microveins Moderate CV vein Weak QC vein Very broken section, common calcite vein material containing Bx'd slst clasts, PY as small veinlets.										

FROM	TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
167.25	183.50	SANDSTONE	35735	170.00-171.00	1.00							
		, gray, massive, bedded	35736	177.00-178.00	1.00							
		bedding 70°	35737	180.00-181.00	1.00							
		Frs=10/m :Vns =1/m										
		Weak CB pervasive										
		Trace PY blebs										
		Trace PR blebs										
		Weak CV vein										
		Weak QC vein										
		Massive FGR sst with approx 10% interbedded slst,										
		PY+PR concentrated in slst as blebs along laminations.										
		Bedding consistently 70-75 degrees.										
183.50	191.90	DIORITE	35738	184.45-185.70	1.25							
		, grayish-green, massive, veined	35739	187.25-188.55	1.30							
		qz-carb veining 45°	35740	189.00-190.00	1.00							
		Frs=8/m :Vns =4/m	35741	190.00-191.00	1.00							
		Trace CL pervasive										
		Trace CB pervasive										
		Strong MS pervasive										
		Trace PY blebs										
		Strong QC vein										
		Aphanitic to VFGR dyke with 15% 1-25cm Qz+-Cb+-SER										
		veins, trace PY disseminated in diorite. One small										
		bleb CP seen in Qz.										
191.90	197.86	Siltstone	35742	191.90-193.00	1.10							
		, blackish-gray, bedded	35743	194.00-195.00	1.00							
		bedding 80°:cleavage, foliation 70°	35744	196.86-197.86	1.00							
		Frs=30/m :Vns =5/m										
		Moderate CB pervasive										
		Weak CO coatings										
		Weak PY stringers										
		Trace PR stringers										
		Weak QC vein										
		Slst with minor interbedded FGR sst, minor Qz-Cb										
		veinlets, PY+PR as blebs in veinlets and as fine										
		stringers in slst.										
(eoh)												

12/16/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — AG96-13

PROJECT: AMPLE	Date Commenced: MAY 14	Contractor: HY-TECH	Logged by: KP
DRILL HOLE: AG96-13	Date Completed: MAY 15		Geotech by: CK
LENGTH: 21.00	Core Diam: BQTK		

Collar Location

Latitude: 5610945.50
Departure: 569059.00
Elevation: 860.00

S U M M A R Y

0.00-20.00	CASING
20.00-21.00	OVERBURDEN

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	55.00	-13.00	BRUNTON

HOLE: AG96-13

HOMESTAKE MINING COMPANY - AMPLE

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au ppb	AuFA g/	AUmet g	Ag ppm	As ppm	Cu ppm	Pb ppm
0.00	20.00	CASING		0.00-0.00	0.00							
20.00	21.00	OVERBURDEN Casing to 60', drill ahead to 69'; unable to continue through overburden.										
(eoh)												

12/16/96

APPENDIX 2

ASSAY RESULTS

Eco-Tech
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10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (604) 573-5700
Fax (604) 573-4557

3-May-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax: 604-573-4557

HOMESTAKE CANADA INC. AK 96-265
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

ATTENTION: R.BRITTEN/ D. KURAN

No. of samples: 94
Sample type: Core
PROJECT #: 90750
SHIPMENT #: AG 96-01
Samples submitted by: Keith Patterson

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	As	Cu	Pb	Zn
1	35001	695	<.2	2765	179	<2	117
2	35002	360	<.2	1270	126	<2	70
3	35003	5	<.2	260	121	<2	88
4	35004	5	<.2	110	153	<2	101
5	35005	50	<.2	250	170	<2	119
6	35006	215	<.2	1780	161	<2	89
7	35007	5	<.2	325	138	<2	82
8	35008	5	<.2	240	136	<2	73
9	35009	5	0.4	225	256	<2	237
10	35010	30	<.2	300	216	<2	95
11	35011	25	<.2	240	111	<2	103
12	35012	5	<.2	350	65	<2	75
13	35013	15	0.2	175	69	<2	61
14	35014	5	<.2	55	79	<2	73
15	35015	5	<.2	<5	26	<2	37
16	35016	5	0.4	<5	55	<2	67
17	35017	5	<.2	205	55	<2	51
18	35018	5	<.2	140	46	<2	50
19	35019	5	<.2	165	53	<2	59
20	35020	5	<.2	45	49	<2	68
21	35021	5	<.2	55	60	<2	67
22	35022	5	<.2	205	102	<2	49
23	35023	5	<.2	85	152	40	88
24	35024	5	<.2	150	148	<2	85
25	35025	5	<.2	<5	64	4	30

Et #.	Tag #	Au(ppb)	Ag	As	Cu	Pb	Zn
26	35026	5	<.2	<5	74	6	43
27	35027	5	0.4	60	133	4	132
28	35028	5	<.2	65	79	<2	152
29	35029	5	<.2	<5	48	2	70
30	35030	5	<.2	15	46	2	58
31	35031	5	0.2	40	74	<2	121
32	35032	5	<.2	15	53	<2	150
33	35033	5	<.2	25	88	<2	85
34	35034	5	<.2	<5	55	<2	79
35	35035	15	<.2	10	53	<2	83
36	35036	75	<.2	55	60	<2	71
37	35037	410	<.2	95	91	<2	92
38	35038	5	<.2	25	70	<2	89
39	35039	20	<.2	150	35	<2	75
40	35040	15	<.2	<5	89	<2	96
41	35041	5	<.2	20	71	<2	76
42	35042	20	0.4	10	54	<2	65
43	35043	10	<.2	<5	56	<2	105
44	35044	5	<.2	<5	43	6	90
45	35045	5	<.2	<5	69	8	89
46	35046	5	0.4	5	65	6	92
47	35047	5	0.2	10	85	8	116
48	35048	10	0.4	45	62	6	115
49	35049	5	0.2	15	45	8	99
50	35050	5	0.2	10	51	8	92
51	35051	10	0.4	<5	77	8	113
52	35052	5	0.6	80	93	8	118
53	35053	10	0.6	225	120	12	127
54	35054	10	0.4	<5	102	8	123
55	35055	5	0.8	<5	112	8	124
56	35056	5	0.6	<5	111	12	119
57	35057	5	0.4	15	73	12	105
58	35058	5	0.8	45	71	8	109
59	35059	5	0.2	40	65	4	144
60	35060	90	0.4	45	71	6	151
61	35061	5	<.2	145	17	<2	73
62	35062	5	<.2	220	30	<2	59
63	35063	10	0.4	155	74	8	143
64	35064	70	0.4	30	85	24	241
65	35065	90	0.4	10	68	24	135
66	35066	5	0.4	35	67	8	183
67	35067	230	0.4	60	58	12	118
68	35068	715	0.4	60	69	2	82
69	35069	110	<.2	460	30	<2	69
70	35070	440	<.2	405	63	6	100
71	35071	605	0.4	290	89	10	118
72	35072	775	0.4	1130	59	8	88
73	35073	>1000	0.6	185	80	18	120

Et #.	Tag #	Au(ppb)	Ag	As	Cu	Pb	Zn
74	35074	505	<.2	140	61	8	104
75	35075	345	0.4	115	91	14	141
76	35076	740	0.4	180	110	16	166
77	35077	145	<.2	55	47	6	90
78	35078	635	0.4	1310	61	6	111
79	35079	925	0.4	525	52	8	83
80	35080	25	<.2	10	37	6	111
81	35081	30	<.2	<5	26	6	121
82	35082	5	<.2	15	45	10	121
83	35083	5	<.2	5	42	8	140
84	35084	5	0.2	<5	47	10	91
85	35085	5	<.2	<5	40	16	140
86	35086	5	0.2	<5	55	14	160
87	35087	5	0.2	30	45	12	122
88	35901	5	<.2	25	111	8	97
89	35902	5	<.2	275	126	<2	84
90	35903	5	<.2	245	37	8	78
91	35904	5	<.2	70	43	6	87
92	35905	5	<.2	95	28	10	162
93	35906	5	<.2	110	63	10	94
94	35907	5	<.2	160	23	8	71
QC/DATA:							
Resplit:							
R/S 2	35002	380	<.2	1245	122	<2	70
R/S 36	35036	50	<.2	55	56	<2	73
R/S 71	35071	720	0.4	320	95	12	120
Repeat:							
1	35001	660	<.2	2775	180	<2	117
10	35010	25	<.2	295	213	<2	95
19	35019	5	<.2	175	52	<2	59
36	35036	60	<.2	55	59	<2	72
45	35045	5	0.2	<5	71	8	91
54	35054	5	0.6	5	101	10	122
71	35071	685	0.4	290	89	10	122
80	35080	30	<.2	<5	35	10	111
Standard:							
GEO'96		150	1.2	60	85	18	74
GEO'96		150	1.4	85	83	20	77
GEO'96		145	1.4	90	85	22	72
GEO'96		150	-	-	-	-	-

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

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10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-265

HOMESTAKE CANADA INC.
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

30-Apr-96

ATTENTION: R.BRITTEN/ D.KURAN

No. of samples: 94
Sample type: Core
PROJECT #: 90750
SHIPMENT #: AG 96-01
Samples submitted by: Keith Patterson

ET #.	Tag #	Au (g/t)	Au (oz/t)
73	35073	1.48	0.043

QC/DATA:
Standard:

STD-M	3.20	0.093

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

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Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-282

HOMESTAKE CANADA INC.
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

6-May-96

ATTENTION: R.BRITTEN/ D. KURAN

No. of samples: 113
Sample type: Core
PROJECT #: 90750
SHIPMENT #: AG 96-02 / 03
Samples submitted by: Keith Patterson

ET #.	Tag #	Au (g/t)	Au (oz/t)
32	35119	1.11	0.032
58	35145	1.38	0.040

QC/DATA:
Standard:

STD-M	3.20	0.093

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/96Homestake#2

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6-May-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
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Phone: 604-573-5700
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HOMESTAKE CANADA INC. AK 96-282
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

ATTENTION: R.BRITTEN/ D. KURAN

No. of samples: 113
Sample type: Core
PROJECT #: 90750
SHIPMENT #: AG 96-02 / 03
Samples submitted by: Keith Patterson

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	As	Cu	Pb	Zn
1	35088	5	<.2	45	113	.4	60
2	35089	5	<.2	50	240	<2	122
3	35090	5	<.2	145	207	<2	128
4	35091	205	<.2	370	101	<2	73
5	35092	330	<.2	575	213	<2	122
6	35093	670	<.2	295	143	<2	98
7	35094	415	<.2	165	156	<2	105
8	35095	10	<.2	45	238	<2	132
9	35096	5	<.2	10	295	<2	133
10	35097	5	<.2	85	221	<2	82
11	35098	20	<.2	325	220	<2	91
12	35099	35	<.2	135	111	<2	88
13	35100	5	<.2	5	46	<2	62
14	35101	5	<.2	<5	74	<2	111
15	35102	5	<.2	<5	82	<2	118
16	35103	5	<.2	<5	73	<2	110
17	35104	5	<.2	15	91	<2	106
18	35105	5	<.2	<5	74	<2	104
19	35106	5	<.2	<5	85	<2	113
20	35107	5	<.2	<5	75	<2	110

Et #.	Tag #	Au(ppb)	Ag	As	Cu	Pb	Zn
21	35108	5	<.2	<5	86	<2	118
22	35109	5	<.2	<5	43	<2	66
23	35110	5	<.2	5	43	<2	68
24	35111	5	<.2	15	67	<2	69
25	35112	5	<.2	20	23	<2	64
26	35113	5	<.2	45	33	<2	88
27	35114	5	<.2	90	71	<2	58
28	35115	5	<.2	90	150	<2	97
29	35116	5	<.2	375	57	<2	55
30	35117	5	<.2	30	74	<2	89
31	35118	105	<.2	30	77	<2	103
32	35119	>1000	<.2	110	101	<2	110
33	35120	930	<.2	2470	70	<2	81
34	35121	5	<.2	30	74	<2	82
35	35122	5	<.2	20	38	<2	81
36	35123	165	<.2	<5	66	<2	85
37	35124	10	<.2	<5	64	<2	56
38	35125	5	<.2	<5	67	<2	98
39	35126	5	<.2	<5	67	<2	96
40	35127	5	<.2	10	64	<2	95
41	35128	5	<.2	<5	39	<2	53
42	35129	5	<.2	200	68	<2	67
43	35130	270	<.2	765	49	2	95
44	35131	5	<.2	195	30	<2	51
45	35132	5	<.2	35	27	2	110
46	35133	5	<.2	15	164	<2	102
47	35134	5	<.2	10	83	4	101
48	35135	5	<.2	<5	47	8	133
49	35136	5	<.2	180	34	<2	60
50	35137	5	<.2	<5	58	6	134
51	35138	5	<.2	<5	7	2	87
52	35139	5	<.2	<5	51	8	147
53	35140	5	<.2	<5	28	<2	117
54	35141	5	<.2	<5	36	4	116
55	35142	230	<.2	<5	28	2	124
56	35143	5	<.2	<5	42	4	110
57	35144	5	<.2	10	53	10	135
58	35145	>1000	<.2	490	55	6	107
59	35146	60	<.2	90	88	58	388
60	35147	10	<.2	70	60	6	89

