Appendix III

Drill Hole Log

Book 1 of 4

CL95-01 to CL96-29

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL95-01

PROJECT: Clone	Date Commenced:	Contractor: LT THOMAS	Logged by: ERK
DRILL HOLE: CL95-01	Date Completed:		Geotech by: AW
LENGTH: 64.00	Core Diam: BQTK		

Collar Location

Latitude:	2000.00
Departure:	2000.00
Elevation:	1390.56

S U M M A R Y

0.00-1.37	CASING
1.37-21.44	Hornblende Feldspar xtalline *
21.44-28.82	tuff
28.82-33.00	Hematitic Mylonite zone
33.00-64.00	Hornblende Feldspar xtalline

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	315.00	-45.00	BRUNTON
0.00	315.00	-45.00	BRUNTON

HOLE: CL95-01

HOMESTAKE MINING COMPANY - Clone

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	1.37	CASING										
1.37	21.44	Hornblende Feldspar xtalline	46401	1.37-2.25	0.88	0.015	0.10	37.0	90.0	2.5	93.0	8.0
		Fine grained, redish-green, foliated, veined	46402	2.25-3.25	1.00	0.025	0.10	23.0	72.0	2.5	60.0	6.0
		hematite stringers 45°:fracturing 70°	46403	3.25-4.25	1.00	0.050	0.10	26.0	206.0	10.0	78.0	8.0
		Frs=8/m :Vns =23/m	46404	4.25-5.25	1.00	0.170	0.10	38.0	286.0	20.0	89.0	14.0
		Weak CL pervasive	46405	5.25-6.25	1.00		0.10	36.0	113.0	2.5	138.0	8.0
		Weak CB stockwork	46406	6.25-7.25	1.00	0.020	0.10	35.0	112.0	2.5	100.0	4.0
		Moderate MT stockwork	46407	7.25-8.25	1.00	0.775	0.80	39.0	2333.0	2.5	65.0	4.0
		Moderate HE stockwork	46408	8.25-9.25	1.00	0.005	0.10	34.0	717.0	2.5	69.0	2.0
		?? PY blebs	46409	9.25-10.25	1.00	0.040	0.10	29.0	114.0	2.5	59.0	4.0
		Trace QC stockwork	46410	10.25-11.25	1.00	0.005	0.10	30.0	82.0	2.5	64.0	6.0
		Trace QF stockwork	46411	11.25-12.25	1.00	0.010	0.10	24.0	669.0	10.0	53.0	8.0
			46412	12.25-13.25	1.00	11.920	0.60	29.0	61.0	2.5	60.0	4.0
<1.37-21.44>		Mega Breccia [100%]	46413	13.25-14.25	1.00	0.115	0.10	33.0	301.0	2.5	59.0	10.0
		1 % pyrite - present	46414	14.25-15.25	1.00	0.020	0.10	34.0	177.0	5.0	69.0	10.0
		1 % arsenopyrite - interstitial	46415	15.25-15.98	0.73	0.005	0.10	29.0	268.0	15.0	55.0	14.0
		1 % Hematite - coatings	46416	15.98-16.68	0.70	0.020	0.10	32.0	219.0	90.0	57.0	10.0
<15.25-16.68>		tuff										
		Pale green, foliated, veined										
		hematite stringers 30°:fracturing 70°										
		Frs=8/m :Vns =6/m										
		Weak CL interstitial										
		Weak CB stockwork										
		Trace MT microveins										
		Trace PY blebs										
		Weak QV stockwork										
		Trace QC stringer										
<16.68-21.44>		HEMATITE/CHLORITE ZONE	46417	16.68-17.48	0.80	0.005	0.10	36.0	334.0	10.0	72.0	6.0
		Fine grained, redish-green, veined	46418	17.48-18.15	0.67	2.000	0.10	108.0	524.0	65.0	139.0	6.0
		Intense HE vein	46419	18.15-19.15	1.00	0.050	0.10	41.0	168.0	45.0	164.0	12.0
		At 17.48 to 18.15m., semi-massive hematite, minor	46420	19.15-20.15	1.00	0.005	0.10	30.0	77.0	15.0	271.0	6.0
		malachite fractures. Hematite occurs as veins, micro	46421	20.15-21.15	1.00	0.005	0.10	22.0	68.0	15.0	191.0	4.0
		and macroveinlets as well as well as pervasive patches										
		and intersitial grains. Chlorite approximately 8%.										
21.44	28.82	tuff	46422	21.15-22.44	1.29	0.005	0.10	36.0	132.0	45.0	302.0	8.0
		Pale green, foliated, veined	46423	22.44-23.44	1.00	0.010	0.10	35.0	117.0	20.0	290.0	8.0
		hematite stringers 30°:fracturing 70°	46424	23.44-24.44	1.00	0.015	0.10	33.0	108.0	35.0	75.0	6.0
		Frs=6/m :Vns =18/m	46425	24.44-25.44	1.00	0.005	0.10	41.0	158.0	75.0	67.0	6.0
		Trace CL interstitial	464255	25.44-26.44	1.00	0.005	0.10	42.0	154.0	70.0	67.0	6.0
		Moderate CB stockwork	46426	26.44-27.44	1.00	0.010	0.10	40.0	161.0	45.0	86.0	4.0
		Trace MT stringer	46427	27.44-28.20	0.76	0.005	0.10	38.0	121.0	55.0	81.0	4.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		?? PY interstitial										
		Moderate QV -stockwork										
		Trace QC stringer										
28.82	33.00	Hematitic Mylonite zone	46428	28.20-29.00	0.80	0.005	0.10	37.0	125.0	10.0	76.0	4.0
		Redish-green, foliated, veined	46429	29.00-30.00	1.00	0.020	0.10	39.0	233.0	10.0	62.0	2.0
		hematite stringers 30°:fracturing 70°	46430	30.00-31.00	1.00	0.055	0.10	19.0	34.0	2.5	56.0	
		Frs=8/m :Vns =30/m	46431	31.00-32.00	1.00	0.525	0.10	44.0	124.0	2.5	73.0	4.0
		Moderate CL microveins	46432	32.00-33.00	1.00	0.750	0.10	56.0	285.0	10.0	79.0	4.0
		Moderate CB stockwork										
		Moderate MT stockwork										
		?? PY interstitial										
33.00	64.00	Hornblende Feldspar xtalline	46433	33.00-34.00	1.00	0.045	0.10	13.0	84.0	25.0	46.0	4.0
		Fine grained, gray, foliated, porphyritic	46434	34.00-35.00	1.00	0.100	0.10	13.0	132.0	25.0	52.0	6.0
		cleavage, foliation 45°:fracturing	46435	35.00-36.00	1.00	0.015	0.10	14.0	39.0	15.0	47.0	8.0
		Frs=5/m :Vns =35/m	46436	36.00-37.50	1.50	0.020	0.10	19.0	178.0	25.0	59.0	8.0
		Weak SI microveins	46437	37.50-39.00	1.50	0.030	0.10	32.0	80.0	10.0	80.0	6.0
		Trace CL spots	46438	39.00-40.50	1.50	0.035	0.10	35.0	80.0	10.0	81.0	
		Trace CB microveins	46439	40.50-42.00	1.50	0.055	0.10	25.0	71.0	65.0	66.0	10.0
		Trace MT blebs	46440	42.00-43.50	1.50	0.040	0.10	13.0	20.0	40.0	54.0	8.0
		Trace PY blebs	46441	43.50-45.00	1.50	0.025	0.10	10.0	39.0	35.0	54.0	4.0
		Trace QC stockwork	46442	45.00-46.50	1.50	0.045	0.10	9.0	38.0	30.0	46.0	6.0
(coh)			46443	46.50-48.00	1.50	0.040	0.10	7.0	36.0	55.0	48.0	4.0
			46444	48.00-49.50	1.50	0.025	0.10	7.0	73.0	45.0	45.0	4.0
			46445	49.50-51.00	1.50	0.020	0.10	11.0	38.0	100.0	64.0	8.0
			46446	51.00-52.50	1.50	0.030	0.10	10.0	31.0	100.0	60.0	16.0
			46447	52.50-54.00	1.50	0.010	0.10	10.0	47.0	55.0	48.0	8.0
			46448	54.00-55.50	1.50	0.060	0.10	10.0	40.0	55.0	67.0	18.0
			46449	55.50-57.00	1.50	0.360	0.10	23.0	52.0	115.0	53.0	10.0
			46450	57.00-58.00	1.00	0.045	0.10	27.0	32.0	165.0	48.0	12.0
			46451	58.00-60.00	2.00	0.030	0.10	29.0	39.0	260.0	51.0	12.0
			46452	60.00-61.50	1.50	0.020	0.10	11.0	10.0	50.0	48.0	6.0
			46453	61.50-63.00	1.50	0.015	0.10	13.0	15.0	75.0	51.0	14.0

12/03/96

Hole: CL95-01 GEOTECHNICAL DATA. Page: 1

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

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL95-02

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL95-02	Date Completed:		Geotech by: AW
LENGTH: 88.39	Core Diam: BQTK		

Collar Location

Latitude:	2062.30
Departure:	1990.13
Elevation:	1407.31

S U M M A R Y

0.00-1.37	CASING
1.37-16.37	volcaniclastics *
16.37-46.00	Hornblende Feldspar xtalline
46.00-88.39	Hornblende Feldspar xtalline

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	315.00	-55.00	BRUNTON

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	1.37	CASING										
1.37	16.37	volcaniclastics	46456	2.59-3.59	1.00	0.015	0.10	21.0	82.0	5.0	53.0	4.0
		Fine grained, redish-green, foliated, veined	46457	3.59-4.59	1.00	0.080	0.10	32.0	115.0	30.0	56.0	10.0
		cleavage, foliation :fracturing	46458	4.59-5.59	1.00	0.020	0.10	23.0	615.0	2.5	65.0	8.0
		Frs=6/m :Vns =40/m	46459	5.59-6.53	0.94	0.015	0.10	36.0	694.0	5.0	120.0	6.0
		Trace CL microveins	46460	6.53-7.53	1.00	0.003	0.10	34.0	98.0	10.0	114.0	6.0
		Weak CB stockwork	46461	7.53-8.53	1.00	0.010	0.10	33.0	122.0	5.0	96.0	6.0
		Moderate MT stockwork	46462	8.53-9.47	0.94	0.180	0.10	35.0	228.0	10.0	77.0	4.0
		Trace PY macroveins	46463	9.47-10.47	1.00	0.005	0.10	31.0	80.0	2.5	69.0	6.0
		Trace PR patches	46464	10.47-11.47	1.00	0.380	0.10	33.0	276.0	2.5	68.0	4.0
		Weak CV stockwork	46465	11.47-12.74	1.27	0.070	0.10	30.0	1095.0	95.0	58.0	6.0
		Weak QC stockwork	46466	12.74-13.74	1.00	0.010	0.40	31.0	661.0	45.0	68.0	4.0
<1.37-15.74>		Mega Breccia [95%]	46467	13.74-14.74	1.00	0.030	0.10	34.0	180.0	2.5	90.0	4.0
		1 % arsenopyrite - blebs	46468	14.74-15.74	1.00	1.390	0.10	210.0	106.0	285.0	54.0	6.0
		1 % Hematite - blebs										
<11.47-12.19>		tuff										
		Dark green, foliated, veined										
		cleavage, foliation 35°:fracturing 75°										
		Frs=15/m :Vns =6/m										
		Trace CL stringer										
		Weak CB stockwork										
		Trace MT clasts										
		Trace PY patches										
		Trace PR euhedral										
		Weak CV stockwork										
		Trace QC clasts										
16.37	46.00	Hornblende Feldspar xtalline	46469	15.74-16.74	1.00	35.940	2.00	141.0	143.0	435.0	61.0	16.0
		Fine grained, dark green, fractured, veined	46470	16.74-17.74	1.00	0.120	0.10	46.0	288.0	135.0	56.0	18.0
		fracturing 45°	46471	17.74-18.29	0.55	0.140	0.10	32.0	245.0	25.0	62.0	10.0
		Frs=6/m :Vns =10/m										
		Trace CB stockwork										
		Trace MT microveins										
		Trace PY blebs										
		Trace PR vein										
		Trace CV stockwork										
<18.29-46.00>		Dark green, foliated, crackled, crackle brecciated	46472	18.29-19.04	0.75	0.035	0.10	40.0	261.0	2.5	81.0	18.0
		fracturing 75°:cleavage, foliation 35°	46473	19.04-20.46	1.42	0.210	0.10	562.0	361.0	820.0	302.0	12.0
		Frs=6/m :Vns =20/m	46474	20.46-20.76	0.30	0.465	1.40	82.0	327.0	665.0	179.0	84.0
		Trace SI patches	46475	20.76-22.15	1.39	0.310	0.10	41.0	127.0	35.0	216.0	16.0
		Intense CL interstitial	46476	22.15-23.45	1.30	0.010	0.10	32.0	118.0	60.0	182.0	10.0
		Weak CB stockwork	46477	23.45-24.45	1.00	0.010	0.10	35.0	116.0	40.0	280.0	16.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Trace MT patches	46478	24.45-25.45	1.00	0.030	0.10	37.0	114.0	30.0	500.0	18.0
		Trace HE patches	46479	25.45-26.45	1.00	0.015	0.10	34.0	103.0	35.0	453.0	22.0
		Trace PY macroveins	46480	26.45-27.45	1.00	0.015	0.10	39.0	117.0	225.0	102.0	26.0
		Weak QC stockwork	46481	27.45-28.45	1.00	0.005	0.10	37.0	112.0	30.0	79.0	12.0
<20.76-22.15>		HEMATITE/CHLORITE ZONE										
		Dark green, foliated, veined										
		fracturing 75°:cleavage, foliation 35°										
		Frs=6/m :Vns =25/m										
		Trace CL interstitial										
		Trace CB stockwork										
		Trace MT microveins										
		?? PY disseminated										
		Trace CV stockwork										
		Trace QC stockwork										
<44.50-46.00>		Chloritic/Hematitic Mylonite	46482	28.45-30.45	2.00	0.020	0.10	35.0	107.0	40.0	75.0	14.0
		Fine grained, redish-green, foliated, fractured	46483	30.45-32.00	1.55	0.010	0.10	40.0	126.0	15.0	95.0	12.0
		cleavage, foliation :lineations 35°	46484	32.00-33.50	1.50	0.005	0.10	35.0	106.0	25.0	82.0	18.0
		:Vns =6/m	46485	33.50-35.00	1.50	0.003	0.10	22.0	56.0	55.0	62.0	16.0
		Moderate SI patches	46486	35.00-36.50	1.50	0.010	0.10	40.0	134.0	40.0	125.0	18.0
		Trace CL microveins	46487	36.50-38.00	1.50	0.005	0.10	39.0	126.0	30.0	104.0	18.0
		Trace CB vein	46488	38.00-39.50	1.50	0.020	0.10	63.0	178.0	30.0	131.0	18.0
		Weak MT macroveins	46489	39.50-41.00	1.50	0.045	0.10	24.0	141.0	40.0	65.0	16.0
		Trace HE patches	46490	41.00-42.50	1.50	0.020	0.10	42.0	240.0	25.0	110.0	20.0
		Trace PY disseminated	46491	42.50-44.00	1.50	0.015	0.10	26.0	116.0	25.0	65.0	14.0
46.00	88.39	Hornblende Feldspar xtalline	46492	44.00-45.50	1.50	0.005	0.10	41.0	118.0	10.0	67.0	18.0
		Fine grained, gray, fractured, sheared	46493	45.50-47.00	1.50	0.075	0.10	23.0	156.0	55.0	69.0	20.0
		fracturing 75°:sheeting 45°	46494	47.00-48.50	1.50	0.035	0.10	11.0	81.0	10.0	62.0	12.0
		:Vns =30/m	46495	48.50-50.00	1.50	0.015	0.10	14.0	106.0	20.0	57.0	26.0
		Weak SI patches	46496	50.00-51.50	1.50	0.060	0.10	24.0	31.0	5.0	45.0	24.0
		Trace CL interstitial	46497	51.50-53.00	1.50	0.015	0.10	18.0	29.0	5.0	56.0	16.0
		Moderate CB stockwork	46498	53.00-54.50	1.50	0.025	0.10	19.0	66.0	80.0	44.0	18.0
		Weak HE patches	46499	54.50-56.00	1.50	0.070	0.10	17.0	18.0	20.0	45.0	16.0
		Trace PY disseminated	46500	56.00-57.50	1.50	0.015	0.10	19.0	18.0	55.0	65.0	20.0
		Moderate QC stockwork	46501	57.50-59.00	1.50	0.020	0.10	9.0	3.0	30.0	41.0	14.0
(eoh)			46502	59.00-60.50	1.50	0.010	0.10	26.0	3.0	140.0	50.0	16.0
			46503	60.50-62.00	1.50	0.015	0.10	20.0	3.0	70.0	48.0	18.0
			46504	62.00-63.50	1.50	0.010	0.10	8.0	11.0	20.0	47.0	18.0
			46505	63.50-65.00	1.50	0.005	0.10	7.0	6.0	20.0	46.0	16.0
			46506	65.00-66.50	1.50	0.010	0.10	12.0	34.0	40.0	59.0	24.0
			46507	66.50-68.00	1.50	0.005	0.10	13.0	5.0	85.0	57.0	18.0
			46508	68.00-69.50	1.50	0.025	0.10	10.0	5.0	30.0	58.0	24.0
			46509	69.50-71.50	2.00	0.030	0.10	9.0	15.0	25.0	62.0	40.0
			46510	71.50-73.00	1.50	0.005	0.10	11.0	18.0	35.0	79.0	48.0
			46511	73.00-74.50	1.50	0.015	0.10	5.0	6.0	5.0	90.0	32.0

FROM	TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
			46512	74.50-76.00	1.50	0.005	0.10	10.0	14.0	35.0	57.0	36.0
			46513	76.00-77.50	1.50	0.015	0.10	7.0	20.0	25.0	62.0	30.0
			46514	77.50-79.00	1.50	0.005	0.10	8.0	16.0	75.0	58.0	30.0
			46515	79.00-80.50	1.50	0.010	0.10	6.0	7.0	10.0	55.0	16.0
			46516	80.50-82.00	1.50	0.005	0.10	8.0	25.0	15.0	78.0	24.0
			46517	82.00-83.50	1.50	0.005	0.10	10.0	9.0	40.0	73.0	24.0
			46518	83.50-85.00	1.50	0.010	0.10	10.0	5.0	90.0	77.0	26.0
			46519	85.00-86.50	1.50	0.020	0.10	7.0	7.0	25.0	72.0	20.0

