

Appendix III

Drill Hole Log

Book 4 of 4

CL96-90 to CL96-126

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,938 ⁷/₁₄

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-90

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-90	Date Completed:		Geotech by: MBW
LENGTH: 89.75	Core Diam: NQII		

Collar Location	
Latitude: 2125.72	
Departure: 1974.00	
Elevation: 1431.83	

S U M M A R Y

0.00-40.07	volcaniclastics **
40.07-42.00	Semi-massive hematite *
42.00-89.92	volcaniclastics

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	79.00	-85.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	40.07	volcaniclastics	48310	1.00-2.00	1.00	0.005		26.0	82.0		46.0	
		Redish-green, heterolithic, stringers	48311	2.00-3.00	1.00	0.005		33.0	99.0	20.0	44.0	
		hematite stringers 45°:cleavage, foliation 45°	48312	3.00-4.00	1.00	0.005		26.0	47.0		50.0	
		Frs=6/m :Vns =15/m	48313	4.00-5.00	1.00	0.010		37.0	205.0	40.0	52.0	
		Moderate SI patches	48314	5.00-6.00	1.00	0.005		37.0	284.0	35.0	56.0	
		Strong CL pervasive	48315	6.00-7.00	1.00	0.005		25.0	113.0		68.0	
		Moderate KS pervasive	48316	7.00-8.00	1.00	0.015		29.0	160.0		58.0	
		Moderate EP microveins	48317	8.00-9.00	1.00	0.005		32.0	91.0		69.0	
		Moderate HE stockwork	48318	9.00-10.00	1.00	0.040	0.20	74.0	191.0	20.0	65.0	
		Moderate PY microveins	48319	10.00-11.00	1.00	0.080	0.60	31.0	210.0	15.0	67.0	
		Weak QV microveins	48320	11.00-12.00	1.00	0.030	1.20	30.0	115.0		63.0	
		Moderate QC microveins	48321	12.00-13.00	1.00	0.005		49.0	235.0		148.0	
		Variably chlorite/hematite altered. MINERALIZATION- 2	48322	13.00-14.00	1.00	0.100		33.0	306.0		77.0	
		to 3% local abundant pyrite along veinlets.	48323	14.00-15.00	1.00	0.010		29.0	137.0		56.0	
<0.00-40.07>		Weak MT vein	48324	15.00-16.00	1.00	0.005		29.0	108.0		70.0	
		MINERALIZATION- 2 to 3% local abundant pyrite along	48325	16.00-17.00	1.00	0.015		28.0	185.0		62.0	
		veinlets.	48326	17.00-18.00	1.00	0.045		45.0	432.0		71.0	
<4.00-5.70>		Broken Core										
		Stockwork, Brecciated										
		Broken core, vuggy limonite on fractures.										
<5.70-24.00>		Chlorite Streaming	48327	18.00-19.00	1.00	0.055		52.0	228.0		82.0	
		Stringers, stockwork	48328	19.00-20.00	1.00	0.040		52.0	236.0		92.0	
		Moderate SI patches	48329	20.00-21.00	1.00	0.020		43.0	280.0		85.0	
		Intense CL pervasive	48330	21.00-22.00	1.00	0.015		49.0	268.0		66.0	
		Moderate KS pervasive	48331	22.00-23.00	1.00	0.005		48.0	141.0		57.0	
		Strong HE stockwork	48332	23.00-24.00	1.00	0.005		40.0	80.0		57.0	2.0
		Moderate PY microveins										
		Moderate QC microveins										
		Strongly chlorite/hematite altered with intense										
		chlorite, locally vuggy along calcite veins.										
<10.60-11.40>		Strong MT patches										
		MINERALIZATION- 4% pyrite as veinlets and patches.										
<10.60-11.40>		QUARTZ-CALCITE VEINS										
		Brecciated										
		Numerous pink calcite veinlets at 0.0 to 40.07m., local										
		intense pink K-spar alteration. MINERALIZATION- 4%										
		pyrite as veinlets and patches.										
40.07	42.00	Semi-massive hematite	48333	24.00-25.00	1.00	0.005		36.0	132.0		54.0	
		Blackish-red, stringers, wispy	48334	25.00-26.00	1.00	0.010		29.0	115.0		47.0	
		hematite stringers 45°:Chlorite 45°	48335	26.00-27.00	1.00	0.005		43.0	218.0	20.0	58.0	10.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Frs=3/m :Vns =50/m	48336	27.00-28.00	1.00	0.050		103.0	325.0	70.0	84.0	4.0
		Moderate SI patches	48337	28.00-29.00	1.00	0.005		29.0	609.0		59.0	
		Intense CL pervasive	48338	29.00-30.00	1.00	0.005		63.0	154.0	50.0	63.0	4.0
		Moderate MT patches	48339	30.00-31.00	1.00	0.005		76.0	1200.0	20.0	61.0	4.0
		Strong KS pervasive	48340	31.00-32.00	1.00	0.005		92.0	1043.0	35.0	75.0	4.0
		Intense HE stringer	48341	32.00-33.00	1.00	0.005		254.0	549.0	100.0	178.0	2.0
		Strong PY vein	48342	33.00-34.00	1.00	0.005		732.0	239.0	510.0	424.0	2.0
		Weak QV microveins	48343	34.00-35.00	1.00	0.005		344.0	149.0	190.0	361.0	10.0
		Moderate QC microveins	48344	35.00-36.00	1.00	0.080		66.0	117.0	25.0	351.0	8.0
		H zone, stringer zone with abundant black chlorite veinlets, some patches of green chlorite.	48345	36.00-37.00	1.00	0.010		42.0	60.0	60.0	399.0	12.0
		MINERALIZATION- 7% coarsed veined pyrite, trace chalcopyrite, 2% magnetite patches. Local vuggy calcite veinlets generally along core axis, laminations, vuggy.	48346	37.00-38.00	1.00	0.210		84.0	60.0	80.0	602.0	10.0
			48347	38.00-39.00	1.00	0.750		90.0	76.0	105.0	228.0	6.0
			48348	39.00-40.07	1.07	0.010		109.0	1965.0	85.0	86.0	6.0
			48349	40.07-40.50	0.43	1.630	0.60	125.0	1527.0	150.0	90.0	12.0
			48350	40.50-41.00	0.50	0.635		97.0	79.0	85.0	123.0	10.0
		<40.07-42.00> ?? MT vein	48351	41.00-41.50	0.50	0.160		59.0	938.0	65.0	93.0	8.0
		MINERALIZATION- 7% coarse veined pyrite, traces chalcopyrite, 2% magnetite patches. Local vuggy calcite veinlets generally along core axis.	48352	41.50-42.00	0.50	0.215	0.80	92.0	1082.0	15.0	112.0	14.0
		<40.07-40.08> massive hematite Veined Massive hematite vein.										
		<41.85-41.95> pyrite vein or veinlet Strong MT patches Abundant magnetite.										
42.00	89.92	volcaniclastics	48353	42.00-43.00	1.00	0.025	0.60	37.0	1555.0	15.0	91.0	8.0
		Greenish-red, heterolithic, stockwork cleavage, foliation 90°:Chlorite 45°	48354	43.00-44.00	1.00	0.045	1.00	49.0	1970.0	105.0	107.0	14.0
			48355	44.00-45.00	1.00	0.005		29.0	765.0	20.0	67.0	6.0
		Frs=6/m :Vns =10/m	48356	45.00-46.00	1.00	0.005		417.0	465.0	400.0	150.0	10.0
		Moderate SI patches	48357	46.00-47.00	1.00	0.005		155.0	137.0	60.0	109.0	10.0
		Strong CL pervasive	48358	47.00-48.00	1.00	0.005		100.0	322.0	15.0	92.0	10.0
		Strong KS pervasive	48359	48.00-49.00	1.00	0.005		39.0	229.0	15.0	81.0	18.0
		Weak HE stockwork	48360	49.00-50.00	1.00	0.005		42.0	207.0	35.0	78.0	18.0
		Moderate PY microveins	48361	50.00-51.00	1.00	0.015		40.0	181.0	35.0	63.0	16.0
		Weak QV microveins Moderate QC microveins Generally dense, weakly chloritite/hematite altered, mottled, vuggy.										
		<77.72-81.00> rubbly fault zone Abundant limonite on fractured surfaces, minor gouge.										
		<81.00-84.00> volcaniclastics										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Redish-green, stockwork, heterolithic cleavage, foliation 10°:cleavage, foliation 45° Frs=5/m :Vns =25/m Moderate SI patches Strong CL pervasive Moderate KS pervasive Strong HE stockwork Weak PY disseminated Moderate QC microveins Strong calcite stockwork, brecciated in appearance, wispy.										
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-91

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-91	Date Completed:		Geotech by: MBW
LENGTH: 18.29	Core Diam: NQII		

Collar Location	
Latitude: 2047.90	
Departure: 1989.93	
Elevation: 1398.22	

S U M M A R Y

0.00-1.50 volcaniclastics
 1.50-9.80 Semi-massive hematite **
 9.80-18.29 volcaniclastics *

DOWN HOLE SURVEYS			
Depth	Azim	Inclin	Method
0.00	263.00	-45.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	1.50	volcaniclastics	48363	0.00-1.00	1.00	0.105		45.0	254.0		93.0	
		Redish-green, heterolithic, stockwork	48364	1.00-1.50	0.50	0.095		112.0	210.0		83.0	
		Frs=6/m :Vns =25/m										
		Moderate SI patches										
		Strong CL pervasive										
		Moderate KS pervasive										
		Strong HE stockwork										
		Moderate QV vein										
		Weak QC microveins										
		Vuggy section from surface weathering, hematite stringers.										
1.50	9.80	Semi-massive hematite	48365	1.50-2.00	0.50	0.045		112.0	193.0		76.0	
		Blackish-red, stockwork, stringers	48366	2.00-2.50	0.50	0.755	0.20	105.0	110.0		64.0	
		vein 45°	48367	2.50-3.00	0.50	4.540		131.0	149.0		76.0	
		Moderate SI patches	48368	3.00-3.50	0.50	37.700	3.00	52.0	263.0		106.0	
		Intense CL pervasive	48369	3.50-4.00	0.50	25.520	1.20	34.0	246.0		103.0	
		Moderate MT patches	48370	4.00-4.50	0.50	40.600	0.80	66.0	357.0	55.0	102.0	6.0
		Strong KS pervasive	48371	4.50-5.00	0.50	4.470		46.0	207.0	20.0	141.0	
		Intense HE stockwork	48372	5.00-5.50	0.50	28.220	1.40	32.0	133.0	25.0	60.0	8.0
		Strong SE vein	48373	5.50-6.00	0.50	16.420		46.0	200.0	45.0	111.0	10.0
		Moderate QC microveins	48374	6.00-6.50	0.50	1.750		69.0	305.0	25.0	128.0	14.0
		H zone semi-massive to massive hematite stringers and veins in highly chloritized, locally silicified and	48375	6.50-7.00	0.50	6.820		50.0	252.0	15.0	75.0	18.0
		K-spar altered zone, local patches of coarse green	48376	7.00-7.50	0.50	0.920		117.0	232.0	40.0	198.0	
		crystalline chlorite, strong chlorite streaming	48377	7.50-8.00	0.50	1.630		267.0	303.0	85.0	375.0	
		throughout. MINERALIZATION- trace chalcopyrite, 1 to	48378	8.00-8.50	0.50	1.650		144.0	191.0	25.0	352.0	
		2% magnetite.	48379	8.50-9.00	0.50	1.420	7.40	48.0	3966.0		381.0	
			48380	9.00-9.80	0.80	0.150	13.00	49.0	7419.0		261.0	
<1.50-9.80>		MINERALIZATION- trace chalcopyrite, 1 to 2% magnetite.										
<1.95-2.05>		hematite specularite vein										
		Veined										
		Intense HE vein										
		Intense SE vein										
		Hematite with specularite and chlorite in calcite vein.										
<4.10-4.40>		massive hematite										
		Veined										
		Intense CL stringer										
		Intense MT pervasive										
		Intense HE massive										
		Dark red black with fine calcite veinlets.										
<4.40-4.50>		spec/calcite/chlorite vein										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Veined Intense CL stringer Intense MT pervasive Intense SE vein About 50% specularite in chlorite/calcite veins.										
<5.80-5.90>		massive hematite Veined Intense CL stringer Intense HE massive Moderate SE microveins Massive hematite veins, strong chlorite stringers, strong pervasive magnetite, strong specularite veining.										
<7.00-7.80>		MINERALIZATION- fine grained sparks of chalcopyrite throughout especially at 3.90m., 0.5% chalcopyrite, 2 to 3% magnetite, 7% specularite.										
<7.00-7.80>		Semi-massive hematite Veined Moderate SI patches Strong CL microveins Moderate MT pervasive Moderate KS pervasive Intense HE stringer Weak SE microveins At 9.50 to 9.75m., local strong malachite on fracture. MINERALIZATION- fine grained sparks of chalcopyrite throughout especially at 3.90m., 0.5% chalcopyrite, 2 to 3% magnetite, 7% specularite.										
9.80	18.29	volcaniclastics	48381	9.80-11.00	1.20	0.035		28.0	271.0		114.0	
		Green, Brecciated	48382	11.00-12.00	1.00	1.760	0.40	38.0	573.0		137.0	
		Frs=8/m :Vns =5/m	48383	12.00-13.00	1.00	9.350	1.60	38.0	415.0		305.0	18.0
		Weak SI patches	48384	13.00-14.00	1.00	0.060		38.0	198.0	20.0	96.0	
		Moderate CL pervasive	48385	14.00-15.00	1.00	0.055		36.0	429.0		75.0	4.0
		Moderate KS pervasive	59335	15.00-16.00	1.00	0.130	0.40	31.0	1373.0	20.0	71.0	14.0
		Weak HE stockwork	59336	16.00-16.90	0.90	9.810	5.20	61.0	4808.0	85.0	60.0	40.0
		Strong PY vein	48386	16.90-18.00	1.10	11.670	5.40	92.0	2314.0	95.0	141.0	
		Moderate QC microveins	59337	18.00-18.24	0.24	0.180	0.40	45.0	1073.0	25.0	87.0	12.0
		Coarse grained pyrite veinlets along 2m. of lower contact.										
<11.00-11.10>		Hematite chlorite calcite vein Veined vein 90°										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Hematite/calcite/chlorite vein at 90 degrees.										
		<11.40-11.45>MINERALIZATION- pyrite vein.										
		<11.40-11.45> pyrite vein or veinlet MINERALIZATION- pyrite vein.										
		<12.19-12.40> Hematite chlorite calcite vein Veined Hematite/calcite/chlorite vein.										
		<12.40-13.00> Broken Core Broken core.										
		<15.10-18.29> rubbly fault zone Green, gouge fault/gouge 0°:hematite stringers 45° Frs=70/m Zone has abundant gouge, local very limonitic.										
		<17.90-18.00> Semi-massive hematite Stockwork Intense HE stockwork Semi-massive, strong stockwork hematite.										
		(eoh)										

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-92

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-92	Date Completed:		Geotech by: MBW
LENGTH: 25.91	Core Diam: NQII		

Collar Location	
Latitude: 2047.97	
Departure: 1990.52	
Elevation: 1398.22	

S U M M A R Y		D O W N H O L E S U R V E Y S			
		Depth	Azim	Inclin	Method
0.00-2.65	volcaniclastics	0.00	262.00	-55.00	
2.65-12.40	Semi-massive hematite				
12.40-25.91	volcaniclastics *				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	2.65	volcaniclastics	48387	0.00-1.00	1.00	0.005		58.0	308.0		122.0	18.0
		Redish-green, heterolithic, stockwork	48388	1.00-2.00	1.00	0.010	0.20	38.0	244.0		86.0	22.0
		hematite stringers 35°:cleavage, foliation 45°	48389	2.00-2.65	0.65	0.025		30.0	87.0		55.0	12.0
		Frs=3/m :Vns =40/m										
		Moderate SI patches										
		Strong CL pervasive										
		Moderate KS pervasive										
		Strong HE stockwork										
		Strong QC microveins										
		Mottled green red, very strong calcite stockwork.										
2.65	12.40	Semi-massive hematite	48390	2.65-3.00	0.35	0.080		252.0	133.0	15.0	80.0	14.0
		Blackish-red, stockwork, stringers	48391	3.00-3.50	0.50	0.015		76.0	345.0		75.0	14.0
		hematite stringers 20°:Chlorite 45°	48392	3.50-4.00	0.50	2.810		123.0	111.0		115.0	20.0
		Frs=3/m :Vns =50/m	48393	4.00-4.50	0.50	0.320		156.0	164.0		102.0	30.0
		Moderate SI patches	48394	4.50-5.00	0.50	0.020		92.0	91.0		96.0	24.0
		Intense CL pervasive	48395	5.00-5.50	0.50	4.770		83.0	209.0		77.0	24.0
		Moderate MT microveins	48396	5.50-6.00	0.50	0.090		199.0	152.0	25.0	136.0	26.0
		Strong KS pervasive	48397	6.00-6.50	0.50	0.350		154.0	143.0	45.0	109.0	18.0
		Intense HE stockwork	48398	6.50-7.00	0.50	9.300		86.0	108.0	75.0	109.0	20.0
		Weak SE microveins	48399	7.00-7.50	0.50	2.540		106.0	70.0	35.0	127.0	16.0
		Moderate QC microveins	48400	7.50-8.00	0.50	2.750		175.0	109.0	65.0	181.0	24.0
		H zone of hematite stringers, calcite/chlorite	48401	8.00-8.50	0.50	5.540	3.80	209.0	3481.0	105.0	167.0	38.0
		veinlets, rare magnetite veinlets, traces chalcopyrite	48402	8.50-9.00	0.50	33.220	1.00	162.0	254.0	40.0	146.0	22.0
		with local pyrite intense K-spar alteration, intense	48403	9.00-9.50	0.50	0.225		83.0	90.0		95.0	26.0
		chlorite streaming.	48404	9.50-10.00	0.50	0.165		84.0	62.0		71.0	22.0
<2.65-2.70>		massive hematite										
		Veined										
		Massive hematite vein.										
<4.05-4.50>		Semi-massive hematite										
		Veined										
		Semi-massive hematite vein.										
<7.30-8.10>		Hematite chlorite calcite vein										
		Veined										
		Hematite/calcite/chlorite vein.										
<8.10-8.70>		Semi-massive hematite										
		Veined										
		Semi-massive hematite vein.										
12.40	25.91	volcaniclastics	48405	10.00-10.50	0.50	0.145	4.00	61.0	3119.0		61.0	18.0
		Redish-green, heterolithic, stockwork	48406	10.50-11.00	0.50	29.180	10.20	70.0	7092.0		63.0	18.0
		stockwork 30°:cleavage, foliation 45°	48407	11.00-11.50	0.50	0.105		51.0	531.0		61.0	20.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Frs=3/m :Vns =25/m	48408	11.50-12.40	0.90	0.380		38.0	227.0		54.0	134.0
		Moderate SI patches	48409	12.40-13.00	0.60	0.015		37.0	351.0		84.0	38.0
		Strong CL pervasive	48410	13.00-14.00	1.00	0.015		29.0	157.0		71.0	26.0
		Moderate KS pervasive	48411	14.00-15.00	1.00	0.020		38.0	285.0		74.0	22.0
		Moderate HE stockwork	48412	15.00-16.00	1.00	0.030		36.0	191.0		117.0	24.0
		Moderate PY disseminated	48413	16.00-17.00	1.00	0.170		36.0	341.0	10.0	113.0	38.0
		Strong QC microveins	48414	17.00-18.00	1.00	0.015		47.0	357.0	5.0	100.0	42.0
		Highly crackled with abundant calcite in fractures, mottled red arsenopyrite, wispy.	48415	18.00-19.00	1.00	1.440	0.40	39.0	421.0	10.0	68.0	12.0
			48416	19.00-20.00	1.00	0.005	1.00	21.0	850.0		91.0	40.0
<23.02-23.30>		Chlorite Streaming	48417	20.00-21.00	1.00	0.005	3.60	31.0	1940.0		84.0	12.0
		Brecciated, concretionary	48418	21.00-22.00	1.00	0.005		31.0	221.0		74.0	10.0
		Weak PY disseminated	48419	22.00-23.00	1.00	0.005		31.0	264.0		71.0	
		Coarse breccia with black chlorite between fractures, rusty in fractures.										
<25.90-25.91>		?? MT vein	48420	23.00-24.00	1.00	0.010		36.0	259.0	35.0	73.0	10.0
		MINERALIZATION- pyrite vein.	48421	24.00-25.00	1.00	0.005		34.0	202.0	25.0	84.0	10.0
<25.90-25.91>		pyrite vein or veinlet	48422	25.00-25.91	0.91	0.040		36.0	107.0	80.0	65.0	28.0
		Veined										
		MINERALIZATION- pyrite vein.										
(eoh)												

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-93

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-93	Date Completed:		Geotech by: MBW
LENGTH: 38.10	Core Diam: NQII		
Collar Location			
Latitude: 2048.04			
Departure: 1990.91			
Elevation: 1398.35			
S U M M A R Y			
		DOWN HOLE SURVEYS	
		Depth	Azim Incln Method
0.00-7.95	volcaniclastics	0.00	276.00 -63.00
7.95-20.60	Semi-massive hematite *****		
20.60-35.50	volcaniclastics		
35.50-38.10	ANDESITE		

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	7.95	volcaniclastics	48423	0.00-1.00	1.00	0.045		64.0	167.0		106.0	10.0
		Redish-green, wispy, stockwork	48424	1.00-2.00	1.00	0.005		45.0	181.0		96.0	2.0
		hematite vein 35°:cleavage, foliation 55°	48425	2.00-3.00	1.00	0.175		49.0	92.0		57.0	4.0
		Frs=6/m :Vns =30/m	48426	3.00-4.00	1.00	0.015		73.0	151.0		72.0	4.0
		Moderate SI patches	48427	4.00-5.00	1.00	0.005		21.0	815.0		39.0	2.0
		Strong CL vein	48428	5.00-6.00	1.00	0.010		26.0	473.0		49.0	
		Strong KS pervasive	48429	6.00-7.00	1.00	0.005		18.0	447.0		38.0	2.0
		Strong HE stockwork	48430	7.00-7.95	0.95	0.105		24.0	909.0		45.0	4.0
		Weak SE microveins										
		Strong QC microveins										
		Abundant narrow chlorite veinlets some associated with calcite veinlets, same as massive coarse grained green chlorite, some chlorite as patches, local strong K-spar alteration, mottled, veined, stringers.										
<2.10-2.20>		Hematite chlorite calcite vein										
		Veined										
		Intense CL vein										
		Strong HE vein										
		Intense QC vein										
		Hematite/calcite/chlorite vein. Coarse patches of green chlorite along vein.										
7.95	20.60	Semi-massive hematite	48431	7.95-8.40	0.45	0.630		102.0	108.0	25.0	66.0	8.0
		Fine grained, blackish-red, veined, wispy	48432	8.40-9.00	0.60	6.240		103.0	155.0	20.0	59.0	12.0
		hematite vein 35°:cleavage, foliation 55°	48433	9.00-9.50	0.50	4.370		159.0	335.0		76.0	8.0
		Frs=7/m :Vns =55/m	48434	9.50-10.00	0.50	2.650	1.00	137.0	2668.0		91.0	6.0
		Strong SI patches	48435	10.00-10.50	0.50	0.010	0.60	66.0	2182.0		104.0	4.0
		Intense CL pervasive	48436	10.50-11.00	0.50	0.005	0.60	63.0	1675.0		138.0	6.0
		Moderate MT patches	48437	11.00-11.50	0.50	0.025	2.60	89.0	4525.0		151.0	4.0
		Strong KS pervasive	48438	11.50-12.00	0.50	0.055	6.00	65.0	8231.0		121.0	4.0
		Intense HE stockwork	48439	12.00-12.50	0.50	0.005	7.80	82.0			185.0	
		Strong SE microveins	48440	12.50-13.00	0.50	0.015		269.0	285.0	55.0	364.0	10.0
		Strong QC microveins	48441	13.00-13.50	0.50	3.640	5.80	431.0	7689.0	315.0	358.0	6.0
		H zone, veins of massive hematite in a highly chloritized zone, strong calcite/chlorite veining,	48442	13.50-14.00	0.50	27.080	7.00	582.0	6954.0	410.0	426.0	6.0
		veins of K-spar alteration, highly fractured giving	48443	14.00-14.82	0.82	0.305		486.0	387.0	280.0	263.0	
		boxwork texture, stringers, stockwork. MINERALIZATION-	48444	14.82-15.28	0.46	123.000	5.60	103.0	520.0	85.0	88.0	34.0
		3% magnetite.	48445	15.28-16.00	0.72	0.225		155.0	456.0	25.0	158.0	
			48446	16.00-16.50	0.50	0.125	0.40	98.0	2233.0		175.0	34.0
<7.95-20.60>		MINERALIZATION- 3% magnetite.	48447	16.50-17.00	0.50	2.180	4.20	75.0		10.0	121.0	46.0
<8.50-8.70>		Semi-massive hematite										
		Veined										
		hematite vein 30°										
		Moderate MT patches										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm	
		Intense HE vein Weak SE microveins Semi-massive hematite vein at 30 degrees, moderate to strong patchy magnetite, weak to moderate specularite microvein.											
<12.40-13.30>		hematite specularite vein Fine grained, redish-white, veined, mottled Intense SI pervasive Strong CL pervasive Weak MT patches Intense KS pervasive Moderate HE stockwork Strong SE microveins Strong QV vein Highly silicified, mottled with quartz/calcite/specularite veinlets to 10% of section. MINERALIZATION- 5% specularite, fine grained visible gold.											
<14.82-15.28>		% Visible gold - fine grained MINERALIZATION- 5% specularite, fine grained visible gold.											
<18.95-19.50>		MINERALIZATION- 4% pyrite.	48448	17.00-17.50	0.50	2.710		64.0	496.0		92.0	2.0	
<18.95-19.50>		Hematite chlorite calcite vein Fine grained, redish-green, veined, stringers hematite vein 45° Strong SI patches Intense CL pervasive Intense KS pervasive Strong HE stockwork Moderate PY blebs Weak QC microveins Strong chlorite streaming, coarse pyrite as blebs. MINERALIZATION- 4% pyrite.	48449 48450 48451 48452	17.50-18.00 18.00-18.50 18.50-19.00 19.00-19.50	0.50 0.50 0.50 0.50	0.045 0.075 0.105 11.160		58.0 154.0 1088.0 245.0	1673.0 1782.0 676.0 391.0		70.0 155.0 1100.0 300.0	99.0 155.0 430.0 431.0	4.0 10.0 6.0 16.0
<19.50-19.90>		MINERALIZATION- 40% pyrite.											
<19.50-19.90>		sulphide-hematite vein Medium grained, greenish-yellow, veined Weak SI patches Intense CL pervasive Weak MT patches Weak KS pervasive Strong HE blebs											

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Intense PY blebs Weak QC microveins Coarse blebs of pyrite in totally chlorite altered zone. MINERALIZATION- 40% pyrite.										
		<19.90-20.60>MINERALIZATION- 7% pyrite.	48453	19.50-20.00	0.50	8.510	2.00	180.0	1267.0	1730.0	363.0	66.0
		<19.90-20.60> Semi-massive hematite Fine grained, redish-white, veined, mottled Intense SI pervasive Strong CL pervasive Intense HE stockwork Weak SE microveins Moderate PY patches Strong QC microveins Mottled red white, highly silicified, brecciated with patches of coarse pyrite. MINERALIZATION- 7% pyrite.	48454	20.00-20.60	0.60	12.490	3.20	156.0	622.0	200.0	186.0	42.0
20.60	35.50	volcaniclastics	48455	20.60-21.00	0.40	0.125	0.60	119.0	1586.0	125.0	282.0	28.0
		Fine grained, redish-green, heterolithic, stockwork	48456	21.00-22.00	1.00	2.440	0.60	86.0	888.0	100.0	72.0	92.0
		hematite stringers 35°:cleavage, foliation 55°	48457	22.00-23.00	1.00	0.240	0.60	79.0	2336.0	85.0	51.0	8.0
		Frs=9/m :Vns =30/m	48458	23.00-24.00	1.00	1.210		46.0	711.0	5.0	53.0	4.0
		Moderate SI patches	48459	24.00-25.00	1.00	0.080	2.20	33.0	3456.0		48.0	6.0
		Strong CL pervasive	48460	25.00-26.00	1.00	0.480		42.0	858.0		48.0	6.0
		Moderate KS pervasive	48461	26.00-27.00	1.00	0.005		31.0	225.0		41.0	12.0
		Moderate HE stockwork	48462	27.00-28.00	1.00	8.730	0.60	85.0	338.0	55.0	185.0	10.0
		Moderate PY blebs	48463	28.00-29.00	1.00	0.010	0.40	30.0	627.0		82.0	8.0
		Moderate QC microveins	48464	29.00-30.00	1.00	0.010		28.0	507.0		58.0	6.0
		Variably hematite altered, local strong chlorite streaming, occasional patches of bleb pyrite, occasional pink calcite veinlets. Wispy, veined, brecciated, mottled textures.	48465	30.00-31.00	1.00	1.300		31.0	154.0	10.0	52.0	14.0
			48466	31.00-32.00	1.00	0.155		24.0	159.0		52.0	6.0
		<22.90-24.00> Chlorite Streaming Laminated, veined hematite stringers 35°:cleavage, foliation 55° Moderate SI patches Intense CL pervasive Strong HE stockwork Moderate PY blebs										
		<27.35-27.60> Semi-massive hematite Fine grained, redish-white, veined hematite stringers 30° Intense SI patches Intense CL pervasive Intense HE stockwork										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak QC microveins Strongly silicified K-spar altered with hematite veinlets.										
35.50	38.10	ANDESITE Fine grained, green, porphyritic cleavage, foliation 35° Frs=2/m Weak QC microveins Medium grained subhedral and anhedral phenocrysts in a fine grained groundmass, feldspar about 25%, contact with HFBx is at 15 degrees, minor recrystallization, contact growth of small feldspar phenos.										
(eoh)												

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-94

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-94	Date Completed:		Geotech by: MBW
LENGTH: 65.84	Core Diam: NQII		

Collar Location	
Latitude: 2048.03	
Departure: 1991.25	
Elevation: 1398.37	

S U M M A R Y		DOWN HOLE SURVEYS			
		Depth	Azim	Inclin	Method
0.00-32.75	volcaniclastics	0.00	256.00	-75.00	
32.75-43.87	ANDESITE				
43.87-50.60	volcaniclastics				
50.60-56.16	Semi-massive hematite				
56.16-61.10	ANDESITE				
61.10-61.60	volcaniclastics				
61.60-61.75	ANDESITE				
61.75-65.84	volcaniclastics				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	32.75	volcaniclastics	48467	0.00-1.00	1.00	0.010		10.0	19.0		40.0	6.0
		Fine grained, redish-green, stockwork, heterolithic	48468	1.00-2.00	1.00	0.005		10.0	78.0		54.0	10.0
		hematite vein 45°:cleavage, foliation 45°	48469	2.00-3.00	1.00	0.005		10.0	44.0		44.0	8.0
		Frs=8/m :Vns =30/m	48470	3.00-4.00	1.00	0.005		10.0	17.0		44.0	8.0
		Moderate SI patches	48471	4.00-5.00	1.00	0.050		24.0	70.0	5.0	88.0	6.0
		Strong CL pervasive	48472	5.00-6.00	1.00	0.005		13.0	116.0	10.0	90.0	6.0
		Strong KS pervasive	48473	6.00-7.00	1.00	0.005		11.0	120.0		92.0	6.0
		Strong HE stockwork	48474	7.00-8.00	1.00	0.005		11.0	152.0		66.0	8.0
		Moderate PY disseminated	48475	8.00-9.00	1.00	0.015		11.0	22.0		60.0	10.0
		Strong QC microveins	48476	9.00-10.00	1.00	0.005		15.0	13.0		73.0	6.0
		Variably hematite and chlorite altered, generally	48477	10.00-11.00	1.00	0.005		26.0	34.0		95.0	6.0
		strong calcite stockwork in several areas. Mottled,	48478	11.00-12.00	1.00	0.005		14.0	38.0		92.0	8.0
		wispy textures.	48479	12.00-13.00	1.00	0.005		10.0	71.0		93.0	8.0
<4.30-4.35>		Hematite chlorite calcite vein										
		vein 55°										
		Strong CL vein										
		Hematite/calcite/chlorite vein at 55 degrees, moderate										
		to strong chlorite.										
<4.90-4.95>		vein 30°										
		Strong CL vein										
		Highly weathered along vein, abundant limonite.										
<6.35-6.46>		Broken Core										
		Broken core.										
<13.20-13.41>		Broken core.										
32.75	43.87	ANDESITE	48480	13.00-14.00	1.00	0.010		13.0	17.0		133.0	6.0
		Porphyritic	48481	14.00-15.00	1.00	0.005		15.0	77.0		73.0	6.0
		Weak QC microveins	48482	15.00-16.00	1.00	0.865		23.0	477.0		109.0	6.0
		Same description as CL96-93, upper contact broken and	48483	16.00-17.00	1.00	0.010		19.0	49.0		89.0	6.0
		rusty at bottom contact shows chill margin.	48484	17.00-18.00	1.00	0.020		10.0	43.0		42.0	4.0
43.87	50.60	volcaniclastics	48485	18.00-19.00	1.00	0.005		12.0	123.0		35.0	6.0
		Fine grained, redish-green, heterolithic, stockwork	48486	19.00-20.00	1.00	0.010		12.0	50.0		25.0	6.0
		hematite stringers 20°:cleavage, foliation 45°	48487	20.00-21.00	1.00	0.065		29.0	106.0		50.0	8.0
		Frs=15/m :Vns =35/m	48488	21.00-22.00	1.00	0.010		26.0	96.0		35.0	6.0
		Moderate SI patches	48489	22.00-23.00	1.00	0.120		27.0	99.0		42.0	12.0
		Strong CL pervasive	48490	23.00-24.00	1.00	0.100		28.0	81.0		52.0	
		Moderate KS pervasive	48491	24.00-25.00	1.00	0.010		32.0	172.0		53.0	4.0
		Moderate PY patches	48492	25.00-26.00	1.00	0.005		28.0	74.0		51.0	
		Strong QC microveins	48493	26.00-27.00	1.00	0.325		36.0	136.0		72.0	
		Abundant recrystallization, highly fractured with	48494	27.00-28.00	1.00	0.415		46.0	131.0		45.0	2.0
		calcite along fractures. Mottled, veined textures.	48495	28.00-29.00	1.00	0.005		33.0	1043.0		32.0	4.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<44.20-44.35>		Hematite/pyrite/calcite vein vein 45° Strong PY patches Intense QC vein Hematite/pyrite/calcite vein at 45 degrees, moderate to strong patchy pyrite, moderate to strong quartz/calcite vein.	48496	29.00-30.00	1.00	0.010		31.0	115.0		39.0	4.0
			48497	30.00-31.00	1.00	0.010		32.0	337.0		45.0	4.0
			48498	31.00-32.00	1.00	0.005		34.0	1164.0		58.0	4.0
			48499	32.00-33.00	1.00	0.005	0.60	39.0	1396.0		100.0	4.0
			48500	33.00-34.00	1.00	0.165	0.80	60.0	973.0	10.0	282.0	10.0
50.60	56.16	Semi-massive hematite Blackish-red, veined hematite stringers 45°:cleavage, foliation 0° Frs=7/m :Vns =50/m Moderate SI patches Strong CL pervasive Strong KS pervasive Intense HE stockwork Moderate QC microveins H zone, strong hematite/chlorite alteration, narrow massive hematite veins at 52.48 to 52.50m.	48501	43.87-45.00	1.13	0.005		40.0	144.0	10.0	41.0	4.0
			48502	45.00-46.00	1.00	0.005		36.0	104.0	15.0	49.0	8.0
			48503	46.00-47.00	1.00	0.010		44.0	149.0	20.0	47.0	10.0
			48504	47.00-48.00	1.00	0.005		39.0	175.0		40.0	14.0
			48505	48.00-49.00	1.00	0.005		26.0	134.0		39.0	2.0
			48506	49.00-50.00	1.00	0.010		27.0	62.0	15.0	59.0	
			48507	50.00-50.60	0.60	0.025		62.0	943.0	10.0	87.0	
			48508	50.60-51.00	0.40	3.070		166.0	788.0	85.0	104.0	
			48509	51.00-51.50	0.50	0.740		356.0	243.0	295.0	117.0	
			48510	51.50-52.00	0.50	0.295		130.0	208.0	30.0	124.0	
48511	52.00-52.50	0.50	0.305		191.0	132.0	110.0	168.0				
<55.24-55.80>		massive hematite Blackish-red, veined hematite stringers 45°:cleavage, foliation 0° Intense HE stockwork Highly broken.	48512	52.50-53.00	0.50	2.790		382.0	142.0	345.0	167.0	
			48513	53.00-53.50	0.50	0.110		323.0	60.0	210.0	180.0	
			48514	53.50-54.00	0.50	0.115	1.40	276.0	607.0	155.0	152.0	
			48515	54.00-54.50	0.50	0.095		71.0	296.0		100.0	
			48516	54.50-55.24	0.74	1.340		295.0	174.0	200.0	150.0	
56.16	61.10	ANDESITE Porphyritic cleavage, foliation 0° Moderate QC microveins	48517	55.24-55.80	0.56	2.040	0.80	102.0	361.0	10.0	200.0	2.0
			48518	55.80-56.16	0.36	0.580		91.0	114.0	10.0	162.0	2.0
61.10	61.60	volcaniclastics Fine grained, reddish-green, mottled, wispy Moderate SI patches Strong CL pervasive Strong KS pervasive Moderate HE stockwork Weak QC microveins Highly chloritic.										
61.60	61.75	ANDESITE Porphyritic Weak QC microveins										
61.75	65.84	volcaniclastics Fine grained, green, laminated, mottled										

HOLE: CL96-94

HOMESTAKE MINING COMPANY - Clone

PAGE 3 of 3

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Chlorite 45°:cleavage, foliation 35° Frs=9/m Moderate SI patches Intense CL pervasive Moderate KS pervasive Weak HE microveins Weak PY disseminated Strongly chloritic, minor diabase stringer at 64.05m. MINERALIZATION- 1% fine grained pyrite.										
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-95

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-95	Date Completed:		Geotech by: MBW
LENGTH: 105.46	Core Diam: NQII		

Collar Location	
Latitude: 2048.05	
Departure: 1991.49	
Elevation: 1398.31	

SUMMARY		DOWN HOLE SURVEYS			
		Depth	Azim	Inclin	Method
0.00-33.75	volcaniclastics	0.00	249.00	-85.00	
33.75-45.05	ANDESITE				
45.05-60.27	volcaniclastics				
60.27-63.00	ANDESITE				
63.00-81.50	volcaniclastics				
81.50-90.00	tuff *				
90.00-91.90	sulphide-hematite vein *				
91.90-105.46	volcaniclastics **				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	33.75	volcaniclastics Fine grained, reddish-green, wispy, stockwork cleavage, foliation 5°:cleavage, foliation 45° Frs=8/m :Vns =20/m Moderate SI patches Strong CL pervasive Strong KS pervasive Moderate HE stockwork Moderate QC microveins Mottled red green, locally indication, a pseudo breccia, wispy chlorite and hematite at 5 to 10 degrees to core axis, generally weak calcite stockwork. Heterolithic, mottled textures.										
	<10.01-10.05>	Hematite chlorite calcite vein Banded green white hematite/calcite/chlorite vein.										
33.75	45.05	ANDESITE Gray, porphyritic cleavage, foliation 10° Frs=2/m Weak QC microveins Same as diabase dyke in CL96-94, 35.50 to 38.10m.										
	<44.50-45.00>	Broken Core Broken core.										
45.05	60.27	volcaniclastics Fine grained, reddish-green, stockwork, heterolithic cleavage, foliation 45°:hematite stringers 10° Frs=8/m :Vns =10/m Strong SI patches Strong CL pervasive Strong KS pervasive Moderate HE stockwork Moderate PY disseminated Moderate QC microveins Generally patchy hematite alteration, as well as patchy chlorite alteration, present as fine grained wispy stringers, rock appears strongly K-spar altered. Mottled texture.										
	<60.00-60.15>	rubbly fault zone Gouge										
60.27	63.00	ANDESITE										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Fine grained, gray, fragmental Frs=2/m Gray, dense.										
	<61.00-61.70>	Broken Core Broken core.										
63.00	81.50	volcaniclastics Fine grained, green, heterolithic, stockwork cleavage, foliation 90°:cleavage, foliation 10° Frs=12/m :Vns =5/m Strong SI patches Strong CL pervasive Strong KS pervasive Moderate HE stockwork Weak PY disseminated Moderate QC microveins Strongly K-spar altered, local weal hematite alteration, some fine calcite/chlorite veinlets at 50 degrees to core axis.										
	<63.50-64.70>	Broken Core Highly broken, limonite on fractures.										
	<65.40-74.00>	volcaniclastics Fine grained, gray, vuggy Frs=15/m Highly fractures, abundant vugs, limonite along fractures and vugs.										
	<76.20-81.50>	Fine grained, redish-tan, wispy Strong SI patches Moderate CL pervasive Intense KS pervasive Weak PY disseminated Moderate QC microveins Strongly fractured, altered with minor calcite/chlorite veinlets.										
81.50	90.00	tuff Medium grained, green, clastic, laminated cleavage, foliation 45°:vein 15° Frs=9/m Weak SI patches Strong CL pervasive Weak KS pervasive Weak HE stockwork	48519 48520 48521 48522 48523 48524 48525 48526	81.50-82.00 82.00-83.00 83.00-84.00 84.00-85.00 85.00-86.00 86.00-87.00 87.00-88.00 88.00-89.00	0.50 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.010 0.035 0.965 0.300 0.005 0.020 0.080 0.165		7.0 18.0 105.0 137.0 29.0 19.0 33.0 48.0	8.0 87.0 331.0 205.0 100.0 146.0 121.0 207.0	30.0 25.0 105.0 145.0 25.0 20.0 35.0 60.0	138.0 55.0 64.0 76.0 47.0 40.0 39.0 124.0	4.0 12.0 4.0 4.0 8.0 6.0 4.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate PY disseminated Moderate QC microveins Large generally rounded clasts in a chlorite rich groundmass, minor hematite, many chlorite eispy stringers. MINERALIZATION- 1% pyrite both disseminated and along ?? fractures.	48527	89.00-90.00	1.00	0.105		125.0	246.0	225.0	88.0	
		<81.50-90.00>MINERALIZATION- 1% pyrite both disseminated and along ?? fractures.										
		<82.10-82.15> shear zone Chlorite rusty.										
90.00	91.90	sulphide-hematite vein Redish-yellow, massive vein 10°:fracturing 15° Frs=8/m Strong SI patches Intense CL pervasive Intense MT vein Intense HE vein Intense PY vein Massive sulphide/hematite zone with late fractures filled with marcasite (bright yellow crystalline). MINERALIZATION- 30% pyrite, 20% arsenopyrite, 10% magnetite, 2% marcasite.	48528	90.00-91.00	1.00	19.620	4.20	1915.0	5772.0		80.0	38.0
		<90.00-91.90>MINERALIZATION- 30% pyrite, 20% arsenopyrite, 10% magnetite, 2% marcasite.										
91.90	105.46	volcaniclastics Fine grained, green, heterolithic cleavage, foliation 45°:cleavage, foliation 15° Frs=9/m Moderate SI patches Strong CL pervasive Moderate KS pervasive Strong PY vein Moderate QC microveins	48529	91.00-92.00	1.00	19.240	3.80	2439.0	6663.0		80.0	20.0
			48530	92.00-93.00	1.00	6.340	4.60	767.0	4452.0	3990.0	59.0	16.0
			48531	93.00-94.00	1.00	0.070	0.40	96.0	123.0	170.0	43.0	2.0
			48532	94.00-95.00	1.00	0.295	0.40	371.0	228.0	1445.0	61.0	4.0
			48533	95.00-96.00	1.00	3.870	3.40	566.0	1165.0	6180.0	46.0	14.0
			48534	96.00-97.00	1.00	0.090		16.0	107.0	50.0	33.0	6.0
			48535	97.00-98.00	1.00	0.160	0.60	55.0	161.0	85.0	52.0	24.0
		<92.71-92.93>MINERALIZATION- 60% pyrite, 5% arsenopyrite, 5% magnetite.										
		<92.71-92.93> sulphide-hematite vein Fine grained, yellowish-red, massive Strong SI patches Moderate MT patches										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong HE vein Intense PY vein Massive sulphide/hematite vein. MINERALIZATION- 60% pyrite, 5% arsenopyrite, 5% magnetite.										
		<95.05-95.52>MINERALIZATION- 70% pyrite, 5% arsenopyrite.										
		<95.05-95.52> sulphide-hematite vein Fine grained, yellowish-red, veined vein 15° Weak SI patches Moderate HE patches Intense PY vein Weak QC microveins MINERALIZATION- 70% pyrite, 5% arsenopyrite.										
		<97.80-97.95> Hematite chlorite calcite vein Fine grained, whiteish-green, veined Intense CL vein White green Hematite/calcite/chlorite vein.										
		(eoh)										

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-96

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-96	Date Completed:		Geotech by: MBW
LENGTH: 71.93	Core Diam: NQII		