Et #.	Tag #	Au(ppb)	Ag	As	Cu	Pb	Zn
61	35148	35	<.2	70	60	16	215
62	35149	90	<.2	135	54	16	160
63	35150	5	<.2	30	32	4	91
64	35151	5	<.2	125	98	6	75
65	35152	5	<.2	5	42	8	129
66	35153	5	<.2	20	25	4	89
67	35154	5	<.2	<5	46	8	76
68	35155	5	<.2	30	45	<2	27
69	35156	400	<.2	355	73	<2	62
70	35157	290	<.2	340	107	<2	68
71	35158	455	<.2	835	113	<2	105
72	35159	5	<.2	40	63	4	94
73	35160	5	<.2	<5	46	8	89
74	35161	5	<.2	20	36	<2	66
75	35162	5	<.2	<5	61	2	98
76	35163	5	<.2	20	65	4	91
77	35164	5	<.2	20	57	6	104
78	35165	5	<.2	10	60	10	128
79	35166	5	<.2	<5	77	4	132
80	35167	5	<.2	20	58	2	96
81	35168	5	<.2	140	43	<2	49
82	35169	5	<.2	170	73	<2	99
83	35170	215	<.2	1340	46	<2	74
84	35171	115	<.2	1710	5	<2	3
85	35172	20	<.2	820	6	<2	3
86	35173	160	<.2	280	54	<2	88
87	35174	100	<.2	600	49	<2	91
88	35175	5	<.2	50	56	<2	78
89	35176	5	<.2	15	19	<2	27
90	35177	5	<.2	10	76	4	94
91	35178	10	<.2	150	95	<2	84
92	35179	5	0.8	25	104	<2	98
93	35180	10	0.4	15	89	2	100
94	35181	35	<.2	30	77	4	84
95	35182	45	<.2	340	56	<2	72
96	35183	40	<.2	20	65	6	94
97	35184	5	<.2	5	67	4	118
98	35185	5	<.2	10	71	6	100
99	35186	5	<.2	15	69	2	84
100	35187	5	<.2	<5	84	6	93

Et #.	Tag #	Au(ppb)	Ag	As	Cu	Pb	Zn
101	35188	5	<.2	<5	56	10	129
102	35189	5	<.2	<5	56	10	123
103	35190	5	<.2	<5	53	8	110
104	35191	5	<.2	55	110	24	204
105	35192	5	<.2	<5	55	10	131
106	35193	15	<.2	<5	68	18	126
107	35194	430	<.2	10	56	12	104
108	35195	150	<.2	45	86	12	136
109	35908	5	<.2	110	68	12	82
110	35909	5	<.2	95	52	8	62
111	35910	5	<.2	55	40	12	70
112	35911	5	<.2	195	23	6	76
113	35912	5	<.2	70	90	14	53
QC/DATA:							
Resplit:							
R/S 1	35088	5	<.2	40	108	4	57
R/S 36	35123	180	<.2	10	63	4	94
R/S 71	35158	460	<.2	875	113	2	115
R/S106	35193	10	<.2	<5	64	16	146
Repeat:							
1	35088	5	<.2	40	113	2	58
10	35097	5	<.2	85	221	<2	81
19	35106	5	<.2	5	84	<2	111
36	35123	195	<.2	10	63	4	88
45	35132	5	<.2	35	27	4	115
54	35141	5	<.2	<5	36	4	122
71	35158	450	<.2	845	110	2	105
80	35167	5	<.2	10	58	4	96
89	35176	5	<.2	10	18	<2	27
106	35193	5	-	-	-	-	-
Standard:							
GEO'96		140	0.8	75	82	20	74
GEO'96		150	1.0	80	82	22	76
GEO'96		150	0.8	70	84	22	72
GEO'96		-	1.2	75	84	22	73

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Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-301

HOMESTAKE CANADA INC.
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

9-May-96

ATTENTION: R. Britten, D. Kuran

No. of samples: 89
Sample type: Core
PROJECT #: 90750
SHIPMENT #: AG96-04
Samples submitted by: Keith Patterson

ET #.	Tag #	Au (g/t)	Au (oz/t)
19	35214	5.72	0.167
22	35217	1.09	0.032
29	35224	1.02	0.030
36	35231	1.01	0.029
37	35232	1.66	0.048
43	35238	1.45	0.042
44	35239	1.03	0.030
61	35256	1.02	0.030
62	35257	4.51	0.132
76	35271	1.00	0.029
82	35277	1.29	0.038
83	35278	1.74	0.051
84	35279	1.03	0.030

QC/DATA:

Resplit:

R/S 36	35231	1.20	0.035

Standard:

STD-M		3.22	0.094

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10-May-96

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10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax: 604-573-4557

HOMESTAKE CANADA INC. AK 96-301
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

ATTENTION: R.BRITTEN/ D. KURAN

No. of samples: 89
Sample type: Core
PROJECT #: 90750
SHIPMENT #: AG96-04
Samples submitted by: Keith Patterson

Values in ppm unless otherwise reported

Et #.	Tag #	Au (ppb)	Ag	As	Cu	Pb	Zn
1	35196	10	0.2	<5	42	<2	147
2	35197	10	<.2	15	64	<2	81
3	35198	15	<.2	15	81	<2	101
4	35199	5	<.2	10	62	<2	94
5	35200	15	<.2	100	73	<2	95
6	35201	5	<.2	75	66	<2	68
7	35202	55	<.2	15	46	<2	56
8	35203	35	<.2	30	51	<2	60
9	35204	35	<.2	25	70	<2	70
10	35205	230	<.2	<5	65	<2	87
11	35206	65	<.2	20	40	<2	50
12	35207	115	<.2	15	88	<2	132
13	35208	70	<.2	45	44	<2	65
14	35209	235	<.2	1105	63	<2	78
15	35210	945	<.2	180	62	4	79
16	35211	720	0.4	230	83	8	89
17	35212	490	0.6	110	78	10	108
18	35213	190	0.4	70	77	10	83
19	35214	>1000	1.0	65	54	16	469
20	35215	725	0.2	70	98	<2	88
21	35216	225	<.2	720	65	4	91
22	35217	>1000	<.2	90	44	4	71
23	35218	140	0.2	40	35	6	54
24	35219	90	<.2	15	24	2	42
25	35220	770	<.2	1205	74	<2	100

Et #.	Tag #	Au (ppb)	Ag	As	Cu	Pb	Zn
26	35221	565	<.2	3520	65	<2	134
27	35222	365	<.2	2235	101	<2	111
28	35223	925	<.2	>10000	69	<2	86
29	35224	>1000	<.2	2170	54	<2	85
30	35225	315	0.4	3450	65	<2	99
31	35226	75	<.2	370	42	<2	67
32	35227	115	<.2	1000	60	<2	68
33	35228	95	<.2	475	77	<2	104
34	35229	305	0.2	4220	70	<2	108
35	35230	235	<.2	185	68	<2	93
36	35231	>1000	<.2	715	66	<2	71
37	35232	>1000	<.2	4435	50	<2	88
38	35233	880	<.2	6365	61	<2	85
39	35234	220	<.2	760	26	<2	53
40	35235	595	0.4	3705	67	8	96
41	35236	720	1.6	45	77	28	142
42	35237	300	0.6	665	76	8	123
43	35238	>1000	0.4	45	79	20	116
44	35239	>1000	0.2	1070	59	2	79
45	35240	15	0.4	95	81	6	93
46	35241	10	<.2	75	50	4	107
47	35242	5	<.2	25	50	<2	120
48	35243	5	0.4	<5	77	4	137
49	35244	5	0.6	<5	74	4	136
50	35245	5	<.2	5	78	<2	97
51	35246	5	<.2	35	29	<2	40
52	35247	5	<.2	75	75	<2	88
53	35248	5	<.2	110	76	<2	73
54	35249	5	<.2	10	71	<2	111
55	35250	200	0.4	1095	75	<2	109
56	35251	210	<.2	1020	66	<2	107
57	35252	110	<.2	205	62	<2	94
58	35253	30	0.2	160	82	<2	102
59	35254	20	<.2	40	75	<2	126
60	35255	180	<.2	970	79	<2	119
61	35256	>1000	0.2	6575	62	<2	119
62	35257	>1000	0.8	6920	94	<2	125
63	35258	275	<.2	1020	57	<2	70
64	35259	255	0.4	2400	67	<2	66
65	35260	5	0.4	5	95	<2	85
66	35261	5	<.2	20	34	<2	56
67	35262	5	0.4	15	65	<2	76
68	35263	5	0.6	15	83	<2	93
69	35264	5	0.4	15	78	4	98
70	35265	5	<.2	15	63	<2	102
71	35266	5	<.2	30	56	<2	99
72	35267	5	<.2	25	72	<2	122

HOMESTAKE CANADA INC. AK 96-301 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au (ppb)	Ag	As	Cu	Pb	Zn
73	35268	5	<.2	15	50	<2	96
74	35269	5	<.2	10	54	8	93
75	35270	5	<.2	155	115	<2	70
76	35271	>1000	0.6	340	79	<2	96
77	35272	255	0.4	60	32	176	100
78	35273	150	0.4	25	91	38	154
79	35274	5	0.2	275	86	12	113
80	35275	100	0.6	195	84	14	122
81	35276	90	0.6	25	86	16	117
82	35277	>1000	0.8	2080	100	6	163
83	35278	>1000	1.0	2100	102	8	163
84	35279	>1000	0.4	3050	41	4	74
85	35280	260	<.2	60	34	2	127
86	35281	5	<.2	10	34	10	138
87	35913	115	<.2	145	32	<2	77
88	35914	5	<.2	75	39	2	90
89	35915	5	<.2	310	61	<2	104
QC/DATA:							
Resplit:							
R/S 1	35196	10	<.2	<5	39	<2	127
R/S 36	35231	>1000	0.2	815	60	2	78
R/S 71	35266	5	<.2	35	60	4	104
Repeat:							
1	35196	10	<.2	<5	35	<2	116
10	35205	205	<.2	<5	67	<2	88
19	35214	>1000	1.2	70	53	16	486
36	35231	>1000	0.4	735	65	<2	73
45	35240	20	0.2	100	81	4	91
54	35249	5	<.2	15	71	<2	109
71	35266	5	<.2	25	56	<2	100
80	35275	120	0.6	200	87	12	122
Standard:							
GEO'96		150	1.4	65	82	20	80
GEO'96		145	1.2	70	81	22	84
GEO'96		150	1.2	70	80	20	82

df/301
XLS/96Homestake#2

per ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

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CERTIFICATE OF ASSAY AK 96-315

HOMESTAKE CANADA INC.
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

14-May-96

ATTENTION: R. Britten, D. Kuran

No. of samples: 59
Sample type: Core
PROJECT #: 90750
SHIPMENT #: AG96-05
Samples submitted by: Keith Patterson

ET #.	Tag #	Au (g/t)	Au (oz/t)
1	35282	1.97	0.057
3	35284	1.87	0.055
4	35285	1.37	0.040
25	35306	1.20	0.035
28	35309	6.21	0.181
29	35310	4.56	0.133
30	35311	3.93	0.115
36	35317	1.08	0.031
39	35320	1.34	0.039

QC/DATA:

Resplit:

R/S 1	35282	1.57	0.046
R/S 36	35317	1.16	0.034

Standard:

STD-M	3.31	0.097
STD-M	3.28	0.096

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14-May-96

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V2C 6T4

Phone: 604-573-5700
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HOMESTAKE CANADA INC. AK 96-315
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

ATTENTION: R.BRITTEN/ D. KURAN

No. of samples: 59
Sample type: Core
PROJECT #: 90750
SHIPMENT #: AG96-05
Samples submitted by: Keith Patterson