12/03/96

Hole: CL95-02 GEOTECHNICAL DATA Page: 1

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

HOMESTAKE MINING COMPANY | DRILL HOLE LOG | CL95-03

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL95-03	Date Completed:		Geotech by: AW
LENGTH: 64.00	Core Diam: BQTK		

Collar Location

Latitude:	2060.63
Departure:	1989.65
Elevation:	1407.58

S U M M A R Y

0.00-1.37	CASING
1.37-11.44	volcaniclastics *
11.44-18.45	volcaniclastics
18.45-64.00	Hornblende Feldspar xtalline

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	252.00	-45.00	BRUNTON

HOLE: CL95-03

HOMESTAKE MINING COMPANY - Clone

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	1.37	CASING										
1.37	11.44	volcaniclastics	46524	4.44-5.44	1.00	0.010	0.10	33.0	9.0	2.5	95.0	20.0
		Fine grained, redish-green, foliated, fractured	46525	5.44-6.44	1.00	0.035	0.10	35.0	98.0	2.5	94.0	20.0
		fracturing 70°:hematite stringers 50°	46526	6.44-7.44	1.00	0.030	1.60	40.0	1012.0	30.0	105.0	18.0
		Frs=8/m :Vns =35/m	46527	7.44-8.44	1.00	0.070	0.10	23.0	83.0	20.0	60.0	18.0
		Trace CL macroveins	46528	8.44-9.44	1.00	1.790	0.10	51.0	221.0	30.0	72.0	20.0
		Trace CB stockwork	46529	9.44-10.44	1.00	0.620	1.80	38.0	2348.0	15.0	86.0	16.0
		Moderate MT macroveins	46530	10.44-11.44	1.00	0.485	0.20	59.0	1316.0	5.0	90.0	20.0
		?? PY interstitial										
		Weak QC stockwork										
<1.37-11.44>		1 % sphalerite - blebs										
		1 % Hematite - coatings										
11.44	18.45	volcaniclastics	46531	11.44-12.44	1.00	0.105	0.10	36.0	433.0	65.0	80.0	24.0
		Fine grained, dark green, veined, fractured	46532	12.44-13.44	1.00	0.015	0.10	26.0	70.0	2.5	58.0	22.0
		fracturing 70°:hematite stringers 45°	46533	13.44-14.44	1.00	0.010	0.10	30.0	32.0	2.5	72.0	22.0
		Frs=4/m :Vns =7/m	46534	14.44-15.44	1.00	0.015	0.10	39.0	123.0	15.0	82.0	22.0
		Trace CL interstitial	46535	15.44-16.44	1.00	0.020	0.10	40.0	143.0	20.0	109.0	26.0
		Trace CB stockwork	46536	16.44-17.44	1.00	0.035	0.10	45.0	173.0	30.0	169.0	24.0
		Trace MT microveins										
		Trace PY blebs										
		Trace QC stockwork										
<17.69-18.45>		Fine grained, redish-green, fractured, veined	46537	17.44-18.44	1.00	0.025	0.10	41.0	175.0	25.0	98.0	22.0
		fracturing 70°:qz-carb veining 65°										
		Frs=4/m :Vns =10/m										
		Weak CL interstitial										
		Trace CB stockwork										
		Moderate MT macroveins										
		?? PY interstitial										
		Trace QC stockwork										
18.45	23.44	Hornblende Feldspar xtalline	46538	18.44-19.44	1.00	0.020	0.10	41.0	131.0	155.0	107.0	24.0
		Fine grained, dark green, foliated, veined	46539	19.44-20.44	1.00	0.025	0.10	44.0	148.0	85.0	93.0	30.0
		fracturing 70°:fault/gouge	46540	20.44-21.44	1.00	0.005	0.10	42.0	142.0	45.0	123.0	46.0
		Frs=70/m :Vns =30/m	46541	21.44-22.44	1.00	0.005	0.10	44.0	152.0	30.0	136.0	38.0
		Weak CL interstitial	46542	22.44-23.44	1.00	0.010	0.10	43.0	219.0	30.0	91.0	24.0
		Trace CB stockwork	46543	23.44-24.44	1.00	0.005	0.10	47.0	167.0	60.0	127.0	38.0
		Trace MT microveins	46544	24.44-25.44	1.00	0.005	0.10	48.0	173.0	40.0	115.0	32.0
		Trace PY vein	46545	25.44-26.44	1.00	0.005	0.10	47.0	188.0	85.0	91.0	32.0
		Trace QC stockwork	46546	26.44-27.44	1.00	0.015	0.10	40.0	186.0	55.0	85.0	38.0
<22.44-23.44>		Fine grained, dark green, fractured, veined										
		cleavage, foliation 50°:sheeting										

12/03/96

FROM	TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak CL interstitial										
		Trace CB stockwork										
		Moderate MT microveins										
		Trace PY disseminated										
		Trace QC stockwork										
(eoh)												

12/03/96

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

HOMESTAKE MINING COMPANY

DRILL HOLE LOG

CL95-04

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL95-04	Date Completed:		Geotech by: AW
LENGTH: 76.20	Core Diam: BQTK		

Collar Location

Latitude:	2060.65
Departure:	1989.76
Elevation:	1407.56

S U M M A R Y

0.00-1.37	CASING
1.37-17.00	HEMATITE/CHLORITE ZONE *
17.00-19.00	tuff
19.00-21.00	HEMATITE/CHLORITE ZONE
21.00-64.88	tuff
64.88-70.10	Hornblende porphyry dyke
70.10-76.20	tuff

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	252.00	-55.00	BRUNTON

HOLE: CL95-04

HOMESTAKE MINING COMPANY - Clone

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	1.37	CASING										
1.37	17.00	HEMATITE/CHLORITE ZONE	46577	2.00-3.00	1.00	0.005	0.10	20.0	47.0	2.5	46.0	10.0
		Fine grained, redish-green, foliated, fractured	46578	3.00-4.00	1.00	0.005	0.10	20.0	88.0	2.5	53.0	8.0
		fracturing 70°:hematite stringers 40°	46579	4.00-5.00	1.00	0.015	0.10	26.0	186.0	5.0	70.0	16.0
		Frs=5/m :Vns =60/m	46580	5.00-6.00	1.00	0.015	0.10	39.0	46.0	10.0	110.0	16.0
		Weak CL vein	46581	6.00-7.00	1.00	0.060	0.10	34.0	61.0	2.5	104.0	16.0
		Weak CB stockwork	46582	7.00-8.00	1.00	0.015	0.10	30.0	117.0	2.5	88.0	16.0
		Moderate MT macroveins	46583	8.00-9.00	1.00	0.080	0.10	36.0	123.0	2.5	96.0	14.0
		Trace PY disseminated	46584	9.00-10.00	1.00	0.080	0.10	16.0	53.0	2.5	45.0	10.0
<1.37-17.00>		Mega Breccia [100%]	46585	10.00-11.00	1.00	0.010	0.10	11.0	80.0	2.5	39.0	6.0
		1 % sphalerite - disseminated	46586	11.00-12.00	1.00	1.040	0.10	53.0	197.0	10.0	70.0	16.0
		1 % pyrite - present	46587	12.00-12.94	0.94	0.515	0.10	37.0	635.0	5.0	95.0	18.0
		1 % Hematite - coatings	46588	12.94-14.04	1.10	50.230	1.40	61.0	165.0	50.0	207.0	12.0
17.00	19.00	tuff	46589	14.04-15.04	1.00	47.030	2.60	43.0	160.0	90.0	258.0	22.0
		Fine-coarse grained, dark green, fractured, veined	46590	15.04-16.04	1.00	2.310	0.60	45.0	952.0	155.0	468.0	12.0
		fracturing 70°:qz-carb veining 45°	46591	16.04-17.00	0.96	0.025	0.10	36.0	352.0	5.0	95.0	22.0
		Frs=5/m :Vns =7/m	46592	17.00-18.00	1.00	0.140	0.10	42.0	132.0	10.0	78.0	20.0
		Trace CL interstitial	46593	18.00-19.00	1.00	0.005	0.10	35.0	156.0	20.0	86.0	16.0
		Trace CB stockwork										
		Trace MT patches										
		Trace PY disseminated										
19.00	21.00	HEMATITE/CHLORITE ZONE	46594	19.00-20.00	1.00	0.005	0.10	36.0	85.0	5.0	102.0	20.0
		Fine grained, redish-green, fractured, foliated	46595	20.00-21.00	1.00	0.005	0.10	38.0	73.0	2.5	107.0	30.0
		fracturing 70°:qz-carb veining 45°										
		Frs=3/m :Vns =10/m										
		Weak CL interstitial										
		Trace CB stockwork										
		Moderate MT macroveins										
21.00	64.88	tuff	46596	21.00-22.00	1.00	0.005	0.10	47.0	121.0	25.0	190.0	18.0
		Fine-coarse grained, dark green, fractured, veined	46597	22.00-23.00	1.00	0.005	0.10	52.0	126.0	5.0	287.0	22.0
		fracturing 70°:qz-carb veining 40°	46598	23.00-24.00	1.00	0.130	0.10	48.0	174.0	10.0	326.0	24.0
		Frs=5/m :Vns =10/m	46599	24.00-25.00	1.00	0.005	0.10	43.0	130.0	15.0	279.0	20.0
		Trace CL interstitial	46600	25.00-26.00	1.00	0.005	0.10	46.0	152.0	35.0	148.0	22.0
		Weak CB stockwork	46601	26.00-27.00	1.00	0.005	0.10	44.0	180.0	65.0	93.0	20.0
		Trace MT microveins	46602	27.00-28.00	1.00	0.015	0.10	45.0	230.0	80.0	82.0	30.0
		Trace PY disseminated	46603	28.00-29.00	1.00	0.005	0.10	59.0	263.0	75.0	86.0	34.0
		Weak QC stockwork	46604	29.00-30.00	1.00	0.005	0.10	41.0	150.0	65.0	90.0	28.0
64.88	70.10	Hornblende porphyry dyke	46605	30.00-31.00	1.00	0.045	0.10	42.0	145.0	50.0	93.0	28.0
		Fine grained, dark green, fractured, veined	46606	31.00-32.00	1.00	0.005	0.10	43.0	225.0	110.0	140.0	42.0
		fracturing 15°:qz-carb veining 15°	46607	32.00-33.00	1.00	0.005	0.10	38.0	145.0	55.0	190.0	58.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Frs=2/m :Vns =3/m	46608	33.00-34.50	1.50	0.005	0.10	22.0	80.0	30.0	54.0	24.0
		Trace CL interstitial	46609	34.50-36.50	2.00	0.005	0.10	13.0	24.0	20.0	44.0	16.0
		Trace CB stockwork	46610	36.50-38.00	1.50	0.005	0.10	12.0	22.0	25.0	48.0	18.0
		Trace PY disseminated	46611	38.00-39.50	1.50	0.005	0.10	12.0	38.0	10.0	38.0	2.0
		Trace QC vein	46612	39.50-41.00	1.50	0.005	0.10	14.0	8.0	10.0	42.0	1.0
70.10	76.20	tuff	46613	41.00-42.50	1.50	0.070	0.10	17.0	19.0	20.0	47.0	2.0
		Fine-coarse grained, dark green, fractured, veined	46614	42.50-44.00	1.50	0.030	0.10	28.0	203.0	75.0	56.0	10.0
		fracturing 70°:qz-carb veining 40°	46615	44.00-45.50	1.50	0.040	1.00	54.0	534.0	95.0	81.0	18.0
		Frs=5/m :Vns =15/m	46616	45.50-47.00	1.50	0.035	0.10	19.0	49.0	40.0	69.0	4.0
		Moderate CL stockwork	46617	47.00-48.50	1.50	0.705	0.40	18.0	98.0	25.0	82.0	8.0
		Trace PY disseminated	46618	48.50-50.00	1.50	1.590	2.20	40.0	83.0	55.0	234.0	10.0
		Moderate QC vein	46619	50.00-51.50	1.50	4.020	1.40	31.0	150.0	50.0	215.0	8.0
(eoh)			46620	51.50-53.00	1.50	0.005	0.10	21.0	88.0	100.0	74.0	6.0
			46621	53.00-54.50	1.50	0.005	0.10	17.0	81.0	20.0	123.0	8.0
			46622	54.50-56.00	1.50	0.005	0.10	21.0	37.0	65.0	89.0	4.0
			46623	56.00-57.50	1.50	0.015	0.10	22.0	52.0	30.0	101.0	1.0
			46624	57.50-59.00	1.50	0.010	0.10	24.0	74.0	55.0	98.0	2.0
			46625	59.00-60.50	1.50	0.010	6.60	52.0	239.0	1940.0	99.0	38.0
			46626	60.50-62.00	1.50	0.005	7.80	41.0	135.0	735.0	958.0	422.0
			46627	62.00-63.50	1.50	0.165	2.80	26.0	134.0	1840.0	121.0	48.0
			46628	63.50-65.00	1.50	0.035	0.20	16.0	116.0	105.0	69.0	10.0
			46629	65.00-66.50	1.50	0.005	0.10	27.0	22.0	5.0	111.0	16.0
			46630	66.50-68.00	1.50	0.005	0.10	22.0	22.0	2.5	109.0	16.0
			46631	68.00-70.00	2.00	0.005	0.10	25.0	21.0	2.5	113.0	18.0
			46632	70.00-71.50	1.50	0.010	0.10	29.0	153.0	140.0	201.0	44.0
			46633	71.50-73.00	1.50	0.005	0.20	33.0	148.0	440.0	106.0	28.0
			46634	73.00-74.50	1.50	0.005	0.40	25.0	123.0	55.0	71.0	10.0

Hole: CL95-04 GEOTECHNICAL DATA

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

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL95-05

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL95-05	Date Completed:		Geotech by: AW
LENGTH: 91.44	Core Diam: BQTK		

Collar Location

Latitude:	2060.79
Departure:	1990.08
Elevation:	1407.58

S U M M A R Y

0.00-0.70	CASING *
0.70-41.50	HEMATITE/CHLORITE ZONE
41.50-91.48	tuff

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	252.00	-65.00	BRUNTON

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	0.70	CASING										
	<0.00-0.00>											
0.70	41.50	HEMATITE/CHLORITE ZONE	46641	2.00-3.00	1.00	0.010	1.00	16.0	70.0	2.5	46.0	4.0
		Fine grained, redish-green, foliated, fractured	46642	3.00-4.00	1.00	0.030	1.00	26.0	64.0	2.5	50.0	4.0
		fracturing 70°:hematite stringers 45°	46643	4.00-5.00	1.00	0.005	1.00	30.0	27.0	2.5	52.0	4.0
		Frs=5/m :Vns =60/m	46644	5.00-6.00	1.00	0.005	1.00	20.0	38.0	2.5	40.0	6.0
		Weak CL vein	46645	6.00-7.00	1.00	0.010	1.00	21.0	73.0	2.5	37.0	6.0
		Weak CB stockwork	46646	7.00-8.00	1.00	0.015	1.00	29.0	78.0	2.5	47.0	4.0
		Moderate MT macroveins	46647	8.00-9.00	1.00	0.005	1.00	28.0	131.0	2.5	51.0	6.0
		Trace PY disseminated	46648	9.00-10.00	1.00	0.015	1.00	23.0	70.0	2.5	46.0	4.0
		Weak QC stockwork	46649	10.00-11.00	1.00	0.225	1.00	35.0	90.0	2.5	86.0	8.0
	<14.00-15.00>	massive hematite	46650	11.00-12.00	1.00	0.075	1.00	25.0	90.0	2.5	63.0	1.0
		Fine grained, dark blue, semi-massive	46651	12.00-13.00	1.00	0.180	1.00	36.0	1083.0	2.5	56.0	4.0
		hematite stringers 45°	46652	13.00-14.00	1.00	0.650	1.00	49.0	609.0	5.0	113.0	4.0
		Frs=40/m	46653	14.00-15.00	1.00	1.640	1.00	250.0	230.0	135.0	364.0	2.0
		Weak QC stockwork										
	<23.00-27.00>	Fine grained, dark red, semi-massive	46654	15.00-16.00	1.00	0.190	1.00	50.0	258.0	20.0	111.0	2.0
		hematite stringers 45°	46655	16.00-17.00	1.00	0.015	1.00	37.0	208.0	10.0	56.0	6.0
		Frs=40/m	46656	17.00-18.00	1.00	0.010	1.00	30.0	286.0	2.5	48.0	6.0
		Intense MT massive	46657	18.00-19.00	1.00	0.060	1.00	21.0	90.0	2.5	39.0	4.0
		Moderate QC stockwork	46658	19.00-20.00	1.00	0.010	1.00	32.0	277.0	2.5	65.0	14.0
	<31.00-33.00>	Massive hematite fault zone	46659	20.00-21.00	1.00	0.010	1.00	49.0	337.0	2.5	121.0	20.0
		Fine grained, dark red, semi-massive	46660	21.00-22.00	1.00	0.015	1.00	123.0	797.0	110.0	198.0	8.0
		hematite stringers 45°	46661	22.00-23.00	1.00	0.210	1.00	106.0	414.0	90.0	189.0	4.0
		Frs=50/m	46662	23.00-24.00	1.00	2.980	1.00	266.0	820.0	400.0	193.0	4.0
		Weak QC stockwork	46663	24.00-25.00	1.00	0.515	0.40	203.0	1169.0	235.0	315.0	10.0
	<38.15-39.40>	massive hematite	46664	25.00-26.00	1.00	12.060	0.40	178.0	812.0	140.0	362.0	6.0
		Fine grained, dark red, massive	46665	26.00-27.00	1.00	0.245	1.00	65.0	454.0	55.0	192.0	36.0
		hematite stringers 45°	46666	27.00-28.00	1.00	0.135	1.00	37.0	241.0	55.0	144.0	16.0
		Frs=3/m	46667	28.00-29.00	1.00	0.040	1.00	43.0	240.0	35.0	108.0	30.0
		Intense MT massive	46668	29.00-30.00	1.00	0.005	1.00	32.0	104.0	2.5	103.0	24.0
		Moderate QC stockwork	46669	30.00-31.00	1.00	0.010	1.00	83.0	317.0	60.0	138.0	12.0
41.50	91.48	tuff	46670	31.00-32.00	1.00	2.310	3.80	582.0	5623.0	1325.0	276.0	8.0
		Fine grained, dark green, fractured, foliated	46671	32.00-33.00	1.00	11.430	0.20	506.0	286.0	420.0	170.0	4.0
		fracturing 70°:cleavage, foliation 30°	46672	33.00-34.00	1.00	0.415	0.20	260.0	1157.0	245.0	117.0	6.0
		Frs=5/m :Vns =15/m	46673	34.00-35.00	1.00	1.250	5.60	250.0	2539.0	420.0	116.0	4.0
		Trace CL interstitial	46674	35.00-36.00	1.00	0.020	1.00	120.0	204.0	115.0	59.0	2.0
		Moderate CB stockwork	46675	36.00-37.00	1.00	0.085	1.00	146.0	544.0	140.0	188.0	4.0
		Trace PY disseminated	46676	37.00-38.00	1.00	0.655	1.00	117.0	575.0	80.0	187.0	8.0