Collar Location	
Latitude: 1908.22	
Departure: 1941.15	
Elevation: 1347.42	

S U M M A R Y		DOWN HOLE SURVEYS			
		Depth	Azim	Inclin	Method
0.00-71.93	volcaniclastics *****	0.00	240.00	-44.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	71.93	volcaniclastics	48536	1.00-2.00	1.00	0.135	0.40	22.0	40.0	155.0	67.0	20.0
		Green, fragmental, veined	48537	2.00-3.00	1.00	0.655	1.40	58.0	101.0	845.0	92.0	28.0
		cleavage, foliation 45°:foliated 45°	48538	3.00-4.00	1.00	0.715		14.0	26.0	25.0	86.0	20.0
		Frs=8/m :Vns =9/m	48539	4.00-5.00	1.00	0.060		13.0	20.0	30.0	66.0	12.0
		Moderate SI patches	48540	5.00-6.00	1.00	0.125	1.20	22.0	114.0	85.0	70.0	20.0
		Moderate CL pervasive	48541	6.00-7.00	1.00	0.130	1.00	25.0	186.0	125.0	63.0	18.0
		Moderate MS pervasive	48542	7.00-8.00	1.00	0.280	0.80	27.0	247.0	140.0	75.0	20.0
		Strong KS pervasive	48543	8.00-9.00	1.00	0.445	0.80	115.0	270.0	1270.0	60.0	22.0
		Moderate PY vein	48544	9.00-10.00	1.00	0.170	0.80	86.0	189.0	775.0	93.0	22.0
		Moderate QC microveins	48545	10.00-11.00	1.00	0.025	0.40	17.0	110.0	75.0	46.0	16.0
		Variably sericite altered, moderate calcite veinlets,	48546	11.00-12.00	1.00	0.020	0.60	18.0	156.0	5.0	54.0	16.0
		stockwork, poorly sirted with fragments ranging from	48547	12.00-13.00	1.00	0.165	0.40	31.0	147.0	325.0	75.0	18.0
		2cm. down to fine sand size. MINERALIZATION- 2%	48548	13.00-14.00	1.00	0.010		31.0	123.0	60.0	51.0	18.0
		pyrite.	48549	14.00-15.00	1.00	0.015		24.0	106.0	45.0	50.0	18.0
<0.00-71.93>		.2% arsenopyrite - local	48550	15.00-16.00	1.00	0.140	0.60	19.0	186.0	90.0	141.0	26.0
		MINERALIZATION- 2% pyrite, sparse local arsenopyrite.	48551	16.00-17.00	1.00	0.900	0.40	12.0	127.0	25.0	46.0	28.0
<8.50-8.60>		MINERALIZATION- 7% pyrite.										
<8.50-8.60>		volcaniclastics										
		Veined										
		Moderate PY wispy										
		Narrow pyrite rich stringer zone. MINERALIZATION- 7%										
		pyrite.										
<15.00-16.80>		MINERALIZATION- 7% pyrite.										
<15.00-16.80>		volcaniclastics										
		Veined										
		Moderate PY stringer										
		Narrow pyrite stringer bearing zone. MINERALIZATION-										
		7% pyrite.										
<17.00-20.00>		Intense MT disseminated	48552	17.00-18.00	1.00	0.080		14.0	88.0	450.0	45.0	18.0
		MINERALIZATION- 5% pyrite as veinlets less	48553	18.00-19.00	1.00	0.015		18.0	42.0	15.0	44.0	26.0
		disseminated grains and veinlets.	48554	19.00-20.00	1.00	0.020		18.0	67.0	15.0	42.0	24.0
<17.00-20.00>		volcaniclastics										
		Veined										
		vein 45°:vein 80°										
		Frs=6/m										
		Moderate PY vein										
		Sparse quartz/pyrite veinlets less than 1cm. in width.										
		MINERALIZATION- 5% pyrite as disseminated grains and										
		veinlets.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<20.80-21.00>		Broken Core Highly broken, limonite on fractures.	48555	20.00-21.00	1.00	0.060		16.0	59.0	250.0	50.0	24.0
<23.50-26.00>		MINERALIZATION- 3% pyrite.	48556	21.00-22.00	1.00	0.055	0.40	28.0	104.0	905.0	52.0	28.0
<23.50-26.00>		volcaniclastics	48557	22.00-23.00	1.00	0.090		35.0	80.0	215.0	43.0	22.0
		Moderate CL wispy	48558	23.00-24.00	1.00	3.580	2.60	760.0	187.0	8945.0	70.0	76.0
		Moderate PY microveins	48559	24.00-25.00	1.00	0.710	0.60	71.0	116.0	925.0	59.0	28.0
		Wispy black chlorite stringers, locally silicified, fine grained pyrite veinlets along chlorite. MINERALIZATION- 3% pyrite.	48560	25.00-26.00	1.00	0.570	0.20	23.0	129.0	100.0	59.0	26.0
<38.40-38.50>		Broken Core	48561	26.00-27.00	1.00	0.720		31.0	178.0	120.0	60.0	28.0
		Broken core.	48562	27.00-28.00	1.00	0.130		27.0	112.0	155.0	43.0	22.0
<44.30-44.40>		Broken core.	48563	28.00-29.00	1.00	0.095		25.0	78.0	110.0	32.0	22.0
<45.50-49.50>		Moderate KS microveins	48564	29.00-30.00	1.00	0.025		25.0	69.0	190.0	39.0	26.0
		Moderate QV microveins	48565	30.00-31.00	1.00	0.050		29.0	97.0	645.0	45.0	24.0
		Strong epidote veinlets and quartz to 5mm.	48566	31.00-32.00	1.00	0.040		31.0	139.0	90.0	53.0	26.0
<49.00-49.30>		Broken Core										
		Broken core.										
<52.90-54.70>		MINERALIZATION- 3% pyrite, 1% arsenopyrite, 0.2% chalcopyrite.	48567	49.00-50.00	1.00	0.025		27.0	61.0	35.0	45.0	24.0
			48568	50.00-51.00	1.00	0.035		30.0	105.0	35.0	43.0	22.0
<52.90-54.70>		Quartz/chlorite vein	48569	51.00-52.00	1.00	0.020		21.0	92.0	15.0	43.0	18.0
		Fine grained, whiteish-green, foliated vein 45°	48570	52.00-53.00	1.00	0.210		51.0	138.0	395.0	60.0	32.0
		Frs=3/m :Vns =8/m Intense SI pervasive Intense CL pervasive Strong KS pervasive Moderate PY patches Intense QV vein Black chlorite wisps and veinlets in green to white silicified zone, minor coarse blebs of arsenopyrite, trace chalcopyrite, minor fracture filled pyrite. MINERALIZATION- 3% pyrite, 1% arsenopyrite, 0.2% chalcopyrite.	48571	53.00-54.00	1.00	0.050		38.0	35.0	220.0	55.0	18.0
<52.94-52.96>		MINERALIZATION- 30% pyrite, 10% arsenopyrite.										
<52.94-52.96>		pyrite vein or veinlet Veined										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Narrow vein with pyrite, arsenopyrite. MINERALIZATION- 30% pyrite, 10% arsenopyrite.										
<55.50-57.00>		Limonite on fractures.	48572	54.00-55.00	1.00	0.045		57.0	92.0	440.0	55.0	18.0
<57.20-57.30>		MINERALIZATION- 50% pyrite, 5% arsenopyrite.	48573	55.00-56.00	1.00	0.010		25.0	26.0	35.0	35.0	16.0
<57.20-57.30>		pyrite vein or veinlet Veined Strong PY microveins 3 to 4 fine grained pyrite/arsenopyrite veinlets forming 50% of interval. MINERALIZATION- 50% pyrite, 5% arsenopyrite.	48574	56.00-57.00	1.00	0.030		28.0	75.0	50.0	42.0	18.0
<67.30-67.50>		calcite vein	48575	57.00-58.00	1.00	2.460	0.40	68.0	176.0	650.0	40.0	22.0
		Veined, vuggy	48576	58.00-59.00	1.00	0.115		23.0	52.0	60.0	39.0	22.0
		Intense CV vein	48577	59.00-60.00	1.00	0.800		48.0	145.0	60.0	36.0	20.0
		Vuggy.	48578	60.00-61.00	1.00	0.045	0.40	22.0	66.0	20.0	59.0	20.0
<67.50-71.50>		volcaniclastics	48579	61.00-62.00	1.00	0.030		24.0	78.0	20.0	37.0	20.0
		Vuggy	48580	62.00-63.00	1.00	0.025		26.0	81.0	15.0	43.0	22.0
		Limonite on fractures.	48581	63.00-64.00	1.00	0.020		28.0	91.0	10.0	45.0	24.0
<70.00-70.10>		calcite vein	48582	64.00-65.00	1.00	0.030		35.0	140.0	10.0	48.0	24.0
		Veined	48583	65.00-66.00	1.00	0.025		28.0	56.0	5.0	53.0	22.0
		Intense CV laminations	48584	66.00-67.00	1.00	0.005		28.0	82.0	5.0	49.0	22.0
		Calcite vein.										
(eoh)												

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-97

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-97	Date Completed:		
LENGTH: 76.20	Core Diam: NQII		

Collar Location	
Latitude: 1908.40	
Departure: 1941.45	
Elevation: 1347.40	

S U M M A R Y		D O W N H O L E S U R V E Y S			
		Depth	Azim	Inclin	Method
0.00-13.20	volcaniclastics *	0.00	240.00	-54.00	
13.20-15.03	mudstone				
15.03-47.10	volcaniclastics *				
47.10-67.50	Pyroxene porphyry				
67.50-76.26	volcaniclastics				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	13.20	volcaniclastics	48585	1.00-2.00	1.00	0.010		11.0	3.0	75.0	56.0	16.0
		Green, fragmental, mottled	48586	2.00-3.00	1.00	0.125		13.0	17.0	75.0	62.0	26.0
		cleavage, foliation 35°:cleavage, foliation 70°	48587	3.00-4.00	1.00	0.125	0.40	21.0	35.0	185.0	77.0	24.0
		Frs=5/m :Vns =6/m	48588	4.00-5.00	1.00	0.270	0.40	29.0	38.0	180.0	71.0	22.0
		Strong SI patches	48589	5.00-6.00	1.00	0.005		14.0	6.0	15.0	69.0	16.0
		Moderate CL pervasive	48590	6.00-7.00	1.00	0.225	0.40	16.0	24.0	55.0	68.0	18.0
		Moderate MS pervasive	48591	7.00-8.00	1.00	0.140	0.60	29.0	80.0	210.0	63.0	20.0
		Strong KS pervasive	48592	8.00-9.00	1.00	0.175	0.40	28.0	77.0	825.0	46.0	18.0
		Weak PY disseminated	48593	9.00-10.00	1.00	0.080	0.40	22.0	118.0	155.0	42.0	22.0
		Moderate QV vein	48594	10.00-11.00	1.00	0.995	1.00	209.0	135.0	2175.0	84.0	26.0
		Moderate QC microveins	48595	11.00-12.00	1.00	0.280	0.40	64.0	125.0	430.0	102.0	40.0
		Poorly sorted volcanic breccia, fragments range in size from 4cm. to fine grained minor wispy black chlorite. MINERALIZATION- 1 to 2% disseminated pyrite, 0.5% minor blebs arsenopyrite at 11.90m.	48596	12.00-13.00	1.00	0.060	0.60	24.0	119.0	120.0	96.0	22.0
<0.00-13.20>		Trace MT disseminated .5% arsenopyrite - blebs MINERALIZATION- 1 to 2% disseminated pyrite, 0.5% minor bleb arsenopyrite at 11.90m.										
13.20	15.03	mudstone										
		Black, bedded										
		bedding 35°										
		Weak PY disseminated										
		Weak QC microveins										
		Thinly bedded with individual bedding 1 to 2cm., limonitic along fractures, minor graphite.										
15.03	47.10	volcaniclastics	48597	15.00-16.00	1.00	0.050		29.0	111.0	40.0	67.0	28.0
		Green, fragmental, mottled	48598	16.00-17.00	1.00	0.020		27.0	61.0	30.0	72.0	28.0
		cleavage, foliation 15°:cleavage, foliation 65°	48599	17.00-18.00	1.00	0.020		28.0	100.0	80.0	58.0	30.0
		Frs=5/m :Vns =6/m	48600	18.00-19.00	1.00	0.015		26.0	69.0	65.0	58.0	28.0
		Strong SI patches	48601	19.00-20.00	1.00	0.015		25.0	47.0	125.0	53.0	28.0
		Moderate CL pervasive	48602	20.00-21.00	1.00	0.045		14.0	108.0	90.0	38.0	20.0
		Moderate MS pervasive	48603	21.00-22.00	1.00	0.050		28.0	121.0	405.0	45.0	28.0
		Strong KS pervasive	48604	22.00-23.00	1.00	0.015		23.0	107.0	45.0	46.0	30.0
		Moderate PY wispy	48605	23.00-24.00	1.00	0.045		23.0	60.0	20.0	35.0	6.0
		Moderate QC microveins	48606	24.00-25.00	1.00	0.370	1.80	26.0	292.0	250.0	54.0	46.0
		Strongly crackled with calcite filling along fractures, local sparse wispy pyrite, local limonite on fractures.	48607	25.00-26.00	1.00	0.025		20.0	81.0	30.0	58.0	20.0
			48608	26.00-27.00	1.00	0.010	0.60	25.0	196.0	105.0	58.0	22.0
			48609	27.00-28.00	1.00	0.055	0.40	23.0	134.0	95.0	55.0	20.0
<25.55-25.60>		calcite vein Veined Intense CV vein										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Calcite vein.										
		<33.40-37.00>MINERALIZATION- 5% pyrite.	48610	28.00-29.00	1.00	0.040		25.0	167.0	60.0	32.0	10.0
		<33.40-37.00> volcaniclastics	48611	29.00-30.00	1.00	0.115		30.0	181.0	110.0	29.0	14.0
		Wispy, mottled	48612	30.00-31.00	1.00	0.080		26.0	129.0	180.0	34.0	12.0
		Strong PY wispy	48613	31.00-32.00	1.00	0.045		30.0	93.0	545.0	29.0	12.0
		Intense QV microveins	48614	32.00-33.00	1.00	0.080		27.0	146.0	155.0	28.0	10.0
		Strong calcite veining black chlorite as wisps with	48615	33.00-34.00	1.00	0.060		25.0	90.0	55.0	35.0	10.0
		local abundant pyrite. MINERALIZATION- 5% pyrite.	48616	34.00-35.00	1.00	0.045		23.0	68.0	80.0	35.0	10.0
		<35.36-38.44> Broken Core	48617	35.00-36.00	1.00	0.060		23.0	71.0	110.0	43.0	12.0
		Gouge	48618	36.00-37.00	1.00	0.045	0.40	23.0	107.0	115.0	40.0	14.0
		Gouge at 38m., rest of section is highly broken and	48619	37.00-38.00	1.00	0.005		25.0	72.0	55.0	47.0	10.0
		strongly limonitic.										
		<41.00-42.40>Limonite on fractures.	48620	38.00-39.00	1.00	0.030		26.0	116.0	135.0	53.0	12.0
		<44.40-46.00>Highly chloritic.	48621	39.00-40.00	1.00	0.050		29.0	149.0	75.0	45.0	10.0
47.10	67.50	Pyroxene porphyry	48622	47.00-48.00	1.00	0.010		25.0	97.0	15.0	49.0	
		Fine grained, green, porphyritic	48623	48.00-49.00	1.00	0.005		31.0	84.0	20.0	47.0	10.0
		vein 80°:cleavage, foliation 75°	48624	49.00-50.00	1.00	0.005		33.0	103.0	20.0	49.0	10.0
		Frs=4/m	48625	50.00-51.00	1.00	0.005		33.0	134.0	5.0	50.0	16.0
		Weak SI patches	48626	51.00-52.00	1.00	0.010		29.0	93.0	15.0	51.0	14.0
		Weak CL pervasive	48627	52.00-53.00	1.00	0.010		32.0	168.0	20.0	47.0	14.0
		Weak KS pervasive										
		Strong EP microveins										
		Moderate PY patches										
		Strong QV microveins										
		Weak QC microveins										
		Dark gray, with abundant quartz/epidote veinlets,										
		patchy pyrite. Rock.										
67.50	76.26	volcaniclastics										
		Green, mottled										
		Moderate SI patches										
		Moderate CL pervasive										
		Moderate MS pervasive										
		Moderate KS pervasive										
		Moderate PY disseminated										
		Moderate QC microveins										
		Bottom contact is bleached light gray from the contact										
		to 71.13m.										
		<71.93-71.97> calcite vein										
		Calcite vein.										

HOLE: CL96-97

HOMESTAKE MINING COMPANY - Clone

PAGE 3 of 2

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-98

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-98	Date Completed:		Geotech by: MBW
LENGTH: 109.42	Core Diam: NQII		

Collar Location	
Latitude: 1908.56	
Departure: 1941.68	
Elevation: 1347.32	

S U M M A R Y

0.00-13.63	volcaniclastics **
13.63-19.10	mudstone
19.10-20.41	volcaniclastics *
20.41-27.43	volcaniclastics *
27.43-48.92	volcaniclastics *
48.92-66.07	gabbro *
66.07-69.06	volcaniclastics
69.06-79.95	gabbro *
79.95-86.10	volcaniclastics *
86.10-99.00	gabbro *
99.00-109.42	volcaniclastics *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	240.00	-64.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	13.63	volcaniclastics	48628	2.00-3.00	1.00	0.010		8.0	15.0	45.0	38.0	22.0
		Green, fragmental	48629	3.00-4.00	1.00	0.015		20.0	32.0	135.0	46.0	20.0
		qz-carb veining 55°:cleavage, foliation 30°	48630	4.00-5.50	1.50	0.305		15.0	31.0	15.0	53.0	10.0
		Frs=7/m :Vns =20/m	48631	5.50-6.50	1.00	0.105		39.0	28.0	130.0	86.0	10.0
		Weak SI matrix	48632	6.50-7.50	1.00	0.430		26.0	78.0	90.0	68.0	10.0
		Weak CL matrix	48633	7.50-8.50	1.00	0.035		18.0	83.0	130.0	46.0	12.0
		Trace CB macroveins	48634	8.50-9.45	0.95	0.040	0.40	26.0	96.0	590.0	67.0	12.0
		Heterolithic fragmental containing predominantly	48635	9.45-10.45	1.00	5.110	1.00	237.0	114.0	6040.0	93.0	14.0
		K-spar altered clasts, 5mm. to 5cm. long, irregular	48636	10.45-12.00	1.55	0.580		16.0	96.0	40.0	55.0	10.0
		and subrounded. Moderate foliation. ALTERATION- weak	48637	12.00-13.00	1.00	0.495	0.80	12.0	50.0	15.0	66.0	10.0
		calcite and silica alteration of the matrix, with										
		moderate quartz/carbonate veining which is relativley										
		planar, but locally fractured. Broken core.										
		MINERALIZATION- trace disseminated pyrite, patchy in										
		occurrence, well mineralized section nested below.										
<0.00-13.63>		?? MT disseminated										
		MINERALIZATION- trace disseminated pyrite, patchy in										
		occurrence, well mineralized section nested below.										
<9.43-10.48>		Trace MT disseminated										
		1 % arsenopyrite - foliated										
		MINERALIZATION- patches of pyrite and arsenopyrite up										
		to 8cm. long are aligned with foliation. Disseminated										
		pyrite blebs are also strong out along foliation, 1 to										
		2% pyrite, 1% arsenopyrite.										
<9.43-10.48>		volcaniclastics										
		Dark green, fragmental										
		cleavage, foliation 50°										
		Frs=3/m :Vns =2/m										
		Weak PY clasts										
		Mineralized interval: strongly chlorite altered matrix										
		with a well developed foliation with which the clasts										
		are aligned. MINERALIZATION- patches of pyrite and										
		arsenopyrite up to 8cm. long are aligned with										
		foliation. Disseminated pyrite blebs are also strong										
		out along foliation, 1 to 2% pyrite, 1% arsenopyrite.										
13.63	17.11	mudstone	48638	13.00-14.00	1.00	1.020	0.40	25.0	109.0	30.0	80.0	10.0
		Aphanitic, blueish-black, fragmental, foliated										
		cleavage, foliation 45°										
		Moderate MS patches										
		Moderately to strongly foliated mudstone containing										
		broken and flattened light gray volcanic? clasts upper										
		and lower contacts are parallel to foliation, up to										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		30cm. thick beds of mafic tuff locally. ALTERATION- beige, stringy masses of sericite parallels foliation. Especially concentrated towards the lower contact. Weak quartz/carbonate occur in rare veins.										
		<16.65-17.11> Aphanitic, brown, broken Broken core oxidized on and haloing fracture planes. Fractures are irregular in orientation.										
19.10	20.41	volcaniclastics Green, foliated cleavage, foliation 40°:qz-carb veining 25° Trace PY disseminated Indistinct upper contact with sericite alteration obscuring its true position. Very difficult to tell if this rock is a true breccia or a pseudo breccia with stockwork alteration leaving clast like unaltered patches. ALTERATION- black chlorite as thin stringers wraps about the clasts. Moderate quartz/carbonate veining slightly irregular in form. MINERALIZATION- less than 1% disseminated pyrite throughout.	48639	19.00-20.00	1.00	0.045		23.0	96.0	95.0	41.0	10.0
		<19.10-20.41> ?? MT disseminated MINERALIZATION- less than 1% disseminated pyrite throughout.										
20.41	27.43	volcaniclastics Fine grained, pale gray, fragmental qz-carb veining 45° Frs=3/m :Vns =10/m Intense KS matrix Trace PY microveins Intense PR disseminated Trace QC macroveins 5 % pyrrhotite - disseminated Fragmental whose texture has largely been overprinted and obscured by alteration, as a result, it has a massive appearance. ALTERATION- strong K spar alteration gives the rock a light gray colour. Rare veinlets of chlorite. weak quartz/carbonate veins in conjugate stes. MINERALIZATION- fine stringers of pyrite containing a very fine grained brassy mineral (pyrrhotite?) in very minor quantities (magnetic).	48640 48641 48642 48643 48644 48645 48646	20.00-21.00 21.00-22.00 22.00-23.00 23.00-24.00 24.00-25.00 25.00-26.00 26.00-27.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.010 0.005 0.005 0.005 0.005 0.010 0.010		22.0 11.0 11.0 12.0 14.0 9.0 17.0	82.0 26.0 74.0 70.0 41.0 37.0 45.0	315.0 95.0 45.0 85.0 570.0 35.0 455.0	46.0 33.0 53.0 40.0 27.0 32.0 31.0	2.0 4.0 4.0 2.0 4.0 6.0
		<20.41-27.43> ?? MT stringer MINERALIZATION- fine stringers of pyrite containing very fine grained brassy mineral (pyrrhotite?) in very										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		minor quantities (magnetic).										
27.43	48.92	volcaniclastics	48647	27.00-28.00	1.00	0.100	2.20	24.0	170.0	130.0	55.0	124.0
		Green, fragmental	48648	28.00-29.00	1.00	0.060		26.0	224.0	90.0	60.0	8.0
		qz-carb veining 40°:cleavage, foliation 30°	48649	29.00-30.00	1.00	0.020		22.0	78.0	150.0	47.0	6.0
		Frs=3/m :Vns =12/m	48650	30.00-31.00	1.00	0.065		27.0	126.0	75.0	35.0	8.0
		Weak CL microveins	48651	31.00-32.00	1.00	0.120		27.0	154.0	40.0	72.0	10.0
		Trace KS matrix	48652	32.00-33.00	1.00	0.150		21.0	124.0	70.0	56.0	12.0
		Trace PY disseminated	48653	35.00-36.00	1.00	0.090		27.0	115.0	160.0	64.0	8.0
		Trace QC macroveins	48654	38.00-39.00	1.00	0.035		33.0	69.0	55.0	77.0	10.0
		HFBx?? Moderately foliated, clasts are difficult to discern as their composition is close to that of the matrix, clast size is predominantly <1cm., although clasts up to 2cm. are seen. They are subrounded and deformed by the foliation. ALTERATION- weak K spar alteration, patchy, weak chlorite alteration of the matrix as well as in thin veinlets parallel to foliation. Moderate quartz/carbonate veins, irregular in form but reasonably consistent in orientation. MINERALIZATION- disseminated pyrite throughout or as thin stringers less than 1% overall.	48655	39.00-40.00	1.00	0.015		31.0	97.0	100.0	76.0	8.0
			48656	40.00-41.00	1.00	0.015		34.0	140.0	55.0	74.0	10.0
			48657	41.00-42.00	1.00	0.015		33.0	100.0	75.0	104.0	10.0
			48658	43.00-44.00	1.00	0.030		34.0	96.0	120.0	107.0	12.0
		<27.43-48.92> ?? MT disseminated MINERALIZATION- disseminated pyrite throughout or as thin stringers less than 1% overall.										
		<29.43-29.75> volcanoclastics Brown, broken Frs=50/m Broken oxidized zone with rubble fragments less than 1cm. across.										
		<33.42-33.78> Frs=50/m Broken and oxidized.										
		<41.09-42.93> Frs=50/m Broken and oxidized. Geometric fragments in places cut by more than one joint set.										
48.92	66.07	gabbro	48659	54.00-55.00	1.00	0.010		40.0	220.0	35.0	60.0	12.0
		Fine grained, green, porphyritic	48660	55.00-56.00	1.00	0.005		37.0	118.0	35.0	67.0	14.0
		qz-carb veining 40°:contact 60°	48661	56.00-57.00	1.00	0.005		28.0	77.0	30.0	65.0	14.0
		Frs=2/m :Vns =14/m	48662	57.00-58.00	1.00	0.010		29.0	91.0	30.0	76.0	12.0
		Trace SI macroveins										
		Weak CL matrix										
		Trace CB macroveins										
		Trace PY disseminated										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak QC macroveins Dark green very mafic looking rock with patches of pyroxene crystals within a massive matrix, pyroxenes have mostly been replaced by chlorite. Lower contact measured. ALTERATION- apple green epidote occurs as hairline wispy veins or as patches. Moderate chlorite alteration of the matrix. Irregular quartz/carbonate veining. MINERALIZATION- fine and blebby pyrite disseminated throughout to 1%.										
	<48.92-66.07>	Trace MT blebs MINERALIZATION- fine and blebby pyrite disseminated throughout to 1%.										
	<63.40-64.22>	gabbro Fine grained, brownish-green, porphyritic, broken fracturing 5°:fracturing 75° Frs=15/m Fractured core broken parallel to core axis.										
66.07	69.06	volcaniclastics Green, fragmental qz-carb veining 55°:fracturing 12° Frs=5/m :Vns =8/m Intense KS matrix Sharp upper contact, core is more broken than the previous interval, moderate K spar alteration gives the rock a lighter appearance, and makes the texture granular. However fragments can still be seen in places, even if they are somewhat cryptic.										
69.06	79.95	gabbro Fine grained, dark green, porphyritic, massive qz-carb veining 65° Frs=4/m :Vns =4/m Trace SI macroveins Weak CL matrix Trace CB macroveins Strong PY disseminated Porphyritic to massive. Pyroxene phenocrysts are not seen everywhere, and when they are absent the rock is massive. ALTERATION- pervasive chlorite alteration of the matrix, with black chlorite present as veins up to 5mm. thick. Epidote is also present in hairline veins as well as patches up to 1cm. in diameter. Weak quartz/carbonate veining. MINERALIZATION- trace disseminated pyrite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<69.06-79.95>		?? MT disseminated MINERALIZATION- trace disseminated pyrite.										
<77.04-78.70>		gabbro Fine grained, broken Frs=20/m As above but broken core and slightly rusty.										
79.95	86.10	volcaniclastics Fine grained, green, fragmental, foliated cleavage, foliation 60°:qz-carb veining 60° Frs=6/m :Vns =20/m Trace CL matrix Trace CB microveins Trace KS patches ?? PY disseminated Trace QC microveins Chloritized fragmental. Almost impossible to see fragments due to alteration and probably the clasts have a similar composition to that of the matrix. Veining oarallels weak to moderate foliation. ALTERATION- chlorite uniform along the interval, K spar is patchy and relatively unimportant. MINERALIZATION- trace disseminated pyrite, gradational upper and lower contacts.										
<79.95-86.10>		?? MT fine grained MINERALIZATION- trace fine grained disseminated pyrite, gradational upper and lower contacts.										
86.10	99.00	gabbro Fine grained, dark green, porphyritic, massive qz-carb veining 60° Frs=3/m :Vns =20/m Weak CL matrix Trace PY disseminated Weak QC microveins Very hard to tell where the contacts of this unit lie. Moderate chloritic alteration has created a homogenous massive texture, with local pyroxene porphyritic texture remaining. Moderate quartz/carbonate veining consistently oriented (as measured). MINERALIZATION- disseminated pyrite throughout with fine veinlets and pyrite stringers. Also patches smaller than or equal to 2cm. across. Pyrite stringers make up a weak stockwork on areas of stronger mineralization, 93.75	48663	86.00-87.00	1.00	0.015		30.0	132.0	30.0	58.0	14.0
			48664	87.00-88.00	1.00	0.030		37.0	194.0	40.0	61.0	16.0
			48665	88.00-89.00	1.00	0.010		31.0	150.0	15.0	51.0	14.0
			48666	89.00-90.00	1.00	0.010		34.0	125.0	5.0	69.0	14.0
			48667	90.00-91.00	1.00	0.005		29.0	92.0	10.0	69.0	14.0
			48668	91.00-92.00	1.00	0.005		31.0	93.0	20.0	98.0	16.0
			48669	92.00-93.00	1.00	0.010		38.0	188.0	20.0	58.0	14.0
			48670	93.00-94.00	1.00	1.290		43.0	200.0	1010.0	84.0	14.0
			48671	94.00-95.00	1.00	0.075		31.0	110.0	815.0	69.0	18.0
			48672	95.00-96.00	1.00	0.010		23.0	51.0	30.0	68.0	16.0
			48673	96.00-97.00	1.00	0.005		27.0	98.0	30.0	79.0	14.0
			48674	97.00-98.00	1.00	0.010		32.0	103.0	35.0	67.0	16.0
			48675	98.00-99.00	1.00	0.010		29.0	139.0	15.0	47.0	4.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		to 93.79m. quartz/carbonate vein with 10% pyrite blebs, vein at 45 degrees to core axis. Overall 1% pyrite.										
		<86.10-99.00> Trace MT disseminated MINERALIZATION- disseminated pyrite throughout with fine veinlets and pyrite stringers. Also patches smaller than or equal to 2cm. across. Pyrite stringers make up a weak stockwork in areas of stronger mineralization. 93.75 to 93.79m. quartz/carbonate vein with 10% pyrite blebs, vein at 45 degrees to core axis. Overall 1% pyrite.										
99.00	109.42	volcaniclastics Fine grained, green, fragmental qz-carb veining 58° Frs=3/m :Vns =15/m Weak CL matrix Trace KS patches Trace PY microveins Trace QC macroveins Similar to previously described. Quartz/carbonate veining is very regular in orientation and may represent foliation?? ALTERATION- chlorite dominates the alteration with patchy K spar. MINERALIZATION- thin pyrite stringers occur throughout the entire interval. Their orientation is irregular. Pyrite is also disseminated as blebs which are locally concentrated in patches smaller than or equal to 5cm. across. Possible fine grained arsenopyrite is disseminated with the pyrite. 1 to 2% pyrite, <1% arsenopyrite.	48676	99.00-100.00	1.00	0.015		30.0	177.0	85.0	39.0	6.0
			48677	100.00-101.00	1.00	0.015		29.0	197.0	35.0	39.0	10.0
			48678	101.00-102.00	1.00	0.005		38.0	274.0	85.0	37.0	8.0
			48679	102.00-103.00	1.00	0.005		40.0	245.0	75.0	44.0	12.0
			48680	103.00-104.00	1.00	0.005		32.0	126.0	15.0	44.0	12.0
			48681	104.00-105.00	1.00	0.010		36.0	135.0	25.0	66.0	12.0
			48682	105.00-106.00	1.00	0.005		30.0	67.0	5.0	67.0	12.0
			48683	106.00-107.00	1.00	0.005		33.0	110.0	15.0	56.0	14.0
			48684	107.00-108.00	1.00	0.005		34.0	105.0	10.0	68.0	16.0
			48685	108.00-109.00	1.00	0.010		1.0	2.0		2.0	2.0
			48686	109.00-109.42	0.42	0.010		29.0	129.0	45.0	41.0	14.0
		<99.00-109.42> Trace MT disseminated 1 % arsenopyrite - fine grained MINERALIZATION- thin pyrite stringers occur throughout the entire interval. Their orientation is irregular. Pyrite is also disseminated as blebs which are locally concentrated in patches smaller than or equal to 5cm. across. Possible fine grained arsenopyrite is disseminated with the pyrite. 1 to 2% pyrite, <1% arsenopyrite.										
		<107.93-109.42> volcaniclastics Pale green, fragmental Frs=4/m :Vns =10/m Weak KS matrix										

HOLE: CL96-98

HOMESTAKE MINING COMPANY - Clone

PAGE 7 of 6

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Trace PY disseminated Trace QC macroveins More K spar altered section of the fragmental, otherwise similar to previous. (eoh)										

11/29/96

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-99

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-99	Date Completed:		Geotech by: MBW
LENGTH: 106.58	Core Diam: NQII		

Collar Location	
Latitude: 1908.64	
Departure: 1941.88	
Elevation: 1347.24	

S U M M A R Y		D O W N H O L E S U R V E Y S			
		Depth	Azim	Inclin	Method
0.00-29.30	volcaniclastics ***	0.00	236.00	-74.00	
29.30-30.00	mudstone				
30.00-58.50	volcaniclastics **				
58.50-106.58	gabbro				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm	
0.00	29.30	volcaniclastics	48687	3.00-4.00	1.00	0.005			13.0	25.0	50.0	73.0	18.0
		Fine grained, green, heterolithic, veined	48688	4.00-5.00	1.00	0.010			31.0	41.0	210.0	53.0	22.0
		fracturing 10°:vein 45°	48689	5.00-6.00	1.00	0.015			17.0	42.0	70.0	55.0	22.0
		Frs=9/m :Vns =4/m	48690	6.00-7.00	1.00	0.035			23.0	158.0	95.0	133.0	18.0
		Strong SI pervasive	48691	7.00-8.00	1.00	0.030			46.0	127.0	55.0	73.0	26.0
		Moderate CL pervasive	48692	8.00-9.00	1.00	0.015			44.0	98.0	50.0	47.0	26.0
		Strong MS pervasive	48693	9.00-10.00	1.00	0.155			49.0	179.0	235.0	81.0	60.0
		Strong KS pervasive	48694	10.00-11.00	1.00	2.260	2.40	105.0	226.0	3710.0	512.0	210.0	
		Moderate PY microveins	48695	11.00-12.00	1.00	0.580	0.40	57.0	141.0	925.0	83.0	18.0	
		Weak QV vein	48696	12.00-13.00	1.00	0.215	0.20	15.0	75.0	195.0	46.0	10.0	
		Weak QC microveins	48697	13.00-14.00	1.00	0.065		26.0	89.0	2120.0	52.0	10.0	
		Highly silicified with gray white boundary from 4 to 6m., weak calcite stockwork, pyrite mainly occurs as 1cm. semi-massive veinlets. MINERALIZATION- trace	48698	14.00-15.00	1.00	0.530	0.40	42.0	121.0	550.0	69.0	28.0	
		chalcopyrite at 6.20m., pyrite to 2%, trace of	48699	15.00-16.00	1.00	0.345	0.40	36.0	112.0	330.0	68.0	18.0	
		arsenopyrite.	48700	16.00-17.00	1.00	0.060	0.20	23.0	108.0	85.0	47.0	8.0	
			48701	17.00-18.00	1.00	0.655	0.60	114.0	158.0	1360.0	75.0	12.0	
			48702	18.00-19.00	1.00	0.010	0.20	21.0	147.0	10.0	86.0	26.0	
<0.00-29.30>		MINERALIZATION- trace chalcopyrite at 6.20m., pyrite to 2%, trace of arsenopyrite.											
<9.95-9.97>		pyrite vein or veinlet Veined Intense PY vein 1cm. pyrite vein.											
<10.00-11.00>		Broken Core Highly limonitic with 1cm. of limonitic wall.											
<11.20-11.35>		MINERALIZATION- 8 to 9% pyrite, 0.5% arsenopyrite.											
<11.20-11.35>		semi-massive sulphides Strong PY vein Stringers of pyrite with minor coarse blebs with arsenopyrite. MINERALIZATION- 8 to 9% pyrite, 0.5% arsenopyrite.											
<12.40-12.60>		MINERALIZATION- 4% pyrite.											
<12.40-12.60>		volcaniclastics Strong PY patches Patches of pyrite in intensely K spar altered rock. MINERALIZATION- 4% pyrite.											
<15.50-23.00>		bedding 35° Frs=3/m Moderate SI pervasive											

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak CL pervasive Strong MS pervasive Moderate KS pervasive Moderate PY disseminated Section shows a lack of calcite veining, strongly sericite latered with remnant bedding at 35 degrees to core axis, finer grained argillite bands in section with coarse clastic volcanic clasts range from angular to 3 to 5cm. down to sand size clasts vary from argillaceous to feldspar porphyry types.										
29.30	30.00	mudstone Fine grained, black, bedded bedding 45° Frs=2/m :Vns =2/m Weak SI patches Weak MS pervasive Weak KS pervasive Weak PY disseminated Weak QC vein Black argillaceous horizon with coarse grained clasts of breccia, crenulated calcite veins up to 5%.										
30.00	58.50	volcaniclastics Fine grained, green, mottled, veined fracturing 0°:fracturing 35° Frs=5/m Moderate SI patches Moderate CL pervasive Moderate MS pervasive Moderate KS pervasive Weak PY disseminated Moderate QC vein Mottled green rock with local 1 to 2cm. calcite veins at 35 degrees to core axis, heterolithic texture. MINERALIZATION- 4% pyrite.	48703 48704 48705 48706 48707 48708 48709 48710 48711 48712 48713 48714 48715	34.00-35.00 35.00-36.00 36.00-37.00 37.00-38.00 38.00-39.00 39.00-40.00 40.00-41.00 41.00-42.00 42.00-43.00 43.00-44.00 44.00-45.00 45.00-46.00 46.00-47.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.005 0.010 0.040 0.035 0.015 0.005 0.010 0.005 0.005 0.005 0.005 0.005 0.005		24.0 27.0 27.0 26.0 28.0 33.0 46.0 32.0 38.0 34.0 29.0 29.0 32.0	108.0 125.0 137.0 126.0 111.0 112.0 92.0 103.0 92.0 124.0 78.0 119.0 110.0	85.0 190.0 225.0 220.0 150.0 140.0 105.0 65.0 75.0 210.0 60.0 80.0 40.0	57.0 45.0 46.0 43.0 40.0 65.0 74.0 80.0 80.0 61.0 66.0 65.0 70.0	10.0 24.0 16.0 14.0 12.0 8.0 18.0 10.0 8.0 12.0 10.0 10.0 12.0
<30.00-58.50>		MINERALIZATION- 4% pyrite.	48716	47.00-48.00	1.00	0.005		25.0	78.0	55.0	67.0	10.0
<34.00-39.00>		Broken Core Vuggy Highly broken section with vugs along fractures, limonite on fractures.										
<45.00-54.00>		MINERALIZATION- 6% pyrite.	48717	48.00-49.00	1.00	0.005		27.0	93.0	65.0	72.0	12.0
<45.00-54.00>		volcaniclastics	48718	49.00-50.00	1.00	0.010		39.0	117.0	70.0	82.0	12.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate PY fracture fill	48719	50.00-51.00	1.00	0.005		31.0	93.0	65.0	57.0	12.0
		Section contains fine fracture filling of pyrite throughout. MINERALIZATION- 6% pyrite.	48720	51.00-52.00	1.00	0.005		32.0	97.0	65.0	59.0	12.0
			48721	52.00-53.00	1.00	0.025		41.0	153.0	150.0	81.0	16.0
	<51.50-54.00>	Broken Core fracturing 5°:fracturing 35° Highly fractured with limonite on fractures.	48722	53.00-54.00	1.00	0.010		43.0	149.0	140.0	98.0	20.0
58.50	106.58	gabbro	48723	81.00-82.00	1.00	0.005		22.0	88.0	70.0	44.0	12.0
		Fine grained, green, porphyritic cleavage, foliation 45°:fracturing 35° Frs=4/m Weak SI patches Moderate CL pervasive Weak KS pervasive Moderate EP patches Weak PY disseminated Weak QV vein Strong QC microveins Dark coloured with indistinct contact with upper volcanic, near contact rock shows little interval structures from 72m., rock shows abundant anhedral feldspar crystals, rock is distinct due to the presence of epidote, both as patchy and as quartz/epidote veinlets, strong calcite stockwork.	48724	95.00-96.00	1.00	0.005		24.0	104.0	85.0	40.0	12.0
	<75.90-76.20>	calcite vein Veined vein 35° Calcite vein at 35 degrees.										
	<81.00-81.90>	vein 0°:vein 35° Strong PY microveins Fine wispy pyrite veinlets to 30% of 81.53 to 81.63m.										
	<86.50-87.00>	Broken Core										
	<90.10-90.12>	QUARTZ-CALCITE VEINS Strong EP microveins Abundant epidote.										
	<95.10-95.20>	Moderate PY microveins Abundant fine grained pyrite veinlet in quartz/calcite vein.										
	<102.50-102.55>	calcite vein Pink coloured.										

HOLE: CL96-99

HOMESTAKE MINING COMPANY - Clone

PAGE 4 of 3

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-100

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-100	Date Completed:		Geotech by: MBW
LENGTH: 154.23	Core Diam: NQII		

Collar Location	
Latitude: 1908.76	
Departure: 1942.03	
Elevation: 1347.19	

S U M M A R Y

0.00-47.95 volcaniclastics ****
 47.95-50.59 semi-massive sulphides *
 50.59-53.85 volcaniclastics **
 53.85-106.60 volcaniclastics
 106.60-154.23 volcaniclastics

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	233.00	-85.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	47.95	volcaniclastics	48725	2.00-3.00	1.00	0.065		13.0	51.0	35.0	58.0	14.0
		Fine grained, gray, heterolithic, mottled	48726	3.00-4.00	1.00	0.805	0.40	20.0	102.0	55.0	75.0	16.0
		cleavage, foliation 45°:fracturing 45°	48727	4.00-5.00	1.00	0.105		24.0	58.0	75.0	80.0	14.0
		Frs=4/m :Vns =5/m	48728	5.00-6.00	1.00	0.250		12.0	63.0	30.0	75.0	10.0
		Strong SI pervasive	48729	6.00-7.00	1.00	0.005		38.0	125.0	65.0	72.0	22.0
		Moderate CL pervasive	48730	7.00-8.00	1.00	0.140		56.0	113.0	240.0	73.0	16.0
		Strong MS pervasive	48731	8.00-9.00	1.00	0.035		33.0	101.0	125.0	59.0	14.0
		Strong KS pervasive	48732	9.00-10.00	1.00	0.025		35.0	132.0	75.0	63.0	20.0
		Moderate PY microveins	48733	10.00-11.00	1.00	0.350		37.0	65.0	480.0	70.0	14.0
		Weak QV vein	48734	11.00-12.00	1.00	0.015	0.20	17.0	81.0	25.0	44.0	10.0
		Moderate QC microveins	48735	12.00-13.00	1.00	0.005		13.0	72.0	10.0	45.0	12.0
		Rock ranges from fine grained to aphanitic to a coarse	48736	13.00-14.00	1.00	0.075	0.40	56.0	97.0	500.0	44.0	26.0
		clastic breccia, locally very strong silicification	48737	14.00-15.00	1.00	0.725		83.0	65.0	1075.0	48.0	14.0
		and K-spar alteration, local foliation at 15 degrees	48738	15.00-16.00	1.00	0.020		21.0	70.0	200.0	47.0	14.0
		to core axis, the clasts appear to be generally	48739	16.00-17.00	1.00	0.115	0.40	23.0	140.0	195.0	57.0	16.0
		felsic. Vuggy, foliated textures.	48740	17.00-17.37	0.37	0.415	0.40	38.0	102.0	265.0	69.0	16.0
<6.95-7.35>		Broken Core Vuggy Vuggy texture, broken core.										
<7.35-10.00>		MINERALIZATION- 7% pyrite.										
<7.35-10.00>		volcaniclastics Moderate SI patches Moderate CL pervasive Strong MS pervasive Strong KS pervasive Moderate PY microveins Weak QV microveins Moderate QC vein Inteval has fine blue gray carbonate veins with pyrite as fine grained wispy veinlets, abundant fracture controlled pyrite. MINERALIZATION- 7% pyrite.										
<10.00-11.00>		Strong CL pervasive Moderate PY microveins Strong brecciated appearance with black chlorite between clasts, minor blue gray carbonate veins with wispy pyrite.										
<13.10-14.00>		foliated 35° Strong PY microveins Abundant pyrite as wisps along strong foliation. MINERALIZATION- 6% pyrite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<14.20-14.25>		MINERALIZATION- 10% pyrite, 5% arsenopyrite.										
<14.20-14.25>		semi-massive sulphides Gray, veined Strong PY microveins Pyrite/arsenopyrite vein in brecciated appearance rock. MINERALIZATION- 10% pyrite, 5% arsenopyrite.										
<14.95-14.99>		pyrite vein or veinlet Veined Black chlorite and pyrite veinlets.										
<17.37-18.65>		MINERALIZATION- 7% pyrite, 2% arsenopyrite.	48741	17.37-18.00	0.63	3.180	2.40	311.0	161.0	4190.0	299.0	88.0
<17.37-18.65>		semi-massive sulphides Gray, veined Strong PY microveins Dark in appearance, strong breccia texture with patches of pyrite as well as wispy stringers, local coarse arsenopyrite blebs up to 5mm. MINERALIZATION- 7% pyrite, 2% arsenopyrite.	48742	18.00-18.65	0.65	6.310	2.20	290.0	169.0	3785.0	194.0	42.0
<20.50-22.90>		volcaniclastics Fine grained, brown, vuggy Strongly weathered with large vugs, abundant limonite in vugs, locally strong broken, some clay along fractures.	48743	18.65-19.00	0.35	0.050	0.60	15.0	93.0	20.0	48.0	12.0
			48744	19.00-20.00	1.00	0.090	0.20	29.0	97.0	150.0	58.0	16.0
			48745	20.00-21.00	1.00	0.080	0.20	17.0	87.0	40.0	44.0	14.0
			48746	21.00-22.00	1.00	0.335		17.0	70.0	125.0	53.0	16.0
<22.90-23.50>		Gray Intense SI pervasive Strong KS pervasive Strongly silicified, K-spar altered.	48747	22.00-23.00	1.00	0.200		9.0	23.0	45.0	47.0	14.0
<23.60-23.80>		Vuggy Limonite with minor vug sections, big highly broken core.										
<24.40-24.50>		Gray Intense SI pervasive Strong KS pervasive Strongly silicified, K-spar altered.	48748	23.00-24.00	1.00	0.450		14.0	32.0	340.0	45.0	14.0
<26.70-27.90>		Strongly limonite on fractures.	48749	24.00-25.00	1.00	1.580	0.20	20.0	70.0	165.0	43.0	16.0
<28.50-30.00>		MINERALIZATION- 8% pyrite.	48750	25.00-26.00	1.00	0.020		12.0	32.0	45.0	46.0	14.0
<28.50-30.00>		volcaniclastics	48751	26.00-27.00	1.00	0.010		10.0	25.0	25.0	45.0	12.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm	
		Foliated	48752	27.00-28.00	1.00	0.115			18.0	25.0	130.0	47.0	18.0
		foliated 0°	48753	28.00-29.00	1.00	0.270	0.40	29.0	149.0	170.0	55.0	26.0	
		Intense MS pervasive	48754	29.00-30.00	1.00	0.030		19.0	114.0	30.0	32.0	16.0	
		Strong PY wispy											
		Wispy pyrite. MINERALIZATION- 8% pyrite.											
<36.00-36.10>		calcite vein	48755	30.00-31.00	1.00	0.010		19.0	169.0	20.0	31.0	18.0	
		Green	48756	31.00-32.00	1.00	0.010		19.0	180.0	15.0	31.0	16.0	
		Intense QC vein	48757	32.00-33.00	1.00	0.010		18.0	71.0	15.0	33.0	18.0	
		Calcite vein.	48758	33.00-34.00	1.00	0.005		18.0	78.0	10.0	33.0	16.0	
<37.30-37.70>		Intense QC vein	48759	34.00-35.00	1.00	0.030		18.0	78.0	140.0	32.0	16.0	
		Highly foliated vein, consisting of white calcite in	48760	35.00-36.00	1.00	0.025		25.0	158.0	60.0	42.0	16.0	
		gray finely laminated carbonate.	48761	36.00-37.00	1.00	0.045		22.0	157.0	80.0	59.0	20.0	
<38.00-38.50>		volcaniclastics	48762	37.00-38.00	1.00	0.190	0.40	48.0	193.0	2110.0	57.0	20.0	
		Vuggy											
		Limonitic on fractures, locally vuggy 2cm., calcite											
		veins at 38.5m.											
<40.85-41.15>		Broken Core	48763	38.00-39.00	1.00	0.010		30.0	108.0	135.0	56.0	18.0	
		Weak limonite, clay on fractures.	48764	39.00-40.00	1.00	0.005		30.0	98.0	35.0	76.0	20.0	
<43.00-47.95>		volcaniclastics	48765	40.00-41.00	1.00	0.010		38.0	124.0	50.0	66.0	20.0	
		Strong PY microveins	48766	41.00-42.00	1.00	0.010		32.0	92.0	35.0	65.0	22.0	
		Locally abundant pyrite, both as fine fracture filling	48767	42.00-43.00	1.00	0.060		31.0	102.0	25.0	65.0	18.0	
		as well as disseminated grain. MINERALIZATION- 6%	48768	43.00-44.00	1.00	0.055		54.0	134.0	130.0	65.0	20.0	
		pyrite.	48769	44.00-45.00	1.00	0.005		37.0	149.0	60.0	104.0	18.0	
47.95	50.59	semi-massive sulphides	48770	45.00-46.00	1.00	0.005		34.0	100.0	35.0	65.0	20.0	
		Medium grained, black, mottled, veined	48771	46.00-47.00	1.00	0.005		34.0	119.0	35.0	60.0	18.0	
		vein 20°:vein 45°	48772	47.00-47.95	0.95	0.090		32.0	124.0	60.0	74.0	22.0	
		Frs=3/m :Vns =50/m	48773	47.95-49.00	1.05	31.430	5.60	3900.0	654.0	47900.0	284.0	26.0	
		Weak SI pervasive	48774	49.00-50.00	1.00	11.560	7.40	2360.0	1003.0	28400.0	475.0	1594.0	
		Intense CL pervasive											
		Weak KS pervasive											
		Intense PY vein											
		Black chlorite zone with coarse grained, semi massive											
		sulphides. MINERALIZATION- 20% pyrite, 10%											
		arsenopyrite.											
<47.95-50.59>		MINERALIZATION- 20% pyrite, 10% arsenopyrite.											
50.59	53.85	volcaniclastics	48775	50.00-51.00	1.00	0.580	3.20	57.0	896.0	440.0	242.0	100.0	
		Medium grained, black, veined, mottled	48776	51.00-52.00	1.00	1.750	2.00	400.0	302.0	4910.0	153.0	80.0	
		vein 45°:vein 10°	48777	52.00-53.00	1.00	0.645	2.20	200.0	361.0	2585.0	167.0	72.0	
		Frs=3/m :Vns =50/m											