Values in ppm unless otherwise reported

Et #.	Tag #	Au (ppb)	Ag	As	Cu	Pb	Zn
1	35282	>1000	0.4	280	19	88	26
2	35283	55	0.4	90	6	2	10
3	35284	>1000	0.4	455	36	<2	94
4	35285	>1000	0.2	205	36	<2	96
5	35286	95	<.2	40	22	<2	103
6	35287	295	0.2	655	26	<2	83
7	35288	250	<.2	1065	31	<2	84
8	35289	895	0.4	1870	36	<2	86
9	35290	30	0.2	35	54	2	118
10	35291	205	<.2	15	43	<2	72
11	35292	525	0.2	790	56	<2	85
12	35293	500	<.2	1600	39	<2	69
13	35294	60	0.2	30	59	<2	90
14	35295	30	0.2	35	61	2	89
15	35296	135	<.2	25	34	<2	84
16	35297	400	<.2	35	28	<2	66
17	35298	500	0.2	235	53	<2	54
18	35299	440	0.4	110	62	<2	89
19	35300	105	0.8	10	73	4	141
20	35301	260	0.2	25	84	<2	146
21	35302	410	0.2	35	80	<2	121
22	35303	185	<.2	20	76	<2	102
23	35304	265	0.2	20	74	<2	120
24	35305	60	0.2	85	86	2	120
25	35306	>1000	0.4	5860	91	<2	103

Et #.	Tag #	Au (ppb)	Ag	As	Cu	Pb	Zn
26	35307	350	1.4	1550	30	<2	75
27	35308	495	0.4	1960	16	<2	56
28	35309	>1000	0.6	5280	58	<2	84
29	35310	>1000	0.6	2915	50	<2	81
30	35311	>1000	0.4	3855	48	<2	83
31	35312	765	<.2	1260	62	<2	79
32	35313	85	<.2	50	43	<2	61
33	35314	50	0.4	25	29	<2	48
34	35315	55	<.2	20	35	<2	61
35	35316	550	0.4	1535	37	<2	60
36	35317	>1000	<.2	1030	61	<2	45
37	35318	180	<.2	20	68	<2	70
38	35319	45	<.2	25	50	<2	80
39	35320	>1000	0.4	805	57	<2	41
40	35321	250	<.2	95	57	<2	77
41	35322	345	<.2	65	58	<2	79
42	35323	370	<.2	475	66	<2	91
43	35324	120	<.2	30	44	4	134
44	35325	10	0.4	<5	36	<2	108
45	35326	405	0.6	295	58	<2	91
46	35327	230	0.2	525	51	<2	62
47	35328	110	0.6	30	39	<2	63
48	35329	5	0.4	40	30	<2	44
49	35330	5	<.2	<5	84	<2	97
50	35331	5	<.2	20	58	<2	99
51	35332	5	<.2	15	67	<2	70
52	35333	5	<.2	<5	92	<2	94
53	35334	5	<.2	10	64	<2	88
54	35335	5	<.2	25	68	<2	135
55	35336	5	<.2	<5	68	<2	108
56	35337	5	<.2	15	<1	<2	23
57	35338	5	<.2	<5	92	<2	128
58	35339	20	<.2	<5	146	<2	97

HOMESTAKE CANADA INC. AK 96-315 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au (ppb)	Ag	As	Cu	Pb	Zn
QC/DATA:							
Resplit:							
R/S 1	35282	>1000	0.4	265	19	74	24
R/S 36	35317	>1000	0.4	1055	63	<2	48
Repeat:							
1	35282	>1000	0.6	280	18	90	26
10	35291	210	<.2	10	42	<2	75
19	35300	115	0.4	25	70	<2	127
36	35317	>1000	0.4	1020	58	<2	46
45	35326	390	0.4	290	57	<2	91
54	35335	5	-	-	-	-	-
Standard:							
GEO'96		155	1.2	80	82	18	79
GEO'96		140	1.2	70	80	20	80

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

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CERTIFICATE OF ASSAY AK 96-320

HOMESTAKE CANADA INC.
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

15-May-96

ATTENTION: R. BRITTEN/D. KURAN

No. of samples: 91
Sample type: Core
PROJECT #: 90750
SHIPMENT #: AG96-06
Samples submitted by: Keith Patterson

ET #.	Tag #	Au (g/t)	Au (oz/t)
16	35355	1.34	0.039

QC/DATA:
Standard:
STD-M 3.28 0.096

ECO-TECH LABORATORIES LTD.
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16-May-96

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Fax: 604-573-4557

HOMESTAKE CANADA INC. AK 96-320
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

ATTENTION: R.BRITTEN/ D. KURAN

No. of samples: 91
Sample type: Core
PROJECT #: 90750
SHIPMENT #: AG96-06
Samples submitted by: Keith Patterson

Values in ppm unless otherwise reported

Et #.	Tag #	Au (ppb)	Ag	As	Cu	Pb	Zn
1	35340	10	<.2	<5	51	<2	126
2	35341	20	<.2	<5	57	<2	81
3	35342	15	<.2	5	56	<2	101
4	35343	15	<.2	25	73	<2	87
5	35344	5	0.2	30	110	<2	68
6	35345	5	<.2	45	63	<2	57
7	35346	65	0.2	30	77	<2	69
8	35347	55	0.4	15	102	2	66
9	35348	45	<.2	30	50	<2	48
10	35349	15	0.2	<5	85	<2	112
11	35350	45	<.2	<5	54	4	116
12	35351	25	<.2	<5	62	4	103
13	35352	15	0.4	<5	81	6	112
14	35353	15	0.6	<5	72	4	117
15	35354	15	0.4	<5	80	4	123
16	35355	>1000	0.4	3890	57	<2	86
17	35356	655	0.4	1615	75	2	101
18	35357	125	0.4	65	45	2	81
19	35358	365	0.2	320	63	<2	67
20	35359	5	0.4	90	54	<2	81

per Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

HOMESTAKE CANADA INC. AK 96-320 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au (ppb)	Ag	As	Cu	Pb	Zn
21	35360	10	0.4	15	70	<2	59
22	35361	255	0.4	10	62	<2	80
23	35362	50	0.2	40	59	4	108
24	35363	15	0.2	<5	82	12	112
25	35364	25	<.2	<5	71	12	134
26	35365	20	0.2	<5	60	10	127
27	35366	10	<.2	115	49	6	103
28	35367	10	<.2	<5	59	14	144
29	35368	15	<.2	<5	70	10	127
30	35369	15	<.2	<5	58	14	135
31	35370	10	0.2	<5	50	12	129
32	35371	15	0.2	<5	80	20	174
33	35372	10	<.2	<5	92	14	145
34	35373	5	<.2	35	90	20	139
35	35374	10	<.2	<5	103	20	153
36	35375	20	<.2	20	66	18	150
37	35376	30	0.2	<5	72	24	160
38	35377	20	<.2	<5	12	14	105
39	35378	15	<.2	<5	59	16	159
40	35379	20	<.2	<5	62	18	150
41	35380	20	0.4	10	60	24	134
42	35381	15	0.2	<5	46	16	96
43	35382	10	<.2	35	177	24	136
44	35383	15	0.4	215	153	14	107
45	35384	10	0.6	305	61	46	133
46	35385	5	0.2	<5	39	24	149
47	35386	15	0.2	<5	78	26	196
48	35387	15	0.6	<5	85	36	219
49	35388	10	0.4	<5	87	28	183
50	35389	310	0.4	850	63	22	186
51	35390	325	0.6	350	46	22	167
52	35391	635	0.4	3675	65	26	183
53	35392	260	<.2	385	28	20	126
54	35393	65	<.2	20	31	22	118
55	35394	275	0.2	775	30	22	139
56	35395	340	0.4	1515	41	18	106
57	35396	320	0.2	500	54	30	213
58	35397	100	0.4	10	55	14	129
59	35398	30	0.4	25	70	24	153
60	35399	70	0.4	35	78	24	149

per Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

Et #.	Tag #	Au (ppb)	Ag	As	Cu	Pb	Zn
61	35400	225	2.2	60	96	44	190
62	35401	570	1.0	1380	32	38	100
63	35402	5	<.2	280	47	28	107
64	35403	90	<.2	5	35	30	134
65	35404	10	<.2	15	23	32	147
66	35405	15	<.2	20	34	32	154
67	35406	10	<.2	<5	30	30	156
68	35407	5	<.2	5	25	26	149
69	35408	5	<.2	<5	20	32	132
70	35409	5	<.2	<5	36	34	159
71	35410	15	<.2	<5	56	4	102
72	35411	5	<.2	60	28	<2	55
73	35412	5	<.2	65	64	<2	51
74	35413	5	<.2	10	34	<2	133
75	35414	5	0.4	<5	56	6	161
76	35415	5	0.2	50	48	2	115
77	35416	5	0.2	20	46	6	114
78	35417	10	<.2	<5	31	4	97
79	35418	25	0.2	<5	37	<2	99
80	35419	5	<.2	<5	20	6	89
81	35420	600	<.2	15	21	2	84
82	35421	15	<.2	25	36	8	109
83	35422	15	<.2	<5	57	10	123
84	35423	5	<.2	20	25	6	90
85	35424	10	0.2	10	30	8	101
86	35425	55	<.2	25	26	6	90
87	35426	5	<.2	<5	27	8	103
88	35427	10	<.2	10	41	8	102
89	35917	5	<.2	140	36	<2	75
90	35918	5	<.2	115	65	<2	57
91	35919	5	<.2	115	40	8	66

per Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

Et #.	Tag #	Au (ppb)	Ag	As	Cu	Pb	Zn
QC/DATA:							
Resplit:							
R/S 1	35340	5	<.2	<5	42	4	136
R/S 36	35375	15	0.2	5	67	28	171
R/S 71	35410	10	<.2	<5	56	6	108
Repeat:							
1	35340	10	<.2	<5	48	<2	109
10	35349	20	0.4	<5	89	4	120
19	35358	375	0.4	340	64	<2	69
36	35375	20	<.2	15	66	22	161
45	35384	10	0.6	335	63	46	137
54	35393	80	<.2	25	31	24	123
71	35410	10	0.2	<5	56	6	104
80	35419	5	<.2	<5	20	6	92
Standard:							
GEO'96		140	1.2	70	82	22	72
GEO'96		150	1.2	72	84	20	72
GEO'96		150	1.4	80	82	24	80
GEO'96		150	-	-	-	-	-

df/320/320A/320B
XLS/96Homestake#2

per ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

Eco-Tech
LABORATORIES LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-338

HOMESTAKE CANADA INC.
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

29-May-96

ATTENTION: R. BRITTEN/D. KURAN

No. of samples: 167
Sample type: Core
PROJECT #: 90750
SHIPMENT #: AG 96-07, 08
Samples submitted by: Keith Patterson

		METALLIC GOLD SCREEN ASSAY				
ET #.	Tag #	Au (g/t)	Au (oz/t)	Au (g/t)	Au (oz/t)	As (%)
1	35428	1.17	0.034	-	-	-
7	35434	7.58	0.221	9.91	0.289	-
10	35437	1.23	0.036	-	-	-
11	35438	1.02	0.030	-	-	-
12	35439	74.88	2.184	66.34	1.935	-
13	35440	1.89	0.055	1.89	0.055	-
14	35441	4.23	0.123	-	-	-
15	35442	1.69	0.049	-	-	-
16	35443	1.28	0.037	-	-	-
17	35444	5.43	0.158	5.61	0.164	-
22	35449	1.43	0.042	-	-	-
65	35492	2.74	0.080	-	-	-
66	35493	2.32	0.068	-	-	-
67	35494	2.66	0.078	-	-	-
79	35506	5.26	0.153	5.84	0.170	1.58
80	35507	3.42	0.100	-	-	1.20
81	35508	3.57	0.104	-	-	-
82	35509	1.86	0.054	-	-	-
83	35510	1.96	0.057	-	-	-
84	35511	1.87	0.055	-	-	-
118	35545	2.10	0.061	-	-	-
119	35546	1.04	0.030	-	-	-
120	35547	1.10	0.032	-	-	-
123	35550	7.26	0.212	10.57	0.308	-

Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer

METALLIC GOLD SCREEN ASSAY

ET #.	Tag #	Au (g/t)	Au (oz/t)	Au (g/t)	Au (oz/t)	As (%)
125	35552	4.69	0.137	-	-	-
126	35553	4.75	0.139	-	-	-
127	35554	5.58	0.163	6.15	0.179	-
128	35555	2.58	0.075	-	-	-
129	35556	1.20	0.035	-	-	-
132	35559	1.95	0.057	-	-	-
133	35560	1.23	0.036	-	-	-
134	35561	5.45	0.159	5.83	0.170	-
135	35562	2.34	0.068	-	-	-
QC/DATA:						
Resplit:						
R/S 1	35428	1.26	0.037	-	-	-
Standard:						
STD-M		3.22	0.094	-	-	-

ECO-TECH LABORATORIES LTD
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/96Homestake#2

Metallic Gold Screen Assay

E.T. No.338		Gold Values (g/t)		
		+140 mesh	- 140 mesh	total
338+12		3039.85	47.84	66.34
338-13		10.49	1.83	1.89

Metallic Gold Screen Assay

E.T. No.338		Gold Values (g/t)		
		+140 mesh	- 140 mesh	total
338+7		153.03	8.65	9.91
+17		19.50	5.46	5.61
+79		53.52	5.51	5.84
+123		105.82	9.81	10.57
+127		3.27	6.17	6.15
+134		3.80	5.85	5.83