FROM TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Moderate QC vein	46677	38.00-38.50	0.50	0.075	1.00	210.0	1126.0	255.0	206.0	2.0
<45.72-48.80>	HEMATITE/CHLORITE ZONE	46678	38.50-40.00	1.50	1.090	0.80	83.0	551.0	95.0	254.0	10.0
	Fine grained, redish-green, fractured, foliated	46679	40.00-41.00	1.00	0.015	1.00	37.0	384.0	10.0	227.0	1.0
	fracturing 70°:qz-carb veining 45°	46680	41.00-42.00	1.00	0.010	1.00	37.0	561.0	5.0	127.0	46.0
	Frs=5/m :Vns =10/m	46681	42.00-43.00	1.00	0.025	1.00	40.0	235.0	2.5	123.0	32.0
	Moderate CL macroveins	46682	43.00-44.00	1.00	0.025	1.00	35.0	151.0	15.0	91.0	18.0
	Trace PY vein	46683	44.00-45.50	1.50	0.020	1.00	37.0	155.0	2.5	75.0	18.0
	Weak QC stockwork	46684	45.50-47.00	1.50	0.255	1.00	37.0	505.0	65.0	111.0	12.0
(eoh)											

12/03/96

Hole: CL95-05 GEOTECHNICAL DATA Page: 1

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

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL95-06

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL95-06	Date Completed:		Geotech by: AW
LENGTH: 122.52	Core Diam: BQTK		

Collar Location

Latitude:	2060.80
Departure:	1990.22
Elevation:	1407.52

S U M M A R Y

0.00-0.70	CASING *
0.70-44.00	HEMATITE/CHLORITE ZONE *
44.00-115.52	tuff *
115.52-117.70	ANDESITE
117.70-122.52	tuff

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	252.00	-75.00	BRUNTON

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	0.70	CASING										
0.70	44.00	HEMATITE/CHLORITE ZONE	11752	1.00-2.00	1.00	0.010	0.10	34.0	77.0	5.0	50.0	8.0
		Fine grained, redish-green, fractured, veined	11753	2.00-3.00	1.00	0.080	0.10	57.0	70.0	10.0	40.0	6.0
		fracturing 45°:hematite stringers 20°	11754	3.00-4.00	1.00	0.020	0.10	48.0	52.0	2.5	43.0	4.0
		Frs=4/m :Vns =70/m	11755	4.00-5.00	1.00	0.115	0.10	32.0	73.0	2.5	49.0	6.0
		Trace SI patches	11756	5.00-6.00	1.00	0.005	0.10	18.0	44.0	2.5	37.0	6.0
		Trace CL blebs	11757	6.00-7.00	1.00	0.125	0.10	27.0	139.0	10.0	41.0	4.0
		Weak CB stockwork	11758	7.00-8.00	1.00	0.090	0.10	22.0	116.0	10.0	42.0	4.0
		Moderate MT macroveins	11759	8.00-9.00	1.00	0.005	0.10	23.0	104.0	2.5	44.0	4.0
		Trace PY interstitial	11760	9.00-10.00	1.00	0.005	0.10	22.0	168.0	2.5	41.0	4.0
		Weak QC stockwork	11761	10.00-11.00	1.00	0.005	0.10	20.0	90.0	2.5	42.0	6.0
<0.70-0.70>		Mega Breccia [100%]										
		1 % galena - interstitial										
		1 % sphalerite - blebs										
		1 % Hematite - coatings										
44.00	115.52	tuff	11762	11.00-12.00	1.00	0.005	0.10	21.0	90.0	2.5	59.0	8.0
		Fine grained, redish-green, fractured, veined	11763	12.00-13.00	1.00	0.005	0.10	33.0	78.0	10.0	103.0	8.0
		fracturing 50°:hematite stringers 30°	11764	13.00-14.00	1.00	0.005	0.10	36.0	94.0	5.0	111.0	6.0
		Frs=5/m :Vns =5/m	11765	14.00-15.00	1.00	0.005	0.10	25.0	74.0	2.5	53.0	2.0
		Trace SI patches	11766	15.00-16.00	1.00	0.070	0.10	29.0	106.0	2.5	60.0	6.0
		Weak CL interstitial	11767	16.00-17.00	1.00	1.810	0.40	392.0	671.0	500.0	69.0	26.0
		Weak CB stockwork	11768	17.00-18.00	1.00	31.370	0.60	82.0	208.0	2.5	100.0	6.0
		Weak MT macroveins	11769	18.00-19.00	1.00	0.010	0.10	29.0	555.0	25.0	49.0	4.0
		Trace PY vein	11770	19.00-20.00	1.00	0.025	0.40	27.0	723.0	65.0	42.0	4.0
		Weak QC stockwork	11771	20.00-21.00	1.00	0.005	0.10	27.0	92.0	2.5	45.0	6.0
<57.00-115.52>		Dark green, fractured, veined	11772	21.00-22.00	1.00	0.005	0.10	26.0	217.0	2.5	42.0	14.0
		fracturing 45°:cleavage, foliation 60°	11773	22.00-23.00	1.00	0.045	0.10	31.0	398.0	15.0	40.0	12.0
		Frs=5/m :Vns =5/m	11774	23.00-24.00	1.00	0.020	0.10	34.0	443.0	10.0	47.0	24.0
		Trace SI patches	11775	24.00-25.00	1.00	0.025	0.10	34.0	251.0	35.0	59.0	12.0
		Weak CL interstitial	11776	25.00-26.00	1.00	0.025	0.10	28.0	102.0	70.0	62.0	10.0
		Weak CB stockwork	11777	26.00-27.00	1.00	0.015	0.10	34.0	86.0	35.0	68.0	8.0
		Trace MT patches	11778	27.00-28.00	1.00	0.100	0.10	35.0	136.0	15.0	95.0	4.0
		Trace PY disseminated	11779	28.00-29.00	1.00	0.050	0.10	32.0	188.0	70.0	77.0	24.0
		Weak QC stockwork	11780	29.00-30.00	1.00	0.025	0.10	34.0	191.0	85.0	69.0	22.0
<77.00-115.52>			11781	30.00-31.00	1.00	0.010	0.10	29.0	92.0	2.5	64.0	8.0
<77.00-115.52>		fracturing 45°:qz-carb veining 90°	11782	31.00-32.00	1.00	0.005	0.10	32.0	101.0	30.0	60.0	2.0
		Frs=5/m :Vns =9/m	11783	32.00-33.00	1.00	0.020	0.10	32.0	98.0	20.0	63.0	2.0
		Weak SI pervasive	11784	33.00-34.00	1.00	0.015	0.10	31.0	87.0	15.0	78.0	4.0
		Weak CB stockwork	11785	34.00-35.00	1.00	0.015	0.10	28.0	181.0	45.0	81.0	8.0
		Moderate PY disseminated	11786	35.00-36.00	1.00	0.005	0.10	37.0	166.0	15.0	111.0	6.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
115.52	117.70	ANDESITE	11787	36.00-37.00	1.00	0.060	0.10	41.0	97.0	10.0	57.0	6.0
		Fine grained, dark green, veined, chilled margin	11788	37.00-38.00	1.00	0.015	0.10	27.0	52.0	20.0	48.0	8.0
		fracturing 45°:qz-carb veining 30°	11789	38.00-39.00	1.00	0.010	0.10	36.0	35.0	5.0	57.0	8.0
		Frs=2/m :Vns =3/m	11790	39.00-40.00	1.00	0.040	0.10	54.0	662.0	10.0	66.0	8.0
		Trace CL interstitial	117900	40.00-41.00	1.00	0.045	0.10	34.0	68.0	20.0	88.0	6.0
		Trace CB stockwork	11791	41.00-42.00	1.00	0.020	0.10	39.0	316.0	25.0	84.0	8.0
		Trace PY disseminated	11792	42.00-43.00	1.00	0.010	0.10	40.0	95.0	10.0	104.0	6.0
		Trace QC vein	11793	43.00-44.00	1.00	0.020	0.10	43.0	155.0	2.5	98.0	6.0
			11794	44.00-45.00	1.00	0.015	0.10	36.0	106.0	25.0	89.0	38.0
117.70	122.52	tuff	11795	45.00-46.00	1.00	0.025	0.10	42.0	291.0	20.0	114.0	130.0
		Dark green, veined, fractured	11796	46.00-47.00	1.00	0.025	1.00	31.0	857.0	2.5	112.0	88.0
		qz-carb veining 30°	11797	47.00-48.00	1.00	0.015	0.10	37.0	184.0	20.0	79.0	90.0
		Frs=1/m	11798	48.00-49.00	1.00	0.015	2.00	36.0	1683.0	15.0	185.0	60.0
		Trace CL interstitial	11799	49.00-50.00	1.00	0.020	0.10	29.0	480.0	10.0	183.0	80.0
		Trace CB stockwork	11800	50.00-51.00	1.00	0.010	0.10	26.0	263.0	45.0	82.0	66.0
		Trace PY disseminated	11801	51.00-52.00	1.00	0.010	0.10	37.0	170.0	30.0	64.0	10.0
		Trace QC vein	11802	52.00-53.00	1.00	0.250	0.10	32.0	68.0	250.0	77.0	34.0
(eoh)			11803	53.00-54.00	1.00	0.245	0.10	39.0	235.0	25.0	180.0	22.0
			11804	54.00-55.00	1.00	0.345	0.10	33.0	403.0	15.0	161.0	32.0
			11805	55.00-56.00	1.00	0.150	0.10	78.0	171.0	95.0	230.0	22.0
			11806	56.00-57.00	1.00	1.460	0.10	96.0	523.0	120.0	114.0	12.0
			11807	57.00-58.00	1.00	0.260	0.10	39.0	435.0	90.0	84.0	34.0
			11808	58.00-59.50	1.50	0.005	0.10	42.0	78.0	20.0	74.0	18.0
			11809	59.50-61.00	1.50	0.005	0.10	38.0	87.0	90.0	92.0	26.0
			11810	61.00-62.50	1.50	0.040	0.10	11.0	77.0	15.0	47.0	10.0
			11811	62.50-64.00	1.50	0.010	0.10	22.0	83.0	55.0	60.0	14.0
			11812	64.00-65.50	1.50	0.740	0.60	83.0	418.0	105.0	72.0	38.0
			11813	65.50-67.00	1.50	0.010	0.10	16.0	121.0	20.0	63.0	10.0
			11814	67.00-68.50	1.50	0.005	0.10	15.0	110.0	20.0	61.0	10.0
			11815	68.50-70.00	1.50	0.125	0.10	14.0	77.0	5.0	68.0	8.0
			11816	70.00-71.50	1.50	0.025	0.10	12.0	69.0	2.5	59.0	10.0
			11817	71.50-73.00	1.50	0.020	0.10	13.0	81.0	5.0	55.0	10.0
			11818	73.00-74.50	1.50	0.015	0.10	15.0	63.0	60.0	60.0	6.0
			11819	74.50-76.00	1.50	0.100	0.10	35.0	25.0	235.0	74.0	6.0
			11820	76.00-77.50	1.50	0.140	0.10	20.0	64.0	145.0	70.0	6.0
			11821	77.50-79.00	1.50	0.125	0.10	24.0	97.0	195.0	71.0	8.0
			11822	79.00-80.50	1.50	3.840	1.60	191.0	535.0	2600.0	73.0	10.0
			11823	80.50-82.00	1.50	1.930	0.40	56.0	134.0	600.0	88.0	8.0
			11824	82.00-83.50	1.50	0.435	0.10	37.0	53.0	450.0	79.0	12.0
			11825	83.50-85.00	1.50	0.495	0.10	28.0	81.0	250.0	71.0	12.0
			11826	85.00-86.50	1.50	0.080	0.10	37.0	109.0	120.0	73.0	10.0
			11827	86.50-88.00	1.50	0.040	0.10	55.0	181.0	265.0	87.0	16.0
			11828	88.00-89.50	1.50	0.025	0.10	49.0	175.0	215.0	85.0	14.0
			11829	89.50-91.00	1.50	0.040	0.10	35.0	119.0	170.0	69.0	20.0
			11830	91.00-92.50	1.50	0.040	0.10	39.0	150.0	140.0	104.0	22.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
			11831	92.50-94.00	1.50	0.050	0.10	33.0	150.0	195.0	89.0	22.0
			11832	94.00-95.50	1.50	0.030	0.10	32.0	119.0	70.0	79.0	12.0
			11833	95.50-97.00	1.50	0.090	0.60	52.0	124.0	130.0	84.0	22.0
			11834	97.00-98.50	1.50	0.020	0.10	33.0	139.0	65.0	73.0	10.0
			11835	98.50-100.00	1.50	0.030	0.10	38.0	151.0	55.0	76.0	8.0
			11836	100.00-101.50	1.50	0.060	0.80	32.0	242.0	65.0	145.0	12.0
			11837	101.50-103.00	1.50	0.070	0.80	36.0	293.0	560.0	128.0	10.0
			11838	103.00-104.50	1.50	0.025	0.10	36.0	228.0	65.0	94.0	10.0
			11839	104.50-106.00	1.50	0.020	0.20	41.0	213.0	130.0	99.0	10.0
			11840	106.00-107.50	1.50	2.030	1.60	301.0	447.0	7585.0	160.0	88.0
			11841	107.50-109.00	1.50	0.365	0.80	101.0	248.0	1395.0	157.0	68.0
			11842	109.00-110.50	1.50	0.010	0.10	21.0	55.0	405.0	81.0	20.0
			11843	110.50-112.00	1.50	0.700	3.40	15.0	421.0	45.0	116.0	252.0
			11844	112.00-113.50	1.50	0.110	1.20	42.0	167.0	220.0	163.0	238.0
			11845	113.50-115.00	1.50	0.005	0.10	24.0	79.0	70.0	86.0	24.0
			11846	115.00-116.50	1.50	0.005	0.10	25.0	39.0	35.0	82.0	14.0
			11847	116.50-118.00	1.50	0.005	0.10	23.0	20.0	2.5	101.0	16.0
			11848	118.00-119.50	1.50	0.005	0.10	24.0	18.0	2.5	100.0	20.0
			11849	119.50-121.00	1.50	0.005	0.10	25.0	19.0	2.5	101.0	20.0

12/03/96

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

HOMESTAKE MINING COMPANY | DRILL HOLE LOG | CL95-07

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL95-07	Date Completed:		Geotech by: AW
LENGTH: 76.20	Core Diam: BQTK		

Collar Location

Latitude:	2059.38
Departure:	1990.92
Elevation:	1406.87

S U M M A R Y

0.00-1.37	CASING
1.37-21.00	HEMATITE/CHLORITE ZONE *
21.00-30.60	tuff
30.60-34.13	ANDESITE
34.13-76.20	tuff

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	218.00	-45.00	BRUNTON

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	1.37	CASING										
1.37	21.00	HEMATITE/CHLORITE ZONE	11852	2.00-3.00	1.00	0.020	0.10	5.0	2.5	3.0	127.0	18.0
		Fine grained, dark green, Brecciated, foliated	11853	3.00-4.00	1.00	0.040	0.10	10.0	2.5	1.0	82.0	19.0
		hematite stringers 30°:cleavage, foliation 30°	11854	4.00-5.00	1.00	0.280	0.10	5.0	2.5	3.0	101.0	23.0
		Frs=8/m :Vns =4/m	11855	5.00-6.00	1.00	0.020	0.10	5.0	2.5	3.0	348.0	18.0
		Trace SI patches	11856	6.00-7.00	1.00	0.010	0.10	5.0	15.0	5.0	92.0	20.0
		Moderate CL blebs	11857	7.00-8.00	1.00	0.005	0.10	5.0	2.5	3.0	83.0	18.0
		Trace CB stockwork	11858	8.00-9.00	1.00	0.045	0.10	2.5	5.0	5.0	73.0	18.0
		Moderate MT pervasive	11859	9.00-10.00	1.00	0.010	0.10	2.5	2.5	3.0	74.0	13.0
		Trace PY disseminated	11860	10.00-11.00	1.00	0.115	0.10	20.0	2.5	2.0	471.0	42.0
		Trace QC stockwork	11861	11.00-12.00	1.00	0.080	0.10	10.0	2.5	2.0	250.0	33.0
		Trace QF massive	11862	12.00-13.00	1.00	0.360	0.10	2.5	2.5	5.0	132.0	48.0
<1.37-21.00>		Mega Breccia [100%]	11863	13.00-14.00	1.00	20.470	0.60	2.5	145.0	20.0	172.0	115.0
		1 % specularite - blebs	11864	14.00-15.00	1.00	0.140	0.10	2.5	2.5	6.0	96.0	46.0
		1 % sphalerite - microveins	11865	15.00-16.00	1.00	2.920	0.10	5.0	2.5	6.0	97.0	63.0
		1 % Hematite - coatings	11866	16.00-17.00	1.00	11.260	0.60	15.0	20.0	12.0	125.0	59.0
21.00	30.60	tuff	11867	17.00-18.00	1.00	6.130	8.60	15.0	220.0	16.0	9020.0	75.0
		Dark green, Brecciated, sheared	11868	18.00-19.00	1.00	0.200	0.10	10.0	2.5	6.0	1340.0	48.0
		cleavage, foliation 30°:hematite stringers 30°	11869	19.00-20.00	1.00	0.110	0.10	10.0	10.0	6.0	346.0	41.0
		Frs=14/m :Vns =3/m	11870	20.00-21.00	1.00	0.045	0.10	15.0	15.0	5.0	336.0	25.0
		Trace SI patches	11871	21.00-22.00	1.00	0.050	0.10	15.0	25.0	6.0	295.0	31.0
		Weak CL interstitial	11872	22.00-23.00	1.00	0.005	0.10	15.0	2.5	0.5	43.0	28.0
		Moderate CB stockwork	11873	23.00-24.00	1.00	0.010	0.10	15.0	2.5	2.0	66.0	30.0
		Trace MT interstitial	11874	24.00-25.00	1.00	0.005	0.10	15.0	2.5	2.0	54.0	28.0
		Trace HE patches	11875	25.00-26.00	1.00	0.015	0.10	20.0	2.5	2.0	77.0	34.0
		Trace PY disseminated	11876	26.00-27.00	1.00	0.005	0.10	10.0	30.0	2.0	100.0	36.0
		Trace QC stockwork	11877	27.00-28.00	1.00	0.260	0.10	2.5	25.0	3.0	126.0	39.0
30.60	34.13	ANDESITE	11878	28.00-29.00	1.00	0.830	0.10	20.0	25.0	2.0	181.0	38.0
		Fine grained, dark green, veined, chilled margin	11879	29.00-30.00	1.00	2.040	0.10	2.5	65.0	7.0	641.0	74.0
		qz-carb veining 30°:contact 30°	11880	30.00-31.00	1.00	0.060	0.10	15.0	40.0	2.0	42.0	27.0
		Frs=2/m :Vns =2/m	11881	31.00-32.00	1.00	0.010	0.10	15.0	2.5	0.5	27.0	27.0
		Trace CL interstitial	11882	32.00-33.00	1.00	0.005	0.10	15.0	5.0	0.5	21.0	24.0
		Trace CB stockwork	11883	33.00-34.00	1.00	0.005	0.10	10.0	2.5	0.5	21.0	25.0
		?? PY disseminated										
		Trace QC stockwork										
34.13	56.00	tuff	11884	34.00-35.00	1.00	2.650	0.10	15.0	200.0	7.0	202.0	77.0
		Dark green, Brecciated, foliated	11885	35.00-36.00	1.00	0.005	0.10	15.0	110.0	1.0	118.0	39.0
		cleavage, foliation 30°:fault/gouge	11886	36.00-37.00	1.00	0.005	0.10	15.0	50.0	0.5	128.0	39.0
		Frs=8/m :Vns =10/m	11887	37.00-38.00	1.00	0.005	0.10	10.0	50.0	4.0	130.0	38.0
		Moderate SI patches	11888	38.00-39.00	1.00	0.010	0.10	10.0	20.0	6.0	127.0	40.0
		Trace CL interstitial	11889	39.00-40.00	1.00	0.120	0.10	15.0	35.0	4.0	120.0	24.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak CB stockwork	11890	40.00-41.00	1.00	0.005	0.10	10.0	10.0	3.0	28.0	9.0
		Trace MT patches	11891	41.00-42.00	1.00	0.030	0.10	15.0	10.0	3.0	45.0	10.0
		Trace HE patches	11892	42.00-43.00	1.00	0.030	0.10	5.0	30.0	3.0	196.0	21.0
		Trace PY disseminated	11893	43.00-44.50	1.50	1.690	0.10	10.0	75.0	5.0	135.0	32.0
		Weak QC stockwork	11894	44.50-46.00	1.50	0.005	0.10	15.0	40.0	8.0	146.0	20.0
<50.70	56.00>	Dark green, foliated, fractured	11895	46.00-47.50	1.50	0.020	0.10	15.0	65.0	4.0	135.0	17.0
		Moderate PY laminations	11896	47.50-49.00	1.50	0.010	0.10	2.5	215.0	8.0	160.0	41.0
(eoh)												