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate SI patches Intense CL pervasive Strong KS pervasive Intense PY vein Mixed zone of highly chloritic volcanic rock with veins and stringers of massive sulphide. MINERALIZATION- 10% pyrite, 3% arsenopyrite.										
		<50.59-53.85>MINERALIZATION- 10% pyrite, 3% arsenopyrite.										
		<51.50-52.20>MINERALIZATION- 30% pyrite, 9% arsenopyrite.										
		<51.50-52.20> semi-massive sulphides Veined Intense PY vein Coarse grained sulphide in chlorite matrix. MINERALIZATION- 30% pyrite, 9% arsenopyrite.										
		<53.00-53.85> Strong PY wispy Highly silicified with black chlorite stringers and patches, local fine grained pyrite and arsenopyrite with black chl.rite										
53.85	106.60	volcaniclastics	48778	53.00-54.00	1.00	0.815	1.40	203.0	52.0	3145.0	1194.0	300.0
		Fine grained, green, heterolithic, mottled	48779	54.00-55.00	1.00	0.050	0.40	18.0	98.0	130.0	50.0	12.0
		vein 50°:fracturing 50°	48780	55.00-56.00	1.00	0.035	1.20	35.0	161.0	115.0	67.0	20.0
		Frs=3/m :Vns =4/m	48781	56.00-57.00	1.00	0.055	0.60	23.0	94.0	145.0	64.0	40.0
		Moderate SI patches	48782	57.00-58.00	1.00	0.040	0.60	31.0	82.0	270.0	63.0	24.0
		Moderate CL pervasive	48783	58.00-59.00	1.00	0.360	0.80	22.0	113.0	210.0	66.0	20.0
		Moderate KS pervasive	48784	59.00-60.00	1.00	0.035		20.0	116.0	25.0	68.0	16.0
		Moderate PY wispy	48785	60.00-61.00	1.00	0.005		34.0	141.0	45.0	56.0	12.0
		Weak QV vein	48786	61.00-62.00	1.00	0.005		29.0	150.0	20.0	45.0	12.0
		Moderate QC vein	48787	62.00-63.00	1.00	0.005		33.0	115.0	35.0	51.0	12.0
		Dense, generally aphanitic in appearance, local brecciated appearance. Wispy texture.	48788	63.00-64.00	1.00	0.055		35.0	118.0	45.0	67.0	18.0
			48789	64.00-65.00	1.00	0.010		17.0	99.0	15.0	48.0	12.0
		<83.00-83.90> Broken Core	48790	65.00-66.00	1.00	0.010		13.0	57.0	15.0	42.0	12.0
		Weakly limonite.	48791	66.00-67.00	1.00	0.130		16.0	80.0	65.0	39.0	10.0
		<95.90-96.00> calcite vein	48792	67.00-68.00	1.00	0.005		14.0	79.0	25.0	42.0	12.0
		Calcite vein.	48793	68.00-69.00	1.00	0.020		16.0	72.0	20.0	48.0	12.0
		<96.00-101.00> volcaniclastics	48794	69.00-70.00	1.00	0.020		18.0	77.0	45.0	52.0	14.0
		Moderate EP microveins	48795	70.00-71.00	1.00	0.005		16.0	83.0	10.0	50.0	16.0
		Moderate QV vein	48796	71.00-72.00	1.00	0.005		16.0	86.0	15.0	49.0	14.0
		Moderate QC microveins	48797	72.00-73.00	1.00	0.050		19.0	85.0	45.0	47.0	14.0
		Local quartz/epidote veinlets.	48798	73.00-74.00	1.00	0.060		29.0	91.0	20.0	69.0	16.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	<106.30-106.33>	Chlorite Streaming	48799	74.00-75.00	1.00	0.075		42.0	103.0	30.0	99.0	20.0
106.60	116.00	volcaniclastics	48800	75.00-76.00	1.00	0.015		36.0	131.0	30.0	73.0	20.0
		vein 45°:fracturing 45°	48801	76.00-77.00	1.00	2.630		38.0	133.0	70.0	96.0	22.0
		Strong quartz/calcite stockwork, 10% of rock.	48802	77.00-78.00	1.00	5.420		32.0	101.0	230.0	62.0	16.0
	<108.00-116.00>	Strong PY vein	48803	107.00-108.00	1.00	0.265		30.0	212.0	120.0	66.0	16.0
		Narrow veinlets of pyrite as well as fracture filling.	48804	108.00-109.00	1.00	0.515		18.0	142.0	25.0	51.0	14.0
		MINERALIZATION- 8% pyrite.	48805	109.00-110.00	1.00	0.030		17.0	83.0	20.0	59.0	14.0
	<110.10-112.00>	Broken Core	48806	110.00-111.00	1.00	0.080		26.0	194.0	30.0	53.0	18.0
		Limonite on fractures, minor clay.	48807	111.00-112.00	1.00	0.045	0.40	46.0	425.0	105.0	69.0	24.0
	<110.50-110.51>	pyrite vein or veinlet										
		Pyrite veinlet with strong black chlorite.										
	<149.00-149.50>	Broken Core	48808	112.00-113.00	1.00	0.060		33.0	271.0	80.0	64.0	18.0
		Weak limonite.	48809	113.00-114.00	1.00	0.055		29.0	273.0	50.0	68.0	16.0
	<150.00-154.00>	volcaniclastics	48810	114.00-115.00	1.00	0.240		59.0	342.0	880.0	82.0	16.0
		Laminated	48811	115.00-116.00	1.00	0.060		38.0	360.0	80.0	67.0	14.0
		Moderate PY wispy	48812	116.00-117.00	1.00	0.005		16.0	115.0	55.0	54.0	20.0
		Wispy pyrite along laminations.	48813	150.00-151.00	1.00	0.145	1.00	33.0	96.0	45.0	108.0	26.0
(eoh)			48814	151.00-152.00	1.00	0.070	0.80	23.0	144.0	15.0	296.0	46.0
			48815	152.00-153.00	1.00	0.070	1.40	21.0	243.0	15.0	94.0	18.0
			48816	153.00-154.00	1.00	0.090	0.80	20.0	55.0	15.0	60.0	18.0

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-101

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-101	Date Completed:		Geotech by: MBW
LENGTH: 68.28	Core Diam: NQII		

Collar Location	
Latitude: 1909.29	
Departure: 1940.87	
Elevation: 1347.81	

S U M M A R Y		D O W N H O L E S U R V E Y S			
		Depth	Azim	Inclin	Method
0.00-13.90	volcaniclastics **	0.00	286.00	-44.00	
13.90-15.54	mudstone *				
15.54-22.50	volcaniclastics				
22.50-23.50	mudstone *				
23.50-49.60	volcaniclastics *				
49.60-50.95	mudstone *				
50.95-68.28	volcaniclastics *				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	13.90	volcaniclastics	48817	2.00-3.00	1.00	0.080		23.0	30.0	50.0	98.0	16.0
		Fine grained, gray, heterolithic, gouge	48818	3.00-4.00	1.00	0.105		24.0	89.0	165.0	75.0	18.0
		foliated 40°:fracturing 45°	48819	4.00-5.00	1.00	0.095		19.0	98.0	125.0	72.0	26.0
		Frs=8/m :Vns =4/m	48820	5.00-6.00	1.00	0.110	1.00	22.0	159.0	160.0	69.0	28.0
		Moderate SI pervasive	48821	6.00-7.00	1.00	2.510	2.20	74.0	235.0	795.0	97.0	96.0
		Moderate CL pervasive	48822	7.00-8.00	1.00	3.080	2.00	134.0	215.0	1885.0	297.0	106.0
		Strong MS pervasive	48823	8.00-9.00	1.00	0.715	1.00	38.0	127.0	240.0	82.0	20.0
		Strong KS pervasive	48824	9.00-10.00	1.00	0.105	0.20	63.0	117.0	565.0	70.0	14.0
		Moderate PY microveins	48825	10.00-11.00	1.00	1.720	0.60	367.0	102.0	3040.0	79.0	32.0
		Weak QV microveins	48826	11.00-12.00	1.00	0.045		20.0	181.0	30.0	51.0	20.0
		Moderate QC microveins	48827	12.00-13.00	1.00	0.030		24.0	132.0	10.0	45.0	16.0
		Locally the rock resembles a feldspar porphyry while in some sections it resembles a breccia with all similar lithology fragments, dark chlorite is present as fine wispy veinlets. Mottled, wispy, clastic, and porphyritic textures. MINERALIZATION- 3% pyrite as fine grained veinlets parallel to foliation.										
<0.00-13.90>		Moderate MT vein MINERALIZATION- 3% pyrite as fine grained veinlets parallel to foliation.										
<2.50-5.30>		Broken Core Vuggy Limonite on fractures, locally highly vuggy.										
<6.50-8.20>		MINERALIZATION- 6% pyrite.										
<6.50-8.20>		volcaniclastics Foliated Strong PY microveins Abundant fine pyrite veinlets along foliation. MINERALIZATION- 6% pyrite.										
<13.60-13.90>		rubbly fault zone Brecciated Highly broken inot weak chips and fragments. Strongly limonitic.										
13.90	15.54	mudstone	48828	13.00-14.00	1.00	0.045		31.0	182.0	105.0	55.0	16.0
		Gray, foliated, bedded	48829	14.00-15.00	1.00	0.080		36.0	170.0	90.0	73.0	16.0
		Intense MS pervasive										
		Moderate PY microveins										
		Moderate QC microveins										
		Highly sericite altered argillite, strong calcite stockwork. Locally the argillite has been altered to a										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		gray foliated schist. MINERALIZATION- 2% pyrite along fine grained veinlets.										
		<13.90-15.54> Weak MT vein MINERALIZATION- 2% pyrite along fine grained veinlets.										
15.54	22.50	volcaniclastics	48830	15.00-16.00	1.00	0.030		36.0	197.0	135.0	87.0	18.0
		Fine grained, gray, mottled, heterolithic	48831	16.00-17.00	1.00	0.050		38.0	248.0	90.0	98.0	24.0
		fracturing 45°:cleavage, foliation 45°	48832	17.00-18.00	1.00	0.020		15.0	51.0	95.0	77.0	18.0
		Frs=15/m :Vns =4/m	48833	18.00-19.00	1.00	0.025		15.0	29.0	80.0	91.0	14.0
		Strong SI pervasive	48834	19.00-20.00	1.00	0.075		38.0	151.0	540.0	58.0	18.0
		Moderate CL pervasive	48835	20.00-21.00	1.00	0.030		15.0	59.0	890.0	35.0	12.0
		Moderate MS pervasive	48836	21.00-22.00	1.00	0.010		14.0	37.0	45.0	40.0	14.0
		Strong KS pervasive										
		Moderate PY microveins										
		Weak QV vein										
		Moderate QC microveins										
		Highly vuggy section local strong quartz veining as well as calcite. Quartz stockwork.										
		<15.54-18.90> Broken Core Limonitic on fractures.										
		<21.50-22.50>Limonite on fractures.										
22.50	23.50	mudstone	48837	22.00-23.00	1.00	0.065	0.40	24.0	105.0	540.0	94.0	62.0
		Aphanitic, black, foliated										
		foliated 45°:fracturing 55°										
		Frs=4/m :Vns =2/m										
		Weak CL pervasive										
		Moderate MS pervasive										
		Moderate KS pervasive										
		Weak PY microveins										
		Moderate QC microveins										
		Contains abundant volcanic fragments up to 2cm.										
		<23.17-23.21> calcite vein Veined Calcite vein.										
		<23.25-23.30>MINERALIZATION- 15% pyrite.										
		<23.25-23.30> pyrite vein or veinlet Strong PY microveins Narrow wispy pyrite stringers. MINERALIZATION- 15% pyrite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
23.50	49.60	volcaniclastics	48838	23.00-24.00	1.00	0.175		18.0	103.0	360.0	50.0	20.0
		Fine grained, gray, mottled, heterolithic	48839	24.00-25.00	1.00	0.010	0.40	12.0	141.0	10.0	47.0	24.0
		fracturing 85°:qz-carb veining 70°	48840	25.00-26.00	1.00	0.255		21.0	50.0	100.0	40.0	16.0
		Frs=4/m :Vns =8/m										
		Moderate SI pervasive										
		Moderate CL pervasive										
		Moderate MS pervasive										
		Moderate KS pervasive										
		Moderate PY microveins										
		Weak QV microveins										
		Moderate QC microveins										
		Locally porphyritic textures as well as locally breccia appearance strong, calcite stockwork some crenulated, some locally offset by late fractures, chlorite as fine wispy stringers.										
		<28.90-28.95> calcite vein										
		<29.05-29.07>MINERALIZATION- 50% pyrite.										
		<29.05-29.07> pyrite vein or veinlet										
		Intense PY vein										
		Coarse grained pyrite along veinlet. MINERALIZATION- 50% pyrite.										
		<31.30-31.60> calcite vein										
		<32.15-33.00> Broken Core										
		Limonitic on fractures.										
		<37.60-37.80>										
49.60	50.95	mudstone	48841	49.00-50.00	1.00	1.800	0.20	22.0	114.0	1170.0	69.0	18.0
		Black, contorted, bedded										
		bedding 15°:cleavage, foliation 45°										
		Frs=5/m										
		Strong PY microveins										
		Thick banded contorted with strong pyrite along bands.										
		MINERALIZATION- 8% pyrite.										
		<49.60-50.95>MINERALIZATION- 8% pyrite.										
50.95	68.28	volcaniclastics	48842	50.00-51.00	1.00	0.065	0.60	24.0	67.0	155.0	51.0	14.0
		Fine grained, gray, mottled, heterolithic	48843	51.00-52.00	1.00	0.010		16.0	76.0	60.0	55.0	28.0
		fracturing 45°:qz-carb veining 45°	48844	52.00-53.00	1.00	0.275		45.0	127.0	255.0	52.0	18.0
		Frs=3/m :Vns =6/m	48845	53.00-54.00	1.00	0.035		33.0	110.0	30.0	65.0	20.0
		Moderate SI pervasive	48846	54.00-55.00	1.00	0.040		28.0	105.0	55.0	62.0	20.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate CL pervasive	48847	55.00-56.00	1.00	0.010		24.0	55.0	15.0	81.0	20.0
		Moderate MS pervasive	48848	56.00-57.00	1.00	0.035		31.0	96.0	85.0	107.0	34.0
		Moderate KS pervasive	48849	57.00-58.00	1.00	0.030		27.0	97.0	25.0	98.0	22.0
		Moderate PY microveins	48850	58.00-59.00	1.00	0.025	0.20	34.0	232.0	45.0	85.0	40.0
		Weak QV microveins	48851	59.00-60.00	1.00	0.040		32.0	190.0	125.0	81.0	30.0
		Moderate QC microveins	48852	60.00-61.00	1.00	0.080	0.20	15.0	125.0	65.0	50.0	20.0
		Mottled with locally strong K-spar and silicification,	48853	61.00-62.00	1.00	0.280		29.0	192.0	470.0	63.0	22.0
		fine wispy black chlorite stringers. MINERALIZATION-	48854	62.00-63.00	1.00	0.120		35.0	90.0	410.0	98.0	28.0
		4% pyrite.	48855	63.00-64.00	1.00	1.620		33.0	80.0	1695.0	115.0	54.0
		<50.95-68.28>MINERALIZATION- 4% pyrite.	48856	64.00-65.00	1.00	0.025		15.0	48.0	30.0	69.0	20.0
		<60.90-63.20> Broken Core										
		Limonitic on fractures, local coarse grained										
		crystalline calcite on fractures.										
		<65.30-65.42> calcite vein										
		Whiteish-green										
		<67.85-68.28> Hematite chlorite calcite vein	48857	65.00-66.00	1.00	0.030		17.0	92.0	15.0	47.0	18.0
		Whiteish-green	48858	66.00-67.00	1.00	0.055		21.0	97.0	35.0	63.0	20.0
		(eoh)	48859	67.00-68.28	1.28	0.050		19.0	93.0	20.0	58.0	16.0

11/29/96

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-102

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-102	Date Completed:		Geotech by: MBW
LENGTH: 94.18	Core Diam: NQII		

Collar Location	
Latitude: 1909.24	
Departure: 1941.05	
Elevation: 1347.77	

S U M M A R Y

0.00-12.00	volcaniclastics
12.00-16.95	mudstone *
16.95-39.90	*
39.90-42.37	gabbro *
42.37-51.15	volcaniclastics ***
51.15-52.30	mudstone *
52.30-53.05	volcaniclastics *
53.05-54.89	rubbly fault zone
54.89-94.18	gabbro *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	286.00	-54.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	12.00	volcaniclastics	48860	2.00-3.00	1.00	0.005		8.0	2.0		85.0	12.0
		Fine grained, gray, heterolithic, mottled	48861	3.00-4.00	1.00	0.085		15.0	37.0	40.0	79.0	16.0
		vein 35°:fracturing 65°	48862	4.00-5.00	1.00	0.520	0.60	23.0	76.0	135.0	77.0	18.0
		Frs=6/m :Vns =3/m	48863	5.00-6.00	1.00	11.940	1.80	64.0	119.0	800.0	90.0	16.0
		Strong SI pervasive	48864	6.00-7.00	1.00	0.565	0.40	32.0	91.0	1060.0	78.0	14.0
		Moderate CL pervasive	48865	7.00-8.00	1.00	0.640	1.00	190.0	129.0	2385.0	94.0	38.0
		Moderate MS pervasive	48866	8.00-9.00	1.00	0.170	0.40	58.0	88.0	515.0	86.0	20.0
		Strong KS pervasive	48867	9.00-10.00	1.00	1.260	0.80	162.0	122.0	2065.0	61.0	18.0
		Strong PY disseminated	48868	10.00-11.00	1.00	0.990	1.00	124.0	137.0	1690.0	85.0	22.0
		Weak QV vein	48869	11.00-12.00	1.00	0.080	0.40	24.0	142.0	80.0	100.0	18.0
		Moderate QC microveins										
		Variably silicified, K-spar altered locally strong breccia (volcanic) features. MINERALIZATION- 1% pyrite.										
	<4.40-5.49>	Broken Core Vuggy Limonite on fractures.										
	<6.00-7.00>	bedding 45° Vuggy with limonite on fractures.										
	<8.20-11.30>	volcaniclastics Heterolithic Highly silicified, K-spar altered to pale gray patchy colour.										
12.00	16.95	mudstone	48870	12.00-13.00	1.00	0.340	0.60	140.0	140.0	5205.0	104.0	18.0
		Fine grained, black, bedded	48871	13.00-14.00	1.00	0.155	0.60	35.0	126.0	400.0	102.0	18.0
		bedding 45°:fracturing 15°	48872	14.00-15.00	1.00	0.055	0.40	22.0	121.0	70.0	134.0	38.0
		Frs=10/m	48873	15.00-16.00	1.00	0.135	0.60	34.0	280.0	45.0	133.0	18.0
		Weak SI patches										
		Weak CL pervasive										
		Strong CB pervasive										
		Weak KS pervasive										
		Moderate PY microveins										
		Moderate QC microveins										
		Locally highly sericite altered argillite, locally fine pyrite along bedding planes. MINERALIZATION- 5% pyrite.										
	<12.00-16.95>	MINERALIZATION- 5% pyrite.										
	<13.50-14.33>	Broken Core Limonitic on fractures.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<14.60-15.20>Limonitic on fractures.										
		<15.90-16.00>Limonitic on fractures.										
16.95	22.00	Fine grained, gray, heterolithic, mottled qz veining 35°:fracturing 30° Frs=7/m ;Vns =3/m	48874	16.00-17.00	1.00	0.020		24.0	96.0	55.0	76.0	18.0
		Moderate SI pervasive	48875	17.00-18.00	1.00	0.005		23.0	96.0	65.0	66.0	6.0
		Moderate CL pervasive	48876	18.00-19.00	1.00	0.020		48.0	244.0	135.0	45.0	6.0
		Moderate MS pervasive	48877	19.00-20.00	1.00	0.010		41.0	359.0	40.0	39.0	4.0
		Moderate KS pervasive	48878	20.00-21.00	1.00	0.005		36.0	266.0	50.0	53.0	4.0
		Moderate PY microveins	48879	21.00-22.00	1.00	0.010		35.0	164.0	15.0	59.0	4.0
		Weak QV microveins	48880	22.00-23.00	1.00	0.010		28.0	42.0	10.0	101.0	6.0
		Moderate QC microveins	48881	23.00-24.00	1.00	0.015		16.0	54.0	375.0	47.0	6.0
		Locally mottled dark to light gray depending on silicification and K-spar.	48882	24.00-25.00	1.00	0.005		25.0	116.0	80.0	76.0	6.0
			48883	25.00-26.00	1.00	0.005		35.0	223.0	100.0	78.0	12.0
			48884	26.00-27.00	1.00	0.005		11.0	41.0	45.0	34.0	4.0
			48885	33.00-34.00	1.00	0.010		29.0	82.0	85.0	46.0	2.0
		<17.50-22.00>MINERALIZATION- 6% pyrite.										
		<17.50-22.00> volcaniclastics Moderate PY microveins Abundant pyrite as fine fracture fillings and as coarse patches. MINERALIZATION- 6% pyrite.										
		<23.50-24.50> Broken Core Limonitic on fractures.										
		<25.20-25.25> pyrite vein or veinlet Veined, vuggy Intense PY vein Highly vuggy, coarse pyrite along calcite vein.										
		<25.40-26.00> calcite vein Veined Intense QC vein Strong calcite veining forming 50% of section.										
		<33.80-38.10> Broken Core	48886	34.00-35.00	1.00	0.045		32.0	118.0	70.0	48.0	6.0
		Locally highly broken, limonitic on fractures.	48887	35.00-36.00	1.00	0.005		36.0	119.0	80.0	53.0	6.0
		<34.00-34.06> calcite vein Veined Intense QC vein Blue gray carbonate vein.										
39.90	42.37	gabbro	48888	36.00-37.00	1.00	0.010		27.0	152.0	85.0	71.0	6.0
		Fine grained, black, porphyritic	48889	37.00-38.00	1.00	0.005		24.0	97.0	50.0	60.0	2.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		cleavage, foliation 20°:fracturing 80°	48890	38.00-39.00	1.00	0.025		48.0	54.0	3865.0	61.0	4.0
		Frs=4/m :Vns =2/m	48891	39.00-40.00	1.00	0.015		49.0	107.0	1460.0	59.0	6.0
		Weak SI patches	48892	40.00-41.00	1.00	0.010		45.0	99.0	345.0	68.0	8.0
		Moderate CL pervasive	48893	41.00-42.00	1.00	0.005		34.0	95.0	25.0	85.0	6.0
		Weak KS pervasive										
		Weak EP patches										
		Moderate PY microveins										
		Moderate QC microveins										
		Mafic, top contact appears to be narrow calcite veinlet followed by 30cm. of lapilli tuff in mafic groundmass, fine epidote patches. MINERALIZATION- 6% pyrite as veinlets and patches.										
		<39.90-42.37> ?? MT patches MINERALIZATION- 6% pyrite as veinlets and patches./										
42.37	51.15	volcaniclastics	48894	42.00-43.00	1.00	0.635		36.0	125.0	95.0	71.0	8.0
		Fine grained, gray, heterolithic, mottled	48895	43.00-44.00	1.00	0.310		51.0	154.0	1220.0	69.0	10.0
		fracturing 75°:cleavage, foliation 45°	48896	44.00-45.00	1.00	0.060		33.0	100.0	125.0	51.0	10.0
		Frs=6/m :Vns =2/m	48897	45.00-46.00	1.00	0.150		36.0	158.0	30.0	85.0	14.0
		Moderate SI patches	48898	46.00-47.00	1.00	0.805		49.0	254.0	50.0	83.0	18.0
		Moderate CL pervasive	48899	47.00-48.00	1.00	0.055		28.0	81.0	55.0	80.0	14.0
		Moderate MS pervasive	48900	48.00-49.00	1.00	0.075		26.0	104.0	50.0	60.0	12.0
		Moderate KS pervasive	48901	49.00-50.00	1.00	0.875		26.0	146.0	95.0	47.0	12.0
		Locally intense fine calcite/quartz stockwork, local patchy silicification and K-spar alteration. MINERALIZATION- 2% pyrite.	48902	50.00-51.00	1.00	0.230		34.0	71.0	360.0	66.0	18.0
		<42.37-51.15>MINERALIZATION- 2% pyrite.										
		<45.00-45.42> Broken Core Limonitic on fractures.										
		<46.70-46.75> Trace MT vein MINERALIZATION- 15% fine pyrite veinlets.										
		<46.70-46.75> Hornblende feldspar breccia Strong PY microveins MINERALIZATION- 15% fine pyrite veinlets.										
		<47.90-48.46> Broken Core Limonitic on fractures.										
		<49.35-49.45> Trace MT vein MINERALIZATION- 15% fine pyrite veinlets.										
		<49.35-49.45> volcaniclastics										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong PY microveins MINERALIZATION- 15% fine pyrite veinlets.										
51.15	52.30	mudstone Fine grained, black, foliated, bedded bedding 15°:foliated 45° Frs=3/m Weak SI patches Weak CL pervasive Weak MS pervasive Weak KS pervasive Moderate PY microveins Moderate QC vein Highly foliated, strong calcite veinlets. MINERALIZATION- 5% pyrite. <51.15-52.30>MINERALIZATION- 5% pyrite.	48903	51.00-52.00	1.00	0.120	0.40	22.0	81.0	90.0	54.0	8.0
52.30	53.05	volcaniclastics Moderate SI patches Moderate CL pervasive Moderate MS pervasive Moderate KS pervasive Moderate PY microveins Moderate QC microveins Crackled with strong calcite veinlets along fractures. MINERALIZATION- 3% pyrite. <52.30-53.05>MINERALIZATION- 3% pyrite.	48904	52.00-53.00	1.00	0.420	0.40	71.0	184.0	1250.0	222.0	20.0
		<52.30-52.34> pyrite vein or veinlet Veined Intense PY vein Pyrite vein on argillite/breccia contact.										
53.05	54.89	rubbly fault zone Gouge Fault gouge is highly limonitic.	48905	53.00-54.00	1.00	0.005		33.0	96.0	30.0	64.0	10.0
54.89	94.18	gabbro Fine grained, green, porphyritic, mottled cleavage, foliation 45°:fracturing 45° Frs=5/m :Vns =6/m Moderate SI patches Moderate CL pervasive Moderate KS pervasive Weak EP microveins	48906 48907 48908 48909 48910 48911 48912 48913	54.00-55.00 55.00-56.00 56.00-57.00 57.00-58.00 58.00-59.00 59.00-60.00 60.00-61.00 61.00-62.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.065 0.050 0.005 0.015 0.020 0.030 0.350 0.075		32.0 28.0 27.0 36.0 28.0 33.0 38.0 30.0	111.0 48.0 27.0 178.0 74.0 97.0 104.0 120.0	160.0 110.0 20.0 35.0 20.0 30.0 260.0 60.0	44.0 38.0 49.0 56.0 50.0 51.0 46.0 44.0	10.0 10.0 10.0 10.0 10.0 12.0 12.0 10.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate PY microveins	48914	62.00-63.00	1.00	0.025		27.0	180.0	30.0	37.0	12.0
		Weak-QV microveins	48915	63.00-64.00	1.00	0.005		22.0	99.0	30.0	39.0	10.0
		Strong QC microveins	48916	64.00-65.00	1.00	0.030		28.0	137.0	45.0	39.0	12.0
		Rock varies from fine grained mafic unit to coarse	48917	65.00-66.00	1.00	0.005		27.0	47.0	40.0	50.0	10.0
		grained porphyritic highly crackled with very strong	48918	66.00-67.00	1.00	0.020		28.0	69.0	30.0	55.0	12.0
		calcite stockwork.	48919	67.00-68.00	1.00	0.280		25.0	118.0	25.0	54.0	12.0
<70.90-71.30>		Broken Core	48920	68.00-69.00	1.00	0.080		24.0	165.0	35.0	43.0	12.0
		Limonitic on fractures.	48921	69.00-70.00	1.00	0.070		25.0	116.0	55.0	37.0	14.0
<71.70-72.30>		MINERALIZATION- 30% pyrite, 10% arsenopyrite.	48922	70.00-71.50	1.50	0.060		29.0	136.0	45.0	44.0	16.0
<71.70-72.30>		semi-massive sulphides										
		Veined										
		Intense CL pervasive										
		Intense PY vein										
		1cm. veinlets of arsenopyrite as well as more massive,										
		5cm. pyrite/arsenopyrite vein associated with black										
		wispy chlorite veinlets, local epidote along quartz										
		veinlets. MINERALIZATION- 30% pyrite, 10%										
		arsenopyrite.										
<74.95-75.10>		calcite vein	48923	71.50-72.50	1.00	1.620	3.20	314.0	460.0	6700.0	107.0	24.0
		5% calcite veining with strong chlorite.	48924	72.50-73.00	0.50	0.375	1.00	40.0	197.0	545.0	35.0	12.0
<75.85-77.42>		Broken Core	48925	73.00-74.00	1.00	0.060		16.0	122.0	50.0	32.0	10.0
		Weakly limonitic on fractures, abundant clay and	48926	74.00-75.00	1.00	0.040		12.0	63.0	15.0	35.0	10.0
		chlorite along fracture planes.	48927	75.00-76.00	1.00	0.010		26.0	83.0	10.0	70.0	14.0
<79.40-79.50>		shear zone										
		Gouge										
		fracturing 35°										
		Abundant gouge, chloritic.										
<90.00-90.05>		calcite vein										
		Calcite vein.										
(eoh)												

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-103

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-103	Date Completed:		Geotech by: MBW
LENGTH: 107.29	Core Diam: NQII		

Collar Location	
Latitude: 1909.19	
Departure: 1941.24	
Elevation: 1347.68	

S U M M A R Y

0.00-15.05	volcaniclastics *
15.05-17.00	mudstone *
17.00-45.00	volcaniclastics
45.00-50.50	gabbro
50.50-55.10	volcaniclastics *
55.10-68.00	gabbro
68.00-69.00	volcaniclastics *
69.00-107.29	gabbro *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	287.00	-63.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	15.05	volcaniclastics	48928	2.00-3.00	1.00	0.005		11.0	4.0		66.0	8.0
		Fine grained, gray, mottled, heterolithic	48929	3.00-4.00	1.00	0.060		37.0	30.0	245.0	70.0	10.0
		fracturing 65°:vein 65°	48930	4.00-5.00	1.00	0.005		15.0	51.0	65.0	58.0	12.0
		Frs=9/m	48931	5.00-6.00	1.00	0.145	0.20	24.0	89.0	115.0	78.0	14.0
		Moderate SI patches	48932	6.00-7.00	1.00	0.025		13.0	26.0	55.0	79.0	10.0
		Moderate CL pervasive	48933	7.00-8.00	1.00	0.150		20.0	62.0	75.0	92.0	12.0
		Moderate MS pervasive	48934	8.00-9.00	1.00	1.660	0.80	59.0	125.0	710.0	109.0	16.0
		Moderate KS pervasive	48935	9.00-10.00	1.00	0.010		35.0	158.0	55.0	92.0	12.0
		Moderate PY microveins	48936	10.00-11.00	1.00	0.200	0.40	75.0	113.0	685.0	67.0	12.0
		Weak QV microveins	48937	11.00-12.00	1.00	0.245	0.60	57.0	139.0	840.0	78.0	16.0
		Moderate QC microveins	48938	12.00-13.00	1.00	0.170	0.80	78.0	182.0	620.0	68.0	18.0
		Locally intensely silicified, K-spar altered with	48939	13.00-14.00	1.00	0.310	1.00	95.0	191.0	850.0	68.0	16.0
		strong quartz/calcite stockwork. MINERALIZATION- 2% pyrite.	48940	14.00-15.00	1.00	0.145	0.40	49.0	152.0	315.0	87.0	16.0
		<0.00-15.05> MINERALIZATION- 2% pyrite.										
		<5.76-9.14> Broken Core fracturing 10°:fracturing 65° Limonitic on fractures.										
		<9.34-9.37> rubbly fault zone Gouge Broken core plus clay.										
		<10.70-10.80> volcaniclastics Vuggy Rock is vuggy with minor limonite.										
		<12.90-13.21> Broken Core Vuggy Locally vuggy highly broken 13.11 to 13.21m., limonite on fractures.										
		<13.70-15.05> volcaniclastics Foliated foliated 20° Intense MS pervasive Strong PY microveins Highly sericitic and foliated, fine pyrite along foliation.										
15.05	17.00	mudstone	48941	15.00-16.00	1.00	0.090	0.20	27.0	83.0	120.0	94.0	24.0
		Fine grained, black, bedded, foliated	48942	16.00-17.00	1.00	0.265	0.40	70.0	246.0	295.0	85.0	12.0
		bedding 45°:cleavage, foliation 15° Frs=3/m										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm	
		Weak SI_patches Weak CL pervasive Moderate MS pervasive Weak KS pervasive Moderate QC microveins Thinly banded, locally sericite altered fine pyrite alogn banding. MINERALIZATION- 2% pyrite.											
		<15.05-17.00>MINERALIZATION- 2% pyrite.											
17.00	45.00	volcaniclastics	48943	17.00-18.00	1.00	0.080			30.0	120.0	60.0	60.0	16.0
		Fine grained, gray, heterolithic, mottled	48944	18.00-19.00	1.00	0.090	0.20		21.0	120.0	110.0	40.0	10.0
		fracturing 70°:cleavage, foliation 65°	48945	19.00-20.00	1.00	0.125	0.40		26.0	163.0	50.0	53.0	10.0
		Frs=9/m	48946	20.00-21.00	1.00	0.060			23.0	152.0	55.0	52.0	12.0
		Moderate SI pervasive	48947	21.00-22.00	1.00	0.030			31.0	156.0	105.0	47.0	14.0
		Moderate CL pervasive	48948	22.00-23.00	1.00	0.010			28.0	170.0	70.0	36.0	14.0
		Moderate MS pervasive	48949	23.00-24.00	1.00	0.005			28.0	123.0	25.0	48.0	14.0
		Moderate KS pervasive	48950	24.00-25.00	1.00	0.010			17.0	50.0	50.0	42.0	10.0
		Moderate PY microveins	48951	25.00-26.00	1.00	0.005			22.0	76.0	10.0	49.0	16.0
		Moderate QC microveins	48952	26.00-27.00	1.00	0.005			24.0	90.0	20.0	47.0	12.0
		Locally mottled as well as foliation (strong sericite). MINERALIZATION- 2% pyrite.	48953	27.00-28.00	1.00	0.060	0.20		43.0	136.0	345.0	48.0	12.0
			48954	28.00-29.00	1.00	0.055			39.0	86.0	190.0	58.0	16.0
		<20.00-21.95> Broken Core Vuggy Fault gouge (highly limonitic) at 20.05 to 20.10m., generally limonitic on fractures, locally vuggy.											
		<23.05-23.07> calcite vein Calcite vein.											
		<23.90-24.50>Strong calcite veining to 50% of interval.											
		<27.23-27.28> Broken Core Highly limonitic.											
		<28.15-28.30> calcite vein Highly vuggy, limonitic with calcite to 50% of interval.											
		<34.90-35.00> Broken Core	48955	29.00-30.00	1.00	0.010			23.0	69.0	30.0	33.0	12.0
		<37.00-37.49>	48956	30.00-31.00	1.00	0.015			29.0	111.0	85.0	38.0	16.0
		<41.50-41.55> calcite vein	48957	31.00-32.00	1.00	0.050			27.0	140.0	115.0	44.0	16.0
45.00	50.50	gabbro	48958	32.00-33.00	1.00	0.055			24.0	93.0	70.0	45.0	12.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Fine grained, green, porphyritic, Brecciated cleavage, foliation 65°:fracturing 45° Frs=6/m Weak SI patches Moderate CL pervasive Weak MS pervasive Moderate KS pervasive Moderate EP patches Moderate PY microveins Moderate QC microveins Locally brecciated appearance, distinct due to fine epidote patches throughout core, upper contact area has sparse pyroxenes, zone appears to contain inclusions of HFBx.										
50.50	55.10	volcaniclastics Fine grained, gray, foliated, heterolithic cleavage, foliation 75°:fracturing 65° Frs=6/m Moderate SI patches Moderate CL pervasive Strong MS pervasive Moderate KS pervasive Moderate PY microveins Moderate QC microveins Locally highly crenulated at 10 degrees to core axis. Strong chlorite/sericite alteration in crenulated portions. MINERALIZATION- 3% pyrite.										
		<50.50-55.10>MINERALIZATION- 3% pyrite.										
55.10	68.00	gabbro	48959	65.00-66.00	1.00	0.015		28.0	60.0	25.0	47.0	8.0
		Fine grained, green, porphyritic	48960	66.00-67.00	1.00	0.045		28.0	131.0	20.0	42.0	8.0
		Generally fine grained with local porphyritic sections.	48961	67.00-68.00	1.00	0.060		36.0	77.0	135.0	44.0	8.0
		<55.95-61.30> Strong KS vein Strong QV vein Strong quartz/epidote veining, 5cm. vein at 55.95 to 61.3m., some of the veins are ptygnatic in appearance.										
		<61.75-67.73> gabbro Quartz/epidote veining not as strong, at 67.73m. quartz/epidote looks as if it is no longer present.										
68.00	69.00	volcaniclastics Fine grained, gray, mottled, heterolithic	48962	68.00-69.00	1.00	0.290		229.0	63.0	3615.0	48.0	12.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate SI patches Strong CL pervasive Moderate MS pervasive Moderate KS pervasive Moderate PY patches Strong QC microveins Appears to be gray HFbx inclusion.										
		<68.15-68.30>MINERALIZATION- 30% pyrite, 15% arsenopyrite.										
		<68.15-68.30> semi-massive sulphides Veined Intense PY vein Pyrite/arsenopyrite vein. MINERALIZATION- 30% pyrite, 15% arsenopyrite.										
69.00	107.29	gabbro	48963	69.00-70.00	1.00	0.020		33.0	155.0	50.0	48.0	10.0
		Fine grained, green, mottled	48964	70.00-71.00	1.00	0.010		32.0	162.0	95.0	46.0	10.0
		cleavage, foliation 45°:fracturing 65°	48965	71.00-72.00	1.00	0.015		33.0	173.0	40.0	51.0	10.0
		Frs=6/m :Vns =30/m	48966	72.00-73.00	1.00	0.010		28.0	68.0	25.0	53.0	12.0
		Weak SI patches	48967	73.00-74.00	1.00	0.005		30.0	81.0	35.0	54.0	10.0
		Moderate CL pervasive	48968	74.00-75.00	1.00	0.010		31.0	100.0	30.0	49.0	10.0
		Moderate KS pervasive	48969	75.00-76.00	1.00	0.030		35.0	102.0	265.0	51.0	12.0
		Moderate PY patches	48970	76.00-77.00	1.00	0.005		28.0	122.0	30.0	41.0	12.0
		Intense QC microveins	48971	77.00-78.00	1.00	0.035		26.0	110.0	30.0	47.0	12.0
		Highly fractures with calcite filling fractures, local 1cm. with blue gray carbonate veins.	48972	78.00-79.00	1.00	0.070		37.0	140.0	235.0	119.0	16.0
			48973	79.00-80.00	1.00	0.035		32.0	96.0	130.0	61.0	10.0
		<71.10-71.60>HFbx inclusion.										
		<84.10-84.30>MINERALIZATION- 30% pyrite, 15% arsenopyrite.	48974	80.00-81.00	1.00	0.030		32.0	121.0	25.0	59.0	14.0
		<84.10-84.30> semi-massive sulphides	48975	81.00-82.00	1.00	0.015		37.0	145.0	50.0	58.0	12.0
		Abundant pyrite/arsenopyrite veins. MINERALIZATION- 30% pyrite, 15% arsenopyrite.	48976	82.00-83.00	1.00	0.015		29.0	106.0	25.0	55.0	8.0
			48977	83.00-84.00	1.00	0.030		33.0	122.0	25.0	70.0	12.0
		<85.60-85.70> calcite vein White bedding 45° White to pink in colour.	48978	84.00-85.00	1.00	0.100	0.20	60.0	412.0	100.0	57.0	16.0
		<90.65-90.70>White to pink.	48979	85.00-86.00	1.00	0.030		21.0	50.0	15.0	43.0	10.0
		<91.40-91.70> bedding 45° White to pink, strongly banded.	48980	86.00-87.00	1.00	0.035		24.0	103.0	20.0	49.0	14.0
		<104.00-105.16> Broken Core										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<105.16-105.36> calcite vein bedding 45° White to pink in colour, chlorite bands appear as faint green line.										
		(eoh)										

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-104

PROJECT: Clone

Date Commenced:

Contractor: JT THOMAS

Logged by: ERK

DRILL HOLE: CL96-104

Date Completed:

Geotech by: MBW

LENGTH: 155.14

Core Diam: NQII

Collar Location

Latitude: 1909.13

Departure: 1941.39

Elevation: 1347.57

S U M M A R Y

0.00-14.74	volcaniclastics *
14.74-20.10	volcaniclastics **
20.10-25.95	mudstone *
25.95-66.75	volcaniclastics ***
66.75-84.00	gabbro *
84.00-94.50	volcaniclastics *
94.50-99.50	gabbro
99.50-102.10	gabbro *
102.10-134.21	volcaniclastics *
134.21-148.50	mudstone *
148.50-150.10	rubbly fault zone
150.10-155.14	volcaniclastics *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	286.00	-74.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	14.74	volcaniclastics	48981	1.00-2.00	1.00	0.010		9.0	3.0	10.0	55.0	10.0
		Fine grained, gray, heterolithic, mottled	48982	2.00-3.00	1.00	0.010		10.0	7.0	15.0	53.0	10.0
		cleavage, foliation 20°:fracturing 65°	48983	3.00-4.00	1.00	0.055	0.40	28.0	49.0	200.0	60.0	16.0
		Frs=8/m :Vns =5/m	48984	4.00-5.30	1.30	0.110		46.0	49.0	205.0	49.0	14.0
		Strong SI pervasive	48985	5.30-6.20	0.90	23.560	3.80	277.0	547.0	2050.0	91.0	26.0
		Moderate CL pervasive	48986	6.20-7.00	0.80	0.750		20.0	67.0	105.0	72.0	14.0
		Moderate MS pervasive	48987	7.00-8.00	1.00	0.135		30.0	98.0	60.0	65.0	20.0
		Moderate KS pervasive	48988	8.00-9.00	1.00	0.040		34.0	100.0	80.0	43.0	36.0
		Moderate PY patches	48989	9.00-10.00	1.00	0.055		32.0	118.0	145.0	66.0	26.0
		Moderate QV vein	48990	10.00-11.00	1.00	0.065		30.0	138.0	40.0	69.0	24.0
		Strong QC microveins	48991	11.00-12.00	1.00	0.130		21.0	89.0	130.0	45.0	14.0
		Locally highly K-spar altered and silicified with	48992	12.00-13.00	1.00	0.310	0.60	38.0	117.0	290.0	53.0	16.0
		avery strong micro calcite stockwork along minute	48993	13.00-14.00	1.00	0.095	0.20	20.0	65.0	100.0	52.0	16.0
		fracturing, some calcite veins up to 1cm. wide, local										
		close spaced quartz veinlets, quartz/calcite veinlets										
		to 15%. MINERALIZATION- 5% pyrite as veinlets and										
		patches.										
<0.00-14.74>		Intense MT vein										
		MINERALIZATION- 5% pyrite as veinlets and patches.										
<2.13-2.74>		Broken Core										
<5.96-6.00>		pyrite vein or veinlet										
		Veined										
		Intense PY vein										
		50% pyrite, weathers distinct red colour in vugs.										
<6.47-7.32>		Hornblende feldspar breccia										
		Vuggy										
		Vuggy along narrow crystalline calcite veinlets at 10										
		degrees to core axis.										
<9.20-11.40>		Broken Core										
		Limonitic alogn fractures, locally strong chloritic,										
		vuggy in sulphide rich sections.										
<9.20-9.25>		pyrite vein or veinlet										
		Veined										
		Intense PY vein										
		Highly vuggy with distinct red brown limonite in vugs.										
<13.50-13.70>		Hornblende feldspar breccia										
		Small hematite rich fragments along bands at 15										
		degrees to core axis, fragments to 1cm. form 10% of										
		interval.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<14.11-14.74>		mudstone Fine grained, gray, contorted, bedded bedding 45°:contorted 0° Frs=2/m Weak SI patches Weak CL pervasive Intense CB pervasive Weak KS pervasive Weak PY microveins Highly altered to dark gray colour, very sericitic.										
14.74	20.10	volcaniclastics	48994	14.00-15.00	1.00	0.695	0.40	71.0	107.0	565.0	40.0	18.0
		Fine grained, gray, heterolithic, bedded	48995	15.00-16.00	1.00	0.205	0.40	22.0	119.0	115.0	55.0	18.0
		bedding 45°:fracturing 60°	48996	16.00-17.00	1.00	0.035		20.0	80.0	15.0	42.0	16.0
		Frs=4/m	48997	17.00-18.00	1.00	0.275		33.0	83.0	195.0	35.0	14.0
		Moderate SI pervasive	48998	18.00-19.00	1.00	0.150		26.0	84.0	920.0	39.0	14.0
		Moderate CL pervasive	48999	19.00-20.00	1.00	0.230		20.0	104.0	10.0	48.0	18.0
		Moderate MS pervasive										
		Moderate KS pervasive										
		Moderate PY microveins										
		Weak QC microveins										
		Locally highly banded sericitic with coarse grained pyrite blebs along banding, local high silicification and K-spar alteration, some of the clasts appear to have been stretched. MINERALIZATION- 3% pyrite as veinlets and patches.										
<14.74-20.10>		Moderate MT vein MINERALIZATION- 3% pyrite as veinlets and patches.										
<16.00-16.15>		volcaniclastics Limonitic and locally vuggy.										
<19.15-19.19>		Intense MT vein MINERALIZATION- 50% pyrite veinlets associated with strong black chlorite.										
<19.15-19.19>		semi-massive sulphides Intense PY microveins MINERALIZATION- 50% pyrite veinlets associated with strong black chlorite.										
20.10	25.95	mudstone	49000	20.00-21.00	1.00	0.080		33.0	130.0	65.0	52.0	18.0
		Fine grained, grayish-black, bedded, mottled	59001	21.00-22.00	1.00							
		bedding 45°:fracturing 60°	59002	22.00-23.00	1.00							
		Weak SI patches	59003	23.00-24.00	1.00							