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ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (604) 573-5700
Fax (604) 573-4557

31-May-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

HOMESTAKE CANADA INC. AK 96-338R
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

ATTENTION: R. BRITTEN/D. KURAN

No. of samples: 167
Sample type: Core
PROJECT #: 90750
SHIPMENT #: AG 96-07, 08
Samples submitted by: Keith Patterson

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	As	Cu	Pb	Zn
1	35428	>1000	0.4	1810	135	10	196
2	35429	205	0.4	915	170	8	106
3	35430	330	0.4	1005	218	2	81
4	35431	240	<.2	685	118	2	76
5	35432	5	0.4	175	108	<2	66
6	35433	500	<.2	225	151	4	72
7	35434	>1000	1.8	265	161	8	82
8	35435	205	0.4	220	215	12	100
9	35436	765	0.2	270	116	6	85
10	35437	>1000	0.4	440	118	8	82
11	35438	>1000	<.2	615	75	<2	35
12	35439	>1000	9.8	650	213	4	13
13	35440	>1000	0.4	6710	45	12	61
14	35441	>1000	2.0	670	64	50	86
15	35442	>1000	0.4	240	29	22	71
16	35443	>1000	0.6	2065	29	22	69
17	35444	>1000	0.8	4095	58	36	91
18	35445	415	0.4	345	38	32	98
19	35446	280	<.2	1440	37	20	99
20	35447	755	<.2	1165	30	4	101
21	35448	910	0.4	15	18	10	94
22	35449	>1000	0.2	35	27	12	111
23	35450	350	<.2	20	51	10	108
24	35451	25	0.2	50	41	8	81
25	35452	170	0.4	20	42	6	106
26	35453	145	<.2	10	32	10	102
27	35454	155	<.2	65	37	10	88
28	35455	200	<.2	45	58	14	105
29	35456	5	<.2	15	57	16	89
30	35457	10	<.2	25	66	10	88

Et #.	Tag #	Au(ppb)	Ag	As	Cu	Pb	Zn
31	35458	5	<.2	50	72	16	86
32	35459	5	<.2	<5	63	10	73
33	35460	5	<.2	10	60	14	92
34	35461	5	<.2	15	58	10	74
35	35462	5	0.2	5	55	12	106
36	35463	5	<.2	10	63	12	122
37	35464	10	0.2	15	76	8	64
38	35465	40	0.4	10	51	4	74
39	35466	5	<.2	<5	33	<2	60
40	35467	110	<.2	10	40	<2	62
41	35468	205	0.4	340	53	6	67
42	35469	10	0.2	40	94	10	87
43	35470	5	<.2	<5	62	20	124
44	35471	10	0.2	70	65	20	138
45	35472	5	<.2	20	25	12	79
46	35473	5	0.2	<5	61	24	114
47	35474	5	0.2	<5	73	20	91
48	35475	10	<.2	<5	67	16	100
49	35476	5	<.2	10	53	18	93
50	35477	5	0.4	<5	73	20	111
51	35478	5	0.4	<5	54	18	98
52	35479	5	0.4	<5	79	20	127
53	35480	5	0.2	<5	69	20	123
54	35481	5	0.2	<5	67	18	120
55	35482	5	0.2	<5	70	26	124
56	35483	5	<.2	<5	60	16	101
57	35484	95	0.4	<5	60	16	89
58	35485	105	0.4	30	58	6	81
59	35486	155	<.2	105	73	8	91
60	35487	245	<.2	810	70	6	84
61	35488	5	<.2	155	71	8	72
62	35489	5	<.2	75	54	8	78
63	35490	240	<.2	140	59	8	84
64	35491	625	0.4	230	65	16	113
65	35492	>1000	0.6	1940	64	8	100
66	35493	>1000	0.4	150	59	8	85
67	35494	>1000	0.4	770	64	14	93
68	35495	420	0.4	<5	78	12	120
69	35496	40	0.4	<5	44	8	112
70	35497	10	0.6	20	87	18	113
71	35498	5	0.6	25	63	18	114
72	35499	5	0.2	10	60	16	121
73	35500	5	0.4	5	40	12	100
74	35501	5	<.2	15	70	16	104
75	35502	5	<.2	<5	39	16	97

Et #.	Tag #	Au(ppb)	Ag	As	Cu	Pb	Zn
76	35503	340	0.2	1565	42	8	85
77	35504	265	<.2	605	44	8	63
78	35505	750	0.4	500	86	14	116
79	35506	>1000	0.6	>10000	60	18	96
80	35507	>1000	0.4	>10000	40	6	67
81	35508	>1000	0.8	7155	95	8	137
82	35509	>1000	0.6	3005	105	16	142
83	35510	>1000	0.2	3320	66	14	134
84	35511	>1000	0.4	5160	66	12	119
85	35512	170	<.2	640	46	12	132
86	35513	275	<.2	<5	33	12	127
87	35514	35	<.2	10	29	18	116
88	35515	5	<.2	<5	30	12	108
89	35516	10	<.2	<5	35	12	97
90	35517	5	<.2	20	94	12	113
91	35518	5	<.2	<5	38	12	99
92	35519	10	0.2	<5	50	12	139
93	35520	10	<.2	<5	60	16	181
94	35521	10	<.2	<5	58	14	151
95	35522	5	<.2	15	57	10	68
96	35523	5	<.2	30	195	4	80
97	35524	5	<.2	115	129	10	82
98	35525	15	<.2	130	89	12	84
99	35526	10	<.2	110	178	8	95
100	35527	5	<.2	120	82	4	46
101	35528	30	0.4	180	166	10	104
102	35529	10	0.6	105	145	6	177
103	35530	5	0.4	80	97	6	61
104	35531	20	<.2	115	87	6	84
105	35532	95	0.2	130	90	6	66
106	35533	190	<.2	105	98	16	76
107	35534	45	<.2	85	97	2	74
108	35535	175	<.2	65	67	4	85
109	35536	210	<.2	190	90	4	56
110	35537	120	<.2	280	95	2	67
111	35538	5	0.2	175	55	<2	60
112	35539	50	<.2	190	80	<2	66
113	35540	5	<.2	205	76	<2	61
114	35541	10	<.2	325	85	<2	51
115	35542	15	<.2	190	137	<2	73
116	35543	290	<.2	705	126	<2	80
117	35544	615	0.2	385	174	<2	87
118	35545	>1000	0.2	1315	183	<2	106
119	35546	>1000	<.2	1090	146	2	184
120	35547	>1000	<.2	2855	145	<2	101

Et #.	Tag #	Au(ppb)	Ag	As	Cu	Pb	Zn
121	35548	5	<.2	135	81	6	76
122	35549	425	0.4	690	82	2	69
123	35550	>1000	1.0	>10000	63	<2	61
124	35551	400	<.2	360	46	<2	67
125	35552	>1000	0.4	9075	49	4	63
126	35553	>1000	0.6	4750	59	26	93
127	35554	>1000	<.2	8835	35	8	60
128	35555	>1000	<.2	8985	40	4	111
129	35556	>1000	0.2	2900	37	6	108
130	35557	215	0.4	45	58	<2	81
131	35558	435	<.2	1190	27	<2	46
132	35559	>1000	<.2	2210	40	<2	62
133	35560	>1000	<.2	915	33	<2	51
134	35561	>1000	<.2	6030	39	6	52
135	35562	>1000	0.4	2130	66	8	88
136	35563	745	<.2	2040	46	2	150
137	35564	75	<.2	50	47	<2	71
138	35565	65	<.2	30	41	<2	55
139	35566	15	<.2	25	54	4	71
140	35567	10	<.2	235	69	2	85
141	35568	5	<.2	25	68	<2	58
142	35569	5	<.2	25	38	<2	62
143	35570	15	<.2	25	39	<2	65
144	35571	5	<.2	15	38	<2	50
145	35572	5	<.2	20	43	<2	62
146	35573	175	0.2	230	42	<2	80
147	35574	110	0.4	210	51	2	68
148	35575	215	<.2	555	33	4	85
149	35576	20	<.2	20	60	8	83
150	35577	5	<.2	<5	40	10	86
151	35578	5	<.2	<5	65	8	87
152	35579	5	<.2	15	88	12	94
153	35580	5	<.2	<5	73	10	99
154	35581	5	<.2	<5	79	12	104
155	35582	5	0.2	10	54	6	86
156	35583	5	<.2	15	48	6	64
157	35584	5	0.4	<5	87	8	92
158	35585	750	<.2	7610	112	<2	73
159	35586	5	<.2	55	170	8	69
160	35587	5	<.2	70	143	16	62
161	35588	5	<.2	40	91	12	108
162	35589	5	<.2	375	182	6	81
163	35590	5	<.2	95	142	8	74
164	35591	35	<.2	25	147	<2	72
165	35592	5	<.2	25	131	2	75
166	35593	5	<.2	<5	179	8	85
167	35594	5	<.2	50	86	8	69

Et #.	Tag #	Au(ppb)	Ag	As	Cu	Pb	Zn
QC/DATA:							
Resplit:							
R/S 1	35428	>1000	0.4	1865	97	10	189
R/S 36	35463	5	<.2	15	63	12	127
R/S 71	35498	5	0.6	30	65	16	119
R/S 106	35533	150	<.2	110	94	4	69
R/S 141	35568	10	<.2	20	64	4	58
Repeat:							
1	35428	>1000	0.6	1805	98	8	189
10	35437	>1000	0.2	495	119	6	83
19	35446	265	0.2	1405	37	20	99
36	35463	5	0.2	15	61	14	123
45	35472	5	<.2	15	24	14	84
54	35481	5	<.2	<5	66	20	118
71	35498	5	0.6	35	62	18	114
80	35507	>1000	0.6	>10000	39	6	67
89	35516	5	<.2	<5	36	12	98
106	35533	130	<.2	110	94	4	68
115	35542	20	<.2	200	138	2	75
124	35551	405	0.2	380	46	<2	67
141	35568	5	<.2	20	67	2	57
150	35577	5	<.2	<5	41	8	86
159	35586	5	<.2	60	168	10	67
Standard:							
GEO'96		145	1.2	70	87	24	78
GEO'96		145	1.2	70	87	22	80
GEO'96		150	1.2	75	82	22	72
GEO'96		150	1.0	85	86	24	75
GEO'96		150	1.2	75	83	24	73

ECO-TECH LABORATORIES LTD.
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ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (604) 573-5700
Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-368

HOMESTAKE CANADA INC.
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

31-May-96

ATTENTION: R. BRITTEN/D. KURAN

No. of samples: 110
Sample type: Core
PROJECT #: 90750
SHIPMENT #: AG96-09
Samples submitted by: Keith Patterson

		METALLIC GOLD SCREEN ASSAY				
ET #.	Tag #	Au (g/t)	Au (oz/t)	Au (g/t)	Au (oz/t)	As (%)
5	35599	8.74	0.255	9.54	0.278	1.56
6	35600	11.85	0.346	12.85	0.375	1.76
8	35602	1.55	0.045	-	-	-
9	35603	1.16	0.034	-	-	-
10	35604	1.01	0.029	-	-	-
11	35605	9.47	0.276	4.90	0.143	-
12	35606	1.02	0.030	-	-	-
13	35607	1.03	0.030	-	-	-
14	35608	1.81	0.053	-	-	-
15	35609	1.42	0.041	-	-	-
16	35610	1.22	0.036	-	-	-
17	35611	1.25	0.036	-	-	-
18	35612	2.66	0.078	-	-	-
20	35614	2.67	0.078	-	-	-
21	35615	3.70	0.108	5.05	0.147	-
22	35616	3.33	0.097	-	-	-
23	35617	2.58	0.075	-	-	-
24	35618	1.11	0.032	-	-	-
25	35619	1.19	0.035	-	-	-
41	35635	3.41	0.099	-	-	-
79	35673	1.02	0.030	-	-	-
80	35674	2.68	0.078	-	-	-
Standard:						
Standard:						
STD-M		3.17	0.092	-	-	-

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

XLS/96Homestake#2

Metallic Gold Screen Assay

E.T. No.368		Gold Values (g/t)		
		+140 mesh	- 140 mesh	total
5		7.30	9.56	9.54
6		10.63	12.87	12.85
11		51.70	4.61	4.90
21		3.22	5.06	5.05

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

Eco-Tech LABORATORIES LTD.