12/03/96

Hole: CL95-07 GEOTECHNICAL DATA Page: 1

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

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL95-08

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL95-08	Date Completed:		Geotech by: AW
LENGTH: 103.93	Core Diam: BQTK		

Collar Location

Latitude:	2058.74
Departure:	1990.55
Elevation:	1406.93

S U M M A R Y

0.00-1.37	CASING
1.37-36.80	HEMATITE/CHLORITE ZONE *
36.80-40.90	ANDESITE
40.90-44.00	HEMATITE/CHLORITE ZONE
44.00-103.93	tuff ***

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	218.00	-55.00	BRUNTON

HOLE: CL95-08

HOMESTAKE MINING COMPANY - Clone

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	1.37	CASING										
1.37	36.80	HEMATITE/CHLORITE ZONE	11916	2.00-3.00	1.00	0.200	0.10	5.0	2.5	3.0	86.0	23.0
		Fine grained, redish-green, Brecciated, foliated	11917	3.00-4.00	1.00	0.705	0.10	10.0	2.5	1.0	130.0	33.0
		cleavage, foliation 45°:hematite stringers	11918	4.00-5.00	1.00	0.210	0.10	10.0	2.5	3.0	55.0	33.0
		Frs=10/m :Vns =10/m	11919	5.00-6.00	1.00	0.010	0.10	10.0	2.5	4.0	70.0	24.0
		Weak SI patches	11920	6.00-7.00	1.00	0.010	0.10	10.0	5.0	4.0	68.0	22.0
		Weak CL interstitial	11921	7.00-8.00	1.00	0.005	0.10	2.5	2.5	3.0	102.0	18.0
		Weak CB stockwork	11922	8.00-9.00	1.00	0.030	0.10	2.5	10.0	3.0	76.0	26.0
		Moderate MT interstitial	11923	9.00-10.00	1.00	0.005	0.10	2.5	2.5	4.0	234.0	26.0
		Moderate HE patches	11924	10.00-11.00	1.00	0.010	0.10	10.0	2.5	3.0	218.0	18.0
		Trace PY disseminated	11925	11.00-12.00	1.00	0.280	0.10	2.5	2.5	2.0	87.0	18.0
		Weak QC stockwork	11926	12.00-13.00	1.00	0.025	0.10	15.0	2.5	3.0	66.0	36.0
		Trace QF vein	11927	13.00-14.00	1.00	0.750	0.10	2.5	10.0	2.0	391.0	74.0
	<1.37-36.80>	Mega Breccia [100%]	11928	14.00-15.00	1.00	8.060	0.10	2.5	95.0	7.0	111.0	344.0
		Trace MT disseminated	11929	15.00-16.00	1.00	160.560	3.40	5.0	270.0	198.0	185.0	211.0
		1 % sphalerite - disseminated	11930	16.00-17.00	1.00	3.470	0.10	2.5	5.0	14.0	177.0	85.0
		1 % pyrite - disseminated	11931	17.00-18.00	1.00	0.315	0.10	2.5	2.5	9.0	106.0	41.0
		1 % Hematite - coatings	11932	18.00-19.00	1.00	0.055	0.10	2.5	2.5	6.0	554.0	37.0
	<15.00-18.50>	HEMATITE/CHLORITE ZONE										
		Fine grained, redish-green, veined										
		hematite stringers :qz-carb veining										
		:Vns =30/m										
		Weak SI patches										
		Weak CL interstitial										
		Moderate CB stockwork										
		Moderate MT vein										
		Trace PY disseminated										
		Moderate QC stockwork										
		Moderate QF vein										
	<18.95-32.00>	Fine grained, redish-green, Brecciated, foliated	11933	19.00-20.00	1.00	0.050	0.10	2.5	5.0	11.0	586.0	35.0
		cleavage, foliation 45°:hematite stringers 45°	11934	20.00-21.00	1.00	0.010	0.10	10.0	5.0	8.0	246.0	34.0
		Frs=12/m :Vns =4/m	11935	21.00-22.00	1.00	0.020	0.10	10.0	35.0	9.0	220.0	36.0
		Trace SI patches	11936	22.00-23.00	1.00	0.005	0.10	10.0	2.5	6.0	214.0	36.0
		Weak CL interstitial	11937	23.00-24.00	1.00	0.015	0.10	10.0	15.0	12.0	325.0	40.0
		Trace CB stockwork	11938	24.00-25.00	1.00	0.005	0.10	10.0	2.5	3.0	189.0	33.0
		Trace MT interstitial	11939	25.00-26.00	1.00	0.005	0.10	15.0	25.0	5.0	197.0	31.0
		Trace HE patches	11940	26.00-27.00	1.00	0.005	0.10	10.0	20.0	1.0	199.0	33.0
		Trace PY disseminated	11941	27.00-28.00	1.00	0.005	0.10	15.0	25.0	4.0	297.0	35.0
		Trace QC stockwork	11942	28.00-29.00	1.00	0.005	0.10	10.0	20.0	2.0	301.0	29.0
36.80	40.90	ANDESITE	11943	29.00-30.00	1.00	0.010	0.10	10.0	15.0	2.0	180.0	27.0
		Fine grained, dark green, veined, chilled margin	11944	30.00-31.00	1.00	0.005	1.00	5.0	15.0	0.5	857.0	21.0

12/03/96

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		qz-carb veining 30°:contact 30°	11945	31.00-32.00	1.00	0.085	3.20	10.0	30.0	0.5	1509.0	49.0
		Frs=2/m :Vns =2/m	11946	32.00-33.00	1.00	0.005	0.10	15.0	10.0	1.0	93.0	25.0
		Trace CL interstitial	11947	33.00-34.00	1.00	0.005	0.10	20.0	2.5	2.0	135.0	33.0
		Trace CB stockwork	11948	34.00-35.00	1.00	0.005	0.10	20.0	2.5	0.5	164.0	30.0
		?? PY disseminated	11949	35.00-36.00	1.00	0.005	0.10	20.0	2.5	0.5	218.0	36.0
		Trace QC stockwork	11950	36.00-37.00	1.00	0.005	0.10	10.0	45.0	0.5	172.0	39.0
40.90	44.00	HEMATITE/CHLORITE ZONE	12551	37.00-38.00	1.00	0.005	0.10	5.0	2.5	0.5	30.0	25.0
		Fine grained, redish-green, Brecciated, foliated	12552	38.00-39.00	1.00	0.005	0.10	15.0	10.0	0.5	22.0	24.0
		cleavage, foliation 45°:hematite stringers 45°	12553	39.00-40.00	1.00	0.005	0.10	15.0	10.0	0.5	22.0	25.0
		Frs=6/m :Vns =12/m	12554	40.00-41.00	1.00	0.005	0.10	15.0	15.0	0.5	20.0	27.0
		Trace SI patches	12555	41.00-42.00	1.00	0.005	0.10	15.0	25.0	0.5	52.0	39.0
		Weak CL interstitial	12556	42.00-43.00	1.00	0.005	0.10	20.0	2.5	0.5	70.0	34.0
		Weak CB stockwork	12557	43.00-44.00	1.00	0.005	0.10	20.0	2.5	0.5	80.0	37.0
		Trace MT interstitial										
		Trace HE patches										
		Trace PY disseminated										
		Weak QC stockwork										
44.00	75.30	tuff	12558	44.00-45.00	1.00	0.005	0.10	20.0	15.0	0.5	49.0	25.0
		Dark green, Brecciated, crystallites	12559	45.00-46.00	1.00	0.225	0.10	15.0	60.0	0.5	113.0	39.0
		fault/gouge :cleavage, foliation 45°	12560	46.00-47.00	1.00	0.175	0.10	10.0	45.0	0.5	120.0	29.0
		Frs=15/m :Vns =15/m	12561	47.00-48.00	1.00	0.035	0.10	5.0	20.0	4.0	286.0	36.0
		Weak SI patches	12562	48.00-49.50	1.50	0.025	0.10	15.0	60.0	12.0	303.0	34.0
		Trace CL interstitial	12563	49.50-51.00	1.50	0.005	0.10	2.5	130.0	14.0	534.0	52.0
		Weak CB stockwork	12564	51.00-53.00	2.00	0.005	0.10	10.0	130.0	5.0	304.0	38.0
		Weak HE patches	12565	53.00-54.86	1.86	0.105	0.60	2.5	90.0	11.0	685.0	73.0
		Weak PY disseminated	12566	54.86-55.50	0.64	0.005	0.10	10.0	75.0	5.0	223.0	31.0
		Weak QC stockwork	12567	55.50-57.00	1.50	0.005	0.10	2.5	85.0	6.0	290.0	36.0
<49.50-54.86>		Moderate MT laminations										
		1 % galena - microveins										
		1 % sphalerite - blebs										
<49.50-54.86>		Moderate PY laminations										
<67.50-75.30>			12568	57.00-58.50	1.50	0.010	0.10	10.0	105.0	7.0	264.0	36.0
<78.33-84.73>		Trace MT microveins	12569	58.50-60.00	1.50	0.045	0.40	15.0	105.0	8.0	499.0	32.0
		1 % galena - microveins	12570	60.00-61.50	1.50	0.755	0.10	15.0	10.0	5.0	178.0	22.0
<78.33-84.73>		tuff	12571	61.50-63.00	1.50	0.010	0.10	15.0	2.5	2.0	17.0	17.0
		Sheared, crystallites	12572	63.00-64.50	1.50	0.010	0.10	15.0	15.0	1.0	27.0	21.0
		Trace PY microveins	12573	64.50-66.00	1.50	0.015	0.10	20.0	20.0	2.0	28.0	16.0
<100.70-101.30>		Weak MT laminations	12574	66.00-67.50	1.50	0.045	0.10	15.0	15.0	10.0	30.0	19.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<100.70-	101.30>	Weak PY laminations	12575	67.50-69.00	1.50	0.150	0.10	10.0	30.0	8.0	17.0	20.0
<101.30-	103.93>		12576	69.00-70.50	1.50	0.135	0.10	15.0	1325.0	9.0	162.0	155.0
(eoh)												

12/03/96

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

HOMESTAKE MINING COMPANY | DRILL HOLE LOG | CL95-09

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL95-09	Date Completed:		Geotech by: AW
LENGTH: 73.20	Core Diam: BQTK		

Collar Location

Latitude:	2059.75
Departure:	1991.04
Elevation:	1407.12

S U M M A R Y

0.00-1.37	CASING
1.37-45.22	HEMATITE/CHLORITE ZONE *
45.22-51.80	ANDESITE
51.80-60.00	HEMATITE/CHLORITE ZONE *
60.00-73.20	tuff *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	218.00	-65.00	BRUNTON

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	1.37	CASING										
1.37	45.22	HEMATITE/CHLORITE ZONE	12502	2.00-3.00	1.00	2.760	0.10	156.0	120.0	15.0	45.0	8.0
		Fine grained, redish-green, Brecciated, foliated	12503	3.00-4.00	1.00	0.090	0.10	100.0	96.0	10.0	45.0	10.0
		cleavage, foliation 20°:hematite stringers 45°	12504	4.00-5.00	1.00	0.055	0.40	99.0	63.0	20.0	51.0	12.0
		Frs=6/m :Vns =25/m	12505	5.00-6.00	1.00	2.480	0.10	261.0	130.0	75.0	51.0	12.0
		Trace SI patches	12506	6.00-7.00	1.00	0.100	0.10	143.0	78.0	25.0	43.0	6.0
		Weak CL interstitial	12507	7.00-8.00	1.00	0.005	0.10	59.0	80.0	2.5	55.0	10.0
		Moderate CB stockwork	12508	8.00-9.00	1.00	0.005	0.10	55.0	88.0	5.0	56.0	8.0
		Weak MT interstitial	12509	9.00-10.00	1.00	0.065	0.10	37.0	129.0	5.0	52.0	12.0
		Trace PY disseminated	12510	10.00-11.00	1.00	0.100	0.10	18.0	99.0	15.0	64.0	4.0
		Weak QC stockwork	12511	11.00-12.00	1.00	0.015	0.80	33.0	61.0	2.5	70.0	12.0
		Trace QF vein	12512	12.00-13.00	1.00	0.030	0.10	36.0	103.0	2.5	43.0	12.0
	<1.37-45.22>	Mega Breccia (100%)	12513	13.00-14.00	1.00	0.020	0.10	29.0	67.0	10.0	48.0	10.0
		Trace MT disseminated	12514	14.00-15.00	1.00	0.005	0.20	26.0	67.0	2.5	58.0	1.0
		1 % sphalerite - disseminated	12515	15.00-16.00	1.00	0.005	0.10	30.0	139.0	2.5	77.0	1.0
		1 % pyrrhotite - blebs	12516	16.00-17.00	1.00	0.290	0.10	81.0	87.0	5.0	74.0	10.0
	<19.00-25.60>	HEMATITE/CHLORITE ZONE	12517	17.00-18.00	1.00	0.005	0.10	36.0	278.0	10.0	80.0	12.0
		Brecciated, foliated	12518	18.00-19.00	1.00	4.290	0.10	75.0	267.0	20.0	62.0	16.0
		Trace SI patches	12519	19.00-20.00	1.00	0.220	0.10	137.0	233.0	65.0	59.0	12.0
		Weak CL interstitial	12520	20.00-21.00	1.00	16.490	0.80	163.0	83.0	145.0	74.0	22.0
		Moderate CB stockwork	12521	21.00-22.00	1.00	0.255	0.10	50.0	343.0	55.0	63.0	24.0
		Weak MT interstitial	12522	22.00-23.00	1.00	0.085	0.10	36.0	473.0	2.5	52.0	20.0
		Weak PY laminations	12523	23.00-24.00	1.00	0.050	0.10	36.0	166.0	15.0	64.0	10.0
45.22	51.80	ANDESITE	12524	24.00-25.00	1.00	0.055	0.10	34.0	760.0	40.0	58.0	20.0
		Fine grained, dark green, chilled margin, veined	12525	25.00-26.00	1.00	0.065	0.10	36.0	263.0	30.0	83.0	12.0
		contact :qz-carb veining	12526	26.00-27.00	1.00	0.005	0.10	30.0	117.0	2.5	60.0	10.0
		Frs=2/m :Vns =2/m	12527	27.00-28.00	1.00	0.005	0.10	29.0	256.0	2.5	65.0	8.0
		Trace CL interstitial	12528	28.00-29.00	1.00	0.005	0.10	22.0	126.0	5.0	61.0	8.0
		Trace CB stockwork	12529	29.00-30.00	1.00	0.120	0.10	39.0	36.0	2.5	110.0	8.0
		?? PY disseminated		30.00-31.00	1.00	0.005	0.10	35.0	47.0	15.0	109.0	26.0
		Trace QC stockwork	12530	31.00-32.00	1.00	0.005	0.10	32.0	81.0	25.0	64.0	1.0
51.80	60.00	HEMATITE/CHLORITE ZONE	12531	32.00-33.00	1.00	0.390	0.10	21.0	82.0	15.0	52.0	1.0
		Fine grained, redish-green, Brecciated, foliated	12532	33.00-34.00	1.00	0.100	0.10	25.0	312.0	2.5	51.0	4.0
		cleavage, foliation 20°:hematite stringers 45°	12533	34.00-35.00	1.00	0.005	0.10	17.0	73.0	2.5	34.0	6.0
		Frs=6/m :Vns =5/m	12534	35.00-36.00	1.00	0.895	0.10	40.0	89.0	2.5	55.0	6.0
		Trace SI patches	12535	36.00-37.00	1.00	0.020	0.10	39.0	99.0	2.5	47.0	4.0
		Weak CL interstitial	12536	37.00-38.00	1.00	0.080	0.60	66.0	1558.0	2.5	55.0	4.0
		Trace CB stockwork	12537	38.00-39.00	1.00	0.020	0.10	45.0	212.0	2.5	70.0	4.0
		Weak MT interstitial	12538	39.00-40.00	1.00	0.005	0.10	40.0	306.0	2.5	70.0	10.0
		Trace HE patches	12539	40.00-41.00	1.00	0.010	0.10	34.0	192.0	2.5	63.0	18.0
		Trace PY laminations	12540	41.00-42.00	1.00	0.005	0.10	35.0	129.0	2.5	70.0	20.0