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate CL pervasive Intense MS pervasive Moderate PY vein Weak QC microveins Varies from dark black to light gray, highly banded with local sections sericite altered to light gray.	59004	24.00-25.00	1.00							
	<22.00-22.40>	?? MT vein MINERALIZATION- 8% fine pyrite veinlets along banding (bedding?).										
	<22.00-22.40>	mudstone Intense PY microveins MINERALIZATION- 8% fine pyrite veinlets along banding (bedding?).										
	<22.50-22.60>	calcite vein										
	<23.05-23.07>											
	<23.10-23.90>	Broken Core fracturing 10° Highly fractured with limonite on fractures.										
	<25.10-25.50>	Highly limonitic on fractures, highly broken, locally vuggy.										
25.95	66.75	volcaniclastics	59005	25.00-26.00	1.00							
		Fine grained, gray, heterolithic	59006	26.00-27.00	1.00							
		fracturing 60°:fracturing 15°	59007	27.00-28.00	1.00							
		Frs=6/m	59008	28.00-29.00	1.00							
		Moderate SI patches	59009	29.00-30.00	1.00							
		Moderate CL pervasive	59010	30.00-31.00	1.00							
		Moderate MS pervasive	59011	31.00-32.00	1.00							
		Moderate KS pervasive	59012	52.00-53.00	1.00							
		Moderate PY patches	59013	53.00-54.00	1.00							
		Moderate QC microveins	59014	54.00-55.00	1.00							
		From 25.95 to 34.0m. highly sericite altered, strong calcite stockwork along core axis as well as at 15 degrees. MINERALIZATION- 5% pyrite.	59015	55.00-56.00	1.00							
			59016	56.00-57.00	1.00							
			59017	57.00-58.00	1.00							
	<25.95-66.75>	MINERALIZATION- 5% pyrite.	59018	58.00-59.00	1.00							
	<28.40-30.18>	Strong MT patches MINERALIZATION- 4% pyrite as patches, malachite.										
	<28.40-30.18>	Broken Core										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Vuggy Highly broken, vuggy with strong limonite fractures, minor malachite at 29.96m. MINERALIZATION- 4% pyrite as patches, malachite.										
<47.50-49.00>		calcite vein White Intense CV vein 50% calcite veining at 10 degrees to core axis.										
<49.50-49.59>												
<53.40-53.43>		pyrite vein or veinlet Intense CL pervasive Intense PY vein Heavy black chlorite with pyrite patches forming a narrow vein.										
<60.50-60.60>		gougy sheeted sheeting 45° Narrow fault gouge about 1cm. in broken sections.	59019	59.00-60.00	1.00							
<63.07-63.15>		calcite vein Weak KS microveins Patches and veinlets of epidote.	59020	60.00-61.00	1.00							
			59021	61.00-62.00	1.00							
			59022	62.00-63.00	1.00							
<64.97-65.03>		MINERALIZATION- 50% pyrite, trace arsenopyrite.	59023	63.00-64.00	1.00							
<64.97-65.03>		pyrite vein or veinlet Intense CL pervasive Intense QV vein MINERALIZATION- 50% pyrite, trace arsenopyrite.	59024	64.00-65.00	1.00							
66.75	84.00	gabbro Fine grained, green, fragmental qz veining 45°:fracturing Frs=4/m :Vns =2/m Weak SI patches Moderate CL pervasive Weak KS pervasive Strong EP vein Strong PY microveins Strong QV vein Moderate QC microveins Generally a dark green, with a very strong quartz/epidote stockwork, abundant pyrite as veinlets <1cm. and as narrow fracture filling. MINERALIZATION-	59025	65.00-66.00	1.00							
			59026	66.00-67.00	1.00							
			59027	67.00-68.00	1.00							
			59028	68.00-69.00	1.00							
			59029	69.00-70.00	1.00							
			59030	70.00-71.00	1.00							
			59031	71.00-72.00	1.00							
			59032	72.00-73.00	1.00							
			59033	73.00-74.00	1.00							
			59034	74.00-75.00	1.00							
			59035	75.00-76.00	1.00							
			59036	76.00-77.00	1.00							
			59037	77.00-78.00	1.00							
			59038	78.00-79.00	1.00							

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		10% pyrite as veinlets.	59039	79.00-80.00	1.00							
<66.75-84.00>		Trace MT vein	59040	80.00-81.00	1.00							
		MINERALIZATION- 10% pyrite as veinlets.	59041	81.00-82.00	1.00							
<70.50-76.00>		gabbro										
		20% quartz/epidote.										
<81.70-81.75>		calcite vein										
84.00	94.50	volcaniclastics	59042	82.00-83.00	1.00							
		Fine grained, gray, heterolithic	59043	83.00-84.00	1.00							
		cleavage, foliation 75°:fracturing 70°	59044	84.00-85.00	1.00							
		Frs=2/m :Vns =10/m										
		Moderate SI pervasive										
		Moderate CL pervasive										
		Moderate MS pervasive										
		Moderate KS pervasive										
		Moderate PY patches										
		Moderate QV microveins										
		Strong QC microveins										
		Strongly fractured with strong quartz/calcite										
		stockwork, local strong silicification and K-spar										
		alteration. Contact at 45 degrees. MINERALIZATION- 2%										
		disseminated pyrite plus occasional patches.										
<84.00-94.50>		Weak MT disseminated										
		MINERALIZATION- 2% disseminated pyrite plus occasional										
		patches.										
<91.14-93.00>		volcaniclastics										
		cleavage, foliation 70°										
		Intense QC vein										
		15% strong veining of section.										
94.50	99.50	gabbro										
		Fine grained, green, mottled										
		cleavage, foliation 35°:fracturing 65°										
		Frs=3/m :Vns =50/m										
		Weak SI patches										
		Moderate CL pervasive										
		Weak KS pervasive										
		Moderate PY microveins										
		Dark green with very intense fine grained calcite										
		stockwork, gives the rock a sheeted appearance, lower										
		contact is quartz/calcite vein at 45 degrees.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<97.85-97.89> calcite vein Pink white colour.										
		<98.10-98.11> bedding 45° Distinct pink white.										
99.50	102.10	gabbro Same description as 94.50 to 97.85m. MINERALIZATION- 2% pyrite.										
		<99.50-102.10> MINERALIZATION- 2% pyrite.										
102.10	134.21	volcaniclastics Fine grained, gray, mottled, heterolithic cleavage, foliation 35°:fracturing 45° Frs=3/m :Vns =50/m Moderate SI pervasive Moderate CL pervasive Weak MS pervasive Moderate KS pervasive Weak PY wispy Intense QC microveins Very intensely calcite micro veined to 117.50m. Rare narrow pyrite veinlets, less calcite 119.0 to 126.50m. MINERALIZATION- 3% pyrite as disseminated graineds and as rare veinlets.										
		<102.10-134.21> Moderate MT disseminated MINERALIZATION- 3% pyrite as disseminated grains and as rare veinlets.										
		<117.50-119.00> calcite vein Bedded bedding 45° Intense CV vein Calcite filling voids in brecciated HFBx, 80% calcite.										
		<123.10-123.25> bedding 45° Intense CV vein										
		<126.50-127.00> bedding 45° Intense CV vein Distinct pink white.										
		<128.00-128.40> bedding 45° Intense CV vein Distinct pink white.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<128.90-129.05> bedding 45° Intense CV vein 50% calcite.										
134.21	148.50	mudstone Fine grained, blackish-tan, contorted, bedded bedding 30°:cleavage, foliation 30° Frs=5/m Weak SI patches Moderate CL pervasive Intense MS pervasive Moderate KS pervasive Weak PY disseminated Moderate QC microveins Highly altered argillite, extreme sericite alteration to tan, highly contorted schist, local strong calcite veining. MINERALIZATION- 2% disseminated pyrite.										
		<134.21-148.50> Weak MT disseminated MINERALIZATION- 2% disseminated pyrite.										
148.50	150.10	rubbly fault zone fault/gouge 0° Fault zone, narrow gouge filled sections in highly broken limonite, abundant clay in fractures surfaces.										
150.10	155.14	volcaniclastics Fine grained, gray, sheared, mottled sheeting 45°:fracturing 45° Frs=8/m Moderate SI patches Moderate CL pervasive Moderate MS pervasive Moderate KS pervasive Weak PY disseminated Moderate QC microveins Local high sericite alteration, sheared with fine calcite veinlets. MINERALIZATION- 1% disseminated pyrite.										
		<150.10-155.14> Trace MT disseminated MINERALIZATION- 1% disseminated pyrite.										
		(eoh)										

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL95-105

PROJECT: Clone	Date Commenced:	Contractor:	Logged by:
DRILL HOLE: CL95-105	Date Completed:		Geotech by:
LENGTH:	Core Diam:		
Collar Location			
Latitude:			
Departure:			
Elevation:			
S U M M A R Y		DOWN HOLE SURVEYS	
		Depth	Azim Incln Method
0.00-33.53	volcaniclastics		

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	33.53	volcaniclastics	59054	1.52-2.00	0.48	0.045	0.40	34.0	101.0	40.0	104.0	16.0
		Fine grained, redish-green, heterolithic, mottled	59055	2.00-3.00	1.00	0.025	0.20	58.0	76.0	65.0	77.0	30.0
		cleavage, foliation 45°:hematite stringers 45°	59056	3.00-4.00	1.00	0.020		63.0	65.0	60.0	78.0	10.0
		Frs=8/m :Vns =15/m	59057	4.00-5.00	1.00	0.015		38.0	155.0	35.0	93.0	8.0
		Moderate SI patches	59058	5.00-6.00	1.00	0.015	0.20	18.0	127.0	10.0	98.0	10.0
		Strong CL pervasive	59059	6.00-7.00	1.00	0.095	0.20	20.0	146.0	15.0	128.0	8.0
		Weak MT patches	59060	7.00-8.00	1.00	0.025		17.0	125.0	15.0	102.0	10.0
		Moderate KS pervasive	59061	8.00-9.00	1.00	0.020		23.0	55.0	20.0	90.0	14.0
		Moderate HE stockwork	59062	9.00-10.00	1.00	0.080		30.0	105.0	30.0	103.0	14.0
		Moderate PY patches	59063	10.00-11.00	1.00	5.280	0.80	278.0	268.0	275.0	113.0	10.0
		Moderate QC microveins	59064	11.00-12.00	1.00	0.030	0.20	44.0	47.0	45.0	72.0	10.0
		44.20BQTK11/07/96 11/07/96	59065	12.00-13.00	1.00	0.025		17.0	58.0	15.0	48.0	12.0
(eoh)			59066	13.00-14.00	1.00	0.025		13.0	52.0	10.0	32.0	12.0
			59067	14.00-15.00	1.00	0.015		11.0	50.0		28.0	16.0
			59068	15.00-16.00	1.00	0.015		22.0	55.0	20.0	26.0	8.0
			59069	16.00-17.00	1.00	0.010		25.0	25.0	20.0	25.0	4.0
			59070	17.00-18.00	1.00	0.035		22.0	23.0	15.0	27.0	12.0
			59071	18.00-19.00	1.00	0.015		43.0	69.0	30.0	27.0	10.0
			59072	19.00-20.00	1.00	0.425	0.20	20.0	139.0	15.0	73.0	6.0
			59073	20.00-21.00	1.00	0.700	1.00	22.0	941.0	20.0	103.0	8.0
			59074	21.00-22.00	1.00	0.165	0.60	33.0	125.0	160.0	76.0	14.0
			59075	22.00-23.00	1.00	0.120	0.20	17.0	152.0	85.0	70.0	8.0
			59076	23.00-24.00	1.00	0.155		14.0	78.0	10.0	66.0	14.0
			59077	24.00-25.00	1.00	0.025	0.20	13.0	80.0		65.0	18.0
			59078	25.00-26.00	1.00	0.030	0.60	13.0	412.0		85.0	10.0
			59079	26.00-27.00	1.00	0.020	0.20	9.0	33.0	15.0	49.0	6.0
			59080	27.00-28.00	1.00	0.015		11.0	31.0	15.0	41.0	4.0
			59081	28.00-29.00	1.00	0.030		13.0	38.0	25.0	64.0	6.0
			59082	29.00-30.00	1.00	0.040		11.0	34.0	20.0	55.0	8.0
			59083	30.00-31.00	1.00	0.015		12.0	44.0	55.0	33.0	6.0
			59084	31.00-32.00	1.00	0.020		12.0	32.0	60.0	38.0	6.0
			59085	32.00-33.53	1.53	0.015		11.0	50.0	20.0	28.0	6.0

11/29/96

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-106

PROJECT: Clone

Date Commenced:

Contractor: JT THOMAS

Logged by: ERK

DRILL HOLE: CL96-106

Date Completed:

Geotech by: MBW

LENGTH: 60.96

Core Diam: NQII

Collar Location

Latitude: 1874.76

Departure: 1987.57

Elevation: 1313.45

S U M M A R Y

DOWN HOLE SURVEYS

0.00-25.91 volcaniclastics
 25.91-44.96 volcaniclastics
 44.96-48.77 Chlorite Streaming *
 48.77-60.96 volcaniclastics **

Depth	Azim	Inclin	Method
0.00	236.00	-55.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	7.00	volcaniclastics	59086	2.00-3.00	1.00	0.015		39.0	73.0	30.0	95.0	12.0
		Fine grained, redish-green, heterolithic, stockwork	59087	3.00-4.00	1.00	0.030		18.0	102.0	10.0	74.0	30.0
		hematite stringers 35°:fracturing 35°	59088	4.00-5.00	1.00	0.020	0.20	23.0	156.0	20.0	82.0	28.0
		Frs=6/m :Vns =40/m	59089	5.00-6.00	1.00	0.030	0.20	60.0	136.0	50.0	93.0	16.0
		Moderate SI patches	59090	6.00-7.00	1.00	0.065		55.0	78.0	55.0	64.0	8.0
		Strong CL pervasive	59091	7.00-8.00	1.00	0.005		18.0	79.0	15.0	90.0	14.0
		Weak MT patches	59092	8.00-9.00	1.00	0.010		11.0	67.0	10.0	77.0	12.0
		Moderate KS pervasive	59093	9.00-10.00	1.00	0.040		12.0	104.0	20.0	53.0	12.0
		Moderate HE stockwork	59094	10.00-11.00	1.00	0.035		11.0	115.0	10.0	53.0	16.0
		Weak PY disseminated	59095	11.00-12.00	1.00	0.040	0.20	11.0	95.0	20.0	54.0	12.0
		Moderate QC microveins	59096	12.00-13.00	1.00	0.070	0.20	13.0	131.0		62.0	10.0
		Variably mottled red green with local strong hematite stringer zone, local intense K-spar alteration, silicification, limonite vein fractures.	59097	13.00-14.00	1.00	0.075		19.0	142.0	5.0	70.0	22.0
			59098	14.00-15.00	1.00	0.060		25.0	122.0	15.0	81.0	28.0
			59099	15.00-16.00	1.00	0.030	0.40	46.0	153.0	40.0	87.0	22.0
<3.85-7.00>		Fine grained, redish-green, stockwork										
		Strong SI patches										
		Strong CL pervasive										
		Strong KS pervasive										
		Strong HE stockwork										
		Moderate PY disseminated										
		Blood red hematite veinlets, local bleached light purple interval (K-spar silicification).										
<16.70-17.20>		Semi-massive hematite	59100	16.00-17.00	1.00	3.020	0.20	335.0	204.0	170.0	98.0	10.0
		hematite stringers 10°										
		Intense CL pervasive										
		Semi-massive hematite stringer sub parallel to core axis.										
<18.10-18.80>		volcaniclastics	59101	17.00-18.00	1.00	1.770		368.0	80.0	190.0	75.0	8.0
		Fine grained, purpleish-green, mottled, wispy										
		Strong SI patches										
		Intense CL pervasive										
		Moderate HE stockwork										
		Mottled purple to green depending on chlorite content, K-spar silicified.										
<20.50-20.54>		Hematite chlorite calcite vein	59102	18.00-19.00	1.00	0.070		55.0	41.0	30.0	40.0	8.0
		Veined	59103	19.00-20.00	1.00	0.250	0.20	43.0	85.0	30.0	47.0	8.0
		Calcite/chlorite veinlets (3) each less than 1cm. across 4cm. interval.										
<20.54-25.91>		volcaniclastics	59104	20.00-21.00	1.00	1.160	0.40	37.0	130.0	30.0	74.0	6.0
		Fine grained, purpleish-green, mottled, wispy	59105	21.00-22.00	1.00	2.120	0.40	56.0	308.0	40.0	88.0	4.0
		Strong SI patches	59106	22.00-23.00	1.00	0.580	0.20	26.0	235.0	20.0	99.0	6.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Intense CL pervasive	59107	23.00-24.00	1.00	0.330	0.20	91.0	159.0	35.0	55.0	6.0
		Strong KS pervasive	59108	24.00-25.00	1.00	0.315		45.0	81.0	40.0	57.0	4.0
		Strong K-spar alteration, silicification local strong calcite/quartz stockwork at 90 degrees to core axis.										
<25.91-44.96>		Fine grained, green, heterolithic, wispy	59109	25.00-26.00	1.00	0.060		31.0	84.0	10.0	58.0	4.0
		wispy 35°:cleavage, foliation 45°	59110	26.00-27.00	1.00	0.225		33.0	162.0	20.0	42.0	6.0
		Frs=7/m	59111	27.00-28.00	1.00	4.140	0.20	93.0	129.0	75.0	65.0	4.0
		Moderate SI patches	59112	28.00-29.00	1.00	0.235		37.0	53.0	20.0	76.0	6.0
		Moderate CL pervasive	59113	29.00-30.00	1.00	0.040	0.40	64.0	123.0	65.0	41.0	10.0
		Weak MS patches	59114	30.00-31.00	1.00	0.440	1.00	118.0	367.0	155.0	48.0	12.0
		Moderate KS pervasive	59115	31.00-32.00	1.00	1.630	0.40	92.0	10.0	120.0	69.0	8.0
		Moderate PY microveins	59116	32.00-33.00	1.00	0.215		157.0	78.0	135.0	95.0	10.0
		Moderate QC microveins	59117	33.00-34.00	1.00	0.115	0.20	59.0	208.0	50.0	81.0	12.0
		At 29.10 to 30.5m., strong breccia appearance with	59118	34.00-35.00	1.00	0.035	0.20	26.0	93.0	30.0	83.0	10.0
		clasts of hornblende feldspar, up to 3cm. (angular) in	59119	35.00-36.00	1.00	0.040		16.0	67.0	25.0	64.0	16.0
		a chloritic groundmass, local limonite on fractures,	59120	36.00-37.00	1.00	0.035		12.0	31.0	25.0	33.0	14.0
		at 31.70 to 33.81m., strong breccia texture.	59121	37.00-38.00	1.00	0.015		11.0	38.0	60.0	34.0	14.0
<36.90-37.29>		rubbly fault zone										
		Highly broken with abundant fault gouge, weakly limonitic.										
<38.90-39.10>		Broken Core	59122	38.00-39.00	1.00	0.030		11.0	36.0	90.0	33.0	10.0
<39.87-39.91>		calcite vein										
		Whiteish-green, bedded										
		bedding 90°										
		Banded white green.										
44.96	48.77	Chlorite Streaming	59123	39.00-40.00	1.00	0.025		13.0	67.0	40.0	52.0	14.0
		Black, bedded, mottled	59124	40.00-41.00	1.00	0.015		13.0	45.0	70.0	36.0	12.0
		foliated 45°:cleavage, foliation 90°	59125	41.00-42.00	1.00	0.010		13.0	52.0	200.0	33.0	12.0
		Frs=3/m	59126	42.00-43.00	1.00	0.015		17.0	70.0	80.0	29.0	12.0
		Weak SI patches	59127	43.00-44.00	1.00	0.010		14.0	44.0	125.0	44.0	14.0
		Intense CL pervasive	59128	44.00-45.00	1.00	0.315	0.40	50.0	110.0	140.0	41.0	20.0
		Moderate KS pervasive	59129	45.00-46.00	1.00	0.705	1.00	88.0	343.0	120.0	96.0	18.0
		Weak HE patches	59130	46.00-47.00	1.00	0.075	0.60	44.0	216.0	45.0	132.0	20.0
		Strong PY microveins	59131	47.00-48.00	1.00	0.040	0.60	37.0	260.0	10.0	86.0	18.0
		Moderate QC microveins										
		Highly chloritic with fragments of hornblende										
		feldspar. MINERALIZATION- 9% pyrite as narrow bands.										
<44.96-48.77>		?? MT bands										
		MINERALIZATION- 9% pyrite as narrow bands.										
<48.50-48.54>		calcite vein										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
48.77	60.96	volcaniclastics	59132	48.00-49.00	1.00	1.190	1.20	58.0	193.0	510.0	64.0	22.0
		Fine grained, gray, heterolithic	59133	49.00-50.00	1.00	0.065	0.60	22.0	106.0	105.0	49.0	14.0
		cleavage, foliation 45°:fracturing 45°	59134	50.00-51.00	1.00	0.010	0.60	10.0	106.0	30.0	46.0	14.0
		Moderate SI patches	59135	51.00-52.00	1.00	0.825	1.60	43.0	136.0	350.0	67.0	16.0
		Moderate CL pervasive	59136	52.00-53.00	1.00	0.040		9.0	69.0	20.0	46.0	10.0
		Moderate KS pervasive	59137	53.00-54.00	1.00	0.180	0.40	82.0	104.0	1360.0	48.0	14.0
		Strong PY microveins	59138	54.00-55.00	1.00	0.110	1.20	64.0	167.0	945.0	48.0	14.0
		Moderate QC microveins	59139	55.00-56.00	1.00	0.010	0.40	19.0	97.0	135.0	48.0	12.0
		Generally equi granular texture with local	59140	56.00-57.00	1.00	0.680	0.40	22.0	83.0	150.0	63.0	14.0
		quartz/calcite veinlets, strong pyrite as fine	59141	57.00-58.00	1.00	0.015	0.60	13.0	95.0	40.0	73.0	20.0
		veinlets to dissemination. MINERALIZATION- 9% pyrite,	59142	58.00-59.00	1.00	0.020	1.80	29.0	164.0	330.0	93.0	30.0
		trace of arsenopyrite.	59143	59.00-60.00	1.00	0.025	1.00	11.0	115.0	30.0	49.0	16.0
<48.77-60.96>		?? MT vein	59144	60.00-60.96	0.96	0.025	0.20	18.0	52.0	130.0	54.0	16.0
		MINERALIZATION- 9% pyrite, trace of arsenopyrite.										
<48.81-48.86>		calcite vein										
		Banded pink white.										
<53.80-53.87>		MINERALIZATION- 30% pyrite, 30% arsenopyrite.										
<53.80-53.87>		semi-massive sulphides										
		Bedded										
		bedding 35°										
		Strong PY microveins										
		Silicified with pyrite veinlets, minor arsenopyrite.										
		MINERALIZATION- 30% pyrite, 30% arsenopyrite.										
(eoh)												

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-107

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-107	Date Completed:		Geotech by: MBW
LENGTH: 62.18	Core Diam: NQII		

Collar Location	
Latitude: 1874.76	
Departure: 1987.57	
Elevation: 1313.45	

S U M M A R Y		DOWN HOLE SURVEYS			
		Depth	Azim	Inclin	Method
0.00-62.18	volcaniclastics	0.00	236.00	-65.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	62.18	volcaniclastics	59145	1.00-2.00	1.00	0.020		14.0	103.0	20.0	91.0	18.0
		Fine grained, redish-green, heterolithic, stockwork	59146	2.00-3.00	1.00	0.025		10.0	100.0	15.0	81.0	20.0
		hematite stringers 35°:fracturing 45°	59147	3.00-4.00	1.00	0.005		11.0	88.0	10.0	101.0	14.0
		Frs=4/m :Vns =10/m	59148	4.00-5.00	1.00	0.020		16.0	127.0		119.0	12.0
		Moderate SI patches	59149	5.00-6.00	1.00	0.045		20.0	134.0	5.0	96.0	12.0
		Strong CL pervasive	59150	6.00-7.00	1.00	0.135		26.0	38.0	15.0	90.0	14.0
		Weak MT patches	59151	7.00-8.00	1.00	0.175		40.0	40.0	35.0	83.0	14.0
		Moderate KS pervasive	59152	8.00-9.00	1.00	0.010		15.0	135.0	5.0	43.0	10.0
		Moderate HE stockwork	59153	9.00-10.00	1.00	0.085		23.0	115.0	15.0	45.0	12.0
		Moderate PY patches	59154	10.00-11.00	1.00	0.025		16.0	89.0		41.0	10.0
		Moderate QC microveins	59155	11.00-12.00	1.00	0.010		13.0	47.0	5.0	48.0	10.0
		HP LaserJet - Letter	59156	12.00-13.00	1.00	0.020		48.0	6.0	10.0	91.0	12.0
		<40.54-62.18> (eoh)	59157	13.00-14.00	1.00	0.010		92.0	74.0	65.0	107.0	10.0

12/03/96

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

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-108

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-108	Date Completed:		Geotech by: MBW
LENGTH: 60.96	Core Diam: NQII		

Collar Location	
Latitude: 1874.76	
Departure: 1987.57	
Elevation: 1313.45	

S U M M A R Y		D O W N H O L E S U R V E Y S			
		Depth	Azim	Inclin	Method
0.00-25.91	volcaniclastics ***	0.00	215.00	-45.00	
25.91-40.85	volcaniclastics *				
40.85-43.50	Chlorite Streaming *				
43.50-56.20	volcaniclastics ***				
56.20-60.96	rubbly fault zone				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	25.91	volcaniclastics	59206	2.00-3.00	1.00	0.010		11.0	127.0	10.0	129.0	6.0
		Fine grained, greenish-red, heterolithic, stockwork	59207	3.00-4.00	1.00	0.015		19.0	157.0	25.0	74.0	6.0
		hematite stringers 10°:cleavage, foliation 45°	59208	4.00-5.00	1.00	0.035		18.0	164.0	20.0	82.0	6.0
		Frs=6/m :Vns =10/m	59209	5.00-6.00	1.00	0.105	0.40	32.0	260.0	30.0	107.0	6.0
		Moderate SI pervasive	59210	6.00-7.00	1.00	0.030		33.0	168.0	35.0	92.0	4.0
		Moderate CL pervasive	59211	7.00-8.00	1.00	0.005		32.0	116.0	25.0	119.0	2.0
		Weak MT vein	59212	8.00-9.00	1.00	0.050		32.0	167.0	25.0	43.0	4.0
		Moderate KS pervasive	59213	9.00-10.00	1.00	0.010		13.0	85.0	15.0	32.0	8.0
		Moderate HE stockwork	59214	10.00-11.00	1.00	0.020		26.0	118.0	15.0	37.0	14.0
		Moderate PY patches	59215	11.00-12.00	1.00	0.015		14.0	113.0	15.0	24.0	4.0
		Moderate QV vein	59216	12.00-13.00	1.00	0.005		17.0	59.0	15.0	22.0	4.0
		Moderate QC microveins	59217	13.00-14.00	1.00	0.015		15.0	62.0	20.0	30.0	4.0
		Variably chlorite/hematite altered with local strong	59218	14.00-15.00	1.00	0.005		11.0	27.0	5.0	25.0	2.0
		K-spar alteration/silification with a pink to purple	59219	15.00-16.00	1.00	0.010		19.0	39.0	20.0	22.0	
		generally brecciated rock, the zones of K-spar appear	59220	16.00-17.00	1.00	0.010		23.0	26.0	10.0	25.0	6.0
		as veins with tension fractures at right angles to the	59221	17.00-18.00	1.00	0.025		27.0	102.0	40.0	30.0	2.0
		strike of the veinlets. Tension fracturing is usually	59222	18.00-19.00	1.00	0.015		54.0	43.0	50.0	33.0	4.0
		intense giving the rock a boxwork texture.	59223	19.00-20.00	1.00	0.055		38.0	181.0	90.0	50.0	10.0
		MINERALIZATION- 3% pyrite, trace of calcopyrite, minor	59224	20.00-21.00	1.00	0.255	1.40	48.0	1184.0	70.0	164.0	8.0
		magnetite, local limonite on fractures.	59225	21.00-22.00	1.00	0.160		11.0	131.0		103.0	10.0
<0.00-25.91>		MINERALIZATION- 3% pyrite, traces of calcopyrite,	59226	22.00-23.00	1.00	0.500		24.0	426.0	10.0	148.0	10.0
		minor magnetite, local limonite on fractures.	59227	23.00-24.00	1.00	0.110		14.0	81.0	15.0	64.0	4.0
<7.00-8.10>		volcaniclastics										
		Fine grained, greenish-purple, veined, heterolithic										
		Strong SI pervasive										
		Strong CL pervasive										
		Strong KS pervasive										
		Moderate HE stockwork										
		Weak PY patches										
		Moderate QC microveins										
		Intense K-spar silification, chlorite alteration.										
<11.45-12.15>		Veined										
		Moderate PY patches										
		Strong QC vein										
		Strong quartz/calcite veining to 20% with minor										
		pyrite, traces chalcopyrite.										
<15.90-16.50>		Fine grained, redish-green, heterolithic, stockwork										
		cleavage, foliation 45°:fracturing 55°										
		Frs=25/m :Vns =20/m										
		Moderate SI patches										
		Moderate CL pervasive										
		Moderate KS pervasive										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak PY patches Strong QC microveins Very highly fractured with quartz/calcite stockwork align minute fractures.										
<17.80-17.90>		Hematite chlorite calcite vein Veined Intense CL pervasive Intense QC vein Zone of ten calcite with patches of green chlorite.										
<19.81-20.05>		MINERALIZATION- 50% pyrite.										
<19.81-20.05>		pyrite vein or veinlet Veined vein 10° 1cm. wide along the core axis. MINERALIZATION- 50% pyrite.										
<20.60-20.62>		MINERALIZATION- 50% pyrite.										
<20.60-20.62>		pyrite vein or veinlet vein 80° MINERALIZATION- 50% pyrite.										
<22.75-22.78>		massive hematite Intense MT vein Intense HE vein Magnetite/hematite vein.										
<23.10-25.91>		volcaniclastics Heterolithic, stockwork Moderate SI patches Moderate CL pervasive Strong KS pervasive Weak PY patches Moderate QC microveins K-spar/silicification as selvages to narrow chlorite filled fractures.	59228	24.00-25.00	1.00	0.060		16.0	80.0	10.0	87.0	10.0
<25.91-40.85>		Fine grained, green, heterolithic, mottled bedding 35°:cleavage, foliation 45° Frs=4/m Moderate SI patches Moderate CL pervasive Moderate KS pervasive Moderate PY patches	59229	25.00-26.00	1.00	0.055		17.0	175.0	15.0	99.0	4.0
			59230	26.00-27.00	1.00	0.010		12.0	96.0		65.0	2.0
			59231	27.00-28.00	1.00	0.165		11.0	83.0	10.0	66.0	
			59232	28.00-29.00	1.00	0.130		24.0	79.0	35.0	51.0	4.0
			59233	29.00-30.00	1.00	0.005		12.0	57.0	25.0	36.0	4.0
			59234	30.00-31.00	1.00	0.010		16.0	70.0	60.0	39.0	8.0
			59235	31.00-32.00	1.00	0.010		13.0	75.0	105.0	43.0	8.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak QV microveins	59236	32.00-33.00	1.00	0.020		14.0	79.0	100.0	36.0	10.0
		Moderate QC microveins	59237	33.00-34.00	1.00	0.010		11.0	37.0	65.0	37.0	6.0
		At 35.55 to 37.70m., rock is chlorite banded with large K-spar silicified fragments along banding.	59238	34.00-35.00	1.00	0.005		10.0	23.0	65.0	35.0	4.0
		MINERALIZATION- 3% patchy pyrite.	59239	35.00-36.00	1.00	0.005		12.0	23.0	90.0	59.0	6.0
			59240	36.00-37.00	1.00	0.010		16.0	22.0	45.0	67.0	4.0
	<25.91-40.85>	Moderate MT patches	59241	37.00-38.00	1.00	0.105		41.0	69.0	70.0	57.0	12.0
		MINERALIZATION- 3% patchy pyrite.	59242	38.00-39.00	1.00	0.015	0.60	24.0	70.0	65.0	37.0	14.0
40.85	43.50	Chlorite Streaming	59243	39.00-40.00	1.00	0.005		28.0	61.0	30.0	42.0	6.0
		Fine grained, green, bedded, foliated	59244	40.00-41.00	1.00	0.005		120.0	281.0	110.0	59.0	4.0
		foliated 35°:cleavage, foliation 45°	59245	41.00-42.00	1.00	0.110	0.40	185.0	560.0	180.0	86.0	26.0
		Frs=4/m	59246	42.00-43.00	1.00	0.260	0.60	84.0	675.0	95.0	85.0	4.0
		Moderate SI patches										
		Intense CL pervasive										
		Moderate KS pervasive										
		Weak HE patches										
		Moderate PY patches										
		Weak QC microveins										
		Highly chloritic with a foliated appearance to the interval, minor hematite with minor disseminated pyrite, locally pyritic along patches and veinlets.										
		MINERALIZATION- 5% patchy pyrite.										
	<40.85-43.50>	Intense MT patches										
		MINERALIZATION- 5% patchy pyrite.										
43.50	56.20	volcaniclastics	59247	43.00-44.00	1.00	0.115	0.40	24.0	89.0	35.0	57.0	74.0
		Fine grained, green, heterolithic, mottled	59248	44.00-45.00	1.00	0.105		21.0	91.0	10.0	44.0	16.0
		fracturing 45°	59249	45.00-46.00	1.00	0.010		26.0	95.0	10.0	43.0	6.0
		Frs=15/m	59250	46.00-47.00	1.00	0.025		28.0	159.0	70.0	43.0	8.0
		Weak SI patches	59251	47.00-48.00	1.00	0.040		33.0	258.0	95.0	53.0	8.0
		Moderate CL pervasive	59252	48.00-49.00	1.00	0.070	0.40	34.0	278.0	145.0	56.0	10.0
		Moderate KS pervasive	59253	49.00-50.00	1.00	0.120	0.20	37.0	263.0	50.0	60.0	12.0
		Moderate PY patches	59254	50.00-51.00	1.00	0.060	0.60	45.0	374.0	70.0	46.0	12.0
		Weak QC microveins	59255	51.00-52.00	1.00	0.040		36.0	251.0	55.0	77.0	12.0
		Generally weakly foliated with local abundant pyrite as fracture fillings and as patches.	59256	52.00-53.00	1.00	0.035		22.0	85.0	25.0	100.0	20.0
			59257	53.00-54.00	1.00	0.040		29.0	195.0	105.0	53.0	10.0
	<46.80-49.23>	Broken Core										
		Highly broken with abundant limonite on fractures.										
	<47.14-47.23>	Weak MT coarse grained										
		MINERALIZATION- 25% pyrite as coarse cubes.										
	<47.14-47.23>	semi-massive sulphides										
		Intense PY coarse grained										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		MINERALIZATION- 25% pyrite as coarse cubes.										
	<48.50-48.55>	Weak MT coarse grained MINERALIZATION- 25% pyrite as coarse cubes.										
	<48.50-48.55>	semi-massive sulphides Intense PY coarse grained MINERALIZATION- 25% pyrite as coarse cubes.										
	<50.50-56.00>	MINERALIZATION- 8% pyrite.	59258	54.00-55.00	1.00	0.005		37.0	303.0	120.0	46.0	12.0
	<50.50-56.00>	volcaniclastics Strong PY patches Abundant pyrite as fine veinlets and as patches. MINERALIZATION- 8% pyrite.	59259	55.00-56.00	1.00	0.055		25.0	190.0	30.0	181.0	40.0
56.20	60.96	rubblly fault zone	59260	56.00-57.00	1.00	0.155	2.00	32.0	359.0	160.0	793.0	216.0
		fault/gouge 35°	59261	57.00-58.00	1.00	0.995	2.80	153.0	305.0	1870.0	618.0	146.0
		Strong fault zone, highly limonitic with bleaching at	59262	58.00-59.00	1.00	0.090	1.00	33.0	276.0	350.0	154.0	20.0
		HFBx at 57.59m., 4cm. of gouge, strong alteration of	59263	59.00-60.00	1.00	0.135	1.20	34.0	360.0	160.0	100.0	18.0
		breccia at 59.28 to 60.96m. to a clay rich section at	59264	60.00-60.96	0.96	0.060	0.60	17.0	107.0	85.0	60.0	12.0
		59.28 appears as a 5cm. argillite fragment. E.O.H. 60.96m.										
		(eoh)										

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-109

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-109	Date Completed:		Geotech by: MBW
LENGTH: 60.66	Core Diam: NQII		

Collar Location	
Latitude: 1874.76	
Departure: 1987.57	
Elevation: 1313.45	

S U M M A R Y		D O W N H O L E S U R V E Y S			
		Depth	Azim	Inclin	Method
0.00-1.52	CASING	0.00	215.00	-55.00	
1.52-33.25	volcaniclastics				
33.25-45.20	volcaniclastics **				
45.20-49.10	Chlorite Streaming ***				
49.10-60.66	volcaniclastics				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	1.52	CASING										
1.52	33.25	volcaniclastics	59265	1.52-2.00	0.48	0.005		19.0	54.0		73.0	18.0
		Fine grained, greenish-red, heterolithic, stockwork	59266	2.00-3.00	1.00	0.010		22.0	76.0	15.0	103.0	20.0
		cleavage, foliation 90°:fracturing 10°	59267	3.00-4.00	1.00	0.005		42.0	86.0	25.0	96.0	24.0
		Frs=6/m :Vns =10/m	59268	4.00-5.00	1.00	0.005		59.0	86.0	50.0	93.0	14.0
		Moderate SI patches	59269	5.00-6.00	1.00	0.025	0.40	45.0	135.0	30.0	87.0	24.0
		Moderate CL pervasive	59270	6.00-7.00	1.00	0.010		43.0	89.0	35.0	144.0	16.0
		Weak MT patches	59271	7.00-8.00	1.00	0.080		47.0	60.0	40.0	106.0	32.0
		Moderate KS pervasive	59272	8.00-9.00	1.00	0.015		2.0	1.0		3.0	2.0
		Moderate HE stockwork	59273	9.00-10.00	1.00	0.015		48.0	84.0	25.0	58.0	8.0
		Moderate PY patches	59274	10.00-11.00	1.00	0.005		14.0	132.0	15.0	60.0	10.0
		Moderate QC microveins	59275	11.00-12.00	1.00	0.010	0.20	13.0	127.0	10.0	58.0	14.0
		Variably hematite/chlorite altered with local sections	59276	12.00-13.00	1.00	0.015		18.0	170.0	5.0	77.0	20.0
		of intense K-spar alteration/silicification at 2.50 to	59277	13.00-14.00	1.00	0.010		112.0	65.0	70.0	84.0	8.0
		4.0m., strong hematite/chlorite stringers in veins,	59278	14.00-15.00	1.00	0.015		65.0	46.0	55.0	95.0	6.0
		between green fragments, chlorite gives the rock a	59279	15.00-16.00	1.00	0.010		40.0	92.0	45.0	92.0	18.0
		foliated appearance.	59280	16.00-17.00	1.00	0.125		86.0	148.0	80.0	67.0	18.0
<5.30-6.00>		gougy sheeted Vuggy Shear zone at 10 degrees to core axis, contains minor gouge.										
<6.50-8.90>		volcaniclastics Fine grained, purpleish-green, heterolithic, stockwork cleavage, foliation 90°:fracturing 15° Frs=3/m :Vns =15/m Strong SI patches Strong CL pervasive Strong KS pervasive Strong HE stockwork Altered green to light purple then highly brecciated along altered sections, tension fractures generally at right angles to alteration veins.										
<13.05-15.60>		Semi-massive hematite Fine grained, redish-green, heterolithic, stockwork Moderate SI patches Intense CL pervasive Strong KS pervasive Strong HE stockwork Some minor K-spar alteration/silicification with dark red hematite at 15 degrees to core axis.										
<15.60-25.00>		volcaniclastics	59281	17.00-18.00	1.00	0.010		69.0	65.0	40.0	39.0	14.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Heterolithic, stockwork	59282	18.00-19.00	1.00	0.035		109.0	79.0	40.0	39.0	14.0
		cleavage, foliation 45°	59283	19.00-20.00	1.00	0.055		31.0	49.0	20.0	33.0	14.0
		Generally weak hematite alteration, local stringer	59284	20.00-21.00	1.00	0.005		35.0	44.0	20.0	30.0	16.0
		breccia	59285	21.00-22.00	1.00	0.040		31.0	40.0	10.0	32.0	12.0
		appearance with clasts up to 3cm. in a chlorite	59286	22.00-23.00	1.00	0.305	0.20	33.0	284.0	30.0	94.0	18.0
		groundmass at 20.0 to 20.50m., strong calcite/chlorite	59287	23.00-24.00	1.00	0.755	1.00	46.0	363.0	50.0	188.0	20.0
		veinlets to .5mm. wide spaced 1 to 2cm. apart.	59288	24.00-25.00	1.00	0.800		21.0	116.0	15.0	174.0	14.0
<17.22-25.15>		Broken Core										
		Weakly broken core at 22.50 to 24.0m. laminations on fractures.										
<26.42-32.00>		volcaniclastics	59289	25.00-26.00	1.00	0.300		28.0	116.0	20.0	53.0	12.0
		Fine grained, redish-green, heterolithic, mottled	59290	26.00-27.00	1.00	5.220	0.60	74.0	251.0	60.0	30.0	10.0
		cleavage, foliation 50°:fracturing 55°	59291	27.00-28.00	1.00	8.220	0.80	73.0	361.0	60.0	30.0	12.0
		Frs=4/m :Vns =10/m	59292	28.00-29.00	1.00	1.610		53.0	121.0	40.0	51.0	12.0
		Moderate SI patches	59293	29.00-30.00	1.00	1.410		102.0	184.0	95.0	47.0	12.0
		Intense CL pervasive	59294	30.00-31.00	1.00	0.165		58.0	153.0	45.0	30.0	14.0
		Weak MT patches	59295	31.00-32.00	1.00	0.120		73.0	197.0	55.0	31.0	18.0
		Moderate KS pervasive										
		Moderate HE stockwork										
		Moderate PY patches										
		Moderate QC microveins										
		Hematite/chlorite altered zone with local patches of K-spar alteration/silicification.										
<32.00-32.50>		Intense K-spar alteration/silicification with strong calcite/chlorite veinlets up to 0.5cm. - 1 to 2cm. apart, veinlets from 5 to 10% of interval.										
<33.25-45.20>		cleavage, foliation 45°:fracturing 50°	59296	32.00-33.00	1.00	0.430		78.0	277.0	80.0	41.0	14.0
		Frs=3/m	59297	33.00-34.00	1.00	0.030		123.0	259.0	120.0	41.0	14.0
		Moderate SI patches	59298	34.00-35.00	1.00	3.150	0.60	197.0	391.0	215.0	53.0	14.0
		Moderate CL pervasive	59299	35.00-36.00	1.00	0.590	0.20	157.0	457.0	160.0	39.0	12.0
		Moderate KS pervasive	59300	36.00-37.00	1.00	0.075		31.0	136.0	35.0	29.0	12.0
		Moderate PY microveins	59301	37.00-38.00	1.00	0.045		16.0	60.0	15.0	35.0	14.0
		Moderate QC microveins	59302	38.00-39.00	1.00	0.030		13.0	57.0	15.0	32.0	12.0
		Fractured with abundant minute calcite stockwork along fractures, pyrite as patches and veinlets generally in areas of silicification. MINERALIZATION- 9% pyrite as patches and veinlets.	59303	39.00-40.00	1.00	0.015	0.20	13.0	87.0	35.0	25.0	14.0
			59304	40.00-41.00	1.00	0.040	0.40	22.0	99.0	30.0	25.0	16.0
			59305	41.00-42.00	1.00	0.055	0.40	22.0	140.0	90.0	29.0	14.0
			59306	42.00-43.00	1.00	0.075	0.60	15.0	51.0	160.0	27.0	16.0
<34.90-35.05>		Semi-massive hematite										
		Semi-massive hematite vein at 5 to 10 degrees to core axis, banded with dark green chlorite.										
<35.25-45.20>		?? MT patches	59307	43.00-44.00	1.00	0.160	1.40	26.0	138.0	320.0	16.0	60.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		MINERALIZATION- 9% pyrite as patches and veinlets.	59308	44.00-45.00	1.00	0.065	0.40	23.0	64.0	65.0	29.0	14.0
	<41.25-41.45>	pyrite vein or veinlet Fine grained Narrow 1cm. pyrite vein at 15 degrees to core axis.										
	<42.50-43.50>	Trace MT fracture fill MINERALIZATION- 12% fracture fill pyrite.										
	<42.50-43.50>	volcaniclastics Grayish-green, mottled Intense SI patches Strong CL pervasive Strong KS pervasive Intense PY vein Moderate QC vein Light gray green highly silicified with abundant pyrite mineralization as fine fracture fillings, minor coarse crystalline chlorite veinlets up to 1cm. MINERALIZATION- 12% fracture fill pyrite.										
45.20	49.10	Chlorite Streaming Fine grained, black, laminated, foliated foliated 45°:cleavage, foliation 45° Frs=4/m :Vns =5/m Moderate SI patches Intense CL pervasive Moderate KS pervasive Moderate HE vein Strong PY vein Moderate QC microveins Strongly chloritic with local sections of intense black chlorite stringers, locally chlorite form groundmass between clasts. local strong pyrite veinlets. MINERALIZATION- 10% pyrite as veinlets.	59309	45.00-46.00	1.00	0.205		24.0	89.0	40.0	56.0	14.0
			59310	46.00-47.00	1.00	0.215		43.0	115.0	55.0	96.0	20.0
			59311	47.00-48.00	1.00	0.010		29.0	53.0	70.0	84.0	24.0
			59312	48.00-49.00	1.00	0.215	0.40	24.0	212.0	65.0	35.0	24.0
	<45.20-49.10>	Trace MT vein MINERALIZATION- 10% pyrite as veinlets.										
	<46.90-46.95>	pyrite vein or veinlet Intense PY vein										
	<47.70-47.76>	Intense MT vein MINERALIZATION- pyrite veinlets to 50% of section.										
	<47.70-47.76>	pyrite vein or veinlet MINERALIZATION- pyrite veinlets to 50% of section.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<48.30-48.40>MINERALIZATION- pyrite stringers at 15 degrees to core axis.										
		<48.70-49.10>MINERALIZATION- 5t pyrite.										
		<48.70-49.10> Chlorite Streaming Fine grained, black, foliated foliated 45° Moderate SI patches Intense CL pervasive Moderate KS pervasive Strong HE microveins Moderate QC microveins Abundant hematite with veinlets of broken pink calcite in chloritic groundmass, weak K-spar/silicification. MINERALIZATION- 5t pyrite.										
49.10	60.66	volcaniclastics	59313	49.00-50.00	1.00	0.030	0.60	22.0	192.0	50.0	42.0	18.0
		Fine grained, gray, Brecciated, foliated	59314	50.00-51.00	1.00	0.005		15.0	48.0	10.0	25.0	4.0
		foliated 45°:fracturing 15°	59315	51.00-52.00	1.00	0.080	0.40	15.0	142.0	30.0	26.0	6.0
		Moderate SI patches	59316	52.00-53.00	1.00	0.100	1.20	19.0	128.0	70.0	82.0	10.0
		Moderate CL pervasive	59317	53.00-54.00	1.00	3.040	2.40	35.0	155.0	170.0	83.0	12.0
		Moderate KS pervasive	59318	54.00-55.00	1.00	0.360	1.60	30.0	100.0	125.0	56.0	12.0
		Moderate PY patches	59319	55.00-56.00	1.00	2.040	3.60	32.0	257.0	265.0	319.0	50.0
		Weak QC microveins	59320	56.00-57.00	1.00	0.060	0.80	20.0	159.0	95.0	56.0	10.0
		Generally weakly foliated, weak calcite stockwork.	59321	57.00-58.00	1.00	0.230	1.60	24.0	261.0	80.0	60.0	12.0
		<49.68-57.20> Broken Core Highly broken with abundant limonite.										
		<57.20-58.52>Bleached light green, abundant gouge, clay on fractures.										
		<59.00-60.00> volcaniclastics	59322	58.00-59.00	1.00	0.520	1.60	36.0	299.0	120.0	156.0	14.0
		Brecciated	59323	59.00-60.00	1.00	1.380	2.80	85.0	390.0	480.0	407.0	36.0
		Rock contains fragments of pink calcite, broken calcite veinlets in groundmass of dark green chlorite. E.O.H. 60.66m.										
		(eoh)										