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Fax (604) 573-4557

30-May-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax: 604-573-4557

HOMESTAKE CANADA INC. AK 96-368
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

ATTENTION: R.BRITTEN/ D. KURAN

No. of samples: 110
Sample type: Core
PROJECT #: 90750
SHIPMENT #: AG96-09
Samples submitted by: Keith Patterson

Values in ppm unless otherwise reported

Et #.	Tag #	Au (ppb)	Ag	As	Cu	Pb	Zn
1	35595	15	<.2	110	71	12	90
2	35596	5	<.2	105	52	6	47
3	35597	10	<.2	105	45	8	58
4	35598	60	<.2	1605	144	2	75
5	35599	>1000	0.4	>10000	75	4	60
6	35600	>1000	1	>10000	108	6	93
7	35601	595	<.2	335	71	8	55
8	35602	>1000	<.2	1230	87	8	85
9	35603	>1000	<.2	310	73	<2	62
10	35604	>1000	<.2	2060	109	6	64
11	35605	>1000	<.2	8015	49	8	37
12	35606	>1000	<.2	3795	21	8	121
13	35607	>1000	<.2	2505	26	14	92
14	35608	>1000	<.2	665	48	30	108
15	35609	>1000	<.2	2265	42	8	117
16	35610	>1000	<.2	215	36	16	94
17	35611	>1000	<.2	165	51	34	108
18	35612	>1000	<.2	260	65	20	116
19	35613	920	<.2	3825	50	14	58
20	35614	>1000	<.2	2960	39	4	58

Et #.	Tag #	Au (ppb)	Ag	As	Cu	Pb	Zn
21	35615	>1000	<.2	3490	30	22	130
22	35616	>1000	<.2	3100	36	8	88
23	35617	>1000	<.2	435	28	14	71
24	35618	>1000	<.2	1835	45	6	92
25	35619	>1000	<.2	2805	49	8	92
26	35620	65	<.2	85	41	6	77
27	35621	55	0.2	40	50	14	77
28	35622	20	<.2	20	60	14	78
29	35623	10	<.2	<5	60	16	86
30	35624	20	<.2	<5	74	20	85
31	35625	15	<.2	<5	60	10	99
32	35626	15	<.2	15	59	20	93
33	35627	10	<.2	15	51	20	87
34	35628	5	<.2	15	41	14	77
35	35629	5	0.2	25	94	20	79
36	35630	10	0.2	30	79	18	88
37	35631	35	<.2	10	30	14	61
38	35632	165	<.2	130	61	14	87
39	35633	280	<.2	545	68	6	109
40	35634	960	0.2	770	81	8	60
41	35635	>1000	0.8	800	62	18	121
42	35636	230	0.2	165	72	20	145
43	35637	75	0.4	<5	54	20	131
44	35638	300	0.4	15	70	16	98
45	35639	10	<.2	<5	50	14	88
46	35640	85	<.2	620	66	12	97
47	35641	10	<.2	35	69	10	250
48	35642	5	<.2	<5	88	18	102
49	35643	5	<.2	<5	61	20	96
50	35644	5	<.2	<5	51	20	102
51	35645	5	<.2	110	57	16	112
52	35646	5	<.2	<5	57	26	122
53	35647	5	<.2	<5	43	22	110
54	35648	5	<.2	85	48	22	104
55	35649	10	<.2	<5	49	22	103
56	35650	5	<.2	<5	73	28	116
57	35651	5	0.4	15	64	22	108
58	35652	5	<.2	<5	62	20	98
59	35653	5	<.2	135	67	22	110
60	35654	5	<.2	<5	51	24	97

Et #.	Tag #	Au (ppb)	Ag	As	Cu	Pb	Zn
61	35655	5	<.2	<5	54	24	114
62	35656	5	0.2	<5	65	26	130
63	35657	5	0.2	<5	44	22	132
64	35658	5	<.2	40	55	12	116
65	35659	5	<.2	<5	62	16	130
66	35660	5	0.4	15	63	22	114
67	35661	5	<.2	<5	78	26	127
68	35662	5	<.2	10	80	26	100
69	35663	10	<.2	<5	80	22	123
70	35664	5	<.2	<5	40	18	93
71	35665	5	0.4	5	81	24	130
72	35666	5	0.2	30	48	16	90
73	35667	5	0.6	<5	77	24	124
74	35668	5	<.2	30	59	24	97
75	35669	155	<.2	10	58	14	61
76	35670	10	<.2	25	48	12	88
77	35671	5	<.2	60	63	20	126
78	35672	90	0.2	15	37	8	43
79	35673	>1000	<.2	125	54	10	80
80	35674	>1000	<.2	2845	36	10	98
81	35675	10	<.2	30	21	18	95
82	35676	60	<.2	5	19	18	97
83	35677	55	<.2	75	46	20	94
84	35678	5	<.2	20	25	22	90
85	35679	5	<.2	<5	36	24	135
86	35680	50	<.2	<5	28	22	92
87	35681	5	<.2	<5	51	26	120
88	35682	5	<.2	25	92	26	80
89	35683	5	<.2	25	53	26	111
90	35684	5	<.2	<5	34	20	98
91	35685	10	<.2	<5	47	26	123
92	35686	5	<.2	<5	35	20	124
93	35687	35	<.2	<5	53	26	144
94	35688	95	<.2	<5	48	26	121

Et #.	Tag #	Au (ppb)	Ag	As	Cu	Pb	Zn
QC/DATA:							
Resplit:							
R/S 1	35595	10	<.2	120	73	8	76
R/S 36	35630	5	<.2	40	77	22	93
R/S 71	35665	5	0.4	<5	84	28	135
Repeat:							
1	35595	15	<.2	110	69	8	86
10	35604	>1000	<.2	2120	110	4	67
19	35613	930	<.2	3785	50	14	56
36	35630	10	0.2	45	80	20	89
45	35639	10	0.4	<5	50	14	87
54	35648	5	<.2	85	46	22	101
71	35665	5	0.4	<5	80	26	128
80	35674	>1000	<.2	2875	37	12	99
89	35683	5	-	-	-	-	-
Standard:							
GEO'96		145	1	85	84	22	77
GEO'96		150	1.2	75	85	24	79
GEO'96		150	1.4	90	89	24	83

ECO-TECH LABORATORIES LTD.
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df/368
XLS/96Homestake#2

4- -96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK - 96-387

HOMESTAKE CANADA INC.
1000-700 West Pender St.
VANCOUVER, B.C.
V6C 1G8

ATTENTION: R. BRITTEN/D. KURAN

No. of samples: 61
Sample type: Core
PROJECT #: 00750
SHIPMENT #: AG96-12
Samples submitted by: Keith Patterson

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	35689	5	<.2	3.47	10	60	<5	2.35	<1	23	43	43	7.44	<10	1.71	724	7	0.05	13	1550	20	<5	<20	52	<.01	<10	79	<10	<1	124
2	35690	85	<.2	4.08	135	35	10	6.00	<1	29	42	31	8.45	<10	2.36	1582	6	0.03	7	590	14	<5	<20	118	<.01	<10	177	<10	<1	97
3	35691	5	<.2	2.50	5	60	<5	6.37	<1	20	50	33	5.91	<10	1.29	1053	6	0.03	11	380	8	<5	<20	188	<.01	<10	57	<10	<1	76
4	35692	5	<.2	4.63	80	25	<5	5.64	<1	34	391	67	6.42	<10	4.64	1092	3	0.02	103	1000	12	<5	<20	132	<.01	<10	158	<10	<1	67
5	35693	5	<.2	3.92	125	15	<5	6.53	<1	41	503	54	6.10	<10	5.75	1163	3	0.02	126	550	10	<5	<20	195	0.01	<10	185	<10	<1	50
6	35694	5	<.2	4.49	60	20	<5	7.14	<1	32	345	26	6.05	<10	4.33	1160	2	0.04	95	790	12	<5	<20	226	<.01	<10	148	<10	<1	58
7	35695	5	<.2	2.98	60	70	5	3.14	<1	21	47	29	6.24	<10	1.74	1130	5	0.04	11	400	12	<5	<20	65	<.01	<10	87	<10	<1	97
8	35696	5	<.2	3.01	5	75	<5	3.97	<1	21	33	28	6.39	<10	1.72	1219	5	0.03	10	400	12	<5	<20	73	<.01	<10	86	<10	<1	89
9	35697	5	<.2	6.25	65	15	5	7.36	<1	52	822	22	6.99	<10	7.36	1233	<1	<.01	178	600	10	<5	<20	280	0.18	<10	223	<10	<1	58
10	35698	5	<.2	4.86	30	40	15	5.36	<1	36	213	14	7.41	<10	4.06	1191	2	0.02	43	590	16	<5	<20	96	0.04	<10	231	<10	<1	62
11	35699	5	<.2	2.23	<5	70	<5	4.33	<1	23	47	174	6.19	<10	1.11	922	7	0.04	14	430	10	<5	<20	90	0.01	<10	81	<10	<1	56
12	35700	5	<.2	2.82	10	95	<5	7.51	<1	23	103	78	6.07	<10	1.92	1132	5	0.02	26	450	14	<5	<20	176	<.01	<10	92	<10	<1	79
13	35701	5	<.2	3.45	15	60	<5	6.25	<1	25	138	56	6.89	<10	2.56	1165	6	0.03	35	550	14	<5	<20	127	<.01	<10	132	<10	<1	86
14	35702	5	<.2	4.23	65	20	<5	9.42	<1	35	466	72	5.67	<10	4.35	1115	3	0.02	110	610	14	<5	<20	263	<.01	<10	152	<10	<1	55
15	35703	5	<.2	2.56	<5	55	5	6.75	<1	17	42	33	6.06	<10	1.14	1203	7	0.04	14	420	10	<5	<20	171	<.01	<10	52	<10	<1	89
16	35704	5	0.4	2.62	<5	70	<5	6.62	1	18	38	41	6.41	<10	1.18	1263	8	0.07	18	610	20	<5	<20	111	<.01	<10	53	<10	<1	113
17	35705	5	<.2	3.21	45	45	10	8.08	<1	13	22	22	6.06	<10	1.87	1464	7	0.05	3	1340	16	<5	<20	161	<.01	<10	53	<10	<1	109
18	35706	5	<.2	3.40	15	55	5	4.80	<1	25	41	42	6.87	<10	2.29	1206	5	0.06	16	720	16	<5	<20	92	<.01	<10	80	<10	<1	106
19	35707	5	0.4	3.02	<5	55	5	6.58	<1	18	95	37	6.45	<10	1.72	1079	10	0.07	17	520	14	<5	<20	150	<.01	<10	65	<10	<1	126
20	35708	5	0.4	2.81	<5	55	<5	3.44	<1	18	50	40	6.50	<10	1.62	592	8	0.06	20	1060	18	<5	<20	55	<.01	<10	53	<10	<1	134
21	35709	5	0.2	2.84	<5	65	5	4.66	1	20	56	40	6.48	<10	1.41	973	9	0.08	19	570	18	<5	<20	91	<.01	<10	65	<10	<1	113
22	35710	5	<.2	2.71	<5	60	10	5.42	2	18	39	40	6.87	<10	1.26	1145	9	0.08	25	570	16	<5	<20	80	<.01	<10	63	<10	<1	140
23	35711	5	<.2	3.32	140	55	15	12.30	<1	19	67	28	6.73	<10	1.75	1762	9	0.06	14	750	12	<5	<20	222	<.01	<10	74	<10	<1	112
24	35712	5	<.2	2.69	5	65	10	1.82	<1	16	37	45	6.44	<10	1.43	639	8	0.09	20	760	20	<5	<20	44	<.01	<10	49	<10	<1	123
25	35713	5	<.2	2.30	25	55	5	5.01	<1	13	93	7	4.20	<10	1.59	791	9	0.06	22	1280	14	<5	<20	89	<.01	<10	41	<10	<1	90