12/03/96

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Trace QC stockwork	12541	42.00-43.00	1.00	0.005	0.10	35.0	237.0	2.5	71.0	98.0
<51.80-60.00>		Mega Breccia [100%]	12542	43.00-44.00	1.00	0.060	0.80	38.0	560.0	2.5	189.0	18.0
		Trace MT laminations	12543	44.00-45.00	1.00	0.005	0.10	40.0	164.0	2.5	144.0	14.0
60.00	73.20	tuff	12544	45.00-47.00	2.00	0.005	0.10	31.0	87.0	25.0	153.0	18.0
<72.50-72.52>		MASSIVE PYRITE [100%]	12545	47.00-49.00	2.00	0.005	0.10	24.0	26.0	10.0	101.0	22.0
		Intense MT vein	12546	49.00-52.00	3.00	0.010	0.10	27.0	25.0	2.5	99.0	22.0
(eoh)												

12/03/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL95-10

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL95-10	Date Completed:		Geotech by: AW
LENGTH: 72.54	Core Diam: BQTK		

Collar Location

Latitude:	2058.49
Departure:	1990.17
Elevation:	1406.98

SUMMARY

0.00-2.00	CASING
2.00-26.40	HEMATITE/CHLORITE ZONE
26.40-29.10	ANDESITE
29.10-40.70	HEMATITE/CHLORITE ZONE
40.70-56.50	tuff
56.50-57.90	HEMATITE/CHLORITE ZONE
57.90-72.54	tuff

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	200.00	-45.00	BRUNTON

HOLE: CL95-10 HOMESTAKE MINING COMPANY - Clone

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	2.00	CASING										
2.00	26.40	HEMATITE/CHLORITE ZONE	12616	3.00-4.00	1.00	0.540	0.30	23.0	440.0	20.0	56.0	7.0
		Fine grained, redish-green, Brecciated, foliated	12617	4.00-5.00	1.00	1.020	0.30	43.0	149.0	34.0	68.0	9.0
		cleavage, foliation 45°:hematite stringers	12618	5.00-6.00	1.00	0.110	0.30	41.0	115.0	25.0	81.0	7.0
		Frs=8/m :Vns =30/m	12619	6.00-7.00	1.00	0.120	0.30	32.0	128.0	15.0	50.0	7.0
		Trace SI patches	12620	7.00-8.00	1.00	0.080	0.30	20.0	95.0	15.0	49.0	5.0
		Weak CL interstitial	12621	8.00-9.00	1.00	0.220	0.30	11.0	84.0	12.0	146.0	48.0
		Weak CB stockwork	12622	9.00-10.00	1.00	0.030	0.30	12.0	72.0	8.0	52.0	6.0
		Trace MT patches	12623	10.00-11.00	1.00	0.450	0.30	12.0	71.0	9.0	46.0	7.0
		Trace HE patches	12624	11.00-12.00	1.00	0.350	0.30	14.0	120.0	14.0	53.0	7.0
		?? PY disseminated	12625	12.00-13.00	1.00	0.050	0.30	23.0	86.0	15.0	69.0	8.0
		Weak QC stockwork	12626	13.00-14.00	1.00	0.100	0.30	46.0	135.0	30.0	66.0	11.0
		Moderate QF vein	12627	14.00-15.00	1.00	0.580	0.30	72.0	1338.0	24.0	95.0	8.0
26.40	29.10	ANDESITE	12628	15.00-16.00	1.00	54.990	1.70	85.0	314.0	97.0	122.0	23.0
		Fine grained, dark green, veined, chilled margin	12629	16.00-17.00	1.00	388.320	7.80	50.0	472.0	155.0	140.0	34.0
		qz-carb veining :contact	12630	17.00-18.00	1.00	19.680	0.50	97.0	278.0	118.0	209.0	20.0
		Frs=2/m :Vns =2/m	12631	18.00-19.00	1.00	7.240	0.50	115.0	383.0	83.0	237.0	15.0
		Trace CL interstitial	12632	19.00-20.00	1.00	12.480	0.30	62.0	385.0	120.0	254.0	32.0
		Trace CB stockwork	126322	20.00-21.00	1.00	4.360	0.30	90.0	175.0	145.0	233.0	17.0
		?? PY disseminated	12633	21.00-22.00	1.00	5.760	0.30	64.0	277.0	271.0	119.0	38.0
		Trace QC stockwork	12634	22.00-23.00	1.00	14.680	0.40	133.0	482.0	107.0	565.0	30.0
29.10	40.70	HEMATITE/CHLORITE ZONE	12635	23.00-24.00	1.00	0.850	0.30	102.0	259.0	47.0	630.0	7.0
		Aphanitic, redish-green, Brecciated, foliated	12636	24.00-25.00	1.00	3.690	2.40	120.0	1640.0	148.0	1164.0	30.0
		cleavage, foliation 45°:hematite stringers 25°	12637	25.00-26.00	1.00	8.920	1.00	101.0	627.0	102.0	986.0	132.0
		Frs=10/m :Vns =8/m	12638	26.00-27.00	1.00	0.100	0.30	40.0	206.0	47.0	287.0	32.0
		Trace SI patches	12639	27.00-28.00	1.00	0.120	0.30	14.0	285.0	17.0	134.0	19.0
		Weak CL interstitial	12640	28.00-29.00	1.00	0.090	0.30	14.0	90.0	24.0	126.0	14.0
		Trace CB stockwork	12641	29.00-30.00	1.00	0.050	0.80	22.0	238.0	35.0	106.0	14.0
		Weak MT interstitial	12642	30.00-31.00	1.00	0.050	0.30	25.0	199.0	10.0	106.0	22.0
		Trace PY disseminated	12643	31.00-32.00	1.00	0.040	0.30	28.0	248.0	23.0	117.0	22.0
		Trace QC stockwork	12644	32.00-33.00	1.00	0.060	0.30	32.0	527.0	24.0	109.0	17.0
		Trace QF vein	12645	33.00-34.00	1.00	0.280	0.40	18.0	334.0	17.0	95.0	65.0
40.70	45.00	tuff	12646	34.00-35.00	1.00	0.080	0.30	23.0	254.0	22.0	70.0	40.0
		Dark green, Brecciated, foliated	12647	35.00-36.00	1.00	0.810	0.30	25.0	523.0	26.0	65.0	28.0
		cleavage, foliation 35°:fracturing 35°	12648	36.00-37.00	1.00	0.360	0.30	31.0	553.0	24.0	61.0	20.0
		Frs=20/m :Vns =5/m	12649	37.00-38.00	1.00	0.310	0.30	13.0	218.0	10.0	79.0	3.0
		Trace SI patches	12650	38.00-39.00	1.00	0.260	0.30	26.0	780.0	39.0	65.0	11.0
		Weak CL interstitial	12651	39.00-40.00	1.00	0.050	2.40	28.0	295.0	41.0	69.0	15.0
		Trace CB stockwork	12652	40.00-41.00	1.00	2.250	0.30	44.0	255.0	62.0	128.0	59.0
		Trace MT microveins	12653	41.00-42.00	1.00	0.040	0.30	26.0	91.0	75.0	109.0	12.0
		Weak HE patches	12654	42.00-43.00	1.00	0.230	0.30	16.0	84.0	40.0	97.0	9.0
		Trace PY disseminated	12655	43.00-44.00	1.00	0.030	0.30	17.0	101.0	37.0	84.0	3.0

12/03/96

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Trace QC stockwork	12656	44.00-45.00	1.00	0.290	1.80	59.0	291.0	359.0	123.0	80.0
<41.00-41.20>		Intense PY vein										
<44.40-45.00>		Intense PY vein										
56.50	57.90	HEMATITE/CHLORITE ZONE	12657	45.00-46.00	1.00	0.120	1.50	105.0	524.0	163.0	70.0	20.0
		Veined	12658	46.00-47.00	1.00	0.070	1.10	34.0	272.0	67.0	62.0	14.0
		Moderate MT microveins	12659	47.00-48.00	1.00	0.060	0.90	32.0	232.0	70.0	80.0	7.0
		Moderate QF macroveins	12660	48.00-49.00	1.00	0.020	0.30	23.0	142.0	57.0	80.0	3.0
57.90	72.54	tuff	12661	49.00-50.00	1.00	0.030	0.30	23.0	237.0	55.0	66.0	3.0
		Foliated, fractured	12662	50.00-51.00	1.00	0.070	1.80	52.0	1014.0	135.0	47.0	20.0
		cleavage, foliation 35°:fracturing 40°	12663	51.00-52.00	1.00	0.060	0.30	17.0	159.0	70.0	47.0	4.0
		Frs=20/m :Vns =5/m	12664	52.00-53.00	1.00	0.030	0.30	11.0	169.0	26.0	44.0	3.0
(eoh)			12665	53.00-54.00	1.00	0.040	0.30	16.0	170.0	29.0	46.0	3.0
			12666	54.00-55.00	1.00	0.030	0.30	31.0	164.0	48.0	45.0	3.0
			12667	55.00-56.00	1.00	0.040	0.30	29.0	225.0	49.0	54.0	3.0
			12668	56.00-57.00	1.00	0.510	0.30	64.0	482.0	69.0	98.0	4.0
			12669	57.00-58.00	1.00	0.280	0.30	36.0	225.0	49.0	53.0	3.0
			12670	58.00-59.00	1.00	0.090	0.30	17.0	238.0	56.0	84.0	3.0
			12671	59.00-60.00	1.00	0.020	0.30	25.0	171.0	49.0	147.0	3.0
			12672	60.00-61.00	1.00	0.080	0.30	24.0	192.0	57.0	103.0	3.0
			12673	61.00-62.50	1.50	0.070	0.30	36.0	444.0	141.0	61.0	4.0
			12574	62.50-64.00	1.50	0.060	0.30	40.0	557.0	148.0	53.0	3.0
			12675	64.00-65.50	1.50	0.050	0.30	34.0	427.0	143.0	70.0	3.0
			12676	65.50-67.00	1.50	0.110	0.30	18.0	240.0	97.0	55.0	5.0
			12677	67.00-68.50	1.50	0.080	0.30	16.0	255.0	68.0	60.0	6.0
			12678	68.50-70.00	1.50	1.060	0.30	81.0	559.0	139.0	155.0	21.0
			12679	70.00-71.50	1.50	1.820	0.30	65.0	359.0	108.0	81.0	14.0

12/03/96

Hole: CL95-10 GEOTECHNICAL DATA Page: 1

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

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL95-11

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL95-11	Date Completed:		Geotech by: AW
LENGTH: 64.00	Core Diam: BQTK		

Collar Location

Latitude:	2058.49
Departure:	1990.17
Elevation:	1406.98

S U M M A R Y

0.00-2.00	CASING
2.00-29.48	HEMATITE/CHLORITE ZONE *
29.48-33.70	ANDESITE
33.70-48.10	HEMATITE/CHLORITE ZONE *
48.10-64.00	tuff

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	200.00	-55.00	BRUNTON

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	2.00	CASING										
2.00	29.48	HEMATITE/CHLORITE ZONE	12682	3.00-4.00	1.00	0.110	0.30	19.0	281.0	16.0	40.0	8.0
		Fine grained, redish-green, foliated, veined	12683	4.00-5.00	1.00	0.060	0.30	34.0	185.0	11.0	47.0	3.0
		cleavage, foliation 45°:fracturing 30°	12684	5.00-6.00	1.00	2.520	0.30	120.0	147.0	35.0	45.0	5.0
		Frs=10/m :Vns =50/m	12685	6.00-7.00	1.00	0.360	0.30	93.0	77.0	24.0	56.0	4.0
		Trace SI patches	12686	7.00-8.00	1.00	0.120	0.30	32.0	126.0	15.0	52.0	3.0
		Weak CL vein	12687	8.00-9.00	1.00	0.040	0.30	15.0	128.0	12.0	39.0	5.0
		Weak CB stockwork	12688	9.00-10.00	1.00	0.030	0.30	14.0	87.0	16.0	42.0	3.0
		Moderate MT stockwork	12689	10.00-11.00	1.00	0.020	0.30	13.0	78.0	12.0	36.0	3.0
		Trace HE patches	12690	11.00-12.00	1.00	0.030	0.30	13.0	101.0	13.0	37.0	3.0
		Trace PY disseminated	12691	12.00-13.00	1.00	0.060	0.30	13.0	121.0	8.0	44.0	3.0
		Weak QC stockwork	12692	13.00-14.00	1.00	0.070	0.30	18.0	113.0	11.0	52.0	5.0
		Moderate QF stockwork	12693	14.00-15.00	1.00	0.130	0.30	26.0	123.0	19.0	70.0	4.0
<2.00-29.48>		Mega Breccia [100%]	12694	15.00-16.00	1.00	2.520	0.30	73.0	1353.0	13.0	54.0	8.0
		1 % sphalerite - disseminated	12695	16.00-17.00	1.00	77.730	1.80	57.0	1357.0	104.0	100.0	26.0
		1 % arsenopyrite - stockwork	12696	17.00-18.00	1.00	16.830	0.30	143.0	242.0	34.0	209.0	8.0
		1 % Hematite - coatings	12697	18.00-19.00	1.00	6.720	0.30	158.0	415.0	94.0	115.0	17.0
29.48	33.70	ANDESITE	12698	19.00-20.00	1.00	42.930	0.30	117.0	260.0	177.0	218.0	37.0
		Fine grained, dark green, veined, chilled margin	12699	20.00-21.00	1.00	6.520	0.30	184.0	139.0	24.0	344.0	13.0
		contact 15°:fracturing 35°	12700	21.00-22.00	1.00	1.050	2.20	58.0	2853.0	25.0	107.0	4.0
		Frs=8/m :Vns =10/m	12701	22.00-23.00	1.00	0.510	4.00	36.0	4868.0	16.0	56.0	4.0
		Moderate SI patches	12702	23.00-24.00	1.00	0.480	3.00	36.0	3623.0	22.0	58.0	6.0
		Trace CL interstitial	12703	24.00-25.00	1.00	0.250	0.30	30.0	636.0	24.0	61.0	6.0
		Weak CB stockwork	12704	25.00-26.00	1.00	0.320	1.20	58.0	1629.0	57.0	88.0	3.0
		Trace MT patches	12705	26.00-27.00	1.00	0.120	0.30	132.0	358.0	67.0	136.0	14.0
		Trace HE patches	12706	27.00-28.00	1.00	16.730	5.10	76.0	7915.0	106.0	122.0	108.0
		Trace PY disseminated	12707	28.00-29.48	1.48	5.140	8.00	270.0	13269.0	245.0	219.0	21.0
		Weak QC stockwork	12708	29.48-31.00	1.52	0.180	0.50	21.0	674.0	23.0	111.0	9.0
		Trace QF vein	12709	31.00-33.00	2.00	0.060	0.30	16.0	205.0	17.0	113.0	14.0
33.70	48.10	HEMATITE/CHLORITE ZONE	12710	33.00-34.00	1.00	0.130	0.30	16.0	583.0	21.0	101.0	22.0
		Fine grained, redish-green, foliated, Brecciated	12711	34.00-35.00	1.00	0.090	0.40	23.0	2360.0	30.0	69.0	18.0
		cleavage, foliation 45°:fracturing 30°	12712	35.00-36.00	1.00	0.050	0.30	18.0	260.0	9.0	81.0	28.0
		Frs=8/m :Vns =25/m	12713	36.00-37.00	1.00	0.340	0.30	92.0	468.0	75.0	202.0	18.0
		Trace SI patches	12714	37.00-38.00	1.00	1.810	3.10	368.0	7343.0	383.0	289.0	6.0
		Weak CL stockwork	12715	38.00-39.00	1.00	76.560	4.70	54.0	735.0	141.0	87.0	5.0
		Trace CB stockwork	12716	39.00-40.00	1.00	36.690	3.70	61.0	1543.0	124.0	75.0	3.0
		Moderate MT stockwork	12717	40.00-41.00	1.00	7.040	0.50	54.0	852.0	48.0	92.0	6.0
		Trace HE patches	12718	41.00-42.00	1.00	0.260	0.30	27.0	496.0	14.0	81.0	3.0
		Trace QF vein	12719	42.00-43.00	1.00	0.480	3.30	59.0	4360.0	40.0	83.0	3.0
<33.70-48.10>		Mega Breccia [100%]	12720	43.00-44.00	1.00	0.820	0.30	63.0	1464.0	43.0	73.0	7.0
		1 % sphalerite - disseminated	12721	44.00-45.00	1.00	0.210	0.30	64.0	685.0	35.0	71.0	17.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		1 % arsenopyrite - microveins	12722	45.00-46.00	1.00	0.080	0.30	45.0	1906.0	23.0	58.0	30.0
		1 % Hematite - coatings	12723	46.00-47.00	1.00	0.060	0.30	61.0	421.0	52.0	98.0	5.0
48.10	64.00	tuff	12724	47.00-48.30	1.30	1.210	0.30	59.0	420.0	52.0	122.0	7.0
		Fine grained, dark green, sheared, Brecciated	12725	48.30-50.00	1.70	0.110	0.30	16.0	89.0	30.0	63.0	5.0
		cleavage, foliation 45°:fracturing 30°	127266	50.00-51.50	1.50	0.810	0.30	25.0	58.0	43.0	38.0	3.0
		Frs=15/m :Vns =40/m	12726	51.50-53.00	1.50	0.490	0.30	35.0	193.0	52.0	45.0	7.0
		Trace SI patches	12727	53.00-54.50	1.50	0.040	0.30	20.0	83.0	26.0	60.0	3.0
		Trace CL interstitial	12728	54.50-56.00	1.50	0.040	0.30	13.0	99.0	12.0	48.0	3.0
		Weak CB stockwork	12729	56.00-57.50	1.50	0.030	0.30	17.0	162.0	27.0	55.0	4.0
		Trace MT patches	12730	57.50-59.00	1.50	0.260	0.30	21.0	249.0	30.0	63.0	3.0
		Trace HE patches	12731	59.00-60.50	1.50	0.220	0.30	14.0	170.0	16.0	49.0	3.0
		Trace PY microveins	12732	60.50-62.00	1.50	0.040	0.30	18.0	90.0	37.0	60.0	3.0
		Weak QC stockwork										
		Trace QF vein										
(eoh)												