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-110

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-110	Date Completed:		Geotech by: MBW
LENGTH: 21.35	Core Diam: NQII		

Collar Location	
Latitude: 2040.00	
Departure: 1991.00	
Elevation: 0.00	

S U M M A R Y		DOWN HOLE SURVEYS			
		Depth	Azim	Inclin	Method
0.00-12.90	volcaniclastics *	0.00	225.00	-45.00	
12.90-15.80	volcaniclastics				
15.80-16.80	Chlorite Streaming				
16.80-19.50	volcaniclastics				
19.50-21.34	volcaniclastics				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	12.90	volcaniclastics	59362	0.00-1.00	1.00	0.080		14.0	48.0	5.0	31.0	14.0
		Fine grained, redish-green, wispy, heterolithic	59363	1.00-2.00	1.00	0.005		9.0	74.0		28.0	14.0
		fracturing 15°:vein 45°	59364	2.00-3.00	1.00	0.065		31.0	310.0	10.0	84.0	22.0
		Frs=12/m :Vns =15/m										
		Moderate SI patches										
		Strong CL pervasive										
		Moderate KS pervasive										
		Moderate HE stockwork										
		Weak PY disseminated										
		Weak QC microveins										
		Highly K-spar altered with fragments of altered rocks in hematite matrix, locally highly tension fractured and fine quartz/calcite veinlets along fractures at 2.40m., narrow chloritic/limonitic 1cm. shear plane, core is highly broken, locally altered along fractures to a pseudo breccia appearance, section is highly broken, limonite on fractures.										
<3.94-12.90>		Fine grained, blackish-red, veined	59365	3.00-4.00	1.00	24.800	1.60	85.0	461.0	40.0	59.0	22.0
		fracturing 45°:vein 45°	59366	4.00-5.00	1.00	0.335		66.0	268.0	15.0	66.0	18.0
		Frs=30/m :Vns =35/m	59367	5.00-6.00	1.00	0.920		47.0	135.0		85.0	26.0
		Moderate SI patches	59368	6.00-7.00	1.00	0.340		64.0	119.0	10.0	104.0	26.0
		Strong CL pervasive	59369	7.00-7.30	0.30	9.600	0.40	59.0	166.0	20.0	91.0	24.0
		Moderate MT patches	59370	7.30-7.70	0.40	102.000	2.60	77.0	172.0	25.0	85.0	60.0
		Moderate KS pervasive	59371	7.70-8.15	0.45	1.480		50.0	135.0	25.0	102.0	24.0
		Intense HE stockwork	59372	8.15-9.00	0.85	128.000	2.20	21.0	363.0	10.0	37.0	38.0
		Weak PY disseminated	59373	9.00-9.75	0.75	331.000	6.40	20.0	787.0	35.0	24.0	38.0
		Weak QC microveins	59374	9.75-10.50	0.75	3.700	6.60	47.0	9353.0	60.0	120.0	42.0
		H zone, strong chlorite/hematite sections, local	59375	10.50-11.00	0.50	0.295	0.80	46.0	1128.0	50.0	158.0	28.0
		K-spar/silicified sections, local 1 to 2cm. sections	59376	11.00-11.50	0.50	0.515	1.20	62.0	3474.0	40.0	200.0	28.0
		of K-spar with flat fractures across veinlets, giving boxwork texture.	59377	11.50-12.00	0.50	8.200	3.80	37.0	3322.0	115.0	104.0	20.0
			59378	12.00-12.50	0.50	3.650	0.80	31.0	666.0	135.0	194.0	16.0
<3.94-3.97>		Semi-massive hematite										
		Veined										
		vein 45°										
		Moderate SI patches										
		Strong CL pervasive										
		Moderate KS patches										
		Intense HE vein										
		Weak QC microveins										
		Hematite stringers up to 1cm., 50% of sections.										
<3.97-6.00>		Broken Core										
		Locally extremely broken, minor limonite in fractures, at 5.0m. fragments of massive hematite at 5.79m. 1cm.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		massive hematite veinlet.										
<7.30-7.36>		massive hematite Veined Intense CL vein Intense HE vein Weak QC microveins Narrow 5mm. wide chlorite veinlets at 45 degrees to core axis.										
<7.36-7.45>		volcaniclastics ?? CL clasts Narrow calcite/chlorite veinlets to 2mm. parallel to core axis.										
<8.20-9.75>		.2% Visible gold - fine grained MINERALIZATION- very fine grained visible gold at 9.45 to 9.50m.										
<8.20-9.75>		massive hematite Fine grained, red, veined microveins 45°:fracturing 45° Frs=4/m Intense SI pervasive Moderate CL pervasive Intense KS pervasive Intense HE vein Moderate SE microveins Weak QC microveins Rock appears to have been highly K-spar altered/silicified then brecciated with altered rounded fragments up to 1cm. in hematite rich matrix, fine specularite veinlets, some with calcite others as minute fracture filling, minor malachite/azurite on fractures. MINERALIZATION- very fine grained visible gold at 9.45 to 9.50m.										
<9.75-12.30>		Chlorite Streaming Fine grained, blackish-red, foliated, stockwork foliated 35°:fracturing 45° Frs=5/m :Vns =10/m Moderate SI patches Intense CL pervasive Weak MT patches Moderate KS pervasive Moderate HE stockwork Weak PY disseminated										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak QC microveins Dark black chlorite with 2cm., massive chlorite vein at 10.5m., fine disseminated pyrite <1%, local K-spar/silicified sections from 10.5 to 11.30m.										
<11.60-11.70>		massive hematite Veined Intense HE vein Massive hematite at 45 degrees to core axis.										
<12.30-12.90>		Semi-massive hematite Fine grained, red, veined vein 45°:fracturing 45° Moderate SI patches Intense CL pervasive Weak MT patches Moderate KS pervasive Intense HE vein Weak QC microveins Massive hematite vein fractures with fragments to 5 to 6 cm. long with heavy chlorite between fragments.										
12.90	15.80	volcaniclastics Fine grained, green, heterolithic, mottled stringer 35°:fracturing 45° Frs=4/m :Vns =3/m Moderate SI patches Intense CL pervasive Strong KS pervasive Moderate HE patches Weak PY disseminated Weak QC microveins Heavy chlorite streaming in areas of K-spar altered/silicified zones.	59379	12.50-13.00	0.50	2.600	1.20	96.0	2812.0	120.0	219.0	94.0
			59380	13.00-13.50	0.50	0.300		38.0	504.0		87.0	54.0
			59381	13.50-14.50	1.00	0.080		29.0	186.0		37.0	58.0
<14.80-15.80>		Broken Core Weak limonite on fractures.										
15.80	16.80	Chlorite Streaming Green, foliated foliated 45°:fracturing 15° Frs=3/m Moderate SI patches Intense CL pervasive Moderate KS pervasive Weak HE patches Weak PY disseminated	59382	14.50-16.00	1.50	0.030		25.0	199.0	15.0	32.0	34.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate QC microveins Very strong chlorite veining between fragments, fragments to 1 to 2cm.										
16.80	19.50	volcaniclastics	59383	16.00-17.00	1.00	0.055	0.20	27.0	298.0	5.0	33.0	32.0
		Fine grained, greenish-red, wispy, stockwork cleavage, foliation 45°:fracturing 45°	59384	17.00-18.00	1.00	0.020		22.0	193.0	15.0	44.0	22.0
		Frs=4/m :Vns =5/m Weak SI patches Intense CL pervasive Moderate KS pervasive Strong HE vein H zone dark chlorite, foliated with local narrow hematite veins.	59385	18.00-19.00	1.00	0.475		48.0	124.0	30.0	73.0	24.0
		<16.80-16.81> massive hematite Intense HE vein Massive hematite vein.										
		<18.00-18.29> Intense HE vein Massive hematite vein.										
		<19.05-19.50> Intense HE vein Massive hematite veinlet to 3cm. at 19.05 with strong malachite along fractures.										
19.50	21.34	volcaniclastics	59386	19.00-20.00	1.00	3.870	0.60	171.0	864.0	210.0	84.0	40.0
		Fine grained, green, mottled, heterolithic cleavage, foliation 45°:fracturing 45°	59387	20.00-21.34	1.34	0.020		30.0	80.0	50.0	133.0	24.0
		Weak SI patches Moderate CL pervasive Moderate KS pervasive Weak PY disseminated Moderate QC microveins Strong calcite veining locally strong chlorite alteration, locally with minor .5mm. chlorite veinlets.										
		(eoh)										

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-111

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-111	Date Completed:		Geotech by: MBW
LENGTH: 43.59	Core Diam: NQII		
Collar Location			
Latitude: 2040.00			
Departure: 1991.00			
Elevation: 0.00			
S U M M A R Y			
	DOWN HOLE SURVEYS		
	Depth	Azim	Inclin Method
0.00-43.59	0.00	225.00	-55.00

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<0.00-43.59> (eoh)			59388	0.00-1.00	1.00	0.010	0.40	19.0	212.0		26.0	18.0
			59389	1.00-2.00	1.00	0.015	0.40	12.0	76.0	5.0	20.0	18.0
			59390	2.00-3.00	1.00	0.005	0.40	11.0	104.0		25.0	20.0
			59391	3.00-4.00	1.00	0.005		9.0	54.0		37.0	16.0
			59392	4.00-5.00	1.00	0.005	0.40	10.0	61.0	5.0	49.0	16.0
			59393	5.00-6.00	1.00	0.010	0.20	12.0	148.0		82.0	14.0
			59394	6.00-7.00	1.00	0.005	0.20	15.0	158.0	5.0	114.0	18.0
			59395	7.00-8.00	1.00	1.440	1.00	65.0	195.0	30.0	150.0	28.0
			59396	8.00-9.00	1.00	0.140	1.00	38.0	141.0	5.0	57.0	22.0
			59397	9.00-10.00	1.00	0.095	0.60	37.0	118.0	5.0	47.0	20.0
			59398	10.00-11.00	1.00	0.105	0.20	37.0	127.0		49.0	20.0
			59399	11.00-12.00	1.00	0.160	0.40	41.0	114.0		49.0	18.0
			59400	12.00-13.00	1.00	2.190		45.0	167.0		47.0	30.0
			59401	13.00-14.00	1.00	0.110	0.40	46.0	189.0	10.0	40.0	56.0
			59402	14.00-15.00	1.00	0.675	0.40	54.0	186.0	15.0	63.0	24.0
			59403	15.00-16.00	1.00	4.060	1.20	58.0	1000.0	15.0	48.0	16.0
			59404	16.00-16.50	0.50	4.100		73.0	158.0	45.0	58.0	22.0
			59405	16.50-17.00	0.50	3.870	1.60	38.0	1526.0	45.0	51.0	24.0
			59406	17.00-17.50	0.50	0.130	3.40	86.0	4355.0		73.0	28.0
			59407	17.50-18.00	0.50	10.320	11.60	74.0		35.0	52.0	26.0
			59408	18.00-18.50	0.50	0.265	3.80	85.0	3325.0	40.0	78.0	28.0
			59409	18.50-19.00	0.50	1.970	0.20	104.0	324.0	35.0	88.0	28.0
			59410	19.00-20.00	1.00	0.125		41.0	163.0	10.0	66.0	22.0
			59411	20.00-21.00	1.00	0.930	2.40	72.0	1733.0	50.0	71.0	24.0
			59412	21.00-22.00	1.00	0.780	1.40	54.0	3751.0	60.0	55.0	42.0
			59413	22.00-23.00	1.00	0.210	3.00	64.0	7282.0	60.0	55.0	50.0
			59414	23.00-24.00	1.00	0.315		90.0	436.0	85.0	72.0	28.0
			59415	24.00-25.00	1.00	0.540	0.60	75.0	324.0	50.0	114.0	28.0
			59416	25.00-25.81	0.81	1.110		30.0	165.0	10.0	36.0	26.0
			59417	25.81-27.00	1.19	0.820		35.0	154.0	35.0	48.0	26.0
			59418	27.00-28.00	1.00	0.040		31.0	140.0	15.0	45.0	20.0
			59419	28.00-29.00	1.00	0.010		31.0	160.0	25.0	25.0	18.0
			59420	29.00-30.00	1.00	0.005		8.0	15.0		17.0	14.0
		59421	30.00-31.00	1.00	0.015		15.0	75.0	20.0	23.0	16.0	
		59422	31.00-32.00	1.00	0.010		16.0	54.0	25.0	21.0	16.0	
		59423	32.00-33.00	1.00	0.075	0.20	40.0	342.0	60.0	33.0	28.0	
		59424	33.00-34.00	1.00	0.005		46.0	364.0	90.0	38.0	32.0	
		59425	34.00-35.00	1.00	0.005		21.0	98.0	30.0	35.0	26.0	
		59426	35.00-36.00	1.00	0.040	0.40	42.0	364.0	70.0	45.0	32.0	
		59427	36.00-37.00	1.00	0.005		22.0	73.0	35.0	41.0	26.0	
		59428	37.00-38.00	1.00	0.005		27.0	137.0	45.0	38.0	30.0	
		59429	38.00-39.00	1.00	0.010		23.0	92.0	25.0	33.0	28.0	
		59430	39.00-40.00	1.00	0.005		23.0	73.0	10.0	33.0	28.0	
		59431	40.00-41.00	1.00	0.005		26.0	116.0	25.0	33.0	28.0	
		59432	41.00-42.00	1.00	0.005		25.0	85.0	15.0	31.0	26.0	
		59433	42.00-43.59	1.59	0.190		18.0	40.0	10.0	26.0	22.0	

HOLE: CL96-111

HOMESTAKE MINING COMPANY - Clone

PAGE 2 of 1

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm

11/29/96

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-112

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-112	Date Completed:		Geotech by: MBW
LENGTH: 46.63	Core Diam: NQII		
Collar Location			
Latitude: 2040.00			
Departure: 1991.00			
Elevation: 0.00			
S U M M A R Y			
		DOWN HOLE SURVEYS	
		Depth	Azim Incln Method
0.00-18.00	volcaniclastics	0.00	225.00 -65.00
18.00-32.40	volcaniclastics		
32.40-46.63	volcaniclastics **		

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	18.00	volcaniclastics	59434	0.31-1.00	0.69	0.005	0.20	16.0	51.0		24.0	18.0
		Fine grained, redish-green, heterolithic, mottled	59435	1.00-2.00	1.00	0.005	0.40	8.0	43.0	5.0	25.0	14.0
		cleavage, foliation 45°:hematite stringers 25°	59436	2.00-3.00	1.00	0.040	0.20	11.0	102.0		32.0	14.0
		Frs=8/m :Vns =25/m	59437	3.00-4.00	1.00	0.005		11.0	41.0		48.0	16.0
		Moderate SI patches	59438	4.00-5.00	1.00	0.005	0.40	11.0	80.0		50.0	20.0
		Strong CL pervasive	59439	5.00-6.00	1.00	0.010	0.40	11.0	117.0	5.0	35.0	16.0
		Strong KS pervasive	59440	6.00-7.00	1.00	0.005	0.40	10.0	99.0		35.0	16.0
		Moderate HE stockwork	59441	7.00-8.00	1.00	0.005		10.0	92.0	10.0	48.0	14.0
		Moderate QC microveins	59442	8.00-9.00	1.00	0.005	0.40	10.0	16.0		91.0	20.0
		Mottled red and green altered rock, local minor	59443	9.00-10.00	1.00	0.005	0.20	13.0	18.0		143.0	18.0
		hematite rich calcite veinlets, local intense K-spar	59444	10.00-11.00	1.00	0.010	0.20	12.0	23.0	15.0	148.0	18.0
		alteration/silicification to light green purple	59445	11.00-12.00	1.00	0.005	0.60	15.0	43.0		56.0	18.0
		sections.	59446	12.00-13.00	1.00	0.005		31.0	86.0		61.0	22.0
<3.00-3.50>		Broken Core										
		Weak limonite on fractures.										
<6.40-7.01>		Weak clay on fractures.										
<14.30-14.94>		gougy sheeted	59447	13.00-14.00	1.00	0.095		50.0	59.0		153.0	24.0
		Lost core.										
<16.00-17.67>		Broken Core	59448	14.00-15.00	1.00	0.130	0.40	90.0	51.0	20.0	98.0	24.0
		Limonite on fractures.	59449	15.00-16.00	1.00	0.275	0.60	60.0	306.0	10.0	44.0	18.0
18.00	32.40	volcaniclastics	59450	16.00-17.00	1.00	0.095	0.60	23.0	258.0	10.0	63.0	32.0
		Fine grained, redish-green, heterolithic, mottled	59451	17.00-18.00	1.00	0.005	0.80	31.0	1056.0	5.0	90.0	22.0
		cleavage, foliation 25°:hematite stringers 25°	59452	18.00-19.00	1.00	0.115	0.20	32.0	297.0	15.0	82.0	72.0
		Frs=5/m :Vns =30/m	59453	19.00-20.00	1.00	0.010	0.80	37.0	959.0	5.0	91.0	28.0
		Strong SI patches	59454	20.00-21.00	1.00	0.005		37.0	64.0		72.0	32.0
		Intense CL pervasive	59455	21.00-22.00	1.00	0.005		30.0	68.0	10.0	68.0	22.0
		Weak MT patches	59456	22.00-23.00	1.00	1.670		32.0	73.0		60.0	22.0
		Strong KS pervasive	59457	23.00-24.00	1.00	0.030		19.0	72.0	10.0	26.0	20.0
		Weak PY disseminated	59458	24.00-25.00	1.00	0.105		30.0	50.0		26.0	22.0
		Moderate QC microveins	59459	25.00-26.00	1.00	0.235	0.20	34.0	497.0	15.0	41.0	24.0
		H zone, generally weak zone with local areas of K-spar	59460	26.00-27.00	1.00	0.060		25.0	213.0		34.0	20.0
		alteration/silicification, chlorite streaming and	59461	27.00-28.00	1.00	0.005		36.0	106.0	5.0	49.0	56.0
		hematite veining, malachite staining at 25.20m.	59462	28.00-29.00	1.00	0.005		37.0	323.0		77.0	10.0
<18.10-18.30>		massive hematite										
		Veined										
		Strong quartz/calcite veining.										
<18.30-22.20>		Chlorite Streaming										
		Intense CL pervasive										
		Strong HE stockwork										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Intense chlorite with weak hematite wispy stringers.										
<20.00-32.40>		cleavage, foliation 10°:cleavage, foliation 25° Strong QC microveins	59463	29.00-30.00	1.00	0.005		35.0	103.0	5.0	62.0	8.0
		Intense chlorite with intense microveinlet stockwork of quartz/calcite, minor clay along fractures.	59464	30.00-31.00	1.00	0.005		35.0	83.0		74.0	10.0
			59465	31.00-32.00	1.00	0.035		43.0	227.0		101.0	22.0
32.40	46.63	volcaniclastics	59466	32.00-33.00	1.00	0.215		24.0	67.0	5.0	58.0	16.0
		Fine grained, green, mottled, heterolithic cleavage, foliation 10°:fracturing 25° Frs=5/m	59467	33.00-34.00	1.00	0.005		14.0	25.0		35.0	4.0
		Moderate SI patches	59468	34.00-35.00	1.00	0.005		11.0	31.0		35.0	4.0
		Strong CL pervasive	59469	35.00-36.00	1.00	0.005		17.0	55.0		33.0	6.0
		Moderate KS pervasive	59470	36.00-37.00	1.00	0.120		21.0	74.0		32.0	6.0
		Weak HE patches	59471	37.00-38.00	1.00	0.130		13.0	156.0		32.0	4.0
		Moderate PY patches	59472	38.00-39.00	1.00	0.005		12.0	16.0		32.0	4.0
		Moderate QC microveins	59473	39.00-40.00	1.00	0.005		14.0	15.0		33.0	4.0
		Green highly crackled with minute calcite veinlets alogn fractures.	59474	40.00-41.00	1.00	0.005		17.0	41.0		33.0	8.0
			59475	41.00-42.00	1.00	0.005		13.0	31.0		34.0	4.0
			59476	42.00-43.00	1.00	0.005		11.0	16.0		34.0	4.0
			59477	43.00-44.00	1.00	0.005		12.0	21.0		36.0	6.0
<37.50-37.52>		MINERALIZATION- 50% pyrite.										
<37.50-37.52>		semi-massive sulphides MINERALIZATION- 50% pyrite.										
<44.20-46.63>		Moderate MT patches	59478	44.00-45.00	1.00	0.015		35.0	102.0	25.0	75.0	8.0
		MINERALIZATION- 3% pyrite as local patches.	59479	45.00-46.63	1.63	0.045		32.0	160.0		73.0	10.0
<44.20-46.63>		Chlorite Streaming Intense CL pervasive Moderate PY patches Local hematite rich fragments in highly chloritic zone. MINERALIZATION- 3% pyrite as local patches.										
(eoh)												

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-113

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-113	Date Completed:		Geotech by: MBW
LENGTH: 69.49	Core Diam: NQII		

Collar Location	
Latitude: 2040.00	
Departure: 1991.00	
Elevation: 0.00	

S U M M A R Y

0.00-39.50	volcaniclastics
39.50-41.30	Semi-massive hematite
41.30-48.60	volcaniclastics
48.60-53.34	rubbly fault zone *
53.34-61.50	volcaniclastics
61.50-69.49	volcaniclastics

DOWN HOLE SURVEYS			
Depth	Azim	Inclin	Method
0.00	225.00	-75.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	39.50	volcaniclastics	59480	0.00-1.00	1.00	0.005		15.0	162.0		27.0	12.0
		Fine grained, reddish-green, mottled, heterolithic	59481	1.00-2.00	1.00	0.005		15.0	20.0		32.0	8.0
		cleavage, foliation 80°:fracturing 45°	59482	2.00-3.00	1.00	0.005		14.0	40.0		28.0	10.0
		Frs=6/m :Vns =20/m	59483	3.00-4.00	1.00	0.005		16.0	90.0		43.0	10.0
		Moderate SI patches	59484	4.00-5.00	1.00	0.005		10.0	71.0		29.0	10.0
		Strong CL pervasive	59485	5.00-6.00	1.00	0.005		12.0	28.0		87.0	8.0
		Strong KS pervasive	59486	6.00-7.00	1.00	0.005		12.0	26.0		77.0	6.0
		Moderate HE stockwork	59487	7.00-8.00	1.00	0.005		12.0	58.0		70.0	10.0
		Weak PY disseminated	59488	8.00-9.00	1.00	0.005		12.0	98.0		45.0	8.0
		Weak QC microveins	59489	9.00-10.00	1.00	0.005		12.0	34.0		55.0	8.0
		Variably mottled locally intense K-spar	59490	10.00-11.00	1.00	0.005		12.0	36.0		39.0	8.0
		altered/silicified at 5.80 to 6.30m., rock has strong	59491	11.00-12.00	1.00	0.005		13.0	53.0		33.0	8.0
		brecciated appearance with clasts up to 5cm. (clasts	59492	12.00-13.00	1.00	0.005		14.0	53.0		33.0	8.0
		are hornblende porphyry) in hematite matrix, 14.0 to	59493	13.00-14.00	1.00	0.005		14.0	44.0		35.0	8.0
		16.0m. strong hematite stockwork, 30.0 to 31.95m.	59494	14.00-15.00	1.00	0.085		81.0	41.0		39.0	10.0
		alteration along fractures giving psuedo breccia	59495	15.00-16.00	1.00	0.010		50.0	159.0		46.0	16.0
		appearance at 31.20, 2cm. wide zone of cavities with	59496	16.00-17.00	1.00	0.005		22.0	50.0		40.0	10.0
		fine calcite crystals plus traces of malachite.	59497	17.00-18.00	1.00	0.010		24.0	245.0		46.0	8.0
<31.95-39.50>		Fine grained, reddish-green, mottled, stockwork	59498	18.00-19.00	1.00	0.335		83.0	73.0		101.0	20.0
		cleavage, foliation 80°:fracturing 45°	59499	19.00-20.00	1.00	0.145		51.0	125.0		83.0	12.0
		Frs=4/m :Vns =5/m	59500	20.00-21.00	1.00	0.060		52.0	79.0		70.0	14.0
		Moderate SI patches	59501	21.00-22.00	1.00	0.100		64.0	191.0		111.0	30.0
		Strong CL pervasive	59502	22.00-23.00	1.00	0.005		43.0	25.0		111.0	12.0
		Moderate KS pervasive	59503	23.00-24.00	1.00	0.130		34.0	155.0		97.0	12.0
		Moderate EP microveins	59504	24.00-25.00	1.00	0.155		34.0	618.0		95.0	14.0
		Weak HE stockwork	59505	25.00-26.00	1.00	0.005		37.0	118.0		116.0	14.0
		Weak PY disseminated	59506	26.00-27.00	1.00	0.005		38.0	223.0		119.0	18.0
		Moderate QV microveins	59507	27.00-28.00	1.00	0.345		31.0	191.0		192.0	12.0
		Moderate QC microveins	59508	28.00-29.00	1.00	0.260		68.0	330.0		234.0	12.0
		Generally weak hematite stockwork, strong	59509	29.00-30.00	1.00	0.075	0.80	57.0	643.0	15.0	259.0	10.0
		epidote/quartz veinlets stockwork, local strong K-spar	59510	30.00-31.00	1.00	0.010	1.80	23.0	1869.0		118.0	64.0
		alteratio/silicification, locally highly fractured	59511	31.00-32.00	1.00	0.020	3.40	28.0	4307.0	30.0	106.0	94.0
		with minute calcite stockwork.	59512	32.00-33.00	1.00	0.005		49.0	187.0		92.0	122.0
39.50	41.30	Semi-massive hematite	59513	33.00-34.00	1.00	0.005		40.0	193.0		84.0	16.0
		Fine grained, reddish-green, veined	59514	34.00-35.00	1.00	0.005		43.0	49.0	10.0	70.0	14.0
		fracturing 45°:hematite stringers 45°	59515	35.00-36.00	1.00	0.005		42.0	51.0	10.0	75.0	16.0
		Frs=4/m :Vns =25/m	59516	36.00-37.00	1.00	0.005		41.0	65.0		73.0	18.0
		Strong SI patches	59517	37.00-38.00	1.00	0.030		63.0	331.0		66.0	36.0
		Strong CL pervasive	59518	38.00-39.00	1.00	0.005		44.0	93.0		65.0	22.0
		Strong KS pervasive	59519	39.00-39.50	0.50	0.005		34.0	52.0		75.0	16.0
		Strong HE stockwork	59520	39.50-40.00	0.50	0.525		42.0	814.0	5.0	92.0	20.0
		Weak QC microveins	59521	40.00-40.50	0.50	0.390		77.0	139.0	30.0	101.0	16.0
		H zone, generally narrow zone of massive hematite	59522	40.50-41.00	0.50	2.520		295.0	165.0	290.0	47.0	24.0
		stringers, highly K-spar altered/silicified zones plus										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		intense chlorite streaming.										
	<40.98-41.30>	massive hematite Veined Intense HE vein										
41.30	48.60	volcaniclastics	59523	41.00-41.50	0.50	6.120		340.0	244.0	305.0	112.0	16.0
		Fine grained, green, heterolithic, foliated	59524	41.50-42.00	0.50	0.035		27.0	240.0		94.0	24.0
		foliated 15°:fracturing 45°	59525	42.00-43.00	1.00	0.475		94.0	347.0	40.0	86.0	32.0
		Frs=3/m	59526	43.00-44.00	1.00	1.180	0.60	248.0	574.0	190.0	208.0	26.0
		Moderate SI patches	59527	44.00-45.00	1.00	0.095	0.60	321.0	412.0	225.0	239.0	20.0
		Strong CL pervasive	59528	45.00-46.00	1.00	0.005		46.0	418.0	35.0	101.0	20.0
		Moderate KS pervasive	59529	46.00-47.00	1.00	0.005		43.0	239.0	10.0	75.0	18.0
		Moderate PY patches	59530	47.00-48.00	1.00	0.040		44.0	166.0	95.0	117.0	20.0
		Weak QC microveins										
		Locally strongly limonitic with malachite stain at 43.90 to 44.0m., zone appears to have been brecciated with fragments of hematite rich calcite in very chloritic section, narrow patches and veinlets of pyrite. MINERALIZATION- 4% pyrite.										
48.60	53.34	rubbly fault zone	59531	48.00-49.00	1.00	0.135		30.0	141.0	60.0	96.0	16.0
		Fine grained, green, gouge	59532	49.00-50.00	1.00	0.180	0.40	38.0	146.0	145.0	84.0	16.0
		fault/gouge 10°	59533	50.00-51.00	1.00	0.705	2.40	71.0	319.0	765.0	121.0	30.0
		Intense CL pervasive	59534	51.00-52.00	1.00	1.570	3.00	270.0	487.0	225.0	155.0	20.0
		Strong PY patches	59535	52.00-53.00	1.00	1.110	0.80	229.0	129.0	80.0	183.0	10.0
		Extremely highly broken and abundant gouge, abundant limonite in unweathered fragments. MINERALIZATION- 7% coarse pyrite as patches, minor hematite fragments.										
	<48.60-53.34>	?? MT patches MINERALIZATION- 7% coarse pyrite as patches, minor hematite fragments.										
53.34	61.50	volcaniclastics	59536	53.00-54.00	1.00	0.020	1.00	19.0	291.0	25.0	51.0	10.0
		Fine grained, green, mottled, heterolithic	59537	54.00-55.00	1.00	0.010	1.20	17.0	157.0		52.0	10.0
		fracturing 45°:foliated 15°	59538	55.00-56.00	1.00	0.005	1.00	16.0	96.0		51.0	18.0
		Frs=5/m :Vns =5/m	59539	56.00-57.00	1.00	0.005	0.40	18.0	124.0		54.0	16.0
		Strong SI pervasive	59540	57.00-58.00	1.00	0.005	0.40	25.0	132.0		69.0	10.0
		Strong CL pervasive	59541	58.00-59.00	1.00	0.005		23.0	80.0		62.0	10.0
		Strong KS pervasive	59542	59.00-60.00	1.00	0.040		26.0	65.0		81.0	14.0
		Moderate HE stockwork	59543	60.00-61.00	1.00	0.005	0.40	35.0	28.0	15.0	115.0	10.0
		Moderate PY patches										
		Weak QV vein										
		Moderate QC microveins										
		Generally strongly K-spar altered/silicified with local bleaching to light gray/purple, local strong										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		pyrite along fractures, K-spar veinlets of calcite forming boxwork texture along veinlets.										
		<57.10-57.13> QUARTZ-CALCITE VEINS Vuggy Vuggy.										
61.50	63.10	volcaniclastics	59544	61.00-62.50	1.50	0.065		25.0	83.0	10.0	110.0	12.0
		Fine grained, green, mottled, heterolithic	59545	62.50-64.00	1.50	0.005	0.40	19.0	83.0	10.0	119.0	18.0
		fracturing 45°:foliated 15°	59546	64.00-65.50	1.50	0.005		14.0	103.0		99.0	18.0
		Frs=3/m	59547	65.50-67.00	1.50	0.080		30.0	134.0	10.0	118.0	12.0
		Strong SI pervasive	59548	67.00-68.50	1.50	0.005		25.0	101.0		154.0	22.0
		Strong CL pervasive	59549	68.50-69.49	0.99	0.005	0.40	20.0	127.0	10.0	98.0	50.0
		Strong KS pervasive										
		Weak PY patches										
		Weak QV vein										
		Moderate QC microveins										
		Narrow K-spar veinlets along core axis from 63.50 to 64.60m., alteration to 2cm. wide along very narrow chlorite filled fractures.										
		<62.85-63.10>Zone of strong quartz/calcite veining to 0.5mm. and 10% of section, veinlets are vuggy.										
		<63.60-63.84> QUARTZ-CALCITE VEINS Vuggy.										
		(eoh)										

11/29/96

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-114

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-114	Date Completed:		Geotech by: MBW
LENGTH: 106.36	Core Diam: NQII		
Collar Location			
Latitude: 2040.00			
Departure: 1991.00			
Elevation: 0.00			
S U M M A R Y			
		DOWN HOLE SURVEYS	
		Depth	Azim
		Inclin	Method
0.00-37.80	volcaniclastics	0.00	225.00
37.80-68.50	volcaniclastics *		-85.00
68.50-89.00	volcaniclastics *		
89.00-106.36	volcaniclastics *		

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	37.80	volcaniclastics	59550	1.00-2.00	1.00	0.005		18.0	15.0		42.0	12.0
		Fine grained, redish-green, mottled, heterolithic	59551	2.00-3.00	1.00	0.005		14.0	89.0		40.0	14.0
		cleavage, foliation 45°:fracturing 45°	59552	3.00-4.00	1.00	0.035		13.0	77.0		27.0	46.0
		Frs=7/m :Vns =30/m	59553	4.00-5.00	1.00	0.005		15.0	47.0	5.0	40.0	10.0
		Moderate SI patches	59554	5.00-6.00	1.00	0.005		16.0	19.0		33.0	10.0
		Strong CL pervasive	59555	6.00-7.00	1.00	0.005		15.0	20.0		32.0	10.0
		Strong KS pervasive	59556	7.00-8.00	1.00	0.005		12.0	45.0		28.0	10.0
		Strong HE stockwork	59557	8.00-9.00	1.00	0.010		15.0	34.0		33.0	12.0
		Weak PY disseminated	59558	9.00-10.00	1.00	0.055		15.0	34.0	5.0	34.0	12.0
		Weak QC microveins	59559	10.00-11.00	1.00	0.065		15.0	84.0		34.0	14.0
		Strong hematite/chlorite alteration, local strong	59560	11.00-12.00	1.00	0.010		11.0	21.0		27.0	10.0
		K-spar alteration/silcification, locally intensely	59561	12.00-13.00	1.00	0.010		13.0	75.0		26.0	14.0
		fractured veining and stockwork.	59562	13.00-14.00	1.00	0.005		13.0	121.0		29.0	10.0
<15.10-15.70>		Broken Core	59563	14.00-15.00	1.00	0.015		13.0	180.0		31.0	12.0
<22.50-23.00>		calcite vein	59564	15.00-16.00	1.00	0.025		12.0	53.0		42.0	10.0
		Approximately 30% calcite veining with chlorite	59565	16.00-17.00	1.00	0.010		11.0	38.0		30.0	10.0
		fragments in calcite, largest vein to 2.5cm.	59566	17.00-18.00	1.00	0.020		12.0	90.0		27.0	10.0
<23.50-25.45>		Broken Core	59567	18.00-19.00	1.00	0.005		15.0	48.0		33.0	12.0
		Limonitic on fractures.	59568	19.00-20.00	1.00	0.015		14.0	37.0		37.0	12.0
<24.38-25.00>		volcaniclastics	59569	20.00-21.00	1.00	0.005		16.0	107.0		36.0	10.0
		Fine grained, vuggy	59570	21.00-22.00	1.00	0.005		25.0	100.0		70.0	14.0
		Strong SI patches	59571	22.00-23.00	1.00	0.010		32.0	24.0		136.0	18.0
		Intense KS pervasive	59572	23.00-24.00	1.00	0.010		37.0	166.0		156.0	18.0
		Bleached red green, brecciated with vuggy vein filled	59573	24.00-25.00	1.00	0.025	1.60	17.0	1184.0		57.0	10.0
		with small calcite crystals, minor malachite on										
		fractures, section appears highly K-spar										
		altered/silicified.										
<33.15-33.20>		calcite vein	59574	25.00-26.00	1.00	0.005	1.60	36.0	1359.0		109.0	18.0
		Chlorite inclusions in vein.	59575	26.00-27.00	1.00	0.005		36.0	152.0		86.0	20.0
<33.20-36.12>		Broken Core	59576	27.00-28.00	1.00	0.005		36.0	145.0		107.0	16.0
		Limonitic on fractures.	59577	28.00-29.00	1.00	0.005		29.0	110.0		84.0	16.0
<36.50-37.00>		Limonitic on fractures.	59578	29.00-30.00	1.00	0.010		38.0	375.0		199.0	18.0
37.80	68.50	volcaniclastics	59579	30.00-31.00	1.00	0.010	1.00	39.0	1219.0		84.0	22.0
		Fine grained, green, mottled, heterolithic	59580	31.00-32.00	1.00	0.015	0.20	33.0	547.0		106.0	20.0
		fracturing 45°:cleavage, foliation 35°	59581	32.00-33.00	1.00	0.015		14.0	139.0		58.0	12.0
		Frs=6/m	59582	33.00-34.00	1.00	0.065	0.40	25.0	372.0		119.0	14.0
		Moderate SI patches	59583	34.00-35.00	1.00	0.005		27.0	119.0		119.0	14.0
		Strong CL pervasive	59584	35.00-36.00	1.00	0.005		22.0	147.0		89.0	16.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate KS pervasive	59585	36.00-37.00	1.00	0.005	1.80	20.0	669.0		86.0	68.0
		Moderate PY microveins	59586	37.00-38.00	1.00	0.090	0.80	19.0	1540.0		89.0	28.0
		Weak QV vein	59587	38.00-39.00	1.00	0.010	0.40	16.0	102.0	5.0	73.0	62.0
		Weak QC microveins	59588	39.00-40.00	1.00	0.015	0.60	12.0	136.0	20.0	55.0	94.0
		Locally K-spar altered/silicified, locally vuggy along carbonate filled fractures, pyrite occurs as patches	59589	40.00-41.00	1.00	0.040	0.80	13.0	200.0	15.0	80.0	14.0
		and as fine fracture filling, local strong wispy chlorite stringers (black) as selvages to sulphide stringers.	59590	41.00-42.00	1.00	0.040	0.40	9.0	75.0	5.0	42.0	14.0
			59591	42.00-43.00	1.00	0.075	0.20	12.0	63.0		36.0	16.0
			59592	43.00-44.00	1.00	0.020		15.0	90.0		39.0	16.0
			59593	44.00-45.00	1.00	0.025		11.0	61.0		37.0	12.0
<38.50-39.00>		Broken Core										
<39.50-41.80>		rubbly fault zone sheeting 40° Highly broken with clay on fractures at 40.90 to 41.80m. poor recovery with fault gouge, minor limonite on fractures.										
<39.55-39.58>		calcite vein										
<41.20-42.75>		volcaniclastics Intense KS pervasive High K-spar altered fragments to 60% in black chlorite matrix, minor hematite rich fragments, fragments vary from angular to rounded.										
<43.00-66.00>		Strong SI patches	59594	45.00-46.00	1.00	0.005		9.0	27.0		54.0	14.0
		Strong CL pervasive	59595	46.00-47.00	1.00	0.025	0.20	9.0	62.0		35.0	10.0
		Strong KS pervasive	59596	47.00-48.00	1.00	0.010		8.0	20.0		33.0	12.0
		Moderate PY microveins	59597	48.00-49.00	1.00	0.015	0.80	15.0	74.0	10.0	30.0	12.0
		Locally vuggy along fractures, minor limonite strong fractures, local strong K-spar alteration/silicification.	59598	49.00-50.00	1.00	0.015	1.00	31.0	61.0		34.0	10.0
			59599	50.00-51.00	1.00	0.010	0.40	18.0	46.0	10.0	39.0	12.0
			59600	51.00-52.00	1.00	0.020	0.20	23.0	67.0		31.0	12.0
<62.30-68.50>		Moderate MT vein MINERALIZATION- 3% pyrite as fine veinlets, minor hematite.	59601	52.00-53.00	1.00	0.015	0.40	12.0	39.0		57.0	28.0
			59602	53.00-54.00	1.00	0.020		11.0	63.0		37.0	16.0
			59603	54.00-55.00	1.00	0.010	0.60	12.0	56.0	10.0	31.0	20.0
<62.30-68.50>		volcaniclastics Mottled Moderate SI patches Strong CL pervasive Strong KS pervasive Weak HE stockwork Moderate PY microveins Strong K-spar alteration to locally pink to tan colour. MINERALIZATION- 3% pyrite as fine veinlets,	59604	55.00-56.00	1.00	0.030	0.60	16.0	102.0	15.0	41.0	32.0
			59605	56.00-57.00	1.00	0.015	0.40	14.0	67.0		40.0	20.0
			59606	57.00-58.00	1.00	0.010		13.0	66.0	5.0	34.0	18.0
			59607	58.00-59.00	1.00	0.015		13.0	69.0		41.0	16.0
			59608	59.00-60.00	1.00	0.015	0.40	14.0	76.0		50.0	24.0
			59609	60.00-61.00	1.00	0.005		11.0	56.0		38.0	16.0
			59610	61.00-62.00	1.00	0.005		11.0	48.0		38.0	12.0
			59611	62.00-63.00	1.00	0.030	0.60	29.0	74.0	15.0	35.0	14.0
			59612	63.00-64.00	1.00	0.005	0.40	15.0	55.0		67.0	18.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		minor hematite.	59613	64.00-65.00	1.00	0.010	0.60	26.0	138.0		88.0	20.0
<68.50-89.00>		Fine grained, redish-green, mottled, foliated hematite stringers 10°:fracturing 10°	59614	65.00-66.00	1.00	0.005		17.0	75.0		61.0	14.0
		Frs=5/m :Vns =35/m	59615	66.00-67.00	1.00	0.020	1.00	15.0	76.0	5.0	40.0	24.0
		Moderate SI patches	59616	67.00-68.00	1.00	0.005		21.0	51.0		60.0	16.0
		Strong CL pervasive	59617	68.00-69.00	1.00	0.120	0.40	52.0	150.0	35.0	61.0	36.0
		Moderate MT patches	59618	69.00-70.00	1.00	0.405		77.0	152.0	30.0	93.0	12.0
		Moderate KS pervasive	59619	70.00-71.00	1.00	3.670		46.0	120.0	10.0	88.0	14.0
		Strong HE stockwork	59620	71.00-72.00	1.00	1.270		64.0	150.0	20.0	62.0	18.0
		Moderate PY vein	59621	72.00-73.00	1.00	0.170		27.0	52.0		64.0	26.0
		Moderate QC microveins	59622	73.00-74.00	1.00	0.010		11.0	16.0		45.0	20.0
		H zone, generally weak H zone with several areas of narrow hematite/magnetite veinlets, streaming and local strong K-spar/silcification.	59623	74.00-75.00	1.00	0.015		12.0	72.0		41.0	18.0
			59624	75.00-76.00	1.00	0.005		11.0	62.0		46.0	14.0
			59625	76.00-77.00	1.00	0.250		23.0	98.0	5.0	95.0	22.0
			59626	77.00-78.00	1.00	1.870	1.00	20.0	106.0	5.0	103.0	52.0
<69.00-69.20>		Strong SI patches Strong CL pervasive Intense KS pervasive Light purple to red K-spar altered, minute fine calcite veinlets along numerous tension fractures.										
<70.90-70.95>		massive hematite Veined Intense MT patches Intense HE vein Strong K-spar selvages up to 3cm. on wall of vein.										
<71.60-71.63>		vein 10° Moderate MT patches Intense HE vein										
<72.40-72.80>		volcaniclastics Strong K-spar alteration along zones up to 4cm. at 10 degrees to core axis, strong tension fracturing along zones with black chlorite wisps along selvages.										
<77.70-78.00>		0.5mm. blood red hematite stringer at 10 degrees to core axis.										
<79.25-79.80>		MINERALIZATION- 5% pyrite.	59627	78.00-79.00	1.00	0.030		18.0	60.0		82.0	16.0
<79.25-79.80>		volcaniclastics Moderate PY microveins Very fine closely spaced pyrite veinlets along fractures. MINERALIZATION- 5% pyrite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<81.00-81.40>		Same as 77.70 to 78.0m.	59628	79.00-80.00	1.00	0.120	0.40	24.0	182.0		90.0	14.0
<87.95-88.05>		Semi-massive hematite	59629	80.00-81.00	1.00	0.370	0.20	19.0	92.0	15.0	76.0	12.0
		Strong MT patches	59630	81.00-82.00	1.00	0.430	0.20	36.0	107.0	20.0	63.0	12.0
		Intense HE vein	59631	82.00-83.00	1.00	0.080		46.0	119.0	40.0	64.0	10.0
<88.00-89.00>		Chlorite Streaming	59632	83.00-84.00	1.00	0.245	0.40	83.0	208.0	80.0	73.0	16.0
		Intense CL pervasive	59633	84.00-85.00	1.00	0.005	0.20	30.0	140.0	25.0	83.0	18.0
		Strong HE patches	59634	85.00-86.00	1.00	0.005		21.0	94.0	20.0	62.0	12.0
		Strong PY vein	59635	86.00-87.00	1.00	0.005		46.0	98.0	45.0	83.0	12.0
		Very strong black chlorite with patchy hematite and sparse pyrite.	59636	87.00-87.95	0.95	0.005		197.0	333.0	210.0	139.0	10.0
			59637	87.95-89.00	1.05	1.980	0.80	551.0	646.0	680.0	135.0	18.0
<88.50-88.60>		semi-massive sulphides Several 1cm. wide pyrite veins with 30% hematite.										
89.00	106.36	volcaniclastics	59638	89.00-90.00	1.00	0.020		74.0	161.0	100.0	51.0	26.0
		Fine grained, green, mottled, heterolithic	59639	90.00-91.00	1.00	0.015		34.0	117.0	50.0	44.0	14.0
		fracturing 45°:cleavage, foliation 45°	59640	91.00-92.00	1.00	0.060		15.0	50.0	20.0	48.0	20.0
		Frs=6/m	59641	92.00-93.00	1.00	0.005	0.20	8.0	31.0	10.0	42.0	12.0
		Moderate SI patches	59642	93.00-94.00	1.00	0.005	0.20	57.0	78.0	70.0	56.0	14.0
		Moderate CL pervasive	59643	94.00-95.00	1.00	0.010	0.20	102.0	109.0	130.0	65.0	16.0
		Moderate KS pervasive										
		Weak HE patches										
		Moderate PY microveins										
		Strong QC microveins										
		Green mottled with wispy black chlorite microveins from 0 to 10 degrees to core axis, local strong calcite veining, minor K-spar alteration along 1cm. zones at 10 degrees to core axis. MINERALIZATION- 2% pyrite as patches and fine veinlets.										
<89.00-106.36>		Weak MT patches MINERALIZATION- 2% pyrite as patches and fine veinlets.										
<92.40-92.45>		calcite vein										
<94.50-94.52>		gougy sheeted sheeting 45°										
(eoh)												