HOME KE CANADA INC. ..P CERTIFICATE OF ANALYSIS AK - 96-387 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
26	35714	5	<.2	2.19	<5	50	<5	4.64	1	14	43	23	4.87	<10	1.04	1110	7	0.06	9	1140	14	<5	<20	103	<.01	<10	37	<10	<1	90
27	35715	5	<.2	3.19	<5	50	10	6.77	<1	21	45	36	7.33	<10	1.48	1399	6	0.04	9	830	16	<5	<20	166	<.01	<10	79	<10	<1	101
28	35716	5	<.2	2.94	<5	65	10	3.53	<1	17	49	28	6.15	<10	1.56	840	5	0.06	11	410	20	<5	<20	72	<.01	<10	54	<10	<1	93
29	35717	5	<.2	3.30	<5	35	<5	7.50	1	24	43	44	6.92	<10	1.82	1203	7	0.05	10	730	24	<5	<20	172	<.01	<10	97	<10	<1	93
30	35718	5	<.2	2.96	<5	50	5	3.46	2	18	53	39	6.80	<10	1.54	858	9	0.06	13	830	20	<5	<20	79	<.01	<10	64	<10	<1	114
31	35719	5	0.2	2.75	<5	70	5	3.08	<1	20	47	44	6.85	<10	1.19	708	7	0.06	17	510	20	<5	<20	66	<.01	<10	51	<10	<1	126
32	35720	5	<.2	2.95	10	50	15	6.37	<1	21	48	22	7.09	<10	0.98	1534	6	0.05	13	1590	14	<5	<20	98	<.01	<10	75	<10	<1	103
33	35721	5	0.4	2.07	5	60	5	3.33	<1	14	48	40	5.76	<10	1.05	664	7	0.07	13	390	16	<5	<20	55	<.01	<10	34	<10	<1	109
34	35722	5	<.2	3.56	10	55	10	8.47	<1	21	18	17	6.93	<10	2.17	1681	5	0.05	1	1670	16	<5	<20	126	<.01	<10	91	<10	<1	97
35	35723	5	0.4	3.10	<5	65	<5	3.91	<1	18	49	37	6.99	<10	1.50	1002	7	0.07	13	2590	20	<5	<20	73	<.01	<10	54	<10	<1	113
36	35724	5	0.4	2.86	10	60	<5	4.02	1	20	89	51	6.43	<10	1.70	892	5	0.04	27	510	18	<5	<20	57	<.01	<10	53	<10	<1	109
37	35725	5	<.2	5.12	40	30	10	4.50	<1	39	228	24	7.22	<10	4.42	1226	<1	0.03	42	630	20	<5	<20	66	0.16	<10	216	<10	<1	79
38	35726	5	<.2	2.66	10	70	<5	2.86	<1	20	63	29	5.54	<10	1.45	756	8	0.04	15	500	20	<5	<20	64	<.01	<10	62	<10	<1	113
39	35727	5	<.2	3.87	35	15	10	6.65	<1	28	260	12	5.24	<10	3.31	1203	3	0.04	47	600	18	<5	<20	114	0.01	<10	125	<10	<1	52
40	35728	5	<.2	2.86	<5	85	5	2.99	1	22	54	62	7.12	<10	1.37	1046	8	0.04	18	410	20	<5	<20	44	<.01	<10	61	<10	<1	133
41	35729	5	<.2	2.65	35	50	5	3.60	<1	20	40	37	6.66	<10	1.20	1101	8	0.05	15	580	16	<5	<20	63	<.01	<10	52	<10	<1	116
42	35730	5	<.2	3.12	10	60	15	2.13	<1	18	53	35	8.74	<10	1.37	714	9	0.06	14	580	22	<5	<20	47	<.01	<10	59	<10	<1	126
43	35731	5	<.2	2.65	15	55	<5	3.63	<1	18	46	46	6.21	<10	1.15	837	6	0.06	14	860	20	<5	<20	68	<.01	<10	54	<10	<1	111
44	35732	5	<.2	2.30	20	35	<5	10.90	<1	18	58	21	5.17	<10	0.97	1645	7	0.05	10	490	10	<5	<20	232	<.01	<10	48	<10	2	86
45	35733	5	<.2	2.95	<5	45	5	3.58	<1	21	39	33	7.09	<10	1.28	1112	6	0.06	14	560	18	<5	<20	54	<.01	<10	58	<10	<1	125
46	35734	5	<.2	2.91	110	55	<5	4.14	<1	19	52	40	6.92	<10	1.32	870	6	0.06	17	1770	18	<5	<20	62	<.01	<10	53	<10	<1	121
47	35735	5	0.2	3.13	10	45	10	5.17	<1	18	34	20	6.24	<10	1.72	1387	4	0.05	6	690	18	<5	<20	72	<.01	<10	69	<10	<1	93
48	35736	5	<.2	2.83	10	55	<5	4.19	<1	18	53	20	5.88	<10	1.49	1014	5	0.05	10	440	18	<5	<20	67	<.01	<10	54	<10	<1	97
49	35737	5	<.2	3.56	15	55	10	6.86	<1	25	40	23	7.65	<10	1.81	2050	5	0.03	8	590	18	<5	<20	92	0.01	<10	103	<10	<1	102
50	35738	5	0.4	3.91	30	35	<5	4.31	<1	24	169	118	6.28	<10	3.16	1107	10	0.05	41	640	20	10	<20	118	<.01	<10	104	<10	<1	78
51	35739	5	0.2	2.68	75	15	5	7.28	<1	25	175	3	5.11	<10	3.45	1337	3	0.05	65	680	14	5	<20	168	<.01	<10	76	<10	<1	61
52	35740	5	0.2	3.83	60	25	10	4.79	<1	32	199	41	6.07	<10	4.20	1013	3	0.05	79	850	22	<5	<20	93	<.01	<10	120	<10	<1	87
53	35741	5	<.2	3.66	45	25	10	2.58	<1	26	241	16	5.14	<10	3.31	778	6	0.04	65	780	24	10	<20	67	<.01	<10	104	<10	<1	69
54	35742	5	<.2	2.62	<5	60	10	6.03	1	20	46	31	6.69	<10	1.11	1294	8	0.05	15	460	16	<5	<20	115	<.01	<10	54	<10	<1	113
55	35743	5	<.2	2.84	<5	55	15	4.58	<1	22	57	31	7.00	<10	1.18	1096	8	0.06	15	2420	18	<5	<20	87	<.01	<10	60	<10	<1	97
56	35744	5	0.2	2.59	5	50	10	5.22	<1	20	41	29	6.68	<10	1.19	1393	6	0.06	13	1300	14	<5	<20	102	<.01	<10	54	<10	<1	102

HOMESTAKE CANADA INC. ICP CERTIFICATE OF ANALYSIS AK - 96-387 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC/DATA:																														
Resplit:																														
R/S 1	35689	5	<.2	3.73	10	60	<5	2.60	<1	28	47	41	8.03	<10	1.83	780	9	0.06	14	1840	24	<5	<20	57	<.01	<10	85	<10	<1	137
R/S 36	35724	5	<.2	2.89	10	75	<5	3.81	<1	19	86	52	6.43	<10	1.67	862	6	0.05	25	510	20	<5	<20	57	<.01	<10	52	<10	<1	111
Repeat:																														
1	35689	5	<.2	3.53	10	60	5	2.37	<1	24	45	41	7.47	<10	1.74	730	8	0.05	13	1540	18	<5	<20	53	<.01	<10	80	<10	<1	123
10	35698	5	<.2	4.95	30	45	10	5.46	<1	37	217	14	7.54	<10	4.11	1215	2	0.02	44	610	18	<5	<20	102	0.05	<10	236	<10	<1	64
19	35707	5	0.4	3.09	15	55	10	6.75	1	19	98	37	6.60	<10	1.74	1108	10	0.07	19	550	18	<5	<20	154	<.01	<10	67	<10	<1	130
36	35724	5	0.2	2.89	20	55	15	4.09	<1	20	90	51	6.50	<10	1.70	901	5	0.04	30	560	20	<5	<20	53	<.01	<10	54	20	<1	112
45	35733	5	<.2	2.95	<5	45	5	3.56	1	20	38	33	7.03	<10	1.28	1108	7	0.06	15	550	18	<5	<20	56	<.01	<10	58	<10	<1	122
54	35742	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard:																														
GEO'96		150	1.4	1.66	60	180	<5	2.01	<1	21	72	82	3.98	<10	1.09	777	<1	0.02	24	770	20	<5	<20	70	0.15	<10	91	<10	5	77
GEO'96		150	1.4	1.89	65	180	<5	1.96	<1	21	67	82	4.01	<10	1.05	774	<1	0.02	20	800	20	<5	<20	64	0.13	<10	86	<10	6	77

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

dl/387a
XLS/96Homestake

3500'

3000'

Access Trail

AG96-01
AG96-02
AG96-03
AG96-04
AG96-05
AG96-06
AG96-07
AG96-08
AG96-09
AG96-10
AG96-11
AG96-12
AG96-13

0 10'
SCALE IN METERS

HOMESTAKE CANADA INC.

Ample/Goldmax Project

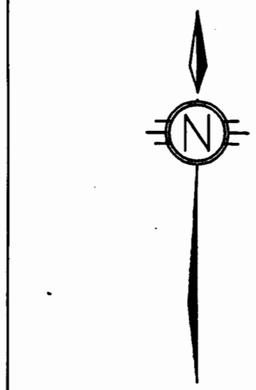
Drill Plan Map

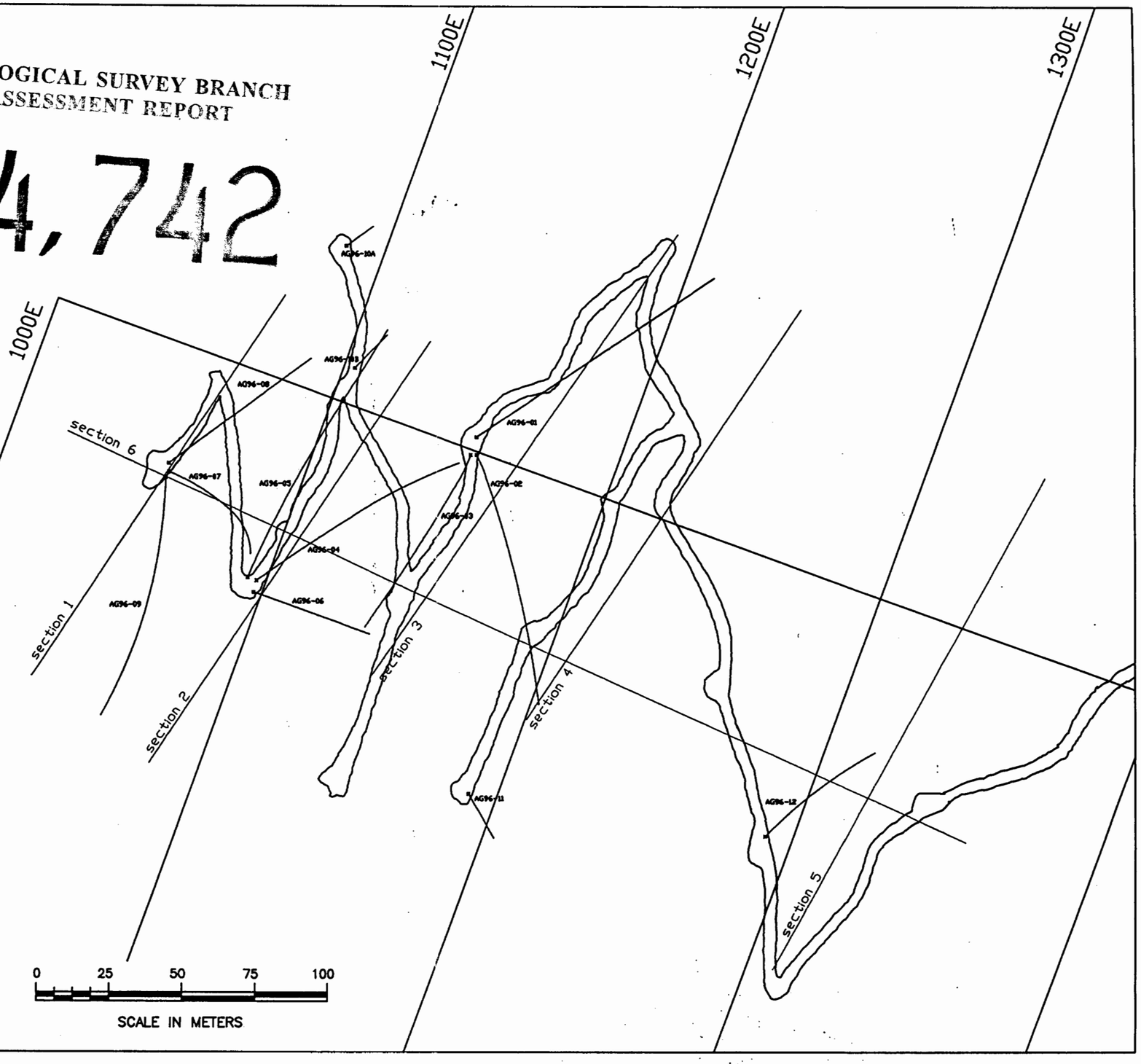
Geology & Au assay (100-999 ppb), (1.0-66.34 g/ton)

DRAWN	DATE	NTS	FIGURE
RJM	Dec. 12/ 96	92J/9E	331.