12/03/96

Hole: CL95-11 GEOTECHNICAL DATA Page: 1

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

HOMESTAKE MINING COMPANY | DRILL HOLE LOG | CL95-12

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL95-12	Date Completed:		Geotech by: AW
LENGTH: 76.20	Core Diam: BQTK		

Collar Location	
Latitude:	2059.16
Departure:	1990.34
Elevation:	1406.95

S U M M A R Y

0.00-1.60	CASING
1.60-35.83	HEMATITE/CHLORITE ZONE *
35.83-40.70	ANDESITE
40.70-55.00	HEMATITE/CHLORITE ZONE *
55.00-76.20	tuff

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	200.00	-65.00	BRUNTON

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	1.60	CASING										
1.60	35.83	HEMATITE/CHLORITE ZONE	12735	3.00-4.00	1.00	0.320	1.00	52.0	795.0	26.0	59.0	4.0
		Fine grained, redish-green, veined, foliated	12736	4.00-5.00	1.00	0.920	0.30	181.0	93.0	42.0	96.0	6.0
		Trace SI patches	12737	5.00-6.00	1.00	3.150	0.30	111.0	120.0	84.0	63.0	19.0
		Weak CL stockwork	12738	6.00-7.00	1.00	0.050	0.30	163.0	122.0	37.0	82.0	6.0
		Weak CB stockwork	12739	7.00-8.00	1.00	0.070	0.30	210.0	59.0	26.0	86.0	4.0
		Moderate MT stockwork	12740	8.00-9.00	1.00	1.540	0.30	72.0	92.0	49.0	37.0	8.0
		Trace HE patches	12741	9.00-10.00	1.00	0.080	0.30	88.0	81.0	22.0	65.0	6.0
		Trace PY vein	12742	10.00-11.00	1.00	0.040	0.30	47.0	97.0	14.0	68.0	9.0
		Weak QF stockwork	12743	11.00-12.00	1.00	0.060	0.30	50.0	97.0	19.0	92.0	5.0
<1.60-35.83>		Mega Breccia (100%)	12744	12.00-13.00	1.00	0.040	0.30	26.0	93.0	9.0	61.0	5.0
		1 % Hematite - coatings	12745	13.00-14.00	1.00	0.040	0.30	20.0	116.0	12.0	45.0	5.0
35.83	40.70	ANDESITE	12746	14.00-15.00	1.00	0.030	0.30	27.0	98.0	4.0	65.0	4.0
		Fine grained, dark green, chilled margin, veined	12747	15.00-16.00	1.00	0.020	0.30	15.0	202.0	4.0	44.0	3.0
		Frs=2/m :Vns =2/m	12748	16.00-17.00	1.00	0.020	0.30	15.0	194.0	9.0	44.0	3.0
		Trace CL disseminated	12749	17.00-18.00	1.00	0.680	0.30	14.0	316.0	13.0	34.0	6.0
		Trace CB stockwork	12750	18.00-19.00	1.00	0.260	0.30	50.0	107.0	9.0	56.0	3.0
		Trace PY disseminated	12751	19.00-20.00	1.00	1.080	0.30	39.0	101.0	13.0	55.0	7.0
		Trace QC stockwork	12752	20.00-21.00	1.00	0.560	0.30	82.0	104.0	44.0	57.0	23.0
40.70	55.00	HEMATITE/CHLORITE ZONE	12753	21.00-22.00	1.00	0.350	0.30	82.0	82.0	21.0	69.0	5.0
		Fine grained, redish-green, veined, foliated	12754	22.00-23.00	1.00	0.070	0.30	22.0	155.0	19.0	63.0	23.0
		cleavage, foliation 25°:hematite stringers 20°	12755	23.00-24.00	1.00	0.060	0.40	24.0	1939.0	46.0	72.0	27.0
		Frs=4/m :Vns =40/m	12756	24.00-25.00	1.00	0.080	0.30	25.0	556.0	37.0	74.0	42.0
		Trace SI patches	12757	25.00-26.00	1.00	0.040	0.30	18.0	101.0	9.0	47.0	4.0
		Weak CL pervasive	12759	26.00-27.00	1.00	0.100	0.50	34.0	393.0	28.0	67.0	3.0
		Weak CB stockwork	12760	27.00-28.00	1.00	0.290	0.30	31.0	99.0	15.0	88.0	3.0
		Weak MT pervasive	12761	28.00-29.00	1.00	0.020	0.30	14.0	89.0	13.0	99.0	5.0
		Trace HE patches	12758	29.00-30.00	1.00	0.050	0.30	68.0	69.0	23.0	108.0	8.0
		Trace PY disseminated	12762	30.00-31.00	1.00	0.030	0.30	26.0	89.0	15.0	120.0	4.0
		Weak QC stockwork	12763	31.00-32.00	1.00	0.030	0.30	23.0	140.0	18.0	76.0	3.0
		Weak QF stockwork	12764	32.00-33.00	1.00	0.040	0.30	25.0	159.0	17.0	73.0	8.0
<40.70-55.00>		Mega Breccia (100%)	12765	33.00-34.00	1.00	0.120	0.30	26.0	101.0	15.0	76.0	3.0
		1 % sphalerite - disseminated	12766	34.00-35.00	1.00	0.020	0.30	22.0	441.0	5.0	82.0	3.0
		1 % Hematite - coatings	12767	35.00-35.80	0.80	0.120	0.30	27.0	140.0	9.0	107.0	3.0
55.00	76.20	tuff	12768	35.80-38.00	2.20	0.010	0.30	12.0	43.0	18.0	110.0	11.0
		Fine grained, dark green, foliated, veined	12769	38.00-40.70	2.70	0.010	0.30	12.0	27.0	16.0	112.0	12.0
		cleavage, foliation 25°:fracturing 55°	12770	40.70-42.00	1.30	1.450	1.00	30.0	226.0	28.0	85.0	13.0
		Frs=15/m :Vns =20/m	12771	42.00-43.00	1.00	0.040	0.30	24.0	430.0	9.0	123.0	4.0
		Trace SI patches	12772	43.00-44.00	1.00	0.030	0.40	19.0	605.0	9.0	128.0	3.0
		Trace CL microveins	12773	44.00-45.00	1.00	0.610	0.60	31.0	374.0	8.0	64.0	3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak CB stockwork	12774	45.00-46.00	1.00	1.820	0.70	64.0	140.0	8.0	67.0	4.0
		Trace MT patches	12775	46.00-47.00	1.00	0.060	0.30	26.0	223.0	10.0	181.0	3.0
		Trace HE patches	12776	47.00-48.00	1.00	2.700	3.10	25.0	3926.0	10.0	214.0	5.0
		Trace PY disseminated	12777	48.00-49.00	1.00	0.460	0.30	70.0	146.0	45.0	374.0	5.0
		Weak QC stockwork	12778	49.00-50.00	1.00	0.210	0.30	43.0	268.0	20.0	313.0	9.0
		Trace QF microveins	12779	50.00-51.00	1.00	0.090	0.30	19.0	201.0	11.0	207.0	3.0
(eoh)			12780	51.00-52.00	1.00	0.050	0.30	26.0	619.0	11.0	194.0	3.0
			12781	52.00-53.00	1.00	0.400	0.40	50.0	628.0	37.0	138.0	8.0
			12782	53.00-54.00	1.00	0.060	0.30	19.0	207.0	23.0	70.0	11.0
			12783	54.00-55.00	1.00	0.020	0.30	11.0	162.0	10.0	44.0	22.0
			12784	55.00-56.00	1.00	0.030	0.30	24.0	210.0	29.0	100.0	11.0
			12785	56.00-57.50	1.50	0.030	0.30	22.0	84.0	30.0	104.0	5.0
			12786	57.50-59.00	1.50	0.030	0.30	28.0	196.0	42.0	98.0	5.0
			12787	59.00-60.50	1.50	0.050	0.30	29.0	205.0	45.0	92.0	3.0
			12788	60.50-62.00	1.50	0.020	0.30	25.0	99.0	33.0	83.0	3.0
			12789	62.00-63.50	1.50	0.020	0.30	25.0	120.0	43.0	79.0	3.0
			12790	63.50-65.00	1.50	0.040	0.30	25.0	99.0	43.0	71.0	3.0
			12791	65.00-66.50	1.50	0.050	0.50	35.0	389.0	49.0	75.0	7.0
			12792	66.50-68.00	1.50	0.040	0.30	30.0	143.0	32.0	91.0	3.0
			12793	68.00-69.50	1.50	0.040	0.30	33.0	132.0	20.0	90.0	3.0
			12794	69.50-71.00	1.50	0.020	0.30	19.0	61.0	18.0	77.0	5.0
			12795	71.00-72.50	1.50	0.170	0.30	55.0	151.0	26.0	82.0	7.0
			12796	72.50-74.00	1.50	0.050	0.40	31.0	238.0	30.0	94.0	3.0

12/03/96

Hole: CL95-12 GEOTECHNICAL DATA Page: 1

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

HOMESTAKE MINING COMPANY | DRILL HOLE LOG | CL95-13

PROJECT: Clone	Date Commenced:	Contractor: JT THOMAS	Logged by: ERK
DRILL HOLE: CL95-13	Date Completed:		Geotech by: AW
LENGTH: 97.54	Core Diam: BQTK		

Collar Location

Latitude:	2059.16
Departure:	1990.34
Elevation:	1406.95

S U M M A R Y

0.00-1.40	CASING
1.40-50.40	HEMATITE/CHLORITE ZONE *
50.40-55.25	ANDESITE
55.25-97.54	tuff

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	200.00	-75.00	BRUNTON

HOLE: CL95-13

HOMESTAKE MINING COMPANY - Clone

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	1.40	CASING										
1.40	50.40	HEMATITE/CHLORITE ZONE	12799	2.00-3.00	1.00	0.020	0.30	96.0	126.0	17.0	91.0	3.0
		Fine grained, redish-green, vuggy, sheared	12800	3.00-4.00	1.00	1.060	0.40	412.0	97.0	75.0	178.0	6.0
		fracturing 45°:hematite stringers 20°	12801	4.00-5.00	1.00	1.460	0.60	254.0	223.0	102.0	120.0	14.0
		Frs=6/m :Vns =50/m	12802	5.00-6.00	1.00	0.380	0.30	62.0	110.0	16.0	60.0	3.0
		Trace SI patches	12803	6.00-7.00	1.00	0.260	0.30	173.0	99.0	53.0	63.0	5.0
		Moderate CL stockwork	12804	7.00-8.00	1.00	0.050	0.30	60.0	81.0	25.0	50.0	3.0
		Trace CB stockwork	12805	8.00-9.00	1.00	0.810	0.30	16.0	138.0	39.0	54.0	5.0
		Moderate MT stockwork	12806	9.00-10.00	1.00	0.940	0.30	85.0	101.0	39.0	147.0	6.0
		Weak HE patches	12807	10.00-11.00	1.00	0.120	0.50	34.0	178.0	16.0	79.0	6.0
		Trace PY disseminated	12808	11.00-12.00	1.00	0.040	0.30	12.0	70.0	15.0	58.0	5.0
		Weak QC stockwork	12809	12.00-13.00	1.00	0.650	0.30	22.0	29.0	6.0	102.0	3.0
		Weak QF vein	12810	13.00-14.00	1.00	0.030	0.30	7.0	45.0	20.0	54.0	4.0
<1.40-50.40>		Mega Breccia [100%]	12811	14.00-15.00	1.00	0.030	0.30	19.0	29.0	12.0	80.0	3.0
		1 % sphalerite - disseminated	12812	15.00-16.00	1.00	0.030	0.30	15.0	23.0	10.0	76.0	6.0
		1 % Hematite - coatings	12813	16.00-17.00	1.00	0.060	0.30	18.0	36.0	10.0	97.0	5.0
50.40	55.25	ANDESITE	12814	17.00-18.00	1.00	0.020	0.30	14.0	29.0	11.0	83.0	3.0
		Fine grained, dark green, chilled margin, veined	12815	18.00-19.00	1.00	0.030	0.30	19.0	37.0	15.0	71.0	3.0
		Trace CL interstitial	12816	19.00-20.00	1.00	0.020	0.30	18.0	33.0	14.0	67.0	4.0
		Trace CB stockwork	12817	20.00-21.00	1.00	0.030	0.30	6.0	40.0	12.0	33.0	3.0
		Trace PY disseminated	12818	21.00-22.00	1.00	0.010	0.30	5.0	30.0	12.0	42.0	5.0
		Trace QC stockwork	12819	22.00-23.00	1.00	0.020	0.30	10.0	45.0	12.0	104.0	3.0
55.25	97.54	tuff	12820	23.00-24.00	1.00	0.040	0.30	14.0	57.0	11.0	148.0	5.0
		Fine-coarse grained, dark green, foliated, Brecciated	12821	24.00-25.00	1.00	0.020	0.30	7.0	32.0	10.0	132.0	3.0
		Trace SI patches	12822	25.00-26.00	1.00	0.020	0.30	7.0	28.0	12.0	129.0	3.0
		Trace CL disseminated	12823	26.00-27.00	1.00	0.180	0.30	26.0	48.0	18.0	152.0	3.0
		Weak CB stockwork	12824	27.00-28.00	1.00	0.060	0.30	12.0	39.0	10.0	120.0	3.0
		Trace MT vein	12825	28.00-29.00	1.00	0.070	0.30	7.0	197.0	11.0	148.0	9.0
		Trace HE patches	12826	29.00-30.00	1.00	0.050	0.30	7.0	47.0	16.0	161.0	5.0
<73.70-74.30>		FAULT ZONE	12827	30.00-31.00	1.00	0.100	0.30	8.0	57.0	15.0	144.0	5.0
		Broken	12828	31.00-32.00	1.00	0.040	0.30	9.0	50.0	15.0	129.0	6.0
(eoh)												

12/03/96

Hole: CL95-13 GEOTECHNICAL DATA Page: 1

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

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-14

PROJECT: Clone	Date Commenced: 22/06/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-14	Date Completed: 23/06/96		Geotech by: MBW
LENGTH: 157.08	Core Diam: BQTK		