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-115

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-115	Date Completed:		Geotech by: MBW
LENGTH: 23.17	Core Diam: NQII		

Collar Location	
Latitude: 2032.00	
Departure: 1987.00	
Elevation: 0.00	

S U M M A R Y

0.00-17.30 volcaniclastics
 17.30-19.63 volcaniclastics
 19.63-23.17 volcaniclastics *

DOWN HOLE SURVEYS			
Depth	Azim	Inclin	Method
0.00	225.00	-45.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	17.30	volcaniclastics	59644	1.00-2.00	1.00	0.005		11.0	18.0		48.0	14.0
		Fine grained, redish-green, heterolithic, mottled	59645	2.00-3.00	1.00	0.005		13.0	77.0		44.0	14.0
		cleavage, foliation 45°:fracturing 45°	59646	3.00-4.00	1.00	0.005		14.0	86.0		47.0	14.0
		Frs=5/m :Vns =10/m	59647	4.00-5.00	1.00	0.005					6.0	
		Moderate SI patches	59648	5.00-6.00	1.00	0.005		12.0	49.0		44.0	12.0
		Strong CL pervasive	59649	6.00-7.00	1.00	0.005		12.0	14.0		36.0	12.0
		Moderate KS pervasive	59650	7.00-8.00	1.00	0.005		12.0	17.0	10.0	39.0	12.0
		Moderate HE stockwork	59651	8.00-9.00	1.00	0.005		11.0	43.0		28.0	10.0
		Moderate QC microveins	59652	9.00-10.00	1.00	0.005		13.0	109.0		41.0	12.0
		Variably chlorite/hematite altered as well as locally	59653	10.00-11.00	1.00	0.005		14.0	227.0		41.0	12.0
		K-spar altered/silicified, local strong quartz/calcite	59654	11.00-12.00	1.00	0.005		14.0	91.0		103.0	12.0
		stockwork, narrow calcite/chlorite veinlets generally	59655	12.00-13.00	1.00	0.010		12.0	24.0		110.0	10.0
		2mm. throughout section, K-spar altered sections are	59656	13.00-14.00	1.00	0.080		21.0	49.0	10.0	125.0	14.0
		generally distinct light red to purple with strong	59657	14.00-15.00	1.00	0.065		14.0	34.0		123.0	12.0
		tension fracturing and subsequent calcite infusion.	59658	15.00-16.00	1.00	0.250		31.0	37.0	20.0	169.0	14.0
	<11.16-11.17>	massive hematite										
	<11.50-13.00>	volcaniclastics Foliated Hematite stringers foliated at 45 degrees to core axis.										
	<17.30-19.63>	Fine grained, redish-green, stockwork	59659	16.00-17.00	1.00	0.650		55.0	307.0	15.0	126.0	20.0
		cleavage, foliation 45°:fracturing 45°	59660	17.00-18.00	1.00	0.370		100.0	280.0	60.0	170.0	14.0
		Moderate SI patches	59661	18.00-19.00	1.00	0.195		29.0	110.0		99.0	12.0
		Moderate CL pervasive	59662	19.00-19.63	0.63	14.220		26.0	239.0	50.0	36.0	8.0
		Moderate KS pervasive										
		Strong HE stockwork										
		Moderate QC microveins										
		H zone, weak zone with K-spar alteration along minute calcite/chlorite veinlets (as selvages), minor narrow calcite/chlorite veinlets to 2mm.										
	<19.25-19.50>	Semi-massive hematite Intense HE vein Patches and massive hematite veins to 2cm. wide.										
19.63	23.17	volcaniclastics	59663	19.63-21.00	1.37	0.055		34.0	132.0	20.0	61.0	10.0
		Fine grained, green, mottled, heterolithic	59664	21.00-22.00	1.00	0.030		30.0	102.0	15.0	48.0	6.0
		cleavage, foliation 45°:fracturing 35°	59665	22.00-23.17	1.17	0.025		36.0	152.0	15.0	50.0	6.0
		Frs=5/m										
		Weak SI patches										
		Strong CL pervasive										
		Weak KS pervasive										
		Weak HE stockwork										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate PY patches Strong QC microveins Strongly chloritic, highly crackled with abundant calcite veining as fracture filling, minor local hematite. MINERALIZATION- 3% pyrite as patches.										
	<19.63-23.17>	Moderate MT patches MINERALIZATION- 3% pyrite as patches.										
	(eoh)											

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-116

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-116	Date Completed:		Geotech by: MBW
LENGTH: 48.84	Core Diam: 0NQI		

Collar Location	
Latitude: 2032.00	
Departure: 1987.00	
Elevation: 0.00	

S U M M A R Y		D O W N H O L E S U R V E Y S			
		Depth	Azim	Inclin	Method
0.00-23.18	volcaniclastics *	0.00	225.00	-55.00	
23.18-40.84	volcaniclastics				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm	
0.00	23.18	volcaniclastics	59666	1.00-2.00	1.00	0.020			10.0	18.0		40.0	6.0
		Fine grained, redish-green, heterolithic, mottled	59667	2.00-3.00	1.00	0.010			9.0	92.0		39.0	6.0
		fracturing 35°:cleavage, foliation 80°	59668	3.00-4.00	1.00	0.015			9.0	48.0		36.0	6.0
		Frs=4/m :Vns =25/m	59669	4.00-5.00	1.00	0.020			9.0	153.0		32.0	8.0
		Moderate SI patches	59670	5.00-6.00	1.00	0.010			10.0	51.0		36.0	6.0
		Moderate CL pervasive	59671	6.00-7.00	1.00	0.015			8.0	186.0		31.0	16.0
		Moderate KS pervasive	59672	7.00-8.00	1.00	0.020			9.0	145.0		33.0	12.0
		Strong HE stockwork	59673	8.00-9.00	1.00	0.015			11.0	25.0		33.0	6.0
		Strong QC microveins	59674	9.00-10.00	1.00	0.030			6.0	85.0		27.0	4.0
		Mottled red green, local intense microveinlets	59675	10.00-11.00	1.00	0.015			9.0	142.0		30.0	6.0
		stockwork of calcite, patchy wispy chlorite stringers	59676	11.00-12.00	1.00	0.030	0.60		12.0	598.0		32.0	6.0
		to 1mm., minor limonite on fractures.	59677	12.00-13.00	1.00	0.050			16.0	106.0		31.0	4.0
<18.90-23.18>		Fine grained, redish-green, stockwork	59678	13.00-14.00	1.00	0.035			12.0	72.0		38.0	4.0
		hematite stringers 35°:fracturing 35°	59679	14.00-15.00	1.00	0.020			11.0	69.0		41.0	6.0
		Frs=4/m :Vns =40/m	59680	15.00-16.00	1.00	0.010			11.0	61.0		49.0	6.0
		Moderate SI patches	59681	16.00-17.00	1.00	0.045			27.0	262.0		71.0	8.0
		Strong CL pervasive	59682	17.00-18.00	1.00	0.035			26.0	121.0	10.0	55.0	46.0
		Weak MT patches	59683	18.00-19.00	1.00	0.025			42.0	88.0	15.0	69.0	8.0
		Moderate KS pervasive	59684	19.00-20.00	1.00	0.060	0.40	130.0	1410.0	30.0	124.0	8.0	
		Strong HE stockwork	59685	20.00-21.00	1.00	0.050			28.0	313.0		53.0	4.0
		Strong QC microveins	59686	21.00-22.00	1.00	0.170	1.20	38.0	2327.0	10.0	70.0	8.0	
		H zone, weak zone with patches of hematite, minor	59687	22.00-23.18	1.18	14.300	0.80	75.0	1188.0	25.0	90.0	60.0	
		strong chloritic zones and massive sulphide at											
		19.60m., strong slickenslides at 65 degrees to											
		fractures at 10 degrees to core axis, minor malachite											
		at 19.65m.											
<23.00-23.18>		MINERALIZATION- 6% pyrite, 5% magnetite.											
<23.00-23.18>		massive sulphide and hematite											
		Veined											
		Intense MT patches											
		Intense PY vein											
		Very magnetic. MINERALIZATION- 6% pyrite, 5%											
		magnetite.											
23.18	40.84	volcaniclastics	59688	23.18-24.00	0.82	0.560			39.0	266.0	35.0	103.0	28.0
		Fine grained, green, heterolithic, foliated	59689	24.00-25.00	1.00	0.040			42.0	300.0	25.0	49.0	10.0
		cleavage, foliation 35°:fracturing 35°	59690	25.00-26.00	1.00	0.020			38.0	250.0	30.0	55.0	14.0
		Frs=4/m	59691	28.00-29.00	1.00	0.025			33.0	96.0	80.0	257.0	18.0
		Moderate SI patches	59692	29.00-30.50	1.50	0.030			31.0	96.0	45.0	124.0	14.0
		Moderate CL pervasive	59693	30.50-32.00	1.50	0.035			33.0	118.0	25.0	121.0	12.0
		Moderate KS pervasive	59694	32.00-33.50	1.50	0.055			36.0	106.0	15.0	105.0	12.0
		Moderate HE wispy	59695	33.50-35.00	1.50	0.050			40.0	136.0	40.0	51.0	14.0
		Weak PY disseminated	59696	35.00-36.50	1.50	0.160			39.0	129.0	30.0	50.0	14.0

HOLE: CL96-116

HOMESTAKE MINING COMPANY - Clone

PAGE 2 of 2

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong QC microveins	59697	36.50-38.00	1.50	0.100		25.0	72.0	15.0	48.0	10.0
		Locally strongly chloritic, foliated at 35 degrees to	59698	38.00-39.50	1.50	0.060		39.0	146.0	40.0	64.0	12.0
		core axis, local 1cm. calcite veinlets, local strong	59699	39.50-40.84	1.34	0.055		38.0	165.0	35.0	53.0	10.0
		K-spar alteration/silicification section is very										
		calcareous.										
	<33.00-37.50>	Chlorite Streaming										
	(eoh)											

11/29/96

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-117

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-117	Date Completed:		Geotech by: MBW
LENGTH: 48.77	Core Diam: NQII		

Collar Location	
Latitude: 2032.00	
Departure: 1987.00	
Elevation: 0.00	

S U M M A R Y		D O W N H O L E S U R V E Y S			
		Depth	Azim	Inclin	Method
0.00-24.50	volcaniclastics	0.00	225.00	-65.00	
24.50-41.10	volcaniclastics *				
41.10-48.77	volcaniclastics				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	24.50	volcaniclastics	59700	2.00-3.00	1.00	0.015	0.40	11.0	361.0	5.0	45.0	14.0
		Fine grained, redish-green, heterolithic, wispy	59701	3.00-4.00	1.00	0.025		11.0	33.0		39.0	14.0
		cleavage, foliation 45°:fracturing 45°	59702	4.00-5.00	1.00	0.040		10.0	266.0		54.0	12.0
		Frs=5/m :Vns =15/m	59703	5.00-6.00	1.00	0.035		8.0	73.0		52.0	14.0
		Moderate SI patches	59704	6.00-7.00	1.00	0.030		11.0	57.0		82.0	12.0
		Moderate CL pervasive	59705	7.00-8.00	1.00	0.060		12.0	85.0		79.0	14.0
		Moderate KS pervasive	59706	8.00-9.00	1.00	0.110		14.0	62.0	5.0	56.0	10.0
		Weak EP patches	59707	9.00-10.00	1.00	0.045		11.0	14.0		47.0	10.0
		Weak HE stockwork	59708	10.00-11.00	1.00	0.135		13.0	14.0		41.0	8.0
		Weak PY disseminated	59709	11.00-12.00	1.00	0.075		14.0	115.0		49.0	10.0
		Moderate QC microveins	59710	12.00-13.00	1.00	0.030		14.0	25.0		37.0	10.0
		Variably mottled red/green with local strong calcite	59711	13.00-14.00	1.00	0.040		13.0	94.0		38.0	10.0
		stockwork, minor epidote at 5.70m., variably altered	59712	14.00-15.00	1.00	0.010		14.0	25.0		36.0	4.0
		along fractures to give psuedo breccia appearance.	59713	15.00-16.00	1.00	0.015		11.0	190.0		30.0	12.0
	<16.30-16.56>	gougy sheeted Gouge gouge 15° Abundant gouge, slickenslides at 15 degrees to core axis, abundant sheared hematite along shear.										
	<17.10-17.40>	Broken Core	59714	16.00-17.00	1.00	0.035		27.0	144.0	15.0	82.0	12.0
	<17.90-21.03>	Bleached altered section, vuggy along quartz/calcite veinlets, abundant limonite on all fractures.	59715	17.00-18.00	1.00	0.025		33.0	324.0	20.0	94.0	10.0
			59716	18.00-19.00	1.00	0.020	0.40	18.0	354.0	25.0	47.0	12.0
	<19.90-20.01>	Quartz/chlorite vein Quartz with abundant chlorite, vuggy.	59717	19.00-20.00	1.00	0.010	0.80	23.0	127.0	30.0	75.0	12.0
	<20.12-21.03>	Rusty bands to 5mm. wide inclusion, presence of weathered sulphides.	59718	20.00-21.00	1.00	0.030	1.00	46.0	216.0	25.0	179.0	10.0
	<20.32-21.10>	Broken Core Poor recovery, minor limonite and malachite on weathered surfaces.										
	<21.10-21.30>	calcite vein 2cm. wide vein sub parallel to core axis.										
24.50	41.10	volcaniclastics	59719	21.00-22.00	1.00	0.015		46.0	332.0	30.0	64.0	60.0
		Fine grained, redish-green, heterolithic, wispy	59720	22.00-23.00	1.00	0.030		53.0	187.0	50.0	57.0	68.0
		foliated 25°:cleavage, foliation 45°	59721	23.00-24.00	1.00	0.010		44.0	170.0	170.0	63.0	30.0
		Frs=5/m :Vns =30/m	59722	24.00-25.00	1.00	0.050		40.0	116.0	100.0	81.0	14.0
		Moderate SI patches	59723	25.00-26.00	1.00	0.015		38.0	98.0	80.0	101.0	16.0
		Strong CL pervasive	59724	26.00-27.00	1.00	0.015		39.0	109.0	55.0	96.0	8.0
		Strong KS pervasive	59725	27.00-28.00	1.00	0.060		43.0	272.0	20.0	68.0	14.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong HE stockwork	59726	28.00-29.00	1.00	0.040		36.0	322.0	5.0	61.0	8.0
		Moderate PY microveins	59727	29.00-30.00	1.00	0.030		39.0	180.0	10.0	58.0	8.0
		Strong QC microveins	59728	30.00-31.00	1.00	0.015		38.0	116.0	5.0	55.0	12.0
		H zone generally rich and weak zone including locally abundant hematite areas of very strong chlorite as well as sections of strong K-spar	59729	31.00-32.00	1.00	0.025		35.0	112.0	5.0	54.0	8.0
			59730	32.00-33.00	1.00	0.020		39.0	52.0		57.0	10.0
			59731	33.00-34.00	1.00	0.025		35.0	95.0		56.0	8.0
		alteration/silicification, zone is generally darker in colour than surrounding rocks. MINERALIZATION- 4% local abundant pyrite as fine veinlets and patches.	59732	34.00-35.00	1.00	0.005		41.0	170.0		55.0	10.0
			59733	35.00-36.00	1.00	0.010		34.0	137.0	10.0	81.0	10.0
			59734	36.00-37.00	1.00	0.090	0.20	28.0	622.0	20.0	113.0	10.0
<24.50-41.10>		Strong MT vein	59735	37.00-38.00	1.00	0.110	1.00	41.0	1270.0	20.0	165.0	12.0
		MINERALIZATION- 4% local abundant pyrite as fine veinlets and patches.	59736	38.00-39.00	1.00	0.055	1.00	19.0	2649.0	70.0	56.0	10.0
			59737	39.00-40.00	1.00	0.015		41.0	130.0		57.0	12.0
<26.00-36.00>		Chlorite Streaming Fine grained, green, foliated foliated 45° Abundant chlorite with minor hematite, shows breccia features with clasts of K-spar altered material at 29.30 to 30.20m., narrow fractures filled with marcasite to 6%.										
<36.50-37.50>		Strongly K-spar altered, the fractures with black chlorite along fracturing.										
<38.61-38.63>		semi-massive sulphides Intense PY vein										
<39.10-40.50>		Strong K-spar alteration with patches of red blood hematite.										
41.10	48.77	volcaniclastics	59738	40.00-41.00	1.00	0.160		46.0	56.0	15.0	76.0	10.0
		Fine grained, green, heterolithic, mottled cleavage, foliation 15°:foliated 45°	59739	41.00-42.00	1.00	0.010		42.0	109.0		86.0	14.0
		Frs=4/m	59740	42.00-43.00	1.00	0.005		42.0	109.0		88.0	14.0
		Strong SI patches	59741	43.00-44.00	1.00	0.010		46.0	226.0	15.0	89.0	14.0
		Strong CL pervasive	59742	44.00-45.00	1.00	0.045	1.40	52.0	285.0	15.0	111.0	22.0
		Strong KS pervasive	59743	45.00-46.00	1.00	0.010	0.20	23.0	97.0	15.0	75.0	16.0
		Weak HE stockwork	59744	46.00-47.00	1.00	0.040		20.0	99.0		95.0	12.0
		Weak PY patches	59745	47.00-48.00	1.00	0.010		38.0	132.0	20.0	80.0	18.0
		Moderate QC microveins	59746	48.00-48.77	0.77	0.005		27.0	167.0	10.0	102.0	12.0
		Locally bleached and vuggy, narrow 1cm. quartz/pyrite vein at 44.50m., at 45.50 to 46.0m., strongly silicified, vuggy.										
(eoh)												

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-118

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-118	Date Completed:		Geotech by: MBW
LENGTH: 67.50	Core Diam: NQII		
Collar Location			
Latitude: 2032.00			
Departure: 1987.00			
Elevation: 0.00			
S U M M A R Y			
		DOWN HOLE SURVEYS	
		Depth	Azim Incln Method
0.00-31.30	volcaniclastics	0.00	225.00 -75.00
31.30-50.29	volcaniclastics		
50.29-67.05	volcaniclastics		

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	31.30	volcaniclastics	59747	28.00-29.00	1.00	0.035		23.0	122.0		53.0	16.0
		Fine grained, redish-green, heterolithic, stockwork	59748	29.00-30.00	1.00	0.180		37.0	126.0		70.0	14.0
		cleavage, foliation 45°:fracturing 45°	59749	30.00-31.30	1.30	0.010		31.0	103.0		60.0	18.0
		Frs=7/m :Vns =20/m										
		Moderate SI patches										
		Strong CL pervasive										
		Moderate KS patches										
		Weak EP pervasive										
		Moderate HE stockwork										
		Weak PY disseminated										
		Moderate QC microveins										
		Variably mottled local calcite/chlorite veinlets from										
		2 to 3mm., local bronze coloured biotite, local strong										
		K-spar alteration/silicification, limonite on										
		fractures, local strong breccia textures.										
	<10.10-10.67>	gougy sheeted										
		Gouge										
		gouge 15°										
		Poor recovery, clay rock gouge on upper contact,										
		abundant limonite.										
	<15.05-15.10>	calcite vein										
		Bedded										
		bedding 20°										
		Abundant chlorite as bands.										
	<15.85-15.90>	bedding 65°										
		Moderate KS microveins										
		Banded with chlorite and epidote.										
	<21.15-21.30>	30% calcite/chlorite/epidote.										
	<22.00-24.00>	volcaniclastics										
		Narrow 5mm. epidote/calcite/chlorite veinlets to 10%,										
		section has also strong calcite/chlorite veinlets.										
	<26.03-26.07>	calcite vein										
		Bedded										
		bedding 70°										
		50% chlorite as bands.										
	<29.50-31.30>	volcaniclastics										
		fracturing 15°										
		Weak broken, limonite on fractures.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/t	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<31.30-50.29>		vein 70°:fracturing 15°	59750	31.30-32.00	0.70	0.010		34.0	87.0		56.0	14.0
		Frs=8/m :Vns =30/m	57851	32.00-33.00	1.00	0.020		29.0	200.0	35.0	41.0	4.0
		Moderate SI patches	57852	33.00-34.00	1.00	0.015		22.0	125.0		36.0	
		Strong CL pervasive	57853	34.00-35.00	1.00	0.010		22.0	124.0		33.0	2.0
		Strong KS pervasive	57854	35.00-36.00	1.00	0.020		29.0	169.0		57.0	6.0
		Strong HE stockwork	57855	36.00-37.00	1.00	0.005		27.0	119.0		39.0	2.0
		Moderate PY vein	57856	37.00-38.00	1.00	0.010		25.0	181.0		41.0	4.0
		Moderate QC microveins	57857	38.00-39.00	1.00	0.040		28.0	68.0		35.0	6.0
		H zone, very hard to determine contacts, generally	57858	39.00-40.00	1.00	0.020		27.0	149.0	5.0	34.0	4.0
		weak zone of hematite stringers, local intense K-spar	57859	40.00-41.00	1.00	0.030		28.0	195.0	30.0	31.0	6.0
		alteration/silicification along veins up to 2 to 3cm.	57860	41.00-42.00	1.00	0.010		29.0	261.0		46.0	4.0
		wide plus the occasional pyrite veinlet and local	57861	42.00-43.00	1.00	7.530	0.80	23.0	207.0	5.0	299.0	2.0
		intense chlorite streaming, limonite on fractures.	57862	43.00-44.00	1.00	0.610	2.20	10.0	1663.0		207.0	
<35.08-35.15>		pyrite vein or veinlet										
		Pyrite veinlets along fractures, veinlets up to 5mm.										
		to 15% of section, minor very narrow hematite stringer										
		with pyrite.										
<42.20-46.00>		volcaniclastics	57863	44.00-45.00	1.00	0.790	0.80	16.0	494.0		324.0	
		Intense SI pervasive	57864	45.00-46.00	1.00	7.210		19.0	113.0		372.0	
		Intense CL pervasive										
		Intense KS pervasive										
		Very intense K-spar alteration/silicification along the										
		core axis, rock altered to pale purple colour.										
<50.29-67.05>		fracturing 10°:fracturing 45°	57865	46.00-47.00	1.00	0.035	2.20	26.0	2070.0		210.0	4.0
		Frs=6/m :Vns =8/m	57866	47.00-48.00	1.00	0.105	13.00	20.0	9523.0	10.0	149.0	
		Strong SI patches	57867	48.00-49.00	1.00	0.040	7.40	19.0	6361.0	265.0	180.0	40.0
		Moderate CL pervasive	57868	49.00-50.00	1.00	0.925	5.20	24.0	3798.0	40.0	150.0	24.0
		Strong KS pervasive	57869	50.00-51.00	1.00	0.040	3.80	27.0	4514.0	60.0	182.0	4.0
		Weak HE stockwork	57870	51.00-52.00	1.00	0.360	1.00	18.0	805.0	10.0	212.0	6.0
		Moderate PY microveins	57871	52.00-53.00	1.00	0.015	0.20	24.0	158.0	25.0	75.0	10.0
		Moderate QC microveins	57872	57.00-58.00	1.00	1.340	2.00	78.0	128.0	85.0	142.0	6.0
		Weakening K-spar alteration downhole, strong breccia	57873	58.00-59.00	1.00	1.150	1.40	72.0	187.0	80.0	214.0	4.0
		features from 58.0 to 67.05m., pyrite as veinlets and	57874	59.00-60.00	1.00	0.155	0.80	24.0	426.0	25.0	130.0	4.0
		patches to 30%, at 56.0 to 57.0m. coarse crystalline	57875	60.00-61.00	1.00	0.105	1.00	23.0	479.0	20.0	197.0	8.0
		calcite along vugs and fractures along core axis.	57876	61.00-62.00	1.00	0.110	0.80	35.0	517.0	15.0	99.0	6.0
(eoh)			57877	62.00-63.00	1.00	0.005		24.0	160.0	5.0	90.0	6.0
			57878	63.00-64.00	1.00	0.275	0.60	36.0	158.0	10.0	136.0	8.0
			57879	64.00-65.00	1.00	0.015		23.0	26.0		63.0	4.0

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-119

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-119	Date Completed:		Geotech by: MBW
LENGTH: 93.57	Core Diam: NQII		

Collar Location	
Latitude: 2032.00	
Departure: 1987.00	
Elevation: 0.00	

S U M M A R Y		D O W N H O L E S U R V E Y S			
		Depth	Azim	Inclin	Method
0.00-42.90	volcaniclastics	0.00	225.00	-80.00	
42.90-62.20	volcaniclastics				
62.20-93.57	volcaniclastics *				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	42.90	volcaniclastics	57880	32.00-33.00	1.00	0.010		24.0	28.0		52.0	10.0
		Fine grained, redish-green, heterolithic, mottled	57881	33.00-34.00	1.00	0.020		24.0	38.0		42.0	32.0
		fracturing 10°:cleavage, foliation 45°	57882	34.00-35.00	1.00	0.020		16.0	92.0		32.0	14.0
		Frs=5/m	57883	35.00-36.00	1.00	0.025		15.0	77.0	10.0	58.0	28.0
		Moderate SI patches	57884	36.00-37.00	1.00	0.065		34.0	227.0		122.0	40.0
		Moderate CL pervasive	57885	37.00-38.00	1.00	0.205	1.00	49.0	180.0		105.0	14.0
		Moderate KS pervasive	57886	38.00-39.00	1.00	0.030		27.0	146.0	10.0	64.0	8.0
		Weak EP microveins	57887	39.00-40.00	1.00	0.005		31.0	124.0		66.0	6.0
		Moderate HE stockwork	57888	40.00-41.00	1.00	0.010		35.0	124.0		73.0	6.0
		Weak PY disseminated	57889	41.00-42.00	1.00	0.030		33.0	168.0	35.0	51.0	10.0
		Moderate QC microveins										
		Variably altered, same as CL96-118 interval, 0 to 31.30m.										
<5.20-5.50>		Schists, rusty along fracture.										
<7.00-8.30>		Broken Core Poor recovery limonite section from 8.0 to 9.50m. in bleached, locally very limonitic.										
<14.80-14.82>		calcite vein Bedded bedding 70° Chlorite to 10%.										
<22.20-22.30>		Moderate EP microveins Quartz/calcite with minor epidote, bleached around vein to light green.										
<27.00-28.00>		Fractures along core axis, limonitic.										
<32.70-33.05>		Chlorite Streaming Foliated Strong chlorite in strongly K-spar altered section.										
<33.05-33.70>		volcaniclastics Strong SI patches Strong KS pervasive Strong K-spar alteration with strong calcite veining at right angles to trended K-spar veinlets.										
<36.00-38.00>		Chlorite Streaming Foliated, vuggy foliated 10° Moderate PY microveins Strong chlorite, strong breccia features, clasts to										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		45% in chlorite matrix, clasts are angular and up to 1cm. from sand size.										
42.90	62.20	volcaniclastics	57890	42.00-43.00	1.00	0.035		37.0	137.0	25.0	62.0	10.0
		Fine grained, reddish-green, heterolithic, wispy hematite stringers 15°:foliated 15°	57891	43.00-44.00	1.00	0.080		25.0	145.0		72.0	10.0
		Frs=6/m :Vns =25/m	57892	44.00-45.00	1.00	2.280	1.20	29.0	3065.0	25.0	98.0	18.0
		Moderate SI patches	57893	45.00-46.00	1.00	0.525		27.0	416.0	30.0	62.0	8.0
		Strong CL pervasive	57894	46.00-47.00	1.00	0.210		25.0	87.0		74.0	6.0
		Strong KS pervasive	57895	47.00-48.00	1.00	0.010	0.40	33.0	655.0	10.0	90.0	16.0
		Strong HE stockwork	57896	48.00-49.00	1.00	0.005		29.0	413.0		94.0	10.0
		Moderate PY microveins	57897	49.00-50.00	1.00	0.210	0.20	55.0	580.0	40.0	178.0	12.0
		Moderate QC microveins	57898	50.00-51.00	1.00	0.475		215.0	265.0	215.0	144.0	10.0
		H zone, very indistinct contacts, zone consists of local consists of local strong K-spar alteration, locally narrow hematite stringers hematite stringers, minor pyrite veinlets and local strong chloritic zones.	57899	51.00-52.00	1.00	0.025		78.0	157.0	65.0	50.0	6.0
			57900	52.00-53.00	1.00	0.005		82.0	165.0	70.0	82.0	6.0
			57901	53.00-54.00	1.00	0.070	2.40	321.0	1374.0	895.0	92.0	4.0
			57902	54.00-55.00	1.00	0.005	0.40	39.0	268.0	115.0	44.0	6.0
			57903	55.00-56.00	1.00	0.005		32.0	109.0	30.0	42.0	6.0
			57904	56.00-57.00	1.00	0.010		17.0	79.0	20.0	38.0	8.0
		<43.20-44.00>4 narrow 1cm. hematite veinlets.										
		<44.00-44.60> semi-massive sulphides Strong PY microveins Narrow pyrite veinlets, marcasite on fractures.										
		<44.40-44.50> pyrite vein or veinlet 50% black chlorite.										
		<45.50-45.52> sulphide-hematite vein 10% pyrite in hematite stringer.										
		<49.20-50.30>Strong K-spar alteration/silicification.										
		<58.50-58.52> massive hematite	57905	57.00-58.00	1.00	0.005		43.0	23.0	10.0	45.0	4.0
62.20	93.57	volcaniclastics	57906	58.00-59.00	1.00	0.690	0.40	250.0	587.0	290.0	102.0	6.0
		Green, heterolithic, mottled	57907	59.00-60.00	1.00	0.075		33.0	42.0	15.0	75.0	4.0
		foliated 15°:cleavage, foliation 45°	57908	60.00-61.00	1.00	0.005		16.0	24.0	10.0	69.0	6.0
		Frs=3/m :Vns =8/m	57909	61.00-62.00	1.00	0.120		41.0	47.0	15.0	101.0	6.0
		Moderate SI patches	57910	62.00-63.00	1.00	1.970		129.0	41.0	85.0	96.0	6.0
		Moderate CL pervasive	57911	63.00-64.00	1.00	0.070		25.0	33.0	25.0	77.0	6.0
		Moderate KS pervasive	57912	64.00-65.00	1.00	0.015	0.60	57.0	97.0	25.0	80.0	6.0
		Weak HE stockwork	57913	65.00-66.00	1.00	1.890	0.60	181.0	150.0	165.0	102.0	14.0
		Moderate PY microveins	57914	66.00-67.00	1.00	0.055	1.20	72.0	181.0	55.0	82.0	22.0
		Moderate QC microveins	57915	67.00-68.00	1.00	0.530	1.20	92.0	84.0	80.0	139.0	8.0
		Weakly chloritic/hematitic altered, local K-spar alteration/silicification, local strong breccia	57916	68.00-69.00	1.00	0.010	0.20	26.0	60.0	10.0	80.0	6.0
			57917	69.00-70.00	1.00	0.005		14.0	40.0	20.0	52.0	6.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		features in strongly altered zones, chloritic between clasts.	57918	70.00-71.00	1.00	0.010		8.0	39.0	5.0	41.0	12.0
			57919	71.00-72.00	1.00	0.005		9.0	9.0		39.0	6.0
<65.50-65.70>		pyrite vein or veinlet Narrow 1cm. pyrite vein sub parallel to core axis in strongly K-spar altered zone.										
<65.90-67.00>		calcite vein Calcite vein sub parallel to core axis.										
<72.30-73.50>		Hematite Stringer Narrow 1cm. hematite stringer parallel to sub parallel to core axis.	57920	72.00-73.00	1.00	0.620		12.0	429.0	5.0	48.0	6.0
<77.00-77.70>		volcaniclastics Strong breccia features with dark, black chlorite between clats.	57921	73.00-74.00	1.00	0.145		12.0	161.0	10.0	37.0	6.0
			57922	74.00-75.00	1.00	0.520	0.40	13.0	1117.0	10.0	42.0	4.0
			57923	75.00-76.00	1.00	0.055		15.0	326.0	10.0	39.0	10.0
<79.85-79.95>		pyrite vein or veinlet Narrow pyrite veinlets.	57924	76.00-77.00	1.00	0.010		8.0	100.0		26.0	4.0
			57925	77.00-78.00	1.00	0.005		22.0	70.0	5.0	47.0	6.0
<80.00-80.50>		calcite vein 15% calcite parallel to core axis.	57926	78.00-79.00	1.00	0.010		23.0	69.0	20.0	52.0	6.0
			57927	79.00-80.00	1.00	1.060	0.60	262.0	216.0	290.0	46.0	10.0
<81.60-82.50>		volcaniclastics Strong breccia features.	57928	80.00-81.00	1.00	0.140	1.60	35.0	376.0	25.0	62.0	6.0
			57929	81.00-82.00	1.00	0.160	0.20	112.0	263.0	125.0	62.0	6.0
<88.40-88.42>		Hematite Stringer Hematite stringer.	57930	82.00-83.00	1.00	0.030		40.0	143.0	40.0	58.0	28.0
			57931	83.00-84.00	1.00	0.015		19.0	92.0	20.0	53.0	10.0
<89.60-89.61>		Hematite stringer.	57932	84.00-85.00	1.00	0.005		23.0	52.0	20.0	58.0	6.0
<91.20-91.35>		Trace MT vein MINERALIZATION- pyrite veinlets to 10%, veinlets from 1 to 2mm.	57933	85.00-86.00	1.00	0.015		14.0	34.0	10.0	44.0	6.0
			57934	86.00-87.00	1.00	0.005	0.20	7.0	18.0		37.0	6.0
			57935	87.00-88.00	1.00	0.010		12.0	30.0	15.0	47.0	8.0
<91.20-91.35>		pyrite vein or veinlet MINERALIZATION- pyrite veinlets to 10%, veinlets from 1 to 2mm.	57936	88.00-89.00	1.00	0.160	0.80	125.0	326.0	130.0	75.0	18.0
			57937	89.00-90.00	1.00	4.520	1.60	142.0	150.0	140.0	70.0	24.0
(eoh)												

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-120

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-120	Date Completed:		Geotech by: NONE
LENGTH: 55.17	Core Diam: NQII		

Collar Location	
Latitude: 2106.00	
Departure: 1956.00	
Elevation: 0.00	

S U M M A R Y		DOWN HOLE SURVEYS			
		Depth	Azim	Inclin	Method
0.00-5.20	volcaniclastics	0.00	45.00	-72.00	
5.20-6.30	Semi-massive hematite				
6.30-21.50	volcaniclastics				
21.50-55.17	volcaniclastics *				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	5.20	volcaniclastics Fine grained, green, mottled, foliated foliated 15°:fracturing 45° Frs=5/m :Vns =6/m Moderate SI patches Strong CL pervasive Strong KS pervasive Weak HE patches Weak PY disseminated Moderate QC microveins Variably mottled, black chlorite along foliation, local strong calcite stockwork, local weak hematite along calcite veinlets.		0.00-0.00	0.00							
5.20	6.30	Semi-massive hematite Fine grained, redish-green, bedded, foliated bedding 15°:fracturing 15° Frs=3/m Moderate SI patches Strong CL pervasive Strong KS pervasive Strong HE vein Moderate QC microveins S2a zone, zone of thin hematite stringers, dark black chlorite stringers, variably K-spar altered/silicified zone with local strong breccia features.										
6.30	55.17	volcaniclastics Fine grained, redish-green, heterolithic, stockwork fracturing 45°:hematite stringers 15° Frs=5/m :Vns =10/m Moderate SI patches Moderate CL pervasive Moderate KS pervasive Moderate EP patches Moderate HE stockwork Moderate PY blebs Moderate QC microveins Strong hematite/chlorite alteration.										
<10.21-10.62>		Foliated foliated 10° Strong breccia features with K-spar altered fragments up to 4cm. in foliated banded chlorite/hematite stringers.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<21.50-55.17>		Fine grained, green, heterolithic, mottled fracturing 45° cleavage, foliation 15° Frs=5/m Moderate SI patches Strong CL pervasive Weak HE patches Moderate PY microveins Moderate QC microveins Variably mottled local breccia features, strong calcite stockwork, local limonite on fractures.										
<21.50-21.92>		gougy sheeted Broken core, limonitic on fractures.										
<25.00-25.45>		Broken Core										
<25.50-25.60>		calcite vein Bedded bedding 40° 50% chlorite bands.										
<25.90-26.00>		Broken Core										
<26.40-26.60>												
<29.50-31.86>		Strong MT coarse grained MINERALIZATION- 4% coarse pyrite along fine veinlets.										
<29.50-31.86>		volcaniclastics Moderate PY microveins Black chlorite stringers. MINERALIZATION- 4% coarse pyrite along fine veinlets.										
<33.00-33.20>		Broken Core										
<33.50-33.80>		gougy sheeted Abundant limonite, clay on fracture surfaces.										
<35.66-36.60>		calcite vein Brecciated section with coarse crystalline calcite cementing clasts, calcite to 30%, strongly altered chlorite into pale green clay (selvages to calcite).										
<53.70-53.72>		pyrite vein or veinlet Strong QC microveins Semi-massive pyrite. HOLE ABANDONED DUE TO STUCK ROCK IN CLAY SEAM AT 55.17M.										

HOLE: CL96-120

HOMESTAKE MINING COMPANY - Clone

PAGE 3 of 2

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-121

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL96-121	Date Completed:		Geotech by: MBW
LENGTH: 124.36	Core Diam: NQII		

Collar Location	
Latitude: 2106.00	
Departure: 1956.00	
Elevation: 0.00	

S U M M A R Y		DOWN HOLE SURVEYS			
		Depth	Azim	Inclin	Method
0.00-10.06	volcaniclastics	0.00	45.00	-72.00	
10.06-11.00	Semi-massive hematite				
11.00-20.61	volcaniclastics				
20.61-20.95	Semi-massive hematite				
20.95-67.80	volcaniclastics ***				
67.80-79.20	volcaniclastics				
79.20-124.38	volcaniclastics				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	10.06	volcaniclastics	57938	2.00-3.00	1.00	0.005		17.0	92.0	10.0	45.0	14.0
		Fine grained, greenish-red, heterolithic, stockwork	57939	3.00-4.00	1.00	0.005	0.40	28.0	207.0	35.0	50.0	12.0
		cleavage, foliation 45°:foliated 15°	57940	4.00-5.33	1.33	0.005		33.0	145.0	10.0	103.0	10.0
		Frs=4/m :Vns =10/m	57941	5.33-6.50	1.17	0.005		26.0	131.0	5.0	101.0	12.0
		Moderate SI patches	57942	6.50-8.00	1.50	0.010		27.0	36.0	5.0	93.0	10.0
		Strong CL pervasive	57943	8.00-9.00	1.00	0.005		28.0	103.0		70.0	8.0
		Moderate KS pervasive	57944	9.00-10.00	1.00	0.160		33.0	142.0	45.0	291.0	16.0
		Moderate HE stockwork										
		Moderate PY microveins										
		Moderate QC microveins										
		Locally highly foliated partially, 2 to 6m. foliated sections are very chloritic with local fine pyrite veinlets along foliation.										
<7.30-8.20>		Broken Core										
		Fractures at 15 degrees.										
10.06	11.00	Semi-massive hematite	57945	10.00-11.00	1.00	0.415		45.0	130.0	40.0	405.0	18.0
		Redish-green, veined										
		Moderate MT patches										
		Intense HE vein										
		Strong PY blebs										
		Moderate QC microveins										
		S2b zone, zone of black chlorite/hematite stringers and blebs of coarse pyrite in brecciated chlorite rock.										
<10.20-10.25>		massive hematite										
		Veined										
		Coarse pyrite blebs in 5cm. wide zone.										
11.00	20.61	volcaniclastics	57946	11.00-12.00	1.00	0.015		16.0	23.0	5.0	69.0	12.0
		Fine grained, redish-green, heterolithic, stockwork	57947	12.00-13.00	1.00	0.020		18.0	65.0	10.0	61.0	14.0
		foliated 12°:cleavage, foliation 45°	57948	13.00-14.00	1.00	0.010		24.0	103.0	25.0	53.0	8.0
		Frs=5/m :Vns =10/m	57949	14.00-15.00	1.00	0.010		37.0	142.0	20.0	46.0	12.0
		Moderate SI patches	57950	15.00-16.00	1.00	0.005		29.0	116.0	10.0	56.0	10.0
		Moderate CL pervasive	57951	16.00-17.00	1.00	0.005		30.0	127.0	5.0	64.0	10.0
		Moderate KS pervasive	57952	17.00-18.00	1.00	0.005		26.0	125.0	20.0	51.0	8.0
		Moderate HE stockwork	57953	18.00-19.00	1.00	0.005		42.0	80.0	35.0	58.0	8.0
		Moderate PY microveins	57954	19.00-20.00	1.00	0.020		45.0	19.0	25.0	59.0	8.0
		Moderate QC microveins										
		Locally mottled, variably hematite stockwork from strong to weak local K-spar alteration/silicification, local chlorite streaming.										
<13.09-13.40>		Broken Core										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Limonic on fractures.										
<15.10-17.40>		Chlorite Streaming Fine grained, redish-green, stockwork Moderate SI patches Intense CL pervasive Strong KS pervasive Strong HE stockwork Moderate QC microveins Strong hematite alteration with strong chlorite, local strong chlorite, local strong K-spar alteration/ silicification.										
<17.37-17.98>		Broken Core Limonic on fractures, some gouge.										
<18.80-18.82>		calcite vein Banded with chlorite.										
<19.20-19.24>		Banded with chlorite.										
<20.00-20.61>		Bleached light green.										
20.61	20.95	Semi-massive hematite Fine grained, redish-green, veined, foliated bedding 45° Strong MT patches Intense HE vein H zone, contacts at 45 degrees to core axis, narrow aone with hematite/magnetite stringers in banded chlorite, K-spar altered zone, K-spar altered rock has been brecciated with green chlorite between clasts.										
20.95	67.80	volcaniclastics Fine grained, greenish-red, heterolithic, mottled fracturing 45°:cleavage, foliation 45° Frs=6/m Moderate SI patches Moderate CL pervasive Moderate KS pervasive Weak HE stockwork Weak PY microveins Moderate QC microveins Generally weak hematite alteration, local strong chlorite and calcite stockwork.	57955	20.00-21.00	1.00	0.045		48.0	51.0	25.0	124.0	8.0
			57956	21.00-22.00	1.00	0.065		91.0	132.0	105.0	167.0	14.0
			57957	22.00-23.00	1.00	0.005		37.0	120.0	40.0	68.0	10.0
			57958	23.00-24.00	1.00	0.005		35.0	91.0	45.0	42.0	8.0
			57959	24.00-25.00	1.00	0.005		27.0	63.0	25.0	47.0	8.0
			57960	25.00-26.00	1.00	0.010		41.0	101.0	45.0	40.0	10.0
			57961	26.00-27.00	1.00	0.005		28.0	69.0	15.0	39.0	8.0
			57962	27.00-28.00	1.00	0.005		19.0	8.0		38.0	6.0
			57963	28.00-29.00	1.00	0.005		31.0	130.0		42.0	10.0
			57964	29.00-30.00	1.00	0.055		40.0	203.0	10.0	46.0	12.0
			57965	30.00-31.00	1.00	0.010		35.0	348.0		32.0	12.0
			57966	31.00-32.00	1.00	0.010		25.0	217.0	10.0	35.0	14.0
<21.20-23.00>		Broken Core										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weakly limonitic on fractures.										
<28.70-34.00>		Intense MT blebs	57967	32.00-33.00	1.00	0.010		28.0	301.0	25.0	39.0	16.0
		MINERALIZATION- 5% pyrite as veinlets and blebs associated with chlorite.	57968	33.00-34.00	1.00	0.015		47.0	676.0	50.0	49.0	24.0
<28.70-34.00>		volcaniclastics Wispy Strong CL pervasive Strong chlorite stringer as wispy zones. MINERALIZATION- 5% pyrite as veinlets and blebs associated with chlorite.										
<32.61-33.53>		Broken Core Locally bleached with strong limonite on fractures.										
<35.66-36.88>		Locally bleached light green, abundant clay on fractures, weakly limonitic.	57969	34.00-35.00	1.00	0.015		15.0	32.0	15.0	33.0	10.0
			57970	35.00-36.00	1.00	0.005		15.0	24.0	10.0	33.0	10.0
<38.50-49.20>		Chlorite Streaming Foliated Intense CL pervasive Moderate PY patches Strong QC microveins Strongly chloritic both as interstitial grains and as black stringers to 1mm., very strong calcareous with numerous microveinlets of calcite as well as 1 to 2cm. veins, generally, parallel to sub parallel, to core axis.	57971	36.00-37.00	1.00	0.005		18.0	24.0		37.0	10.0
			57972	37.00-38.00	1.00	0.045		19.0	77.0	15.0	42.0	10.0
			57973	38.00-39.00	1.00	0.010		31.0	42.0	10.0	64.0	12.0
			57974	39.00-40.00	1.00	0.010		30.0	71.0	30.0	60.0	12.0
			57975	40.00-41.00	1.00	0.015		34.0	86.0	30.0	70.0	10.0
			57976	41.00-42.00	1.00	0.010		29.0	67.0		77.0	10.0
			57977	42.00-43.00	1.00	0.010		30.0	75.0	10.0	43.0	8.0
			57978	43.00-44.00	1.00	0.005		25.0	74.0	15.0	45.0	8.0
			57979	44.00-45.00	1.00	0.005		29.0	87.0	15.0	50.0	10.0
			57980	45.00-46.00	1.00	0.010		35.0	93.0	15.0	52.0	10.0
<51.50-53.00>		volcaniclastics Fine grained, redish-green, stockwork, heterolithic foliated 15°:hematite stringers 15° Frs=4/m :Vns =20/m Moderate SI patches Strong CL pervasive Strong KS pervasive Strong HE stockwork Moderate QC microveins Local strong K-spar alteration with strong hematite alteration as fine veinlets.	57981	46.00-47.00	1.00	0.005		26.0	85.0	15.0	33.0	6.0
			57982	47.00-48.00	1.00	0.005		26.0	53.0	10.0	43.0	8.0
			57983	48.00-49.00	1.00	0.010		37.0	85.0	15.0	49.0	8.0
			57984	49.00-50.00	1.00	0.005		28.0	78.0	10.0	52.0	8.0
			57985	50.00-51.00	1.00	0.015		34.0	86.0	20.0	46.0	8.0
			57986	51.00-52.00	1.00	0.005		37.0	93.0		73.0	8.0
			57987	52.00-53.00	1.00	0.065		38.0	69.0	15.0	171.0	10.0
<54.05-54.10>		calcite vein	57988	53.00-54.00	1.00	0.155		37.0	106.0	45.0	239.0	12.0
<54.15-55.30>		Chlorite Streaming Blackish-green, foliated foliated 15°	57989	54.00-55.00	1.00	0.340		58.0	370.0	60.0	171.0	12.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Intense CL pervasive Strong KS pervasive Strong HE stockwork Strong PY patches Moderate QC microveins Coarse pyrite blebs associated with black chlorite, local K-spar alteration.										
<55.30-56.30>		volcaniclastics Strong K-spar alteration with clasts of hematite altered rock.	57990	55.00-56.00	1.00	0.810		26.0	105.0	25.0	162.0	14.0
<57.90-58.00>		?? MT blebs MINERALIZATION- coarse blebs of pyrite to 60%.	57991	56.00-57.00	1.00	0.210		25.0	227.0	35.0	122.0	14.0
<57.90-58.00>		pyrite vein or veinlet Veined Intense PY vein MINERALIZATION- coarse blebs of pyrite to 60%.										
<58.22-60.00>		volcaniclastics	57992	57.00-58.22	1.22	0.155		33.0	282.0	75.0	96.0	18.0
		Strong CL pervasive	57993	58.22-59.00	0.78	0.160		26.0	190.0		112.0	10.0
		Strong HE stockwork	57994	59.00-60.00	1.00	0.005		29.0	78.0		70.0	12.0
		Strong hematite alteration with abundant chlorite.										
<60.00-65.00>		?? MT stringer	57995	60.00-61.00	1.00	0.050		31.0	64.0	80.0	60.0	14.0
		MINERALIZATION- 6% pyrite along stringers, local weak hematite alteration.	57996	61.00-62.00	1.00	0.095		35.0	93.0	100.0	55.0	14.0
			57997	62.00-63.00	1.00	0.020		33.0	70.0	60.0	51.0	14.0
<60.00-65.00>		volcaniclastics	57998	63.00-64.00	1.00	0.060		34.0	62.0	65.0	58.0	12.0
		Strong CL pervasive	57999	64.00-65.00	1.00	0.005		31.0	102.0	15.0	57.0	12.0
		Strong PY vein MINERALIZATION- 6% pyrite along stringers up to 1cm., local weak hematite alteration.										
<67.80-79.20>		foliated 15°:fracturing 45°	58000	65.00-66.00	1.00	0.005		24.0	95.0	5.0	58.0	8.0
		Frs=3/m :Vns =40/m	11951	66.00-67.00	1.00	0.175		25.0	108.0		107.0	4.0
		Strong SI patches	11952	67.00-67.80	0.80	0.255		33.0	65.0		168.0	6.0
		Strong CL pervasive	11953	67.80-69.00	1.20	0.730	0.20	113.0	122.0	100.0	164.0	4.0
		Intense KS pervasive	11954	69.00-70.00	1.00	0.680	0.80	116.0	241.0	75.0	284.0	4.0
		Strong HE stockwork	11955	70.00-71.00	1.00	0.055		62.0	284.0	40.0	111.0	6.0
		Moderate PY vein	11956	71.00-72.00	1.00	0.005		27.0	314.0	5.0	116.0	8.0
		Moderate QC microveins	11957	72.00-73.00	1.00	0.005		40.0	203.0	35.0	110.0	6.0
		H zone, generally weak zone of intense K-spar alteration, narrow hematite, pyrite stringers with local intense chlorite alteration.	11958	73.00-74.00	1.00	0.080		450.0	400.0	405.0	111.0	8.0
			11959	74.00-75.00	1.00	0.005		520.0	208.0	485.0	124.0	8.0
			11960	75.00-76.00	1.00	0.005		920.0	179.0	710.0	223.0	8.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<67.80-67.82>		sulphide-hematite vein Pyrite/hematite.										
<67.82-67.94>		calcite vein Banded with calcite.										
<68.05-71.00>		volcaniclastics Mottled Strong SI patches Intense CL pervasive Intense KS pervasive Strong K-spar alteration/silicification, strong chlorite.										
<75.29-75.39>		Semi-massive hematite Coarse pyrite in hematite.										
<76.95-77.00>		1cm. wide hematite vein at 15 degrees to core axis.	11961	76.00-77.00	1.00	0.005	0.40	330.0	348.0	300.0	140.0	12.0
<77.00-77.80>		Broken Core Highly broken, manganese strain and limonite on fractures.										
<77.80-79.20>		volcaniclastics Local strong calcite veinlets up to 1cm. with coarse grain chlorite patches, calcite is locally coarsely crystalline on fractures.	11962	77.00-78.00	1.00	0.005	0.60	490.0	410.0	325.0	209.0	14.0
			11963	78.00-79.00	1.00	0.005	0.40	44.0	290.0	35.0	81.0	34.0
<79.20-124.38>		cleavage, foliation 45°:fracturing 45° Frs=4/m :Vns =15/m Moderate SI patches Moderate CL pervasive Moderate KS pervasive Moderate HE stockwork Moderate QC microveins Variably hematite/chlorite altered, local strong K-spar alteration/silicification, strong hematite alteration on fractures giving psuedo brecciated appearance.	11964	79.00-80.00	1.00	0.030	0.20	31.0	250.0	15.0	116.0	36.0
			11965	80.00-81.00	1.00	0.005		16.0	164.0	10.0	114.0	18.0
			11966	88.00-89.00	1.00	0.170		15.0	87.0		42.0	10.0
			11967	118.90-120.00	1.10	0.400		11.0	43.0		44.0	6.0
			11968	120.00-121.00	1.00	0.005		12.0	3.0		46.0	6.0
			11969	121.00-122.00	1.00	0.005		11.0	51.0		35.0	4.0
			11970	122.00-123.00	1.00	0.005		13.0	11.0	5.0	35.0	6.0
<79.21-99.00>		D.A.P. 77.80 to 79.20										
<88.05-88.06>		massive hematite At 94.0m. intersected hole at 85 degrees.										
<100.10-100.12>		calcite vein										