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,742





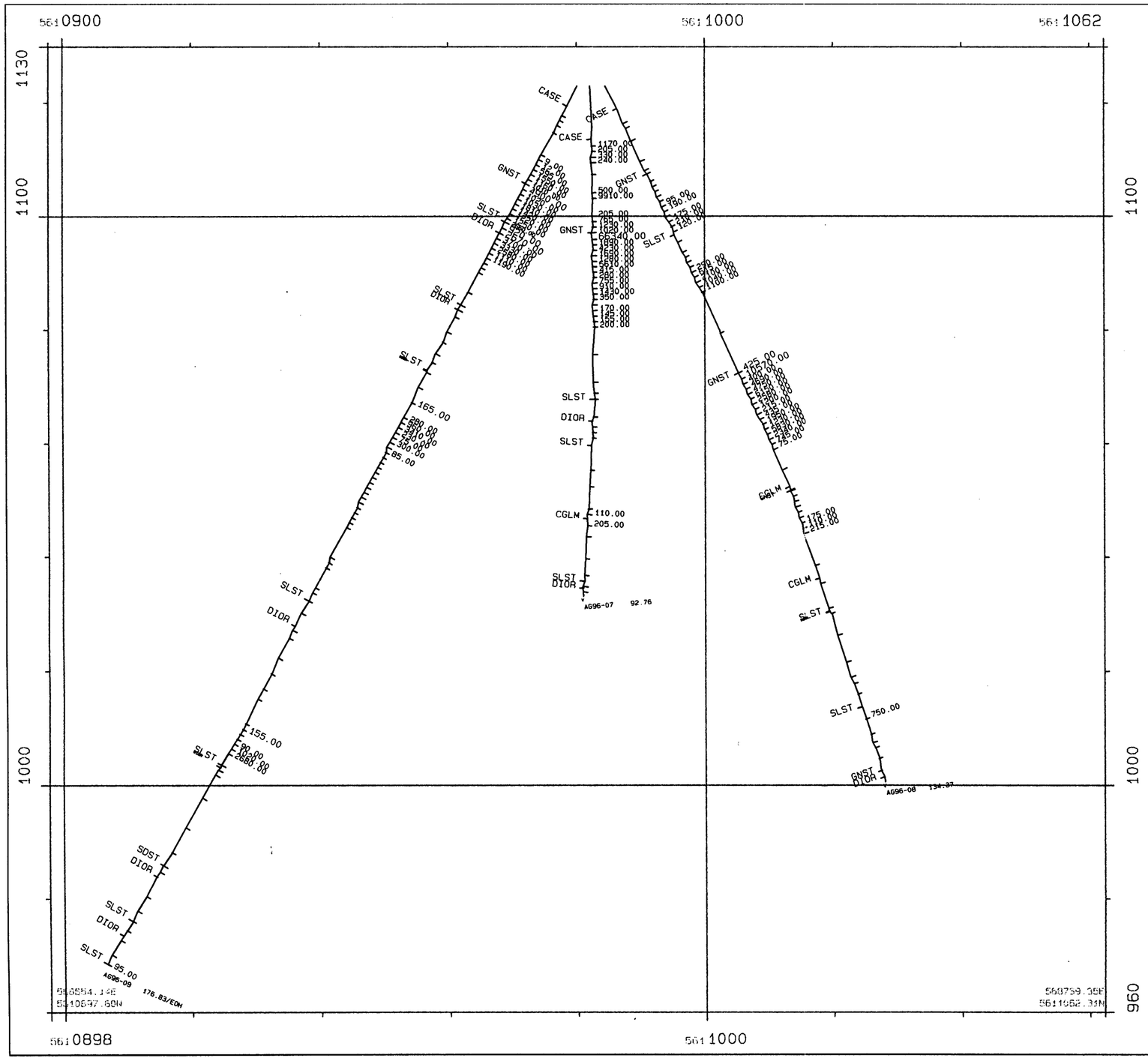
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
D. L. KURAN
GEOLOGIST

HOMESTAKE CANADA LTD.

AMPLE/GOLDMAX PROPERTY

DRILL SECTION LOCATIONS

DRAWN	DATE	NTS	FIGURE
KMP	JULY 96	92J/9E	3.3.2



LEGEND
Left Side Trace Annotation UNIT
Right Side Trace Annotation AU_PPB 0.000 - 100000.000
Drill Hole Trace
User Notes 25m clip planes to north and south of section

1: 750

15 0 7.5 15 22.5 30 37.5

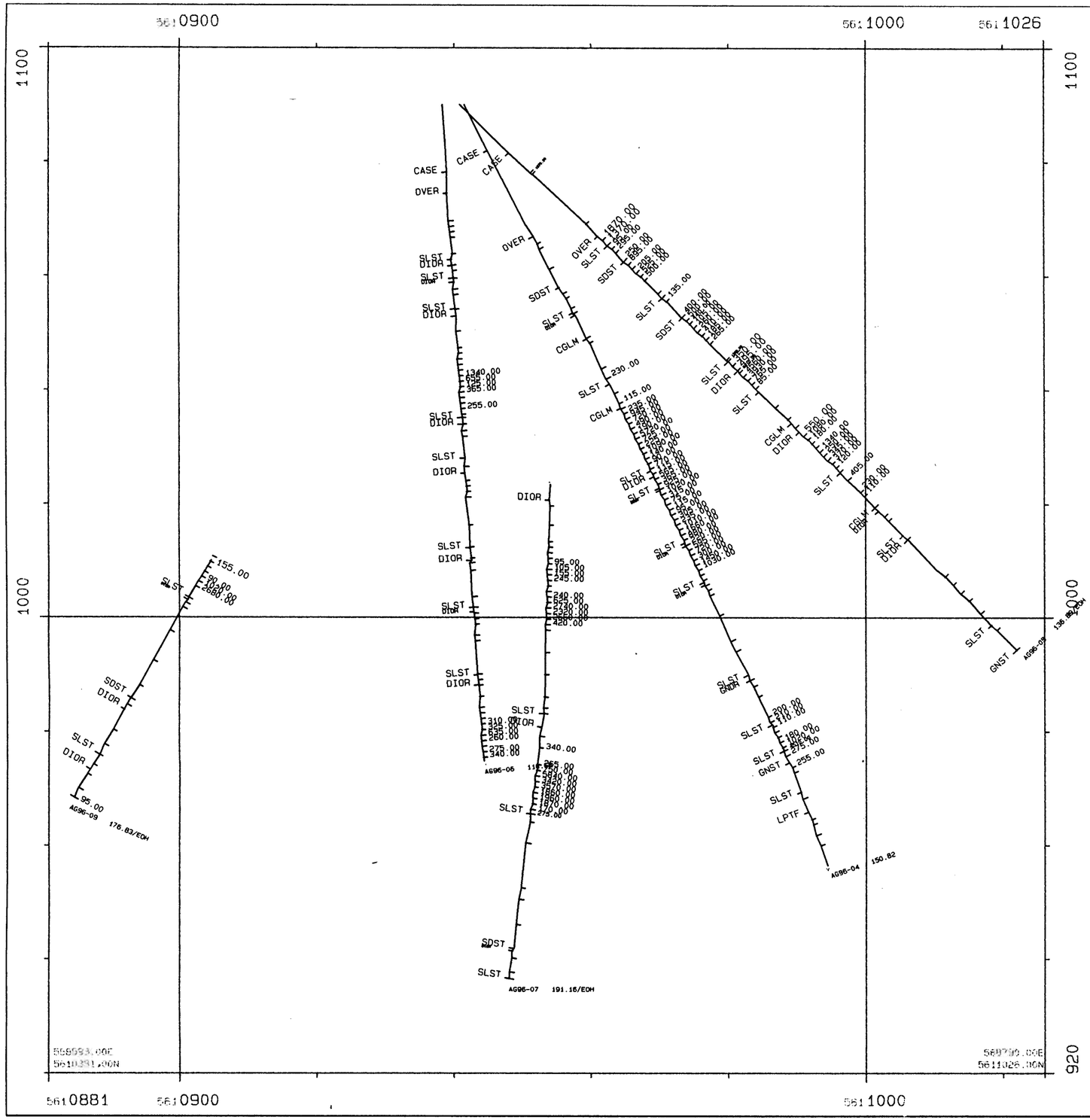
Metres

Ample Sections

Looking Northwest

Section 1

Scale: 1: 750	
Date: 31-Dec-96	
Project: AMP	
Drawn By: jdg	
Checked:	
Approved:	
Drawing No.	
3.3.3	



LEGEND
Left Side Trace Annotation UNIT
Right Side Trace Annotation AU_PPB 0.000 - 100000.000
Drill Hole Trace
User Notes 25m clip planes to north and south of sec.

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,742

1: 750

15 0 7.5 15 22.5 30 37.5

Metres

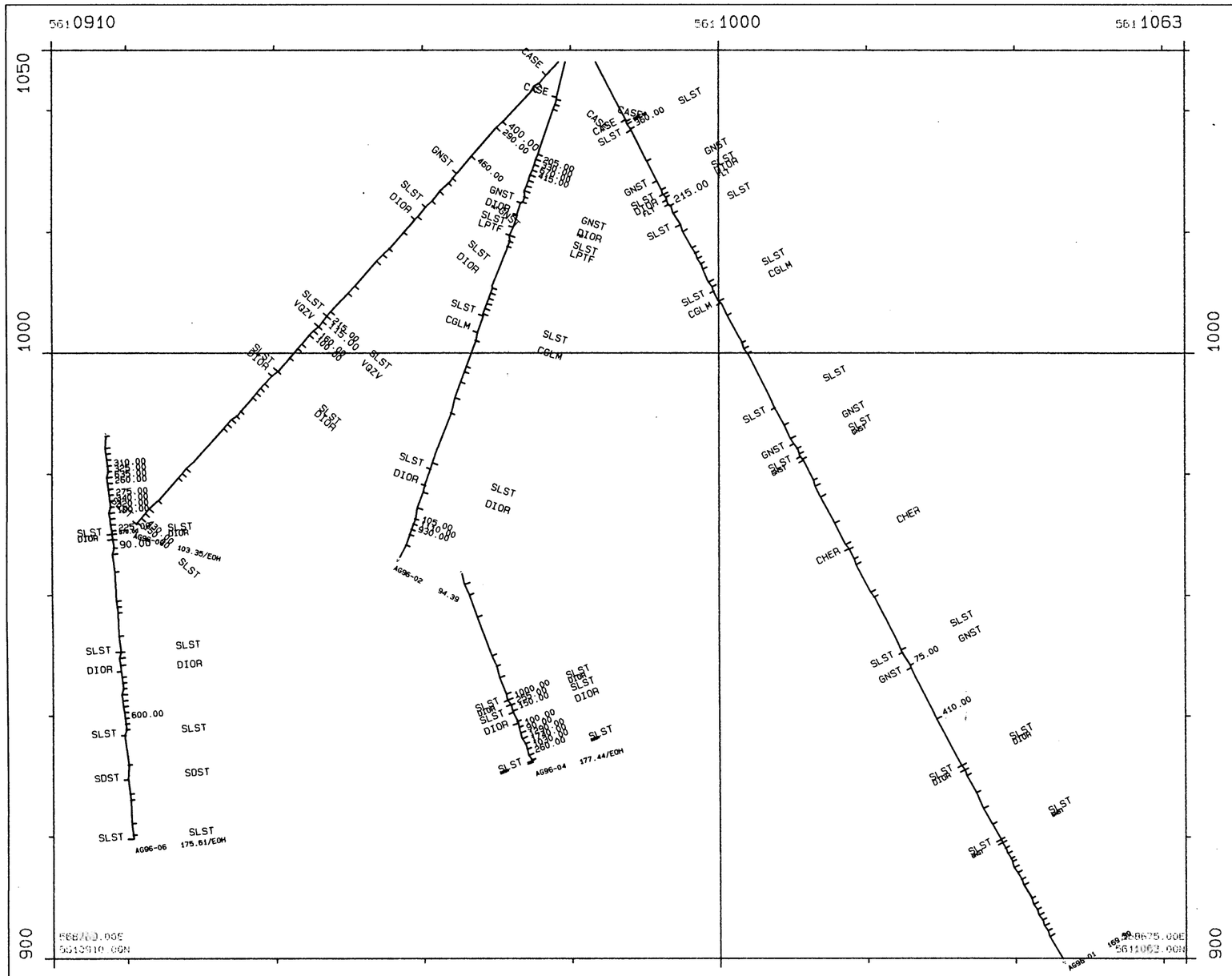
PROFESSIONAL GEOSCIENTIST
PROVINCE OF BRITISH COLUMBIA
D. J. KURAN

Ample Sections

Looking Northwest

Section 2

Scale: 1: 750	
Date: 31-Dec-96	
Project: AMP	
Drawn By: jdg	
Checked:	
Approved:	
Drawing No.	3.3.4



LEGEND
Left Side Trace Annotation UNIT
Right Side Trace Annotation AU_PPB 0.000 - 100000.000 UNIT
Drill Hole Trace
User Notes 25m clip planes to north and south of sec.