Collar Location

Latitude:	1892.84
Departure:	2001.93
Elevation:	1321.15

S U M M A R Y

0.00-1.17	CASING
1.17-11.00	Hornblende Feldspar xtalline **
11.00-13.10	Hornblende Feldspar xtalline *
13.10-29.00	Hornblende Feldspar xtalline *
29.00-57.00	Hornblende Feldspar xtalline ***
57.00-64.50	Hornblende Feldspar xtalline
64.50-89.00	Biotite Hbl Fdsp xtalline **
89.00-120.25	Hornblende Feldspar xtalline **
120.25-136.40	Biotite Hbl Fdsp xtalline *
136.40-148.85	volcaniclastics **
148.85-157.08	tuff *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	270.00	-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	1.17	CASING Casing.										
1.17	11.00	Hornblende Feldspar xtalline Fine grained, green, porphyritic Frs=12/m :Vns =2/m Strong CL pervasive Moderate CB microveins HFxl mottled medium to dark green HFxl with 10% observatory subhedral Hornblende phenos, cream to pale green, strong pervasive chlorite, weak local discreet zones of fluid streaming; strong weak, wispy hematite locally surrounding autobrecciated fragments, veins to 1cm. with chlorite and calcite. Calcite as weak pervasive and moderate irregular veins and fracture fill. MINERALIZATION- local pyrite to 1% with trace arsenopyrite as irregular patches and disseminated.	45082	2.00-2.50	0.50	25.320	2.40	117.0	24.0	145.0	143.0	1.0
			45083	2.50-4.00	1.50	0.040	0.80	59.0	14.0	40.0	83.0	1.0
			45084	4.00-5.50	1.50	0.010	1.00	89.0	165.0	60.0	65.0	1.0
			45085	5.50-7.00	1.50	0.005	0.80	84.0	9.0	60.0	51.0	1.0
			45086	7.00-8.50	1.50	0.005	0.80	57.0	18.0	30.0	60.0	1.0
			45087	8.50-10.00	1.50	0.005	0.80	32.0	52.0	15.0	46.0	1.0
	<1.17-3.40>	MINERALIZATION- 10% hematite.										
	<1.17-11.00>	MINERALIZATION- Local pyrite to 1% with arsenopyrite as irregular patches and disseminated.										
	<1.17-3.40>	Hornblende Feldspar xtalline Strong pervasive hematite. MINERALIZATION- 10% hematite.										
	<3.40-4.60>	Chlorite Streaming Zone of intense chlorite fluid streaming.										
	<4.00-5.00>	Broken Core GBCR rubbly broken core.										
11.00	13.10	Hornblende Feldspar xtalline Fine grained, dark gray, auto brecciated, porphyritic Frs=6/m :Vns =80/m Strong CL pervasive Strong CB macroveins Strong KS pervasive Strong HE stockwork Weak SE macroveins Strong QV microveins Zone of strong hematite and chlorite brecciated HFxl with strong pervasive and fracture fill calcite. Weak local specularite as irregular veins to 3cm. MINERALIZATION- 5% hematite, 1% specularite, trace	45088	10.00-11.50	1.50	0.240	1.00	59.0	82.0	35.0	52.0	1.0
			45089	11.50-13.00	1.50	0.005	1.40	65.0	321.0	35.0	57.0	1.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		calcopyrite.										
		<11.00-13.10>MINERALIZATION- 5% hematite, 1% specularite, trace pyrite.										
		<12.30-12.35> hematite specularite vein ?? HE vein 4cm. hematite, specularite vein with trace calcopyrite at 50 degrees.										
13.10	29.00	Hornblende Feldspar xtalline	45090	13.00-14.50	1.50	0.710	1.00	129.0	33.0	120.0	71.0	1.0
		Aphanitic, green, porphyritic	45091	14.50-16.00	1.50	0.030	1.00	60.0	327.0	65.0	77.0	1.0
		Frs=40/m :Vns =2/m	45092	16.00-17.50	1.50	0.210	0.10	149.0	48.0	155.0	102.0	1.0
		Moderate CL pervasive	45093	17.50-19.00	1.50	0.300	1.20	48.0	192.0	35.0	108.0	1.0
		Weak CB microveins	45094	19.00-20.50	1.50	1.400	1.40	124.0	71.0	105.0	147.0	1.0
		Moderate KS pervasive	45095	20.50-22.00	1.50	1.150	1.20	113.0	279.0	85.0	126.0	14.0
		Trace HE stockwork	45096	22.00-23.50	1.50	1.090	1.20	103.0	314.0	90.0	129.0	1.0
		Weak CV microveins	45097	23.50-25.00	1.50	0.605	1.00	540.0	103.0	525.0	184.0	1.0
		Medium green massive HFxl with 20% dark green flow	45098	25.00-26.50	1.50	1.020	1.20	260.0	479.0	265.0	131.0	1.0
		banded subhedral hornblende phenos to 2mm. ALTERATION-	45099	26.50-28.00	1.50	0.010	0.80	73.0	172.0	70.0	96.0	1.0
		moderately pervasive K-spar weak-moderate pervasive	45100	28.00-29.00	1.00	0.045	0.80	32.0	73.0	40.0	58.0	2.0
		chlorite, weak-moderate pervasive and fracture fill										
		calcite, weak limonite fracture fill, weak-absent										
		stockwork hematite. STRUCTURE- broken core with gouge										
		fracture fill from 18.3 to 28.3. MINERALIZATION- trace										
		to 1% disseminated and fracture fill pyrite.										
		<13.10-29.00> ?? MT disseminated MINERALIZATION- Trace to 1% disseminated and fracture fill pyrite.										
		<18.30-23.30> rubbly fault zone Frs=100/m Area of rubbly gougy broken core; most fractures at low angle to core access. Core logs.										
		<28.84-29.00> Hem-Spec-Chl vein Stockwork, Brecciated macroveins 35° Hematite, specularite, chlorite, calcite veins to 3cm at 35 degrees, with autobrecciated HFxl carried by fine grained hematite.										
29.00	57.00	Hornblende Feldspar xtalline	45051	29.00-30.00	1.00	0.085	1.00	19.0	154.0	2.5	83.0	1.0
		Fine grained, redish-green, auto brecciated, porphyritic	45052	30.00-31.00	1.00	0.340	1.00	11.0	149.0	2.5	69.0	1.0
		hematite vein 35°:hematite vein 60°	45053	31.00-32.00	1.00	0.530	0.80	15.0	112.0	5.0	63.0	1.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Frs=10/m :Vns =20/m	45054	32.00-33.00	1.00	0.085	1.00	20.0	87.0	20.0	121.0	1.0
	?? CL pervasive	45055	33.00-34.00	1.00	0.040	0.80	18.0	45.0	15.0	74.0	1.0
	Moderate CB stockwork	45056	34.00-35.00	1.00	0.110	0.80	17.0	33.0	5.0	77.0	1.0
	Weak MS pervasive	45057	35.00-36.00	1.00	0.125	0.80	31.0	142.0	25.0	88.0	1.0
	Intense KS pervasive	45058	36.00-37.00	1.00	0.210	1.00	26.0	392.0	2.5	77.0	1.0
	Weak EP vein	45059	37.00-38.00	1.00	0.365	0.80	24.0	15.0	2.5	93.0	1.0
	Strong HE stockwork	45060	38.00-39.00	1.00	0.010	0.80	5.0	23.0	2.5	79.0	1.0
	Hematite chloritic autobrecciated fine grained	45061	39.00-40.00	1.00	0.050	0.60	6.0	3.0	2.5	90.0	1.0
	Hornblende,	45062	40.00-41.00	1.00	0.025	0.60	5.0	76.0	2.5	80.0	1.0
	feldspar bearing intrusive. Includes zones at intense	45063	41.00-42.00	1.00	0.075	0.80	9.0	39.0	25.0	46.0	1.0
	chlorite streaming and semi-massive pervasive	45064	42.00-43.00	1.00	0.045	1.00	5.0	22.0	30.0	49.0	1.0
	hematite. Subhedral medium green Hornblende phenos to	45065	43.00-44.00	1.00	0.140	0.60	9.0	8.0	20.0	45.0	1.0
	2mm. (30%). Commonly aligned 30 to 60 degrees to core	45066	44.00-45.00	1.00	0.045	0.80	9.0	25.0	45.0	46.0	1.0
	axis. Hematite as massive pervasive sections to 80cm.	45067	45.00-46.00	1.00	0.030	1.00	7.0	44.0	25.0	50.0	1.0
	irregular stockwork and veins to 4cm. with calcite,	45068	46.00-47.00	1.00	0.010	1.00	11.0	96.0	30.0	56.0	1.0
	chlorite, and specularite +/- section from 30 to 40	45069	47.00-48.00	1.00	0.005	0.80	13.0	3.0	10.0	75.0	1.0
	degrees, Strong chlorite as pervasive as fluid	45070	48.00-49.00	1.00	0.020	1.00	7.0	98.0	2.5	58.0	1.0
	streaming and fracture fill. Calcite as strong	45071	49.00-50.00	1.00	0.005	0.80	9.0	14.0	5.0	65.0	1.0
	fracture fill and veins with less pervasive at 70 to	45072	50.00-51.00	1.00	0.005	1.00	12.0	147.0	2.5	82.0	1.0
	90 degrees, irregular calcite, chlorite fractures	45073	51.00-52.00	1.00	0.120	0.80	21.0	34.0	5.0	96.0	1.0
	cross cutting hematite veins. MINERALIZATION- trace to	45074	52.00-53.00	1.00	1.280	1.20	49.0	565.0	40.0	159.0	1.0
	1% to absent, fine grained to medium grained pyrite,	45075	53.00-54.00	1.00	0.540	1.00	165.0	395.0	175.0	164.0	1.0
	trace calcopyrite within hematite veins.	45076	54.00-55.00	1.00	0.060	0.60	29.0	42.0	2.5	114.0	1.0
<29.00-57.00>	?? MT fine grained	45077	55.00-56.00	1.00	0.045	1.80	57.0	547.0	5.0	117.0	1.0
	MINERALIZATION- Trace to 1% to absent fine grained to	45078	56.00-57.00	1.00	0.610	0.80	78.0	87.0	25.0	182.0	1.0
	medium grained pyrite, trace calcopyrite within										
	hematite veins.										
<29.01-36.50>	Hem-Spec-Chl vein										
	Stockwork, Brecciated										
	macroveins 35°										
	D.A.P. 28.84 to 29.0										
<32.00-32.05>	macroveins 35°										
	3cm calcite, hematite, specularite vein at 40 degrees.										
<32.05-34.00>	MINERALIZATION- 0.3% calcopyrite, 15% hematite, 5%										
	specularite										
<32.05-34.00>	hematite specularite vein										
	macroveins 30°										
	Hematite, specularite, calcite, pyrite veins at 30										
	degrees. MINERALIZATION- 0.3% calcopyrite, 15%										
	hematite, 5% specularite.										
<36.50-39.30>	Chlorite Streaming										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Auto-brecciated foliated 40° Intense CL pervasive Strong chlorite fluid streaming, weakly foliated at 40 degrees.										
<38.13-39.10>		Broken Core fracturing 30° Broken core with limonite fracture fill. Generally at a high angle to core axis.										
<39.60-40.60>		MINERALIZATION- Trace pyrite, calcopyrite, magnetic specularite.										
<39.60-40.60>		Semi-massive hematite Dark red macroveins 40° ?? CB microveins Intense HE pervasive Moderate SE microveins Zone of semi-massive hematite, with lesser specularite, weak-strong pervasive calcite and K-spar. MINERALIZATION- trace pyrite, calclpyrite, magnetic specularite.										
<47.00-49.00>		Hornblende Feldspar xtalline foliated 35° Moderate CL pervasive HFxl with fluid streaming at 35 degrees to core axis, moderate pervasive sericite.										
<48.75-48.85>		hematite specularite vein vein 60° Hematite vein with lesser pyrite, calcite, and specularite.										
<50.30-56.60>		Hematite chlorite calcite vein macroveins 30° Moderate HE macroveins Chlorite, hematite, calcite veins to 4cm, from 30 to 40 degrees. One per meter.										
57.00	64.50	Hornblende Feldspar xtalline Aphanitic, grayish-green, porphyritic foliated 30° Frs=10/m :Vns =2/m Moderate CL macroveins	45079 45080 45101 45102 45103	57.00-58.00 58.00-59.00 59.00-60.50 60.50-62.00 62.00-63.50	1.00 1.00 1.50 1.50 1.50	0.300 0.090 0.020 0.095 0.880	1.40 1.60 1.00 0.80 2.60	34.0 460.0 27.0 109.0 490.0	286.0 261.0 107.0 106.0 1022.0	2.5 240.0 35.0 90.0 360.0	134.0 157.0 65.0 74.0 121.0	1.0 1.0 1.0 1.0 1.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate CB pervasive										
		Moderate KS pervasive										
		Moderate CV macroveins										
		Moderate grey to green HFxl with 25% cream subhedral										
		Hornblende phenos, very fine grained groundmass.										
		ALTERATION- moderate-strong chlorite stream, pervasive										
		and fracture fill calcite. Moderate pervasive K-spar										
		calcite veins to 3cm., One per meter.										
	<63.70-64.50>	Broken Core										
		fracturing 20°										
		Broken core with limonite fracture.										
64.50	89.00	Biotite Hbl Fdsp xtalline	45104	63.50-65.00	1.50	0.580	1.80	148.0	454.0	195.0	88.0	1.0
		Fine grained, green, porphyritic	45105	65.00-66.50	1.50	0.015	1.00	21.0	53.0	140.0	86.0	1.0
		microveins 80°:macroveins 80°	45106	66.50-68.00	1.50	0.005	1.00	28.0	49.0	410.0	75.0	1.0
		Frs=6/m :Vns =50/m	45107	68.00-69.50	1.50	0.005	1.20	16.0	42.0	270.0	63.0	1.0
		Weak CL pervasive	45108	69.50-71.00	1.50	0.005	0.40	3.0	1.0	60.0	46.0	1.0
		Strong CB stockwork	45109	71.00-72.50	1.50	0.010	1.00	12.0	61.0	195.0	88.0	8.0
		Moderate MS pervasive	45110	72.50-74.00	1.50	0.005	1.40	12.0	142.0	95.0	58.0	1.0
		Moderate KS pervasive	45111	74.00-75.50	1.50	0.005	1.60	14.0	185.0	170.0	52.0	1.0
		Weak PY disseminated	45112	75.50-77.00	1.50	0.005	1.20	11.0	136.0	80.0	57.0	1.0
		Trace PR disseminated	45113	77.00-78.50	1.50	0.005	1.20	19.0	134.0	130.0	84.0	1.0
		Strong CV microveins	45114	78.50-80.00	1.50	0.005	0.80	25.0	73.0	335.0	69.0	1.0
		Medium green fine grained to medium grained BHFl with	45115	80.00-81.50	1.50	0.005	0.60	16.0	82.0	45.0	56.0	1.0
		10% euhedral cream chlorite, sericite alteration, Bi	45116	81.50-83.00	1.50	0.005	0.80	16.0	112.0	25.0	57.0	1.0
		phenos, 25% cream subhedral Hornblende needles, fine	45117	83.00-84.50	1.50	0.005	0.80	14.0	114.0	75.0	60.0	1.0
		grained to aphanitic matrix. ALTERATION- weak to	45118	84.50-86.00	1.50	0.005	0.60	12.0	116.0	40.0	58.0	1.0
		moderate pervasive sericite and chlorite strong	45119	86.00-87.50	1.50	0.010	0.80	22.0	163.0	235.0	76.0	1.0
		stockwork and veined calcite to 1cm. weak to moderate	45120	87.50-89.00	1.50	0.005	1.00	23.0	292.0	25.0	57.0	1.0
		K-spar alteration. MINERALIZATION- 2 to 4% wispy										
		disseminated pyrite, 1-2% disseminated pyrrhotite,										
		trace arsenopyrite.										
	<64.50-89.00>	Moderate MT disseminated										
		1 % pyrrhotite - disseminated										
		MINERALIZATION- 2-4% wispy disseminated pyrite, 1-2%										
		disseminated pyrrhotite, trace arsenopyrite.										
	<64.50-64.80>	Hornblende Feldspar xtalline										
		foliated 65°										
		Intense CL foliated										
		Strong CB foliated										
		Intensely chloritic and calcitic foliated HFxl? at 65										
		degrees. Possibly raft of sediments.										
	<78.50-79.10>	calcite vein										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		stockwork 35°										
		Moderate CL stockwork										
		Moderate CB stockwork										
		Strong intense calcite stockwork @ 35 degrees. Trace of chloritic gouge.										
	<87.15-87.23>	MINERALIZATION- 5% arsenopyrite, +/- 5% stib? 5% pyrrhotite within quartz, calcite, chlorite vein.										
	<87.15-87.23>	calcite vein										
		vein 80°										
		MINERALIZATION- 5% arsenopyrite, +/- 5% stib? 5% pyrrhotite within quartz/calcite/chlorite vein.										
89.00	120.25	Hornblende Feldspar xtalline	45121	89.00-90.50	1.50	0.015	0.60	28.0	327.0	40.0	66.0	1.0
		Fine grained, dark green, porphyritic	45122	90.50-92.00	1.50	0.005	0.40	24.0	249.0	35.0	63.0	1.0
		stockwork 70°	45123	92.00-93.50	1.50	0.005	1.00	22.0	367.0	55.0	87.0	1.0
		Frs=6/m :Vns =50/m	45124	93.50-95.00	1.50	0.010	0.60	23.0	217.0	55.0	71.0	1.0
		Trace SI pervasive	45125	95.00-96.50	1.50	0.035	1.20	100.0	162.0	2700.0	239.0	64.0
		Strong CL pervasive	45126	96.50-98.00	1.50	0.010	0.40	27.0	121.0	735.0	143.0	20.0
		Strong CB stockwork	45127	98.00-99.50	1.50	0.005	0.10	29.0	27.0	80.0	61.0	1.0
		Weak MS pervasive	45128	99.50-101.00	1.50	0.005	0.40	33.0	92.0	85.0	65.0	1.0
		Moderate KS pervasive	45129	101.00-102.50	1.50	0.005	0.10	27.0	137.0	50.0	53.0	1.0
		Weak PY disseminated	45130	102.50-104.00	1.50	0.005	0.20	33.0	162.0	60.0	57.0	1.0
		Weak PR disseminated	45131	104.00-105.50	1.50	0.005	0.10	30.0	21.0	40.0	64.0	1.0
		Strong CV microveins	45132	105.50-107.00	1.50	0.005	0.10	24.0	47.0	15.0	63.0	1.0
		Dark green porphyrytic mottled HFxl with 5 to 20%	45133	107.00-108.50	1.50	0.005	0.10	31.0	31.0	30.0	50.0	1.0
		subhedral clear to light green subhedral Hornblende	45134	108.50-110.00	1.50	0.010	0.10	30.0	97.0	2.5	66.0	1.0
		needles 0.5mm to 1.5mm fine grained matrix.	45135	110.00-111.50	1.50	0.005	0.10	34.0	184.0	50.0	75.0	1.0
		ALTERATION- strong pervasive and fracture fill	45136	111.50-113.00	1.50	0.005	0.10	37.0	227.0	95.0	82.0	1.0
		chlorite, weak pervasive sericite, strong stockwork	45137	113.00-114.50	1.50	0.005	0.20	35.0	225.0	195.0	84.0	1.0
		calcite, weak local epidote with calcite, moderate	45138	114.50-116.00	1.50	0.005	0.10	38.0	247.0	75.0	77.0	1.0
		local silica. MINERALIZATION- 1-3% pyrite, trace to 2%	45139	116.00-117.50	1.50	0.005	0.10	32.0	155.0	90.0	69.0	1.0
		pyrrhotite, trace arsenopyrite.	45140	117.50-119.00	1.50	0.005	0.10	33.0	137.0	10.0	70.0	1.0
	<89.00-120.25>	MINERALIZATION- 1-3% pyrite, trace to 2% pyrrhotite, trace arsenopyrite.										
	<95.16-95.20>	cave										
		Possible hole cave; no marker block.										
	<95.20-96.20>	MINERALIZATION- 2% arsenopyrite, 4% pyrite, 1% pyrrhotite.										
	<95.20-96.20>	QUARTZ-CALCITE VEINS										
		stockwork										
		Strong SI pervasive										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong CB stockwork										
		Calcite stockwork with strong pervasive silica; irregular orientation. MINERALIZATION- 2% arsenopyrite, 4% pyrite, 1% pyrrhotite.										
		<101.00-113.00> calcite vein										
		macroveins 75°										
		Irregular calcite stockwork, commonly oriented 70 to 80 degrees, commonly with epidote.										
		<103.20-103.50> Broken Core										
		fracturing 30°										
		STRUCTURE- weak broken, slightly rubbled core, dominant angle 30 degrees, trace to 1% gouge, weak limonite fracture fill.										
120.25	136.40	Biotite Hbl Fdsp xtalline	45141	119.00-120.50	1.50	0.005	0.10	30.0	121.0	20.0	77.0	1.0
		Green, porphyritic	45142	120.50-122.00	1.50	0.005	0.40	20.0	92.0	40.0	44.0	1.0
		stockwork 70°:stockwork 30°	45143	122.00-123.50	1.50	0.005	0.40	18.0	102.0	15.0	49.0	1.0
		Frs=6/m :Vns =30/m	45144	123.50-125.00	1.50	0.005	0.40	16.0	54.0	20.0	46.0	1.0
		Moderate CL pervasive	45145	125.00-126.50	1.50	0.005	0.20	17.0	36.0	30.0	45.0	1.0
		Strong CB stockwork	45146	126.50-128.00	1.50	0.200	1.20	27.0	129.0	80.0	94.0	1.0
		Moderate MS pervasive	45147	128.00-129.50	1.50	0.005	1.80	29.0	151.0	95.0	108.0	18.0
		Moderate KS pervasive	45148	129.50-131.00	1.50	0.020	1.60	39.0	156.0	290.0	64.0	10.0
		Weak PY pervasive	45149	131.00-132.50	1.50	0.005	1.80	40.0	192.0	100.0	87.0	16.0
		Weak PR pervasive	45150	132.50-134.00	1.50	0.040	1.80	21.0	161.0	65.0	57.0	2.0
		?? CV stockwork	45151	134.00-135.50	1.50	0.030	2.00	16.0	166.0	95.0	56.0	1.0
		Medium gray to green HBFL with 5-10% tan to brown to light green sub-euhedral Bi phenos to 4mm., 25% cream subhedral Hornblende phenos, fine grained-aphanitic matrix; locally mottled and possibly autobrecciated. Moderate pervasive chlorite with local strong chlorite streaming. Moderate to strong calcite fracture fill and veining, moderate pervasive K-spar, moderate pervasive sericite. MINERALIZATION- 2-4% pyrite, 1-2% pyrrhotite as wispy dissemination.										
		<120.25-136.40> Moderate MT disseminated										
		1 % pyrrhotite - disseminated										
		MINERALIZATION- 2-4% pyrite, 1-2% pyrrhotite as wispy dissemination.										
		<127.60-128.50> Biotite Hbl Fdsp xtalline										
		foliated 70°										
		Strong MS foliated										
		Strong foliation of BHFl at 70 degrees, strong sericite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<129.10-129.70> Chlorite Streaming										
		BHFl with strong chlorite fluid streaming giving										
		brecciated appearance.										
		<131.85-132.20> calcite vein										
		Laminated calcite veins with chlorite to 4cm., with										
		some calcareous gouges.										
136.40	148.85	volcaniclastics	45152	135.50-137.00	1.50	0.070	2.40	19.0	129.0	225.0	56.0	1.0
		Fine grained, dark green, mottled	45153	137.00-138.50	1.50	0.005	0.80	28.0	103.0	10.0	129.0	8.0
		foliated 70°	45154	138.50-140.00	1.50	0.005	0.40	34.0	90.0	2.5	99.0	8.0
		Frs=10/m :Vns =20/m	45155	140.00-141.50	1.50	0.005	0.40	37.0	107.0	10.0	140.0	14.0
		Intense CL pervasive	45156	141.50-143.00	1.50	0.005	0.10	30.0	147.0	2.5	126.0	1.0
		Weak CB stockwork	45157	143.00-144.50	1.50	0.005	0.10	33.0	114.0	2.5	120.0	1.0
		Moderate MS pervasive	45158	144.50-146.00	1.50	0.010	0.10	27.0	112.0	15.0	121.0	28.0
		Moderate KS pervasive	45159	146.00-147.50	1.50	0.010	0.10	37.0	195.0	60.0	122.0	14.0
		Weak PY disseminated										
		Weak PR disseminated										
		Moderate CV microveins										
		Dark green mottled HFXL, locally foliated with 20% to										
		cryptic cream sericite alteration subhedral-anhedral										
		Hornblendes to 1mm fine grained matrix. ALTERATION-										
		strong fine grained intense pervasive chlorite, weak										
		to moderate pervasive sericite moderately weak										
		calcite, weak-moderate patchy epidote. MINERALIZATION-										
		2 to 3% disseminated pyrite, 2-3% disseminated										
		pyrrhotite.										
		<136.40-148.85> Weak MT disseminated										
		2 % pyrrhotite - disseminated										
		MINERALIZATION- 2-3% disseminated pyrite, 2-3%										
		disseminated pyrrhotite.										
		<137.60-137.80> rubbly fault zone										
		foliated 75°:fracturing 75°										
		Weakly, gougy, rubbly broken core with weak limonite										
		fracture fill; chlorite, calcite foliation, traces of										
		hematite orientation at 75 degrees.										
		<142.85-144.44> Strong EP pervasive										
		Strong epidote as pervasive replacement of phenos, and										
		fracture fill with calcite.										
		<145.10-147.00> Strong MT fine grained										
		4 % pyrrhotite - fine grained										
		MINERALIZATION- 4% fine grained pyrite, 4% very fine										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		grained pyrrhotite.										
		<145.10-147.00> Hornblende Feldspar xtalline Tanish-green Strong pervasive sericite, weakly foliated HFXL, tan-green. MINERALIZATION- 4% fine grained pyrite, 4% very fine grained pyrrhotite.										
148.85	157.08	tuff Fine grained, pale tan, foliated, porphyritic foliated 60°:contact 90° Moderate CL SHEETED Strong CB stockwork Intense MS pervasive Weak PY pervasive Moderate PR pervasive Strong CV SHEETED Cream to tan strongly foliated, BHFxl and HFXL locally black with cream subhedral Hornblende needles, cryptic to 25% to 1mm. Upper contact at 90 degrees. Sedimentary appearance but likely HFXL. Intense pervasive sericite? Tan chlorite? Strong stockwork calcite, weak to locally strong black foliated chlorite. MINERALIZATION- 2% very fine grained pyrite, 4% fine grained disseminated pyrrhotite.	45160	147.50-149.00	1.50	0.005	0.10	20.0	27.0	2.5	136.0	14.0
			45161	149.00-150.50	1.50	0.005	0.10	30.0	132.0	10.0	99.0	10.0
			45162	150.50-152.00	1.50	0.010	0.80	23.0	97.0	20.0	84.0	1.0
			45163	152.00-153.50	1.50	0.010	1.40	24.0	96.0	305.0	88.0	1.0
			45164	153.50-155.00	1.50	0.005	0.80	16.0	30.0	205.0	90.0	1.0
			45165	155.00-156.00	1.00	0.025	0.60	19.0	60.0	30.0	193.0	1.0
			45166	156.00-157.08	1.08	0.055	1.40	23.0	107.0	40.0	176.0	1.0
		<148.85-157.08> Weak MT fine grained 4 % pyrrhotite - disseminated MINERALIZATION- 2% very fine grained pyrite, 4% very fine grained disseminated pyrrhotite.										
		<150.30-151.50> foliated 60° Strong foliation at 60 degrees.										
		<152.70-153.30> Biotite Hbl Fdsp xtalline Crystalline HFBL with 10% cream euhedral Bi phenos to 3mm. 25% euhedral Hornblende laths but may be augites.										
		<154.00-154.15> foliated 70° Black strong foliated chlorite and calcite at 70 degrees, weak local limonite at 70 degrees.										
		<155.50-156.10> foliated 70° Black strong foliated chlorite and calcite with weak local limonite fracture fill at 70 degrees.										
(eoh)												