HOLE: CL96-121

HOMESTAKE MINING COMPANY - Clone

PAGE 6 of 5

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<111.10	111.38	Highly brecciated with calcite cementing fragments.										
<118.90	122.78	Strongly K-spar altered/silicified. (eoh)										

11/29/96

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-122

PROJECT: Clone	Date Commenced:	Contractor:	Logged by:
DRILL HOLE: CL96-122	Date Completed:		Geotech by:
LENGTH: 121.92	Core Diam: NQII		
Collar Location			
Latitude: 2106.00			
Departure: 1956.00			
Elevation: 0.00			
S U M M A R Y			
		DOWN HOLE SURVEYS	
		Depth	Azim Incln Method
0.00-8.00	volcaniclastics	0.00	45.00 -76.00
8.00-9.25	Semi-massive hematite		
9.25-19.20	volcaniclastics		
19.20-22.66	Hornblende Feldspar xtalline		
22.66-53.00	volcaniclastics		
53.00-71.20	volcaniclastics		
71.20-79.00	volcaniclastics		
79.00-85.20	volcaniclastics		
85.20-86.92	Semi-massive hematite		
86.92-121.97	volcaniclastics		

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	8.00	volcaniclastics	11971	2.00-3.00	1.00	0.005		18.0	93.0	15.0	48.0	10.0
		Fine grained, greenish-green, heterolithic, mottled	11972	3.00-4.00	1.00	0.005		21.0	125.0	20.0	45.0	10.0
		cleavage, foliation 45°:foliated 15°	11973	4.00-5.00	1.00	0.010		25.0	166.0		73.0	8.0
		Frs=5/m	11974	5.00-6.00	1.00	0.005		19.0	49.0		66.0	6.0
		Moderate SI patches	11975	6.00-7.00	1.00	0.005		22.0	95.0	10.0	64.0	8.0
		Strong CL pervasive	11976	7.00-8.00	1.00	0.005		26.0	132.0		95.0	6.0
		Moderate KS pervasive										
		Weak HE microveins										
		Weak PY disseminated										
		Moderate CV microveins										
		Generally locally foliated with minor very narrow hematite microveinlettes--generally hematite becomes stringy from 7-8m. Local breccia features. Local intense chlorite streaming-local intense calcite micro-veining.										
	<3.50-3.53>	calcite vein										
		Bedded										
		bedding 15°										
		Strongly banded with fine chlorite stringers.										
8.00	9.25	Semi-massive hematite	11977	8.00-9.25	1.25	0.050		23.0	89.0	15.0	90.0	8.0
		Fine grained, redish-green, veined										
		hematite stringers 15°:vein 15°										
		Strong SI patches										
		Intense CL pervasive										
		Intense KS pervasive										
		Intense HE vein										
		S2B zone- zone of fine anomalous hematite veinlets.										
		K-spar alteration. Silicification as well as chloriteshearing contacts at 15 degrees - CA - foliated chlorite rock at lower contact for ~ 6cm.										
9.25	19.20	volcaniclastics	11978	9.25-10.00	0.75	0.015		30.0	128.0	15.0	66.0	8.0
		Fine grained, redish-green, heterolithic, stockwork	11979	10.00-11.00	1.00	0.105		16.0	33.0	5.0	33.0	8.0
		hematite stringers 45°:foliated 15°	11980	11.00-12.00	1.00	0.190		19.0	11.0		71.0	8.0
		Frs=5/m :Vns =15/m	11981	12.00-13.00	1.00	0.010		18.0	13.0		63.0	12.0
		Moderate SI patches	11982	13.00-14.00	1.00	0.090		23.0	64.0		67.0	10.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong CL pervasive	11983	14.00-15.00	1.00	0.005		17.0	16.0		50.0	6.0
		Moderate KS pervasive	11984	15.00-16.00	1.00	0.005		31.0	19.0		44.0	8.0
		Moderate HE stockwork	11985	16.00-17.00	1.00	0.005		34.0	32.0	10.0	48.0	6.0
		Weak PY microveins	11986	17.00-18.00	1.00	0.045		38.0	44.0	15.0	43.0	8.0
		Moderate QC microveins	11987	18.00-19.00	1.00	0.010		53.0	72.0	20.0	54.0	8.0
		Generally st ???, laminated etch work, local intense calcite micro-veinlets. stkwk. Additional textures are: mottled, foliated, wispy										
<10.50-11.10>		Hornblende Feldspar xtalline Fine grained, grayish-gray, porphyritic Weak CL pervasive Weak HE microveins Weak PY disseminated Moderate QC microveins Narrow zone of intrisive? cntl medium grained feldspar x/s in fine grained ground mass.										
<19.20-22.66>		Fine grained, greenish-green, porphyritic cleavage, foliation 80°:fracturing 45° Frs=4/m Moderate SI patches Moderate CL pervasive Moderate KS pervasive Weak HE microveins Moderate QC microveins Medium grained feldspar x/s in fine grained matrix - minor fine micro-veinlets of hematite especially near contact - lower contact appears to be at 45 degrees - upper contact is indistinct - local brecciation up to 1cm. wide with black chlorite filling voids between clasts.	11988	19.00-20.00	1.00	0.045		18.0	20.0		49.0	10.0
			11989	20.00-21.00	1.00	0.015		16.0	23.0	10.0	35.0	12.0
22.66	53.00	volcaniclastics Fine grained, greenish-green, heterolithic, mottled cleavage, foliation 45°:fracturing 45° Frs=4/m Moderate SI patches Moderate CL pervasive Moderate KS pervasive Moderate PY microveins Strong QC microveins Top contact with above intrusive is dark green and fine grained for about 1.5m - patches and fine fracture fillings of pyrite. Min pyrite ~ 3% - locally highly K-spar altered/silicified - locally,	11990	22.70-24.00	1.30	0.010		23.0	57.0	15.0	46.0	8.0
			11991	24.00-25.00	1.00	0.010		28.0	116.0	30.0	39.0	12.0
			11992	25.00-26.00	1.00	0.010		27.0	99.0	35.0	39.0	10.0
			11993	26.00-27.00	1.00	0.035		38.0	129.0	30.0	42.0	12.0
			11994	27.00-28.00	1.00	0.020		33.0	107.0	25.0	39.0	12.0
			11995	28.00-29.00	1.00	0.030		29.0	152.0	35.0	33.0	10.0
			11996	29.00-30.00	1.00	0.060		26.0	173.0	35.0	51.0	10.0
			11997	30.00-31.00	1.00	0.080		34.0	281.0	40.0	57.0	18.0
			11998	31.00-32.00	1.00	0.120		40.0	300.0	65.0	62.0	30.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		limonite in fractures.										
<23.85-24.00>		calcite vein ~30% calcite cementing brecciated HFBx.										
<27.20-27.23>												
<35.60-37.00>		volcaniclastics Intense QC microveins Brecciated with very strong calcite stockwork. Some veins up to 1cm overall calcite ~10% - 15%.										
<37.50-38.50>		rubbly fault zone Gouge gouge 45° Strong fault zone with 2-3cm gouge zones on the contacts - rock is very broken and clay rich fractures in the vicinity of the fault.										
<40.50-40.52>		calcite vein										
<42.30-42.32>												
53.00	71.20	volcaniclastics Fine grained, redish-green, heterolithic, stockwork cleavage, foliation 45°:fracturing 45° Frs=5/m :Vns =10/m Moderate SI patches Moderate CL pervasive Moderate KS pervasive Moderate HE stockwork Weak PY disseminated Weak QC microveins Local K-spar alteration/silicification with hematite alteration. Varying from weak to strong minor calcopyrite at 54.9m. Additional textures are: mottled,	11999	53.00-54.00	1.00	0.070		12.0	139.0		100.0	4.0
			12000	54.00-55.00	1.00	0.060		11.0	139.0		26.0	4.0
			12001	55.00-56.00	1.00	0.035		22.0	144.0		40.0	8.0
			12002	56.00-57.00	1.00	0.020		33.0	180.0		39.0	8.0
			12003	57.00-58.00	1.00	0.020		37.0	96.0	10.0	38.0	8.0
			12004	58.00-59.00	1.00	0.165		34.0	75.0		44.0	8.0
			12005	59.00-60.00	1.00	0.005		34.0	71.0		49.0	8.0
			12006	60.00-61.00	1.00	0.025		32.0	90.0		53.0	10.0
			12007	61.00-62.00	1.00	0.020		34.0	225.0		59.0	8.0
			12008	62.00-63.00	1.00	0.010		38.0	208.0		62.0	8.0
			12009	63.00-64.00	1.00	0.025		39.0	118.0		64.0	10.0
			12010	64.00-65.00	1.00	0.020		22.0	133.0		33.0	8.0
			12011	65.00-66.00	1.00	0.005		23.0	77.0		38.0	8.0
			12012	66.00-67.00	1.00	0.010		31.0	153.0	10.0	43.0	10.0
<63.95-63.98>		shear zone Shear zone with chlorite + ground up pyrite.										
71.20	79.00	volcaniclastics Fine grained, redish-green, veined, foliated foliated 15°:fracturing 45° Frs=4/m :Vns =30/m Strong SI patches Strong CL pervasive	12013	67.00-68.00	1.00	0.015		41.0	98.0		56.0	8.0
			12014	68.00-69.00	1.00	0.015		42.0	110.0	15.0	56.0	8.0
			12015	69.00-70.00	1.00	0.010		36.0	366.0	20.0	61.0	10.0
			12016	70.00-71.20	1.20	0.025	2.00	39.0	2647.0	25.0	141.0	8.0
			12017	71.20-72.00	0.80	0.850	1.20	164.0	448.0	30.0	529.0	6.0
			12018	72.00-73.00	1.00	7.560	1.00	362.0	122.0	80.0	391.0	6.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate MT patches	12019	73.00-74.00	1.00	0.510	0.40	121.0	122.0	10.0	186.0	6.0
		Strong KS pervasive	12020	74.00-75.00	1.00	0.355		56.0	34.0		123.0	6.0
		Intense HE vein	12021	75.00-76.00	1.00	0.340		57.0	65.0	5.0	113.0	6.0
		Moderate QC microveins	12022	76.00-77.00	1.00	0.120		60.0	46.0	10.0	120.0	6.0
		H-zone - generally weak one of semi - massive hematite	12023	77.00-78.00	1.00	0.110		84.0	274.0	10.0	149.0	6.0
		zones of intense K-spar alteration/silicification as well as intense /chlorite streaming - local breccia features with intense chlorite filling voids between clasts.	12024	78.00-79.00	1.00	0.680	1.40	370.0	1091.0	280.0	993.0	8.0
	<72.10-72.30>	Semi-massive hematite vein Strong MT patches Intense HE vein Moderate SE patches Strong QC microveins Highly foliated, semi-massive with patches of specularite.										
	<72.70-72.90>	calcite vein Calcite veins ~3cm wide. Sub-parallel to C.A.										
	<78.85-78.95>	Semi-massive hematite Intense K-spar alteration with 1cm veinlets of hematite.										
79.00	85.20	volcaniclastics	12025	79.00-80.00	1.00	0.010		174.0	85.0	80.0	1287.0	6.0
		Medium grained, redish-tan, Brecciated, foliated	12026	80.00-81.00	1.00	0.010		47.0	49.0	10.0	245.0	8.0
		foliated 15°:fracturing 35°	12027	81.00-82.00	1.00	0.005		27.0	69.0	25.0	75.0	8.0
		Frs=4/m	12028	82.00-83.00	1.00	0.010		30.0	50.0	20.0	60.0	12.0
		Moderate SI patches	12029	83.00-84.00	1.00	0.015		35.0	70.0	10.0	58.0	6.0
		Strong CL pervasive	12030	84.00-85.20	1.20	0.005		46.0	54.0	25.0	53.0	10.0
		Moderate KS pervasive Moderate HE pervasive Weak QC microveins Rock has strong breccia texture with approx. 70% clasts in hematite chlorite matrix - clasts consist of K-spar altered/silicified rock with clast size ranging from sand size up to 4cm.										
	<83.10-83.40>	calcite vein vein 45° Approx. 50% calcite with 1-2 cm wide bright green chlorite vein.										
85.20	86.92	Semi-massive hematite	12031	85.20-86.00	0.80	0.990	0.20	1550.0	211.0	1090.0	159.0	8.0
		Fine grained, redish-green, veined, stockwork	12032	86.00-86.92	0.92	9.260	0.60	840.0	99.0	675.0	190.0	12.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		vein 15°:cleavage, foliation 3° Frs=15/m Strong SI patches Strong CL pervasive Strong KS pervasive Intense HE vein Moderate QC microveins H-zone - zone of massive hematite veinlets. K-spar alteration/silicification with generally intense calcite stkwk along altered zones as well as chlorite stringers and wisps 1-2mm. At 85.4-85.45 rusty zone with coarsely x//line calcite with micro-veinlets of marcasite.										
		<86.77-86.92> massive hematite Weak MT patches Intense HE vein										
86.92	121.97	volcaniclastics	12033	86.92-88.00	1.08	0.105		370.0	226.0	345.0	143.0	10.0
		Fine grained, redish-green, heterolithic, stockwork	12034	88.00-89.00	1.00	0.050	0.20	220.0	207.0	205.0	88.0	14.0
		vein 45°:fracturing 35°	12035	89.00-90.00	1.00	0.005		39.0	112.0	45.0	36.0	12.0
		Frs=4/m :Vns =8/m	12036	102.00-103.00	1.00	0.605		10.0	160.0		84.0	14.0
		Moderate SI patches	12037	103.00-104.00	1.00	0.550	0.40	31.0	24.0	20.0	48.0	10.0
		Moderate CL pervasive	12038	104.00-105.00	1.00	0.045		12.0	42.0	5.0	47.0	8.0
		Moderate KS pervasive	12039	111.00-112.00	1.00	0.030	0.80	24.0	385.0	35.0	57.0	48.0
		Moderate HE stockwork	12040	112.00-113.00	1.00	18.030	3.40	3000.0	732.0	13600.0	82.0	26.0
		Weak PY vein	12041	113.00-114.00	1.00	0.335		91.0	373.0	125.0	57.0	8.0
		Moderate QC microveins	12042	114.00-115.00	1.00	0.040		22.0	75.0	35.0	46.0	10.0
		Variable hematite - chlorite altered with local strong K-feldspar/silicification. Local narrow	12043	115.00-116.00	1.00	0.050		15.0	80.0	20.0	50.0	28.0
		calcite-chlorite veinlets as well as local intense	12044	116.00-117.00	1.00	0.520	0.60	18.0	167.0	25.0	78.0	40.0
		calcite micro-veinlets at 102.6-104 ??? narrow. 5mm hematite stringers.	12045	117.00-118.00	1.00	0.010		7.0	7.0	5.0	46.0	10.0
		<104.17-104.18> Hematite chlorite calcite vein										
		<104.80-107.00> volcaniclastics Intense qtz-calcite stringer zone with ~30 stringers per meter with stringers generally up to 5mm to 1cm counted.										
		<112.38-112.58> sulphide-hematite vein vein 45° Intense CL vein Abundant chlorite with hematite/sulfide as well as 10cm K-spar altered/silicified zone just below vein.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<112.58-117.00>		volcaniclastics Local breccia features with generally intensely K-spar altered/silicified forming clasts in chloritic matrix.										
<113.50-121.92>		calcite vein Strong calcite stockwork with veinlets up to 1cm locally ~ 50-60 marrow veinlets per meter.										
<116.05-116.07>		PYRITE VEIN Pyrite here has been brecciated with calcite along fractures.										
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-123

PROJECT: Clone	Date Commenced:	Contractor:	Logged by:
DRILL HOLE: CL96-123	Date Completed:		Geotech by:
LENGTH: 137.16	Core Diam: NQII		

Collar Location	
Latitude: 2106.00	
Departure: 1956.00	
Elevation: 0.00	

S U M M A R Y

		DOWN HOLE SURVEYS			
		Depth	Azim	Inclin	Method
0.00-6.20	volcaniclastics	0.00	45.00	-80.00	
6.20-9.64	Chlorite Streaming				
9.64-11.00	Semi-massive hematite				
11.00-20.90	volcaniclastics				
20.90-41.80	Hornblende Feldspar xtalline				
41.80-63.60	volcaniclastics				
63.60-68.40	Hornblende Feldspar xtalline				
68.40-77.80	volcaniclastics				
77.80-85.00	volcaniclastics				
85.00-90.20	Semi-massive hematite				
90.20-121.80	volcaniclastics				
121.80-137.16	Hornblende Feldspar xtalline				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	6.20	volcaniclastics	12046	1.00-2.00	1.00	0.020	0.60	21.0	137.0	15.0	48.0	22.0
		Fine grained, greenish-green, heterolithic, foliated	12047	2.00-3.00	1.00	0.005		17.0	128.0	15.0	48.0	18.0
		foliated 10°:cleavage, foliation 45°	12048	3.00-4.00	1.00	0.005	0.20	17.0	73.0	10.0	48.0	16.0
		Frs=10/m	12049	4.00-5.00	1.00	0.005		17.0	96.0	10.0	47.0	16.0
		Moderate SI patches	12050	5.00-6.00	1.00	0.010	0.20	14.0	154.0			51.0
		Strong CL pervasive										
		Moderate KS pervasive										
		Moderate PY patches										
		Moderate QC microveins										
		Additional textures are: mottled and wispy.										
		Generally highly foliated with blebs of pyrite along foliation calcite micro veinlets are at 0 degrees and 45 degrees to CA - Minor limonite along fractures. Some black chlorite stringers with pyrite veinlets ~2-3cm Min py~2%.										
6.20	9.64	Chlorite Streaming	12051	6.00-7.00	1.00	0.005		19.0	36.0	5.0	79.0	16.0
		Fine grained, redish-green, mottled, foliated	12052	7.00-8.00	1.00	0.005		17.0	117.0		62.0	14.0
		cleavage, foliation 10°:foliated 10°	12053	8.00-9.00	1.00	0.005		21.0	82.0	10.0	89.0	14.0
		Frs=4/m :Vns =25/m	12054	9.00-9.64	0.64	0.130		20.0	28.0	20.0	86.0	10.0
		Moderate SI patches										
		Intense CL pervasive										
		Strong KS pervasive										
		Strong HE stockwork										
		Moderate QC microveins										
		Minor K-spar alteration/silicification with local breccia textures. Clasts of red hematite rich fragments in matrix of dark green chlorite. - Minor ?????? 2-3mm massive hematite.										
9.64	11.00	Semi-massive hematite	12055	9.64-11.00	1.36	0.095	0.40	23.0	89.0	30.0	47.0	6.0
		Fine grained, redish-green, foliated, mottled										
		foliated 15°:vein 15°										
		Frs=4/m :Vns =35/m										
		Strong SI patches										
		Intense CL pervasive										
		Strong KS pervasive										
		Intense HE vein										
		Moderate QC microveins										
		S2B zone - contact at 15 degrees to CA - zone consists of narrow veinlets of massive hematite parallel to each other as well as brecciated hematite rich fragments aligned in elongated manner with chlorite wisps giving a foliated appearance. Clasts in ??gouge?? are from sand size up to 4cm and are for the										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		most angular (mylonitic xtals).										
		Additional texture is "vn".										
11.00	20.90	volcaniclastics	12056	11.00-12.00	1.00	0.045		24.0	119.0	15.0	47.0	20.0
		Fine grained, greenish-green, mottled, heterolithic	12057	12.00-13.00	1.00	18.860	0.80	16.0	135.0	20.0	32.0	18.0
		vein 5°:cleavage, foliation 15°	12058	13.00-14.00	1.00	0.830	0.60	19.0	98.0	20.0	48.0	22.0
		Frs=10/m	12059	14.00-15.00	1.00	0.060	0.60	44.0	405.0	40.0	51.0	30.0
		Moderate SI patches	12060	15.00-16.00	1.00	0.005		24.0	123.0	20.0	35.0	16.0
		Strong CL pervasive	12061	16.00-17.00	1.00	0.005		23.0	121.0	15.0	28.0	14.0
		Strong KS pervasive	12062	17.00-18.00	1.00	0.015		36.0	143.0	30.0	38.0	20.0
		Moderate HE vein	12063	18.00-19.00	1.00	0.030	0.40	18.0	38.0	15.0	39.0	18.0
		Moderate PY microveins	12064	19.00-20.00	1.00	0.015		22.0	24.0	10.0	43.0	20.0
		Moderate QC microveins										
		Additional tx=vn and sw										
		Generally highly K-spar altered/silicified with local very intense tension fracturing with subsequent calcite emplacement - hematite present up to 19.2m										
<12.30-14.00>		Chlorite Streaming										
		Medium grained, greenish-green, Brecciated										
		Strong PY microveins										
		Zone of highly brecciated rock with subsequent chlorite streaming - discontinuous patches of rusty zone (after sulphide) at 0 to 15 degrees to CA										
		Fragments of hematite rich rock.										
<14.80-14.82>		massive hematite										
20.90	41.80	Hornblende Feldspar xtalline	12065	20.00-21.00	1.00	0.010		17.0	7.0	10.0	40.0	16.0
		Fine grained, grayish-gray, porphyritic, massive	12066	21.00-22.00	1.00	0.015	0.20	15.0	6.0		42.0	12.0
		cleavage, foliation 45°:fracturing 45°	12067	22.00-23.00	1.00	0.010		19.0	44.0	10.0	41.0	10.0
		Frs=6/m	12068	23.00-24.00	1.00	0.005		18.0	45.0	15.0	40.0	12.0
		Moderate SI patches	12069	24.00-24.00	0.00	0.035		18.0	57.0	25.0	43.0	14.0
		Moderate CL pervasive	12070	25.00-26.00	1.00	0.005		17.0	76.0	25.0	30.0	18.0
		Moderate KS pervasive	12071	26.00-27.00	1.00	0.010		20.0	88.0	25.0	32.0	18.0
		Moderate PY disseminated	12072	27.00-28.00	1.00	0.025		24.0	179.0	25.0	43.0	22.0
		Moderate QC microveins	12073	28.00-29.00	1.00	0.055	0.20	29.0	224.0	55.0	44.0	24.0
		From 20.9 to 29.7, the rock is grey porphyritic with medium grained feldspar x/s in fine grained groundmass	12074	29.00-30.00	1.00	0.060	1.00	41.0	446.0	55.0	56.0	38.0
		from 20.9 to 41m, the rock is basically very fine grained with no obvious xl structure. Section from	12075	30.00-31.00	1.00	0.065	0.80	25.0	211.0	65.0	28.0	22.0
		24.7 to 28.8 is distinguishable due to darker colour	12076	31.00-32.00	1.00	0.055		44.0	184.0	220.0	30.0	20.0
		and lack of strong calcite stockwork. Pyrite occurs	12077	32.00-33.00	1.00	0.100		28.0	120.0	155.0	26.0	16.0
		as both veinlets and disseminations.	12078	33.00-34.00	1.00	0.170		30.0	192.0	90.0	24.0	22.0
			12079	34.00-35.00	1.00	0.070		37.0	118.0	225.0	31.0	22.0
			12080	35.00-36.00	1.00	0.255	0.60	29.0	125.0	80.0	37.0	22.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<27.50-27.90>		semi-massive sulphides Highly pyritic as fine grained patches and veinlets. Min py ~15%.										
<28.90-29.10>		calcite vein Approx. 30% calcite with minor chlorite stringers with pyrite. Min py~5%.										
<29.35-29.70>		semi-massive sulphides Highly pyritic and chloritic rock. Min py ~10%.										
<30.75-30.80>		calcite vein										
<30.87-30.88>												
<35.70-37.00>		Broken Core Limonitic on fractures.	12081	36.00-37.00	1.00	0.075	0.60	18.0	83.0	45.0	30.0	18.0
<37.70-37.80>		shear zone sheeting 40° Narrow shear planes with slickensides along dip surfaces.										
<37.95-38.20>		Broken Core	12082	37.00-38.00	1.00	0.140		27.0	189.0	75.0	42.0	22.0
<39.05-39.30>		Limonite on fractures.	12083	38.00-39.00	1.00	0.175		14.0	70.0	35.0	35.0	14.0
<39.60-40.40>			12084	39.00-40.00	1.00	0.065		28.0	136.0	60.0	48.0	20.0
<40.40-40.76>		semi-massive sulphides vein 15° Massive pyrite veins up to 4cm width. Veins are at 15 degrees to CA with 1cm calcite vein along bottom contact. Zone consists of sulfide, minor hematite calsts, black chlorite wisps, carbonate as well as minor arsenopyrite. Min py~50% Ap~5% cp<1%										
<41.00-41.10>		calcite vein	12085	40.00-41.00	1.00	7.310	2.60	407.0	1489.0	3750.0	71.0	52.0
<41.23-41.80>		rubbly fault zone Highly broken into pieces varying from sand up to 4cm with poor recovery.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
41.80	63.60	volcaniclastics	12086	41.00-42.00	1.00	0.035		20.0	63.0	120.0	21.0	14.0
		Fine grained, grayish-gray, fragmental, mottled	12087	42.00-43.00	1.00	0.450	0.20	26.0	85.0	265.0	24.0	38.0
		cleavage, foliation 45°:fracturing 35°	12088	43.00-44.00	1.00	4.460	1.40	49.0	316.0	325.0	49.0	42.0
		Frs=6/m	12089	44.00-45.00	1.00	0.900	0.20	13.0	124.0	50.0	33.0	12.0
		Moderate SI patches	12090	45.00-46.00	1.00	0.060		9.0	59.0	20.0	26.0	12.0
		Moderate CL pervasive	12091	46.00-47.00	1.00	0.275		7.0	635.0	35.0	45.0	14.0
		Moderate KS pervasive	12092	47.00-48.00	1.00	0.060		9.0	297.0	80.0	36.0	20.0
		Weak PY disseminated	12093	48.00-49.00	1.00	0.120		8.0	322.0	50.0	35.0	14.0
		Moderate QC microveins	12094	49.00-50.00	1.00	0.005		19.0	653.0	80.0	35.0	10.0
		Locally highly K-spar altered/silicified with minor narrow chlorite veinlets. Narrow black chlorite veinlets have py associated with them - locally extremely brecciated with calcite minor stockwork along fractures.										
		Additional textures are: HT and brecciated.										
	<41.80-42.80>	calcite vein										
		Stron calcite ?flooding? with calcite up to 50% of zone.										
	<62.40-62.90>	Broken Core										
63.60	68.40	Hornblende Feldspar xtalline										
		Fine grained, grayish-gray, heterolithic cleavage, foliation 45°:fracturing 35°										
		Frs=4/m										
		Moderate SI patches										
		Moderate CL pervasive										
		Moderate KS pervasive										
		Weak HE patches										
		Weak PY disseminated										
		Moderate QC microveins										
		Locally K-spar altered/silicified with fine grained altered hornblende in almost aphanitic groundmass.										
68.40	77.80	volcaniclastics	12095	68.00-69.00	1.00	0.020	0.20	28.0	163.0	40.0	43.0	14.0
		Grayish-gray, mottled, Brecciated	12096	69.00-70.00	1.00	0.035	0.60	27.0	120.0	30.0	35.0	16.0
		cleavage, foliation 45°:fracturing 35°	12097	70.00-71.00	1.00	0.010		31.0	121.0	25.0	42.0	20.0
		Frs=5/m	12098	71.00-72.25	1.25	0.020		19.0	71.0	15.0	40.0	14.0
		Strong SI patches	12099	72.25-73.19	0.94	0.130	1.00	25.0	371.0	20.0	31.0	26.0
		Strong CL pervasive	12100	73.19-74.00	0.81	0.040	0.40	15.0	143.0	15.0	34.0	16.0
		Strong KS pervasive	12101	74.00-75.00	1.00	0.075		31.0	179.0	25.0	33.0	16.0
		Moderate PY patches	12102	75.00-76.00	1.00	0.025		30.0	115.0	15.0	27.0	16.0
		Moderate QC microveins	12103	76.00-77.30	1.30	0.005		31.0	108.0	5.0	39.0	14.0
		Local strong breccia textures - breccia consists of K-spar altered fragments elongated in matrix of black										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		chlorite.										
		Addition Tx=HT										
<68.50-69.00>		Broken Core Limonitic on fractures (lost core).										
<72.20-73.10>		volcaniclastics Breccia with coarse pyritic blebs up to 2cm - at 773 to 131 in semi-massive py. Min py~10%										
<77.80-79.10>		stringer 15°:cleavage, foliation 45° Frs=4/m Strong SI patches Intense CL pervasive Intense KS pervasive Weak HE patches Weak PY blebs Strong QC microveins H-zone. Very intense K-spar alteration to a pink to tan rock with stringers of green to black chlorited ~15 degrees to CA. Minor pyrite blebs on upper contact ~30cm of intense chlorite streaming.	12104	77.30-78.00	0.70	0.065	0.20	30.0	444.0	15.0	45.0	12.0
<79.10-85.00>		Fine grained, greenish-green, mottled, heterolithic cleavage, foliation 45°:fracturing 45° Moderate SI patches Moderate CL pervasive Moderate KS pervasive Weak HE stockwork Weak PY disseminated Strong QC microveins Minor hematite alteration generally from 83.7-85. Strong calcite stockwork.	12105	78.00-79.30	1.30	0.140	0.80	42.0	150.0	35.0	67.0	12.0
			12106	79.30-81.00	1.70	0.010		28.0	172.0	20.0	41.0	10.0
			12107	81.00-82.00	1.00	0.040	0.20	33.0	302.0	50.0	40.0	18.0
			12108	82.00-83.00	1.00	0.005	0.60	34.0	136.0	25.0	45.0	20.0
			12109	83.00-84.00	1.00	0.005		27.0	76.0		44.0	14.0
			12110	84.00-85.00	1.00	0.005	0.60	29.0	218.0		68.0	14.0
<79.95-80.05>		calcite vein										
<83.80-83.85>		Minor hematite in chloritic fragments in vein.										
85.00	90.20	Semi-massive hematite	12111	85.00-86.00	1.00	0.060	1.00	38.0	940.0	45.0	97.0	14.0
		Fine grained, redish-green, heterolithic, stockwork fracturing 35°:cleavage, foliation 45°	12112	86.00-87.00	1.00	0.010		19.0	551.0	10.0	53.0	16.0
			12113	87.00-88.00	1.00	0.040	0.40	27.0	324.0	30.0	75.0	8.0
		Frs=7/m	12114	88.00-89.00	1.00	0.780	1.00	39.0	414.0	40.0	81.0	4.0
		Strong SI patches Strong CL pervasive Strong KS pervasive	12115	89.00-90.00	1.00	0.340	0.60	56.0	117.0	40.0	104.0	8.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong HE stockwork. Weak PY disseminated Moderate QC microveins H-zone. Zone consists of sections of strong hematite alteration local narrow K-spar alteration/silicification, strongly brecciated rock with k-spar altered fragments in block chlorite matrix. Minor cp at 86.9 to 87.1m										
90.20	121.80	volcaniclastics	12116	90.00-91.00	1.00	0.520	0.80	110.0	387.0	140.0	62.0	12.0
		Fine grained, grayish-gray, heterolithic, mottled fracturing 35°:cleavage, foliation 45°	12117	91.00-92.00	1.00	0.005		15.0	33.0	10.0	21.0	10.0
		Frs=4/m	12118	92.00-93.00	1.00	0.215	0.20	18.0	95.0	35.0	29.0	10.0
		Moderate SI patches	12119	93.00-94.00	1.00	0.010	0.60	13.0	45.0	20.0	43.0	18.0
		Moderate CL pervasive	12120	94.00-95.00	1.00	0.005		13.0	47.0	25.0	45.0	14.0
		Moderate KS pervasive	12121	95.00-96.00	1.00	0.030		12.0	45.0	15.0	35.0	16.0
		Weak HE patches	12122	96.00-97.00	1.00	0.010		14.0	37.0	10.0	40.0	8.0
		Moderate PY vein	12123	97.00-98.00	1.00	0.010		9.0	16.0		22.0	8.0
		Moderate QC microveins	12124	98.00-99.00	1.00	0.005		11.0	85.0	10.0	25.0	12.0
		Generally appears as crystalline ????? except for local breccia features. Local strong K-spar alteration/silicification with wisps of black chlorite	12125	99.00-100.00	1.00	0.100		17.0	69.0	45.0	33.0	38.0
		local strong calcite stockwork.	12126	100.00-101.00	1.00	0.060	0.80	19.0	222.0	70.0	46.0	24.0
			12127	101.00-102.00	1.00	0.040	0.60	23.0	187.0	55.0	45.0	24.0
			12128	102.00-103.00	1.00	1.160		70.0	237.0	170.0	44.0	14.0
			12129	103.00-104.00	1.00	1.890		38.0	121.0	60.0	50.0	4.0
<99.35-99.37>		calcite vein										
<99.85-99.87>												
<102.70-105.00>		Chlorite Streaming Foliated foliated 15° Strong SI patches Intense CL pervasive Strong KS pervasive Weak PY microveins Local stron K-spar alteration/silicification.	12130	104.00-105.00	1.00	0.015		9.0	8.0	15.0	30.0	14.0
<113.00-113.60>		Weak HE microveins Strong PY vein Strong pyrite as patches and veinlets, minor hematite.	12131	105.00-106.00	1.00	0.020		10.0	48.0	25.0	34.0	12.0
<117.00-118.60>		Intense SI pervasive Moderate HE microveins Strong PY vein Strong local K-spar alteration/silicification with hematite veinlets +- ????? 117.75m 118.9 and 118.3m (veinlets are 2.3 cm wide).	12132	113.00-114.00	1.00		0.20	242.0	274.0	445.0	112.0	56.0
			12133	114.00-115.00	1.00	0.010		24.0	287.0	50.0	65.0	40.0
			12134	115.00-116.00	1.00	0.070		27.0	162.0	50.0	66.0	22.0
			12135	116.00-117.00	1.00	0.405		38.0	145.0	65.0	81.0	54.0
			12136	117.00-117.96	0.96	0.760	0.60	84.0	281.0	145.0	108.0	38.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<121.20-121.35> semi-massive sulphides	12137	117.96-119.00	1.04		0.80	120.0	376.0	195.0	107.0	26.0
		Coarse py as large patches at 20 dgrees to CA. Minor hematite. Min py~25%	12138	119.00-120.00	1.00	0.045	0.20	20.0	121.0	30.0	64.0	14.0
			12139	120.00-121.00	1.00	0.035	0.20	21.0	269.0	15.0	53.0	14.0
121.80	137.16	Hornblende Feldspar xtalline	12140	121.00-122.00	1.00	0.080	0.40	34.0	288.0	120.0	56.0	24.0
		Fine grained, grayish-gray, crystalline cleavage, foliation 35°:fracturing 35°	12141	122.00-123.00	1.00	0.005		19.0	106.0	30.0	46.0	6.0
		Frs=4/m	12142	123.00-124.00	1.00	0.010		23.0	83.0	30.0	59.0	8.0
		Moderate SI patches	12143	124.00-125.00	1.00	0.005		11.0	80.0	15.0	49.0	8.0
		Moderate CL pervasive										
		Moderate KS pervasive										
		Weak HE microveins										
		Weak PY disseminated										
		Moderate QC microveins										
		Narrow local patches of brecciated ??????? frock with strong chlorite for the most part sections as very fine grained with a strong calcite stockwork.										
		<135.63-136.90> rubbly fault zone										
		Foliated										
		foliated										
		Weakly limonitic gouge.										
		<136.90-137.16> Hornblende Feldspar xtalline										
		Brecciated										
		Highly brecciated with abundant clay on fractures.										
		(eoh)										

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-124

PROJECT: Clone	Date Commenced:	Contractor:	Logged by:
DRILL HOLE: CL96-124	Date Completed:		Geotech by:
LENGTH: 123.74	Core Diam: NQII		

Collar Location	
Latitude: 2084.00	
Departure: 1960.00	
Elevation: 0.00	

S U M M A R Y

0.00-4.10	volcaniclastics
4.10-13.80	Chlorite Streaming
13.80-36.50	volcaniclastics
36.50-52.90	volcaniclastics
52.90-68.10	volcaniclastics
68.10-85.00	Semi-massive hematite
85.00-123.74	Hornblende Feldspar xtalline