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,742

1: 750

15 0 7.5 15 22.5 30 37.5
Metres

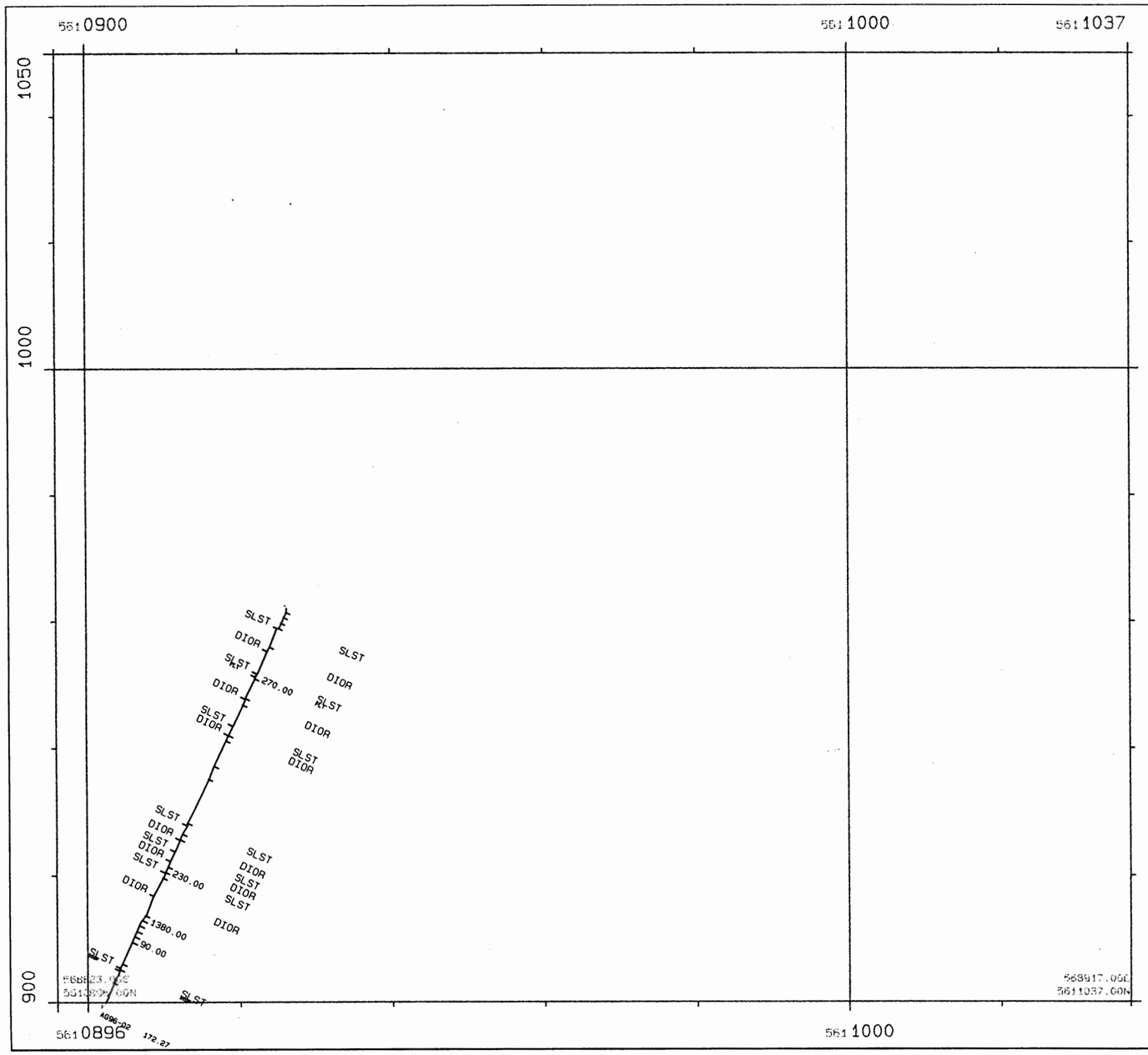
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
D. L. KURAH
GEOSCIENTIST

Ample Sections

Looking Northwest

Section 3

Scale: 1: 750
Date: 31-Dec-96
Project: AMP
Drawn By: jdg
Checked:
Approved:
Drawing No.
3.3.5



LEGEND

Left Side Trace Annotation
UNIT

Right Side Trace Annotation
AU_PPB
0.000 - 100000.000
UNIT

Drill Hole Trace

User Notes
25m clip planes to north and south of sec.

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,742

1: 750

15 0 7.5 15 22.5 30 37.5
Metres

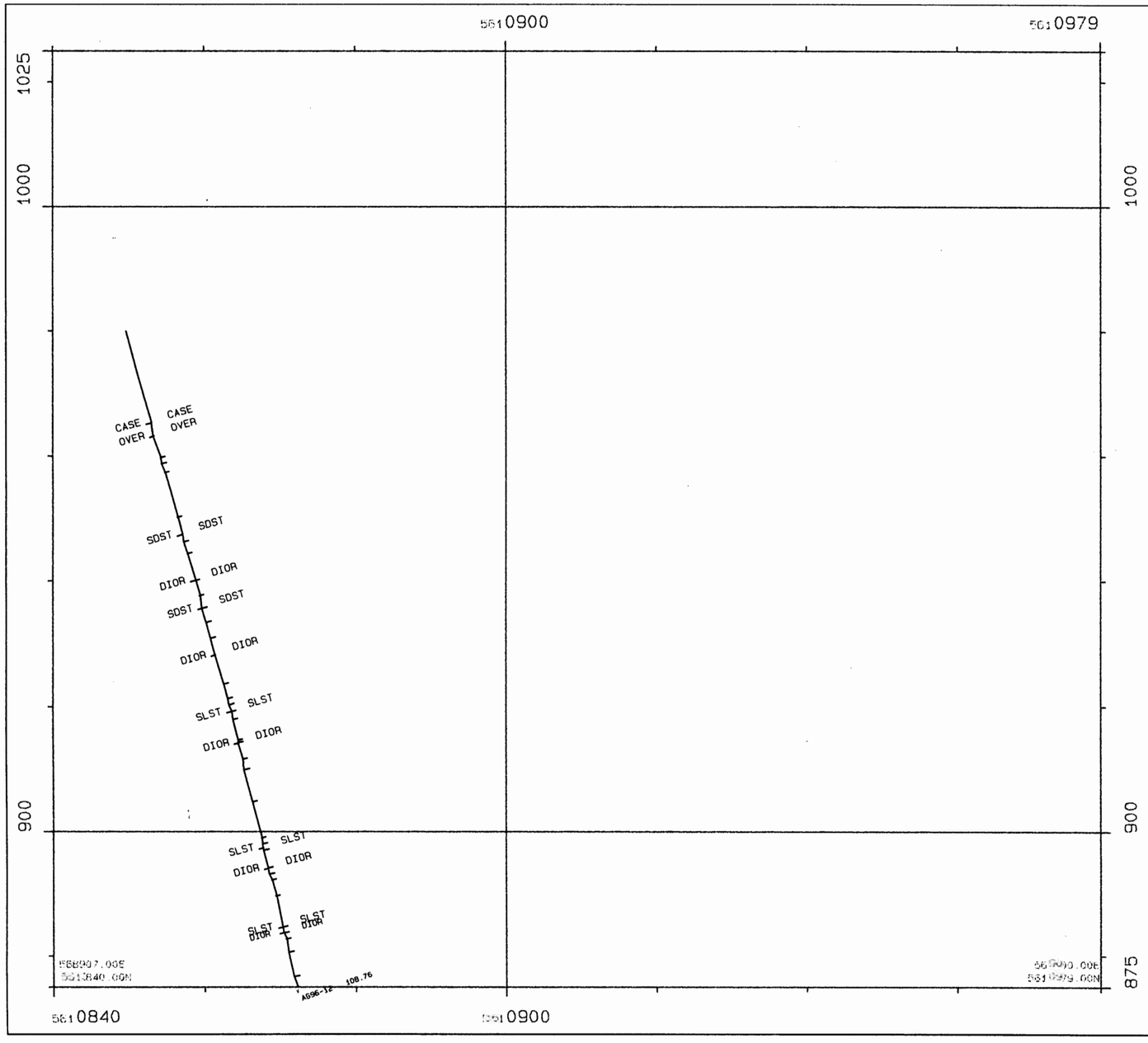
N

Ample Sections

Looking Northwest

Section 4

Scale: 1: 750
Date: 31-Dec-96
Project: AMP
Drawn By: jdg
Checked:
Approved:
Drawing No.
3.3.6



LEGEND
Left Side Trace Annotation UNIT
Right Side Trace Annotation AU_PPB 0.000 - 100000.000 UNIT
Drill Hole Trace
User Notes 25m clip planes to north and south of sec

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,742

1: 750

15 0 7.5 15 22.5 30 37.5
Metres

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
D. L. [illegible]
GEOSCIENTIST

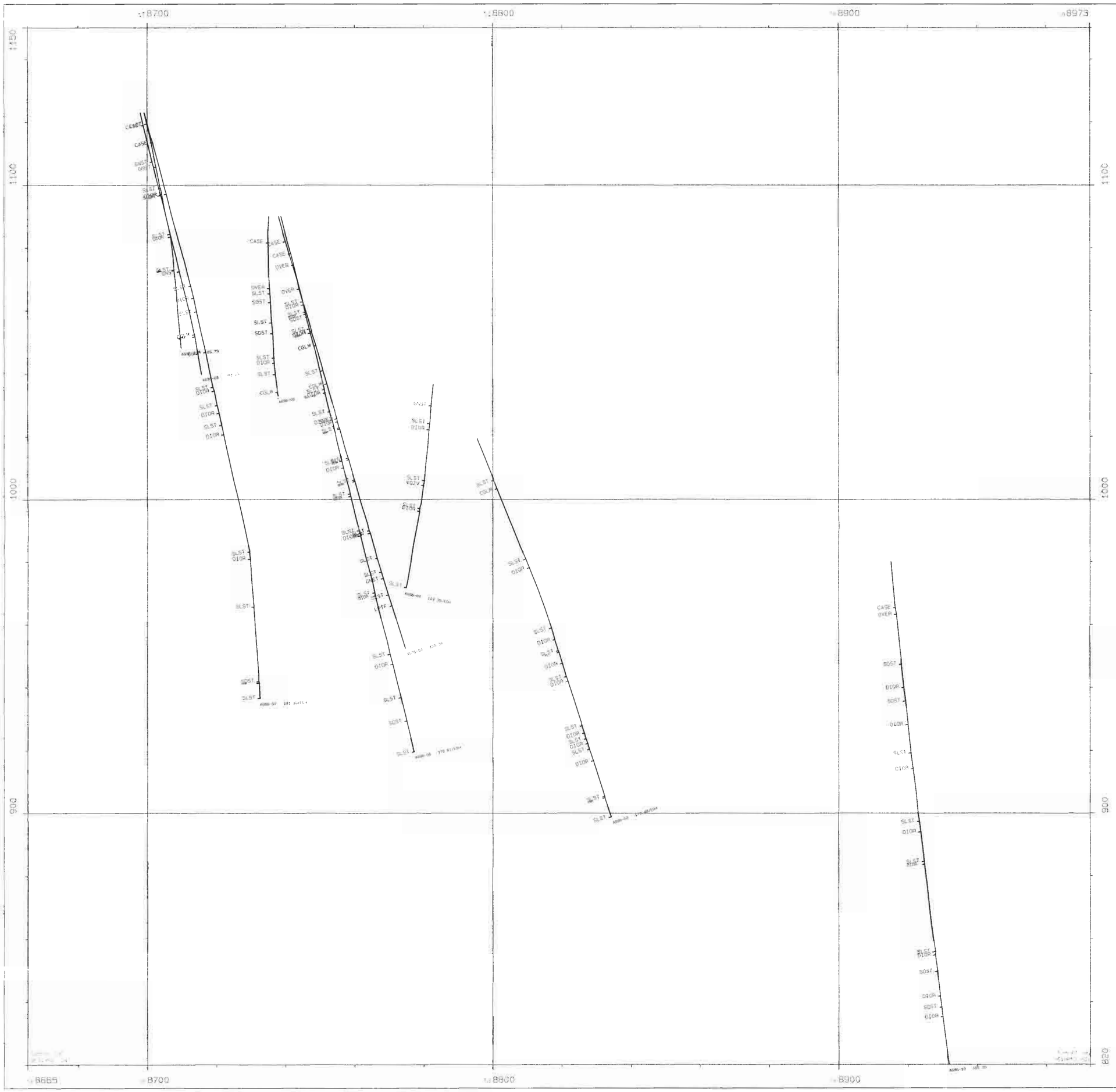
Ample Sections

Looking Northwest

Section 5

-

Scale: 1: 750	
Date: 31-Dec-96	
Project: AMP	
Drawn By: jdg	
Checked:	
Approved:	
Drawing No.	
3.3.7	



GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,742

1: 750

15 0 7.5 15 22.5 30 37.5
Metres

N

Ample Sections

Looking NNE

Scale	1: 750
Date	31-Dec-96
Project	AMP
Drawn By	jdg
Checked	
Approved	
Drawing No.	
	3.3.8