DOWN HOLE SURVEYS			
Depth	Azim	Inclin	Method
0.00	45.00	-72.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	4.10	volcaniclastics	12144	1.18-2.00	0.82	0.110		9.0	13.0	30.0	36.0	8.0
		Greenish-green, mottled, heterolithic	12145	2.00-3.00	1.00	0.755		10.0	53.0	10.0	38.0	44.0
		cleavage, foliation 45°:fracturing 45°	12146	3.00-4.00	1.00	0.205	0.20	11.0	98.0	10.0	44.0	48.0
		Frs=5/m										
		Moderate SI patches										
		Strong CL pervasive										
		Moderate KS pervasive										
		Weak PY disseminated										
		Moderate QC microveins										
		Locally K-spar altered/silicified with some strong										
		breccia features - rock appears to have been										
		originally a feldspar porphyry - strong chlorite in										
		area of brecciation.										
4.10	13.80	Chlorite Streaming	12147	4.00-5.00	1.00		0.80	27.0	169.0	10.0	60.0	12.0
		Medium grained, greenish-black, Brecciated, mottled	12148	5.00-6.00	1.00	0.480		11.0	21.0		44.0	4.0
		cleavage, foliation 45°:fracturing 45°	12149	6.00-7.00	1.00	0.175		16.0	15.0		42.0	6.0
		Frs=5/m	12150	7.00-8.00	1.00	0.005		13.0	5.0		37.0	4.0
		Strong SI patches	12151	8.00-9.60	1.60	0.230		13.0	6.0		39.0	4.0
		Strong CL pervasive	12152	9.60-11.00	1.40		2.80	19.0	134.0	10.0	49.0	8.0
		Strong KS pervasive	12153	11.00-12.00	1.00		1.20	13.0	31.0		35.0	4.0
		Weak HE microveins	12154	12.00-13.00	1.00	0.455		24.0	54.0	25.0	54.0	8.0
		Moderate PY patches										
		Moderate QC microveins										
		S-2A zone - zone consists of strong brecciated										
		materials, strong chlorite streaming in areas of										
		brecciation as well as strongly K-spar altered										
		silicified fragments(showing strong brecciation										
		features with intense calcite micro-veinlets filling										
		fractures) minor hematite micro veinlets.										
	<4.10-4.50>	Clasts up to 8cm with black chlorite and coarse pyrite										
		patches - black chlorite between. Min py ~10%.										
	<9.60-10.90>	Clasts up to 8cm - some clasts are extremely K-spar										
		altered with veinlets of hematite clasts are also										
		extremely fractured with intense calcite micro-veinlet										
		stockwork., pyrite as blebs - black chlorite between										
		clasts. Min py ~5%.										
	<11.00-13.80>	foliated 45°										
		Moderate HE wispy										
		Weak PY disseminated										
		Moderate QC microveins										
		Abundant fine hematite as wisps and micro-veinlets -										
		local intense K-spar alteration - zone has appearance										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		of mylonite.										
13.80	36.50	volcaniclastics	12155	13.00-14.00	1.00		0.80	78.0	87.0	105.0	88.0	18.0
		Fine grained, greenish-green, mottled, Brecciated	12156	14.00-15.00	1.00	0.075		33.0	153.0	55.0	86.0	14.0
		cleavage, foliation 45°:fracturing 20°	12157	15.00-16.00	1.00	0.050		22.0	80.0	45.0	89.0	28.0
		Frs=4/m	12158	16.00-17.00	1.00	0.005		20.0	12.0	15.0	73.0	8.0
		Moderate SI patches	12159	17.00-18.00	1.00	0.005		28.0	67.0	45.0	84.0	10.0
		Moderate CL pervasive	12160	18.00-19.50	1.50	0.005		15.0	37.0	30.0	54.0	20.0
		Strong KS pervasive	12161	19.50-21.00	1.50	0.230	0.40	18.0	118.0	15.0	54.0	12.0
		Weak HE patches	12162	21.00-22.00	1.00	0.105		10.0	55.0	20.0	40.0	8.0
		Moderate PY patches	12163	22.00-23.00	1.00		1.00	16.0	111.0	40.0	45.0	14.0
		Moderate QC microveins	12164	23.00-24.00	1.00	0.290		18.0	7.0	30.0	55.0	8.0
		From 13.8 - 15.6 - weak hematite rich calcite fragment	12165	24.00-25.00	1.00	0.415		16.0	33.0	25.0	52.0	8.0
		- local very intense calcite stockwork - local breccia	12166	25.00-26.00	1.00	0.615		18.0	56.0	95.0	51.0	10.0
		sections with black chlorite and minor pyrite.	12167	26.00-27.00	1.00		1.00	384.0	55.0	5575.0	61.0	244.0
<19.60-20.00>		Chlorite Streaming										
		Large K-spar altered clasts in a black chlorite rich groundmass. Min py ~2%.										
<20.90-21.03>		Coarse pyrite along lineations in black chlorite.										
<22.30-22.60>		Clasts of intensely altered K-spar up to 10cm in black chlorite groundmass. Pyrite as coarse blebs. Min py ~9%										
<23.50-26.25>		foliated 15°:cleavage, foliation 40°										
		Weak PY disseminated										
		Strong breccia feature with clasts of intensely K-spar altered rock ~40-50% is very chloritic matrix. Minor py. Min py ~1%										
<30.70-31.40>		Fine grained, greenish-black, foliated, mottled	12168	27.00-28.00	1.00	0.090		41.0	146.0	75.0	47.0	28.0
		foliated 15°	12169	28.00-29.00	1.00	0.020		36.0	263.0	35.0	51.0	14.0
		Frs=6/m	12170	29.00-30.00	1.00	0.035		26.0	271.0	30.0	60.0	14.0
		Moderate SI patches	12171	30.00-31.00	1.00	0.140	0.60	30.0	570.0	80.0	59.0	30.0
		Intense CL pervasive										
		Strong KS pervasive										
		Intense PY blebs										
		Strongly chloritic with coarsely x/line pyrite (cubes) with calcite occurring as blebs in black chlorite. Min py ~10%. Weathers ???vuggy?? - limonitic on fractures.										
<31.70-31.72>		calcite vein										
<35.50-35.52>			12172	31.00-32.00	1.00	0.160		36.0	125.0	135.0	47.0	22.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
36.50	52.90	volcaniclastics	12173	32.00-33.00	1.00	0.045		36.0	248.0	30.0	57.0	12.0
		Fine grained, redish-green, stockwork, heterolithic	12174	33.00-34.00	1.00	0.010		25.0	110.0		61.0	12.0
		foliated 20°:cleavage, foliation 40°	12175	34.00-35.00	1.00	0.020		29.0	266.0		53.0	12.0
		Frs=5/m :Vns =15/m	12176	35.00-36.00	1.00	0.005		23.0	164.0		51.0	10.0
		Moderate SI patches	12177	36.00-37.00	1.00	0.030		22.0	199.0	5.0	48.0	10.0
		Strong CL pervasive	12178	37.00-38.00	1.00	0.025		18.0	63.0		47.0	10.0
		Strong KS pervasive	12179	38.00-39.00	1.00	0.060		18.0	98.0		45.0	14.0
		Moderate HE stockwork	12180	39.00-40.00	1.00	0.025		16.0	56.0		45.0	10.0
		Weak PY disseminated	12181	40.00-41.00	1.00	0.020		19.0	87.0	10.0	36.0	12.0
		Moderate QC microveins	12182	41.00-42.00	1.00	0.020		22.0	134.0	20.0	47.0	12.0
		Lower contact of hematite rich zone is at 20 degrees - hematite - chlorite altered zone, local intense K-spar alteration - abundant chlorite minor hematite rich calcite fragments up to 1cm. Minor limonitic fractures. Additional textures are: mottled and wispy/	12183	42.00-43.00	1.00	0.180		28.0	414.0		62.0	14.0
<43.10-52.90>		Fine grained, greenish-green, heterolithic, mottled fracturing 45°:cleavage, foliation 45°	12184	43.00-44.00	1.00	0.015		26.0	108.0		47.0	14.0
		Frs=6/m	12185	44.00-45.00	1.00	0.080		30.0	164.0		52.0	16.0
		Moderate SI patches	12186	45.00-46.00	1.00	0.010		36.0	160.0	25.0	47.0	16.0
		Moderate CL pervasive	12187	46.00-47.00	1.00	0.020		21.0	127.0	30.0	55.0	16.0
		Moderate KS pervasive	12188	47.00-48.00	1.00	0.040		33.0	185.0	30.0	53.0	22.0
		Moderate PY microveins	12189	48.00-49.00	1.00	0.015		32.0	188.0	35.0	50.0	20.0
		Strong QC microveins	12190	49.00-50.00	1.00	0.030		35.0	180.0	45.0	59.0	22.0
		Strongly fractured with strong calcite stockwork along fractures - local minor pyrite microveinlets.	12191	50.00-51.00	1.00	0.080		40.0	282.0	15.0	97.0	20.0
			12192	51.00-52.00	1.00	0.070		42.0	331.0	40.0	70.0	26.0
<49.40-49.85>		Broken Core										
		Limonitic on fractures.										
<51.70-52.00>		Limonitic on fractures.										
52.90	68.10	volcaniclastics	12193	52.00-53.00	1.00	0.005		37.0	193.0	20.0	55.0	20.0
		Fine grained, redish-green, heterolithic, stockwork	12194	53.00-54.00	1.00	0.005		33.0	189.0	10.0	84.0	22.0
		foliated 10°:cleavage, foliation 15°	12195	54.00-55.00	1.00	0.020		57.0	277.0	50.0	88.0	26.0
		Frs=6/m	12196	55.00-56.00	1.00	0.035		112.0	346.0	45.0	103.0	16.0
		Moderate SI patches	12197	56.00-57.00	1.00	0.070		57.0	295.0		80.0	20.0
		Strong CL pervasive	12198	57.00-58.00	1.00	0.025		33.0	53.0		84.0	20.0
		Moderate KS pervasive	12199	58.00-59.00	1.00	0.010		22.0	68.0		97.0	22.0
		Moderate HE stockwork	12200	59.00-60.00	1.00	0.430		62.0	103.0	25.0	64.0	28.0
		Weak PY disseminated	12201	60.00-61.00	1.00	0.020		42.0	147.0	5.0	53.0	24.0
		Moderate QC microveins	12202	61.00-62.00	1.00	0.010		31.0	148.0		52.0	18.0
		Locally highly foliated (mylonitic) with strong chlorite stringers ~1-2mm - local K-spar alteration.	12203	62.00-63.00	1.00	0.010		26.0	97.0	10.0	57.0	24.0
			12204	63.00-64.00	1.00	0.020		39.0	161.0	5.0	76.0	24.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Minor hematite stringers ~1-2mm. Additional textures are: foliated and mottled.	12205	64.00-65.00	1.00	0.020		39.0	250.0	55.0	85.0	22.0
			12206	65.00-66.00	1.00	0.060	0.40	44.0	546.0	35.0	129.0	14.0
		<63.30-65.37> Broken Core Local calcite - chlorite veins up to 1cm.										
		<65.50-68.10> Chlorite Streaming Foliated foliated 25° Strong chlorite with some narrow massive hematite stringers ~2-3mm.	12207	66.00-67.00	1.00	0.325		454.0	80.0	355.0	227.0	16.0
			12208	67.00-68.00	1.00		0.80	701.0	799.0	750.0	184.0	22.0
		<67.70-68.00> Broken Core Poor core recovery.										
68.10	85.00	Semi-massive hematite Fine grained, blackish-red, stockwork, veined :cleavage, foliation 45° Frs=4/m Moderate SI patches Intense CL pervasive Moderate MT vein Strong KS pervasive Moderate HE microveins Moderate PY vein Weak QC microveins H-zone - Very strong H-zone consisting of some massive pyrite veins, massive to semi-massive hematite stringers, minor chlorite streaming and sections of intense K-spar alteration silicification - hematite veins are at 20 degrees to CA.	12209	68.00-69.00	1.00	0.630		60.0	453.0	20.0	72.0	20.0
			12210	69.00-70.00	1.00	0.515	0.80	91.0	245.0	410.0	74.0	52.0
			12211	70.00-71.00	1.00	0.470		28.0	170.0	25.0	75.0	20.0
			12212	71.00-72.00	1.00			101.0	139.0	75.0	106.0	20.0
			12213	72.00-73.00	1.00	0.075		148.0	216.0	150.0	84.0	12.0
			12214	73.00-74.00	1.00	0.070		48.0	396.0	65.0	60.0	12.0
			12215	74.00-75.00	1.00	0.080		188.0	300.0	330.0	115.0	14.0
			12216	75.00-76.00	1.00		0.20	3034.0	368.0	3465.0	384.0	26.0
			12217	76.00-77.00	1.00		0.20	1172.0	151.0	1370.0	161.0	12.0
			12218	77.00-78.00	1.00		29.40	951.0	341.0	1265.0	128.0	24.0
			12219	78.00-79.17	1.17		24.80	409.0	333.0	630.0	88.0	50.0
			12220	79.17-80.00	0.83		1.40	755.0	21.0	640.0	284.0	14.0
			12221	80.00-81.00	1.00	0.295		884.0	54.0	485.0	261.0	14.0
			12222	81.00-82.00	1.00	0.245	1.00	842.0	1420.0	985.0	257.0	16.0
			12223	82.00-83.00	1.00	0.615		39.0	200.0	20.0	91.0	36.0
			12224	83.00-84.00	1.00	0.100		44.0	99.0	25.0	106.0	16.0
		<68.10-68.25> massive hematite										
		<69.50-69.75> PYRITE VEIN Coarse grained pyrite - rusty.										
		<69.75-70.00> Chlorite Streaming Black chlorite with ~10% pyrite.										
		<75.50-76.00> massive hematite Veins of magnetite up to 1cm in massive hematite. Some magnetite occurs as patched.										
		<76.00-76.30> Semi-massive hematite Intense K-spar alteration/silicification.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<76.60-76.70>		hematite vein Veined										
<77.50-77.80>		Coarse grained magnetite ~20% of zone.										
<77.90-77.95>												
<78.03-79.17>		?? HE vein Moderate SE microveins Specularite - calcite veinlets ~5mm - Coarse magnetite Veinlets up to 1cm Magnetite ~20%.										
<83.20-83.25>												
<84.90-85.00>		Semi-massive hematite Strong black chlorite.	12225	84.00-85.00	1.00	0.005		30.0	154.0	20.0	71.0	12.0
85.00	123.74	Hornblende Feldspar xtalline	12226	85.00-86.00	1.00	0.005		37.0	81.0	60.0	83.0	14.0
		Fine grained, redish-green, crystalline, stockwork cleavage, foliation 45°:hematite stringers 45°	12227	86.00-87.00	1.00	0.025		32.0	48.0	30.0	77.0	14.0
		Frs=6/m :Vns =45/m	12228	87.00-88.00	1.00	0.015		20.0	161.0	10.0	102.0	14.0
		Moderate SI patches	12229	88.00-89.00	1.00	0.015		18.0	49.0	5.0	66.0	24.0
		Moderate CL pervasive	12230	89.00-90.00	1.00	0.005		15.0	59.0	5.0	36.0	16.0
		Moderate KS phenocrystal replacement	12231	90.00-91.00	1.00	0.005		16.0	73.0	10.0	33.0	14.0
		Moderate HE stockwork	12232	91.00-92.00	1.00	0.005		17.0	65.0	10.0	36.0	14.0
		Weak PY disseminated	12233	92.00-93.00	1.00	0.140		21.0	93.0	15.0	41.0	14.0
		Moderate QC microveins	12234	93.00-94.00	1.00	0.260		19.0	71.0	20.0	65.0	18.0
		Variably hematite - chlorite altered with minor 1cm hematite veinlets - local intense K-spar alteration	12235	94.00-95.00	1.00	0.020		17.0	50.0	25.0	40.0	24.0
		with wisps of black chlorite - local calcite - chlorite veinlets <1cm - locally rock has psuedo-breccia appearance due to hematite alteration	12236	95.00-96.00	1.00	0.005		14.0	35.0	25.0	67.0	24.0
		along fractures - local intense K-spar alteration/silicification. Additional textures are: whispy and mottled.	12237	96.00-97.00	1.00	0.010		11.0	42.0	30.0	549.0	250.0
			12238	116.00-117.00	1.00	0.010		34.0	91.0	45.0	142.0	20.0
			12239	117.00-118.00	1.00	0.050		21.0	10.0	20.0	84.0	14.0
			12240	118.00-119.00	1.00	0.005		14.0	94.0		70.0	4.0
			12241	119.00-120.00	1.00	0.010		16.0	121.0	10.0	64.0	4.0
			11242	120.00-121.00	1.00							
			11243	121.00-122.00	1.00							
<92.50-92.51>		hematite vein										
<93.10-93.11>												
<96.50-96.80>		Broken Core Limonite in fractures.										
<119.00-121.80>		Chlorite Streaming Minor pyrite veinlets, local breccia appearance.										
<121.80-121.97>		calcite vein										

HOLE: CL96-124

HOMESTAKE MINING COMPANY - Clone

PAGE 6 of 5

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-125

PROJECT: Clone	Date Commenced:	Contractor:	Logged by:
DRILL HOLE: CL96-125	Date Completed:		Geotech by:
LENGTH: 159.71	Core Diam: NQII		

Collar Location	
Latitude: 2084.00	
Departure: 1960.00	
Elevation: 0.00	

S U M M A R Y

0.00-4.88	Hornblende Feldspar xtalline
4.88-7.23	Chlorite Streaming
7.23-68.50	Hornblende Feldspar xtalline
68.50-77.00	Chlorite Streaming
77.00-88.40	Hornblende Feldspar xtalline
88.40-91.20	Chlorite Streaming
91.20-109.50	Hornblende Feldspar xtalline
109.50-111.20	Chlorite Streaming
111.20-128.90	Hornblende Feldspar xtalline
128.90-140.50	Hornblende Feldspar xtalline
140.50-159.71	Hornblende Feldspar xtalline

DOWN HOLE SURVEYS			
Depth	Azim	Inclin	Method
0.00	45.00	-76.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	4.88	Hornblende Feldspar xtalline	12244	1.00-2.00	1.00	0.110		7.0	4.0		43.0	6.0
		Fine grained, greenish-green, mottled, crystalline	12245	2.00-3.00	1.00		2.60	17.0	102.0	25.0	56.0	52.0
		cleavage, foliation 15°:fracturing 45°	12246	3.00-4.00	1.00	0.040		9.0	48.0	10.0	56.0	30.0
		Frs=5/m	12247	4.00-4.88	0.88	0.110	0.40	12.0	130.0	10.0	62.0	42.0
		Moderate SI patches										
		Moderate CL pervasive										
		Moderate KS pervasive										
		Weak PY patches										
		Moderate QC microveins										
		Rock appears to be brecciated porphyry with local										
		intense K-spar alteration - local breccia appearance										
		with strong black chlorite - pyrite occurs as coarse										
		blebs.										
4.88	7.23	Chlorite Streaming	12248	4.88-6.00	1.12		0.80	28.0	68.0	25.0	63.0	12.0
		Blackish-green, Brecciated, mottled	12249	6.00-7.23	1.23		0.60	17.0	151.0	10.0	52.0	10.0
		cleavage, foliation 45°:fracturing 60°										
		Frs=4/m										
		Moderate SI patches										
		Intense CL pervasive										
		Moderate KS pervasive										
		Weak HE patches										
		Moderate PY patches										
		Moderate CV microveins										
		S-2b zone - zone of intense K-spar										
		alteration/silicification that has been brecciated										
		with clasts up to 10cm - clasts are highly fractured										
		with intense calcite micro veinlets along fractures -										
		fragments contain minor hematite - coarse patches fo										
		pyrite generally in the black chlorite between the										
		clasts.										
		Additional texture is fragmental.										
7.23	68.50	Hornblende Feldspar xtalline	12250	7.23-9.00	1.77	0.260		14.0	37.0		45.0	6.0
		Fine grained, grayish-gray, mottled, crystalline	12251	9.00-10.00	1.00	0.005		13.0	4.0		45.0	6.0
		cleavage, foliation 50°	12252	10.00-11.00	1.00	0.010		14.0	2.0	5.0	43.0	6.0
		Frs=5/m	12253	11.00-12.00	1.00	0.120		14.0	4.0		38.0	6.0
		Moderate SI patches	12254	12.00-13.00	1.00	0.010		13.0	4.0		34.0	4.0
		Weak CL pervasive	12255	13.00-14.00	1.00			13.0	17.0	10.0	40.0	6.0
		Strong KS pervasive	12256	14.00-15.00	1.00	0.855		16.0	37.0	15.0	71.0	8.0
		Weak PY disseminated	12257	15.00-16.00	1.00	0.335		15.0	20.0	10.0	56.0	8.0
		Strong QC microveins	12258	16.00-17.00	1.00	0.430		13.0	36.0	15.0	56.0	12.0
		rock varies from a fine grained dense unit to a med	12259	17.00-18.00	1.00	0.060		14.0	41.0	5.0	55.0	16.0
		grained porphyritic one - local very strong qtz -	12260	18.00-19.00	1.00		0.80	18.0	61.0	20.0	44.0	8.0
clcite stkwk - local intense K-spar	12261	19.00-20.00	1.00		4.20	25.0	132.0	35.0	42.0	8.0		
alteration/silicification.	12262	20.00-21.00	1.00	0.235		26.0	67.0	45.0	78.0	10.0		

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<12.50-16.60>		Chlorite Streaming Blackish-green, Brecciated, mottled Local brecciated appearance with clasts of intensely K-spar altered/silicified rock in matrix of black chlorite - minor patches of coarse pyrite. Addition texture is fragmented.										
<24.50-27.50>		Blackish-green, Brecciated, fragmental	12263	21.00-22.00	1.00	0.300		41.0	276.0	150.0	86.0	20.0
		Strong SI patches	12264	22.00-23.00	1.00	0.035		29.0	63.0	65.0	67.0	12.0
		Intense CL pervasive	12265	23.00-24.00	1.00	0.305		27.0	88.0	135.0	60.0	12.0
		Strong KS pervasive	12266	24.00-25.00	1.00	0.435		101.0	19.0	2820.0	60.0	30.0
		Weak HE patches	12267	25.00-25.90	0.90	0.215		13.0	17.0	115.0	60.0	26.0
		Moderate PY patches	12268	25.90-27.00	1.10		2.80	43.0	223.0	520.0	124.0	44.0
		Moderate QC microveins Local 0.3 - 0.5m sections of brecciation in intensely K-spar altered rock. Clasts up to 10cm in matrix of black chlorite. Coars patches of pyrite in chlorite - minor hematite in clasts. Min py ~4%										
<25.90-26.00>		PYRITE VEIN vein 45°										
<28.70-29.20>		Broken Core	12269	27.00-28.00	1.00		0.60	61.0	62.0	300.0	77.0	48.0
		Limonitic on fractures.	12270	28.00-29.00	1.00	0.165		29.0	82.0	30.0	53.0	10.0
<30.35-34.80>		Limonitic on fractures - poor recovery.										
<43.20-43.24>		calcite vein										
<45.20-45.35>		Approx. 3% calcite.										
<46.50-46.54>		grey, coarsely x/line.										
<63.70-66.50>		Hornblende Feldspar xtalline	12271	63.00-64.00	1.00	0.115		52.0	142.0	65.0	63.0	24.0
		Chloritic with abundant fine grained pyrite.	12272	64.00-65.00	1.00	0.050		48.0	151.0	95.0	69.0	26.0
<67.20-67.30>		Hematite chlorite calcite vein	12273	65.00-66.00	1.00	0.040		57.0	210.0	70.0	67.0	30.0
		Black chloritic stringers with minor pyrite - some hematite.	12274	66.00-67.00	1.00	0.280		56.0	208.0	105.0	58.0	26.0
68.50	77.00	Chlorite Streaming	12275	67.00-68.00	1.00	0.205		49.0	198.0	50.0	66.0	18.0
		Redish-green, foliated, Brecciated	12276	68.00-69.00	1.00	0.020		28.0	137.0	40.0	110.0	20.0
		foliated 15° cleavage, foliation 10°	12277	69.00-70.00	1.00	0.035		37.0	216.0	25.0	169.0	26.0
		Frs=5/m :Vns =15/m	12278	70.00-71.00	1.00	0.130		44.0	198.0	60.0	117.0	28.0
		Moderate SI patches	12279	71.00-72.00	1.00	0.030		32.0	185.0	45.0	112.0	28.0
		Strong CL pervasive	12280	72.00-73.00	1.00	0.015		36.0	401.0	10.0	123.0	26.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate HE stockwork	12281	73.00-74.00	1.00	0.105		74.0	184.0	35.0	114.0	28.0
		Weak PY disseminated	12282	74.00-75.00	1.00		0.80	154.0	543.0	125.0	117.0	20.0
		Moderate QC microveins	12283	75.00-76.00	1.00	0.705	0.40	156.0	576.0	110.0	102.0	16.0
		Zone of hematite - chlorite alteration into a locally hybrid, foliated rock (mylonite). Additional textures are fragmental and stockwork.	12284	76.00-77.00	1.00	0.175		167.0	79.0	95.0	255.0	16.0
77.00	84.40	Hornblende Feldspar xtalline	12285	77.00-78.00	1.00	0.015		41.0	99.0	20.0	154.0	18.0
		Fine grained, blackish-green, wispy, mottled cleavage, foliation 45°:fracturing 45°	12286	78.00-79.00	1.00	0.005		17.0	121.0	10.0	170.0	20.0
			12287	79.00-80.00	1.00	0.005		15.0	53.0		81.0	16.0
		Frs=4/m :Vns =5/m	12288	80.00-81.00	1.00	0.005		18.0	104.0	10.0	70.0	18.0
		Moderate SI patches	12289	81.00-82.00	1.00	0.005		22.0	37.0	5.0	58.0	20.0
		Moderate CL pervasive	12290	82.00-83.00	1.00	0.005		22.0	54.0	5.0	47.0	18.0
		Strong KS pervasive	12291	83.00-84.00	1.00	0.090		44.0	77.0	30.0	35.0	20.0
		Moderate HE wispy	12292	84.00-85.00	1.00	0.055		52.0	46.0	60.0	35.0	18.0
		Weak PY disseminated	12293	85.00-86.00	1.00	0.005		26.0	29.0	25.0	42.0	20.0
		Weak QC microveins	12294	86.00-87.00	1.00	0.005		23.0	52.0	145.0	41.0	16.0
		Rock is a very dense ?umfern? green color with wisps of black chlorite and hematite locally intense K-spar alteration. Some with hematite selveges - locally breccia appearance.	12295	87.00-88.00	1.00	0.010		24.0	43.0	395.0	42.0	22.0
		<81.50-82.70> Fragmental										
		Strong breccia appearance with clasts of K-spar altered rock up to 3-4 cm in matrix of black chlorite and hematite.										
		<83.50-84.40>Narrow veins of intense K-spar alteration. Altered rock is intensely fractured with micro veinlet stkwk of calcite.										
88.40	91.20	Chlorite Streaming	12296	88.00-89.00	1.00	0.055		36.0	100.0	265.0	95.0	38.0
		Foliated	12297	89.00-90.00	1.00	0.015		40.0	149.0	85.0	106.0	44.0
		foliated 20°	12298	90.00-91.00	1.00	0.035		42.0	92.0	55.0	138.0	42.0
		Moderate SI patches										
		Intense CL pervasive										
		Moderate KS pervasive										
		Weak PY disseminated										
		Weak QC microveins										
		Strong black chlorite as filling between fragments or clasts.										
91.20	109.50	Hornblende Feldspar xtalline	12299	91.00-92.00	1.00	0.050		27.0	46.0	60.0	80.0	22.0
		Fine grained, greenish-black, foliated, foliated	12300	92.00-93.00	1.00	0.020		27.0	55.0	70.0	89.0	20.0
		foliated 20°:cleavage, foliation 45°	12301	93.00-94.00	1.00	0.355	0.40	39.0	184.0	50.0	137.0	24.0
		Frs=3/m	12302	94.00-95.00	1.00	0.040	0.20	35.0	161.0	40.0	102.0	32.0
		Moderate SI patches	12303	95.00-96.00	1.00	0.010		22.0	77.0	25.0	61.0	28.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate CL pervasive	12304	96.00-97.00	1.00	0.005		23.0	62.0	40.0	52.0	24.0
		Moderate KS pervasive	12305	97.00-98.00	1.00	0.010		15.0	47.0	20.0	60.0	20.0
		Weak HE patches	12306	98.00-99.00	1.00	0.005		14.0	55.0	25.0	49.0	18.0
		Weak PY disseminated	12307	99.00-100.00	1.00	0.010		15.0	41.0	30.0	48.0	24.0
		Weak QC microveins	12308	100.00-101.00	1.00	0.305		21.0	90.0	50.0	53.0	20.0
		Generally uniform dense rock with minor calcite	12309	101.00-102.00	1.00	0.005		17.0	86.0	30.0	49.0	22.0
		stockwork - local intense chlorite and wisps or	12310	102.00-103.00	1.00	0.035		27.0	66.0	50.0	43.0	20.0
		stringers. Additional texture is wispy.	12311	103.00-104.00	1.00	0.005		27.0	68.0	45.0	34.0	18.0
109.50	111.20	Chlorite Streaming	12312	104.00-105.00	1.00	0.840		19.0	90.0	25.0	52.0	20.0
		Fine grained, redish-green, mottled, foliated	12313	105.00-106.00	1.00	0.495		28.0	96.0	55.0	56.0	24.0
		foliated 15°:fracturing 25°	12314	106.00-107.00	1.00	0.010		16.0	63.0	25.0	44.0	26.0
		Moderate SI patches	12315	107.00-108.00	1.00	0.095		84.0	76.0	65.0	64.0	18.0
		Intense CL pervasive	12316	108.00-109.50	1.50	0.005		27.0	128.0	10.0	46.0	18.0
		Strong KS pervasive	12317	109.50-110.00	0.50	0.060		22.0	81.0	40.0	40.0	12.0
		Strong HE stockwork	12318	110.00-111.20	1.20	0.050		31.0	116.0	20.0	40.0	14.0
		Moderate QC microveins										
		H-zone - weak zone of K-spar alteration, hematite -										
		chlorite alteration - minor narrow massive hematite										
		veinlets <5mm or cm???? at upper contact - lower										
		contact appears to be rusty shear zone.										
111.20	128.90	Hornblende Feldspar xtalline	12319	111.20-112.00	0.80	0.210		57.0	76.0	35.0	56.0	16.0
		Fine grained, greenish-green, mottled, crystalline	12320	112.00-113.00	1.00	0.230	1.20	147.0	277.0	240.0	103.0	30.0
		cleavage, foliation 90°:fracturing 45°	12321	113.00-114.00	1.00	0.025	2.00	56.0	866.0	85.0	123.0	38.0
		Frs=4/m	12322	114.00-115.00	1.00	0.005	0.40	72.0	265.0	90.0	160.0	42.0
		Moderate SI patches	12323	115.00-116.00	1.00	0.015	0.60	56.0	296.0	95.0	145.0	46.0
		Moderate CL pervasive	12324	116.00-117.50	1.50	0.015		28.0	118.0	30.0	82.0	34.0
		Moderate KS pervasive	12325	117.50-119.00	1.50		0.40	85.0	234.0	80.0	117.0	40.0
		Moderate PY patches	12326	123.00-124.00	1.00	0.020		26.0	94.0	25.0	67.0	42.0
		Moderate QC microveins	12327	124.00-125.00	1.00	0.050	0.20	50.0	103.0	55.0	88.0	46.0
		Weak foliation, wispy black chlorite micro veinlets	12328	125.00-126.00	1.00	0.005		14.0	68.0	10.0	94.0	38.0
		~5% - pyrite occurs as minor patches min py~3% - minor										
		calcite - chlorite veinlets usually <5mm minor cp at										
		127.8m.										
		<120.02-120.09> calcite vein										
		<124.50-124.80> Chlorite Streaming										
		Black chlorite with hematite contact ~15 degrees - 2cm										
		calcite vein along interval.										
128.90	140.50	Hornblende Feldspar xtalline	12329	134.00-135.00	1.00	0.060		39.0	76.0	20.0	98.0	24.0
		Fine grained, greenish-green, stockwork, crystalline	12330	135.00-136.00	1.00	0.165		17.0	34.0	10.0	86.0	18.0
		cleavage, foliation 45°:fracturing 45°	12331	136.00-137.00	1.00	0.005		12.0	23.0	10.0	78.0	16.0
		Frs=4/m	12332	137.00-138.00	1.00	0.010		9.0	8.0		88.0	18.0
		Moderate SI patches	12333	138.00-139.00	1.00	0.005		12.0	76.0		105.0	70.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate CL pervasive Moderate KS pervasive Moderate HE stockwork Moderate PY patches Moderate QC microveins Variably hematite-chlorite altered wih local K-spar alteraton - local intense calcite micro-veinlet stockwork - some veinlets up to 5mm. Additional texture is brecciated.										
	<134.90-135.15>	Semi-massive hematite Intense K-spar alteration hematite veinlets up to 5mm - k-spar rock is intensely fractured.										
140.50	159.71	Hornblende Feldspar xtalline	12334	151.00-152.00	1.00	0.010		12.0	41.0		36.0	6.0
		Fine grained, greenish-green, mottled, stockwork cleavage, foliation 45°:fracturing 45°	12335	152.00-153.00	1.00	0.220	1.00	35.0	61.0	25.0	61.0	14.0
		Fr=5/m	12336	153.00-154.00	1.00	0.010		8.0	30.0		59.0	6.0
		Moderate SI patches Moderate CL pervasive Moderate KS pervasive Weak HE stockwork Moderate PY disseminated Moderate QC microveins Locally intensely fractured with calcite ????? - veinlet stockwork local weak hematite alteration. min py ~ 2%. Additional texture is brecciated.										
		(eoh)										

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL96-126

PROJECT: Clone	Date Commenced:	Contractor:	Logged by:
DRILL HOLE: CL96-126	Date Completed:		Geotech by:
LENGTH: 175.56	Core Diam: NQII		

Collar Location	
Latitude: 2084.00	
Departure: 1960.00	
Elevation: 0.00	

S U M M A R Y

		DOWN HOLE SURVEYS			
		Depth	Azim	Inclin	Method
0.00-3.41	Hornblende Feldspar xtalline	0.00	45.00	-80.00	
3.41-11.93	Chlorite Streaming				
11.93-18.70	Hornblende Feldspar xtalline				
18.70-30.10	volcaniclastics				
30.10-54.38	Hornblende Feldspar xtalline				
54.38-57.20	Chlorite Streaming				
57.20-79.00	volcaniclastics				
79.00-92.10	Hornblende Feldspar xtalline				
92.10-96.30	Chlorite Streaming				
96.30-101.50	Hornblende Feldspar xtalline				
101.50-102.56	Chlorite Streaming				
102.56-118.50	Hornblende Feldspar xtalline				
118.50-119.00	shear zone				
119.00-123.05	Chlorite Streaming				
123.05-145.90	Hornblende Feldspar xtalline				
145.90-146.90	Chlorite Streaming				
146.90-163.57	Hornblende Feldspar xtalline				
163.57-175.56	volcaniclastics				

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	3.41	Hornblende Feldspar xtalline	12337	1.00-2.00	1.00	0.005		7.0	5.0		44.0	8.0
		Fine grained, greenish-green, mottled, crystalline	12338	2.00-3.41	1.41	0.065		7.0	10.0		43.0	8.0
		cleavage, foliation 45°:fracturing 45°										
		Frs=3/m										
		Moderate SI patches										
		Moderate CL pervasive										
		Moderate KS pervasive										
		Weak PY disseminated										
		Moderate QC microveins										
		Regularly spaced 1 cm calcite veinlet a g. intrusive.										
		Minor med grained feld x/s - minor limonite feature.										
3.41	11.93	Chlorite Streaming	12339	3.41-4.39	0.98	38.880	9.20	37.0	400.0	40.0	79.0	374.0
		Blackish-green, foliated, Brecciated	12340	4.39-5.50	1.11	0.055		6.0	32.0	10.0	39.0	28.0
		cleavage, foliation 45°:foliated 10°	12341	5.50-6.00	0.50	0.670	0.40	8.0	75.0	10.0	49.0	70.0
		Frs=3/m	12342	6.00-7.00	1.00	0.175	0.20	5.0	32.0	10.0	22.0	34.0
		Strong SI patches	12343	7.00-7.90	0.90	0.805	0.20	10.0	65.0		66.0	14.0
		Intense CL pervasive	12344	7.90-9.00	1.10	2.500	0.20	11.0	65.0		61.0	4.0
		Strong KS pervasive	12345	9.00-10.00	1.00	7.460	0.80	34.0	103.0	20.0	127.0	6.0
		Strong HE stockwork	12346	10.00-11.00	1.00	6.100	1.40	113.0	304.0	115.0	145.0	8.0
		Strong PY vein										
		Moderate QC microveins										
		S-2B zone - zone consists of intensely K-spar altered										
		clasts in black chlorite matrix (mylonite appearance).										
		Some of the fragments have elongated habit - clasts										
		form from 40-80%. Zone - pyrite occurs as										
		discontinuous stringers and as patches. min py ~6%										
		overall.										
	<4.29-4.39>	semi-massive sulphides										
	<4.39-7.10>	Hornblende Feldspar xtalline										
		Minor chlorite streaming.										
	<5.80-5.90>	Chlorite Streaming										
		Coarse casts in black chlorite . min py ~5%										
	<8.70-11.93>	Semi-massive hematite										
		Minor pyrite as discontinous veinlets locally very										
		mylonitic - intensely altered K-spar clasts are very										
		intensely fractured with calcite micro-veinlet										
		stockwork.										
11.93	18.70	Hornblende Feldspar xtalline	12347	11.00-12.00	1.00	3.480	0.40	33.0	134.0	30.0	146.0	8.0
		Fine grained, grayish-gray, mottled, crystalline	12348	12.00-13.00	1.00	0.250		14.0	12.0		57.0	6.0
		cleavage, foliation 45°:foliated 10°	12349	13.00-14.00	1.00	0.040		14.0	4.0		39.0	2.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Frs=6/m	12350	14.00-15.00	1.00	0.010		11.0	2.0	10.0	29.0	2.0
		Moderate SI patches	12351	15.00-16.00	1.00	0.005		14.0	3.0		30.0	2.0
		Moderate CL pervasive	12352	16.00-17.00	1.00	0.020		11.0	22.0		32.0	2.0
		Moderate KS pervasive	12353	17.00-18.00	1.00	0.270		13.0	18.0	10.0	33.0	4.0
		Weak PY disseminated										
		Moderate QC microveins										
		Locally K-spar altered - some local narrow sections with K-spar altered calsts in black chlorited - locally limonitic on fractures. Additional texture is foliated										
18.70	30.10	volcaniclastics	12354	18.00-19.00	1.00	4.340	0.60	30.0	99.0	225.0	70.0	16.0
		Fine grained, grayish-gray, fragmental, foliated	12355	19.00-20.00	1.00	0.150		31.0	105.0	120.0	105.0	10.0
		foliated 20°:fracturing 45°	12356	20.00-21.00	1.00	0.005		29.0	126.0	45.0	103.0	6.0
		Frs=4/m	12357	21.00-22.00	1.00	0.015		33.0	117.0	75.0	123.0	6.0
		Moderate SI patches	12358	22.00-23.00	1.00	0.150		31.0	86.0	95.0	103.0	10.0
		Moderate CL pervasive	12359	23.00-24.00	1.00	0.710	1.00	39.0	109.0	235.0	102.0	12.0
		Moderate KS pervasive	12360	24.00-25.00	1.00	0.010		29.0	84.0	255.0	91.0	6.0
		Weak PY disseminated	12361	25.00-26.00	1.00	0.405		39.0	117.0	155.0	80.0	12.0
		Weak PR microveins	12362	26.00-27.00	1.00	0.720	0.40	101.0	177.0	1125.0	55.0	18.0
		2 % pyrrhotite - microveins	12363	27.00-28.00	1.00	0.745	0.60	33.0	117.0	370.0	72.0	52.0
		Well preserved clasts in fine ground matrix - generally weak calcite stockwork limonitic along fractures.	12364	28.00-29.00	1.00	0.375		30.0	98.0	280.0	67.0	100.0
			12365	29.00-30.00	1.00	0.050		27.0	121.0	110.0	59.0	92.0
<18.70-18.70>		Chlorite Streaming Clasts up to 3cm in black chloritic matrix.										
<25.90-26.21>		Broken Core Limonite on fractures										
<27.10-27.15>		semi-massive sulphides Heavy black chlorite with coarse pyrite patches up to 4cm.										
<28.10-29.13>		Broken Core Limonite on fractures.										
30.10	54.38	Hornblende Feldspar xtalline	12366	30.00-31.00	1.00	0.100		90.0	94.0	85.0	41.0	22.0
		Fine grained, grayish-gray, mottled, crystalline cleavage, foliation 45°:fracturing 45°	12367	31.00-32.00	1.00	0.530		450.0	28.0	180.0	48.0	8.0
			12368	32.00-33.00	1.00	0.045		25.0	95.0	35.0	41.0	2.0
		Frs=4/m	12369	33.00-34.00	1.00	1.750		39.0	147.0	215.0	60.0	6.0
		Moderate SI patches	12370	34.00-35.00	1.00	7.230	0.40	57.0	168.0	230.0	65.0	6.0
		Moderate CL pervasive	12371	52.00-53.00	1.00	0.315	0.40	60.0	36.0	370.0	56.0	4.0
		Moderate KS pervasive	12372	53.00-54.38	1.38	0.365		43.0	46.0	320.0	63.0	4.0
		Weak PY disseminated										
		Moderate QC microveins										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Generally strong calcite stockwork, medium grained feldspar x/s in fine grained groundmass. Local intense K-spar alteration.										
		<33.95-34.15> Chlorite Streaming										
		<52.95-52.96> semi-massive sulphides K-spar alteration veinlet with ap+cp as well as black chlorite.										
54.38	57.20	Chlorite Streaming	12373	54.38-55.57	1.19	12.530	1.60	437.0	800.0	3985.0	109.0	18.0
		Blackish-gray vein 45°:cleavage, foliation 41° Frs=4/m Intense SI patches Intense CL pervasive Intense KS pervasive Intense PY vein Moderate QC microveins Intense K-spar alteration with stringers of black chlorite. Min py, ap, cp with black chlorite.	12374	55.57-56.57	1.00	2.660	0.80	40.0	507.0	210.0	80.0	16.0
		<54.38-54.78> semi-massive sulphides Intense black chlorite with veinlets of py, minor ap, cp as well as traces malachite. Min py ~15%, ap ~3%, cp ~1%.										
		<56.37-56.38> PYRITE VEIN 1cm wide zone with wisps of cp.										
57.20	79.00	volcaniclastics	12375	56.57-58.00	1.43	0.405		25.0	22.0	160.0	55.0	16.0
		Grayish-gray, fragmental, mottled cleavage, foliation 45°:fracturing 25° Frs=5/m Strong SI patches Moderate CL pervasive Strong KS pervasive Weak PY disseminated Moderate QC microveins Generally fragmental in appearance - local intense K-spar alteration locally limonitic on fractures.	12376	58.00-59.00	1.00	0.015		9.0	18.0	15.0	65.0	22.0
		<76.70-76.80> shear zone Pyrite is smeared along slickenslides, minor limonitic gouge.										
79.00	92.10	Hornblende Feldspar xtalline	12377	91.00-92.00	1.00	0.045		14.0	42.0	10.0	51.0	6.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Fine grained, grayish-gray, crystalline cleavage, foliation 45°:fracturing 45° Frs=3/m Moderate SI patches Weak CL pervasive Moderate KS patches Weak PY disseminated Moderate QC microveins Dense uniform rock with strong calcite stockwork.										
92.10	96.30	Chlorite Streaming	12378	92.00-93.00	1.00	0.050		42.0	332.0	55.0	64.0	20.0
		Fine grained, greenish-green, foliated	12379	93.00-94.00	1.00	0.090	0.60	42.0	252.0	70.0	96.0	18.0
		foliated 10°:fracturing 15°	12380	94.00-95.00	1.00	0.010		40.0	151.0	65.0	140.0	10.0
		Frs=8/m	12381	95.00-96.00	1.00	0.005		25.0	215.0	40.0	62.0	6.0
		Moderate SI patches Intense CL pervasive Moderate KS pervasive Weak HE patches Strong PY disseminated Weak QC microveins Locally abundant fine grained pyrite associated with strong chlorite alteration. Rusty along fractures. - local intense K-spar alteration, minor hematite. Min py ~7%.										
		<92.10-92.30> semi-massive sulphides										
		<93.60-93.70>										
		<95.70-95.80> calcite vein Bedded bedding 45° Red hematite rich bands.										
		<96.10-96.30> shear zone Abundant gouge - crushed py in clay.										
96.30	101.50	Hornblende Feldspar xtalline	12382	96.00-97.00	1.00	0.440		53.0	187.0	640.0	93.0	14.0
		Fine grained, grayish-gray, mottled, crystalline cleavage, foliation 45°:fracturing 45°	12383	97.00-98.00	1.00	1.020		23.0	118.0	135.0	91.0	12.0
			12384	98.00-99.00	1.00	0.205		43.0	129.0	210.0	72.0	8.0
		Frs=4/m	12385	99.00-100.00	1.00	14.610	2.40	134.0	697.0	465.0	77.0	10.0
		Moderate SI patches Moderate CL pervasive Strong KS pervasive Strong PY vein Moderate QC microveins Highly broken with strong calcite stockwork along	12386	100.00-101.00	1.00	2.700	0.40	45.0	252.0	200.0	168.0	10.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		fractures.										
	<99.20-99.25>	PYRITE VEIN										
	<99.80-99.86>											
	<101.20-101.24>											
101.50	102.56	Chlorite Streaming	12387	101.00-102.00	1.00	1.470		57.0	427.0	325.0	127.0	8.0
		Fine grained, grayish-red, foliated	12388	102.00-102.56	0.56	4.450	1.20	295.0	808.0	4145.0	104.0	12.0
		foliated 15°:vein 15°										
		Frs=3/m										
		Moderate SI patches										
		Intense CL pervasive										
		Moderate KS pervasive										
		Moderate HE patches										
		Intense PY vein										
		Weak QC microveins										
		Highly foliated with black chlorite stringers banded with pyrite and hematite rich calcite. Min py ~20%										
102.56	118.50	Hornblende Feldspar xtalline	12389	102.56-104.00	1.44	0.030		17.0	55.0	90.0	86.0	10.0
		Fine grained, grayish-gray, crystalline	12390	104.00-105.00	1.00	0.040		15.0	70.0	50.0	67.0	16.0
		cleavage, foliation 45°:fracturing 45°	12391	105.00-106.00	1.00	0.025	0.40	13.0	66.0	50.0	83.0	10.0
		Frs=6/m	12392	106.00-107.00	1.00	0.450	0.20	195.0	88.0	940.0	62.0	12.0
		Moderate SI patches	12393	107.00-108.00	1.00	0.620		95.0	107.0	820.0	72.0	14.0
		Moderate CL pervasive	12394	108.00-109.00	1.00	0.025		96.0	48.0	1025.0	54.0	14.0
		Moderate KS pervasive	12395	113.00-114.00	1.00	0.035		32.0	136.0	60.0	136.0	20.0
		Weak HE patches	12396	114.00-115.00	1.00	0.030		35.0	116.0	55.0	123.0	24.0
		Weak PY disseminated	12397	115.00-116.00	1.00	0.015		34.0	139.0	40.0	125.0	20.0
		Moderate QC microveins	12398	116.00-117.00	1.00	0.020		36.0	179.0	50.0	78.0	26.0
		Minor black chlorite stringers with pyrite blobs at 106.5 - 107.8 - local intense K-spar alteration.	12399	117.00-118.00	1.00	0.020		27.0	146.0	50.0	62.0	14.0
	<115.80-115.90>	gouge										
		Gouge										
		Gouge.										
118.50	119.00	shear zone	12400	118.00-119.00	1.00	0.170		52.0	210.0	90.0	115.0	42.0
		Highly broken with gouge, minor limonite.										
119.00	123.05	Chlorite Streaming	12401	119.00-120.00	1.00	0.325	0.60	81.0	233.0	110.0	135.0	46.0
		Blackish-gray, gouge, foliated	12402	120.00-121.00	1.00	0.340		94.0	131.0	125.0	106.0	16.0
		cleavage, foliation 45°:fracturing 45°	12403	121.00-122.00	1.00	0.025		58.0	206.0	70.0	94.0	14.0
		Frs=4/m	12404	122.00-123.00	1.00	1.650	0.40	92.0	226.0	130.0	98.0	16.0
		Moderate SI patches										
		Intense CL pervasive										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate KS pervasive Moderate PY disseminated Moderate QC microveins Locally strongly K-spar altered, abundant black chlorite stringers, local breccia texture. py occurs as fine patches.										
		<119.15-119.80> shear zone Highly broken, some gouge.										
123.05	145.90	Hornblende Feldspar xtalline	12405	123.00-124.00	1.00	0.005		21.0	110.0	25.0	64.0	22.0
		Fine grained, grayish-gray, crystalline cleavage, foliation 45°:fracturing 45° Frs=3/m Moderate SI patches Weak CL pervasive Moderate KS pervasive Weak PY disseminated Moderate QC microveins Dense uniform with weakening calcite stockwork - minor black wispy chlorite stringers.	12406	144.00-145.00	1.00	0.010		24.0	61.0	20.0	116.0	108.0
		<123.80-123.90> calcite vein ~50% calcite.										
		<134.95-135.40> shear zone Abundant clay + gouge.										
		<138.60-138.95> Broken Core										
145.90	146.90	Chlorite Streaming Fine grained, greenish-green, foliated foliated 45°:fracturing 45° Frs=3/m Moderate SI patches Intense CL pervasive Strong KS pervasive Moderate HE vein Strong PY vein Moderate QC microveins Local intense K-spar alteration - stringers + veins with pyrite and minor cp. Min py ~10%.	12407	145.00-146.00	1.00	0.040	1.20	53.0	363.0	65.0	270.0	544.0
		<146.10-146.30> SULPHIDE VEIN About 50% pyrite, strong hematite + chlorite, ~2%.										
146.90	163.57	Hornblende Feldspar xtalline	12408	146.00-147.00	1.00	6.850	9.20	352.0	1967.0	455.0	635.0	292.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Fine grained, greenish-green, crystalline, mottled cleavage, foliation 45°:fracturing 45°	12409	147.00-148.00	1.00	0.110	0.80	56.0	314.0	60.0	129.0	88.0
		Frs=4/m	12410	148.00-149.00	1.00	0.040	0.60	27.0	325.0	25.0	135.0	102.0
		Moderate SI patches	12411	149.00-150.00	1.00	0.030	0.60	51.0	374.0	50.0	187.0	144.0
		Moderate CL pervasive	12412	150.00-151.00	1.00	0.005	0.80	64.0	383.0	60.0	335.0	240.0
		Weak HE patches	12413	151.00-152.00	1.00	0.030	1.20	82.0	543.0	85.0	735.0	714.0
		Moderate PY vein	12414	152.00-153.00	1.00	0.015	1.60	38.0	308.0	30.0	367.0	400.0
		Moderate QC microveins	12415	153.00-154.00	1.00	0.060	0.80	19.0	284.0	20.0	230.0	164.0
		Narrow chlorite rich section local intense K-spar alt/silicification. Pyrite as patches and veinlets.	12416	154.00-155.00	1.00	0.010	0.60	14.0	193.0		114.0	92.0
		Min py ~4%	12417	155.00-156.00	1.00	0.030	0.40	17.0	165.0	5.0	97.0	40.0
			12418	156.00-157.00	1.00	0.015	0.20	25.0	152.0	20.0	172.0	48.0
			12419	157.00-158.00	1.00	0.005		15.0	49.0		167.0	22.0
		<149.50-149.80> Chlorite Streaming Minor hematite, pyrite as veinlets.										
		<151.20-152.80> Hornblende Feldspar xtalline Narrow pyrite veinlets parallel to sub-parallel to CA. Min py~5%.										
		<163.37-163.55> calcite vein										
163.57	175.56	volcaniclastics	12420	165.00-166.00	1.00	0.005		23.0	142.0	50.0	51.0	14.0
		Fine grained, grayish-gray, mottled, foliated cleavage, foliation 45°:foliated 45°	12421	166.00-167.00	1.00	0.005		25.0	200.0	60.0	59.0	16.0
		Frs=3/m	12422	167.00-168.00	1.00	0.010		24.0	202.0	30.0	51.0	14.0
		Strong SI patches	12423	168.00-169.00	1.00	0.010		25.0	204.0	45.0	49.0	14.0
		Weak CL pervasive										
		Intense MS pervasive										
		Strong KS pervasive										
		Moderate PY microveins										
		Strong QC microveins										
		Highly sericitic here, local intense K-spar alteration - pyrite as fine veinlets - locally very intense calcite stockwork. Min py ~5%.										
		<170.10-170.12> calcite vein Fine chlorite along veins.										
		(eoh)										