Hole: CL96-14 GEOTECHNICAL DATA

From	TO	Measured Width	Recovery	RQD	Hardness
1.17	4.58	3.41	96	37	
4.58	7.63	3.05	87	63	
7.63	10.68	3.05	87	58	
10.68	13.73	3.05	89	70	
13.73	16.78	3.05	100	83	
16.78	19.83	3.05	66	38	
19.83	22.27	2.44	84	36	
22.27	25.93	3.66	97	51	
25.93	28.98	3.05	87	22	
28.98	32.03	3.05	98	75	
32.03	35.08	3.05	99	75	
35.08	38.13	3.05	91	81	
38.13	40.57	2.44	94	37	
40.57	43.01	2.44	89	51	
43.01	44.53	1.52	93	77	
44.53	45.45	0.92	100	63	
45.45	46.67	1.22	84	54	
46.67	47.58	0.91	86	0	
47.58	49.72	2.14	87	59	
49.72	52.77	3.05	100	93	
52.77	55.82	3.05	100	98	
55.82	56.12	0.30	100	100	
56.12	59.17	3.05	96	71	
59.17	61.92	2.75	90	62	
61.92	63.14	1.22	93	66	
63.14	65.58	2.44	100	60	
65.58	68.63	3.05	100	83	
68.63	71.68	3.05	98	84	
71.68	74.42	2.74	100	87	
74.42	77.47	3.05	100	82	
77.47	80.52	3.05	97	86	
80.52	83.57	3.05	95	82	
83.57	86.62	3.05	100	84	
86.62	89.67	3.05	100	85	
89.67	92.72	3.05	94	76	
92.72	95.16	2.44	100	84	
95.16	96.08	0.92	93	77	
96.08	97.60	1.52	100	84	
97.60	99.13	1.53	93	76	
99.13	102.18	3.05	100	88	
102.18	105.23	3.05	98	74	
105.23	108.28	3.05	100	90	
108.28	111.33	3.05	97	92	
111.33	114.38	3.05	100	100	
114.38	117.43	3.05	99	88	
117.43	120.48	3.05	96	87	
120.48	123.53	3.05	98	75	
123.53	126.58	3.05	99	86	
126.58	129.63	3.05	97	76	
129.63	132.37	2.74	98	89	
132.37	135.42	3.05	100	100	
135.42	138.47	3.05	100	85	
138.47	141.83	3.36	93	90	
141.83	144.88	3.05	100	98	
144.88	147.93	3.05	99	91	
147.93	150.98	3.05	100	84	
150.98	154.03	3.05	99	68	
154.03	157.08	3.05	98	75	

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-15

PROJECT: Clone	Date Commenced: 23/06/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-15	Date Completed: 24/06/96		Geotech by: MBW
LENGTH: 216.55	Core Diam: BQTK		

Collar Location

Latitude:	1893.06
Departure:	2003.01
Elevation:	1321.96

S U M M A R Y

0.00-1.16	CASING
1.16-5.50	Hornblende Feldspar xtalline *
5.50-8.80	rubbly fault zone
8.80-22.50	Hornblende Feldspar xtalline *****
22.50-29.50	Hornblende Feldspar xtalline *
29.50-53.00	Hornblende Feldspar xtalline **
53.00-73.35	Hornblende Feldspar xtalline *
73.35-78.50	Hornblende Feldspar xtalline **
78.50-98.60	Hornblende Feldspar xtalline *****
98.60-134.65	Biotite Hbl Fdsp xtalline ***
134.65-168.97	volcaniclastics *****
168.97-182.43	tuff *
182.43-184.35	gouge
184.35-189.83	tuff *
189.83-192.23	gabbro *
192.23-199.03	gabbro
199.03-203.44	gouge *
203.44-216.55	gabbro *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	270.00	-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	1.16	CASING Casing										
1.16	5.50	Hornblende Feldspar xtalline Fine grained, redish-green, auto brecciated Frs=30/m :Vns =10/m Moderate CL pervasive Moderate CB stockwork Moderate MT pervasive Strong KS pervasive Weak HE patches Moderate CV microveins Dark green to red autobrecciated HFxl, mottled vaguely porphyric texture moderate to strong pervasive chlorite, strong pervasive K-spar weak to moderate stockwork and fracture fill calcite, weak to strong hematite rining autobrecciated clasts with less coarse grained dissemination. MINERALIZATION- moderate to absent pervasive magnetite, trace to 1% pyrite, 1to 5% hematite. Lower contact=Fault zone.	45167 45168 45169 45170	1.16-2.00 2.00-3.00 3.00-4.00 4.00-5.50	0.84 1.00 1.00 1.50	0.455 0.125 0.160 0.060	0.10 0.10 0.40 0.10	25.0 17.0 11.0 15.0	64.0 116.0 250.0 97.0	15.0 5.0 2.5 10.0	59.0 72.0 57.0 57.0	2.0 4.0 1.0 6.0
<1.16-5.50>		MINERALIZATION- Moderate to absent pervasive magnetite, trace to 1% pyrite, 1-5% hematite. Lower Contact=Fault Zone.										
<4.85-4.95>		sulphide-hematite vein macroveins 50° 1cm. pyrite, hematite vein at about 50 degrees.										
5.50	8.80	rubbly fault zone Fault zone with 5cm. sandy gouge and rubbly broken core almost 2.5m. lost core.										
8.80	22.50	Hornblende Feldspar xtalline Fine grained, green, porphyritic, auto brecciated macroveins 60°:macroveins 20° Frs=20/m :Vns =10/m Moderate CL pervasive Moderate CB stockwork Weak MS pervasive Strong KS pervasive Moderate EP macroveins Moderate CV microveins HFxl mottled, locally brecciated commonly fractured and bleached with 20% cream to dark green commonly cryptic sub-anhedral Hornblende phenos medium-dark	45171 45172 45173 45174 45175 45176 45177 45178 45179 45180 45181 45182 45183	5.50-9.00 9.00-10.00 10.00-11.00 11.00-12.00 12.00-13.00 13.00-14.00 14.00-15.00 15.00-16.00 16.00-17.00 17.00-18.00 18.00-19.00 19.00-20.00 20.00-21.00	3.50 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.075 1.870 0.735 0.075 4.110 0.575 0.655 0.010 0.010 0.020 2.230 2.630 2.220	0.10 0.20 0.20 0.40 1.60 1.80 0.10 0.20 0.10 0.10 0.20 0.60 0.10	16.0 54.0 72.0 25.0 41.0 29.0 35.0 9.0 17.0 26.0 46.0 52.0 57.0	158.0 188.0 89.0 806.0 348.0 609.0 159.0 87.0 66.0 22.0 15.0 19.0 38.0	20.0 45.0 65.0 5.0 20.0 5.0 15.0 2.5 2.5 10.0 25.0 50.0 80.0	111.0 161.0 153.0 103.0 108.0 129.0 119.0 90.0 103.0 119.0 142.0 172.0 218.0	6.0 12.0 1.0 1.0 6.0 8.0 4.0 6.0 4.0 1.0 2.0 1.0 1.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	green fine grained matrix. ALTERATION- moderate to strong pervasive chlorite, moderate to strong fracture fill and stockwork calcite at about 65 degrees, weak to moderate pervasive sericite, moderate to strong pervasive K-spar hematite as veins at about 20 degrees usually with carbonate 1-2cm. wide, 3 per meter, lesser wispy disseminated hematite, local limonite and malachite fracture fill. MINERALIZATION- trace local calcopyrite, trace to 1% pyrite disseminated with hematite.										
<8.80-22.50>	?? MT disseminated .2% chalcopyrite - local MINERALIZATION- Trace local calcopyrite, trace to 1% pyrite disseminated with hematite.										
<8.80-8.85>	Broken Core Strong broken core, weak gouge; from a low angle to core axis.										
<11.30-11.60>	1 % chalcopyrite - disseminated MINERALIZATION- 3% hematite, 1% calcopyrite as wispy disseminated.										
<11.30-11.60>	MINERALIZATION- 3% hematite, 1% calcopyrite as wispy dissemination.										
<12.80-13.00>	.3% chalcopyrite - disseminated MINERALIZATION- 10% hematite, 0.3% disseminated calcopyrite.										
<12.80-13.00>	MINERALIZATION- 10% hematite, 0.3% disseminated calcopyrite.										
<13.90-14.70>	MINERALIZATION- 10% hematite.										
<13.90-14.70>	Hornblende Feldspar xtalline macroveins 60° Strong CB macroveins Strong HE pervasive Strong pervasive and veined hematite with calcite, iron-carbonate and other brown carbonate at 60 degrees. MINERALIZATION- 10% hematite.										
<14.70-15.20>	Broken Core Rubbly broken core, trace gouge, moderate bleaching, limonite fracture fill.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<20.30-21.00>MINERALIZATION- Trace calcopyrite.										
		<20.30-21.00> macroveins 5° 1.5cm. chloritic looking calcite, magnetite, hematite, pyrite vein at about 5 degrees. MINERALIZATION- trace calcopyrite.										
22.50	29.50	Hornblende Feldspar xtalline	45184	21.00-22.70	1.70	1.710	0.40	157.0	38.0	145.0	276.0	1.0
		Fine grained, pale green, bleached, porphyritic	45185	22.70-24.00	1.30	0.335	1.60	89.0	92.0	165.0	132.0	8.0
		Frs=100/m :Vns =20/m	45186	24.00-25.50	1.50	0.045	0.10	25.0	15.0	20.0	93.0	1.0
		Moderate CL pervasive	45187	25.50-27.00	1.50	0.030	0.10	12.0	13.0	25.0	67.0	1.0
		Strong CB microveins	45188	27.00-28.50	1.50	0.010	0.10	7.0	34.0	10.0	73.0	8.0
		Weak KS pervasive	45189	28.50-29.50	1.00	0.070	0.10	7.0	79.0	25.0	65.0	6.0
		Trace PY disseminated										
		Moderate CV macroveins										
		Light green HFxl moderately bleached with rubbly locally gougy broken core; dark green to cream sericite alteration Hornblende phenos, local Bi phenos (augites?) with platy sericite. Very fine grained matrix. ALTERATION- weak to moderate pervasive chlorite, chlorite streaming locally wispy hematite; moderate to strong calcite as fracture fill and veins to 4cm. strong pervasive sericite, weak limonite fracture fill. MINERALIZATION- trace to 1% pyrite as wispy dissemination and veins to 8mm. 4 veins per meter.										
		<22.50-29.50>MINERALIZATION- Trace to 1% pyrite as wispy disseminated and veins to 8mm. 4 veins per meter.										
		<22.65-23.40> sulphide-hematite vein macroveins 65° Pyrite, hematite veins to 3cm. at about 65 degrees with strong bleaching and limonite fracture fill, 3 per meter.										
		<26.00-28.50> Biotite Hbl Fdsp xtalline Crystalline BHFl with 15% sericited Bi? phenos, euhedral to 4mm..										
		<27.90-29.50> Broken Core Dark green Intense CB stockwork D.A.P. 29.5 to 34.65										
29.50	53.00	Hornblende Feldspar xtalline	45190	29.50-31.00	1.50	0.005	0.10	7.0	29.0	10.0	65.0	2.0

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	45191	31.00-32.00	1.00	0.005	0.10	6.0	0.5	2.5	48.0	1.0
		microveins 25°	45192	32.00-33.00	1.00	0.005	0.10	8.0	2.0	2.5	41.0	1.0
		Frs=8/m :Vns =30/m	45193	33.00-34.00	1.00	0.005	0.10	15.0	0.5	2.5	46.0	1.0
		Moderate CL pervasive	45194	34.00-35.00	1.00	0.010	0.10	28.0	77.0	15.0	44.0	4.0
		Strong CB microveins	45195	35.00-36.00	1.00	0.805	0.10	16.0	71.0	2.5	40.0	1.0
		Moderate MS patches	45196	36.00-37.00	1.00	0.010	0.10	9.0	10.0	10.0	51.0	1.0
		Moderate KS pervasive	45197	37.00-38.00	1.00	1.060	0.10	21.0	5.0	10.0	50.0	1.0
		Moderate HE macroveins	45198	38.00-39.00	1.00	0.010	0.10	15.0	0.5	2.5	66.0	1.0
		Strong CV microveins	45227	39.00-40.00	1.00	3.260	30.00	131.0	10.0	1225.0		20.0
		Medium green HFxl with 25% dark to medium green	45199	40.00-41.00	1.00	0.050	0.10	30.0	0.5	15.0	80.0	1.0
		Hornblende phenos to 2.5mm. fine grained matrix. Local	45200	41.00-42.00	1.00	1.010	0.10	215.0	38.0	230.0	116.0	22.0
		Bi (augites?) phenos sub-euhedral to 4mm.. ALTERATION-	45201	42.00-43.00	1.00	0.150	0.60	15.0	9.0	10.0	123.0	28.0
		moderate to strong pervasive chlorite, weak pervasive	45202	43.00-44.00	1.00	0.005	0.80	17.0	11.0	10.0	85.0	1.0
		sericite, patchy strong sericite. Moderate to strong	45203	44.00-45.00	1.00	0.005	0.80	21.0	29.0	20.0	110.0	1.0
		calcite as stockwork and fracture fill. Moderate to	45204	45.00-46.00	1.00	0.005	0.80	21.0	93.0	20.0	103.0	1.0
		strong pervasive K-spar. Weak to strong hematite as	45205	46.00-47.00	1.00	0.005	1.00	44.0	59.0	60.0	91.0	1.0
		semi-massive veins with magnetite, with less wispy	45206	47.00-48.00	1.00	0.005	1.00	24.0	93.0	15.0	101.0	10.0
		disseminated and stringers with calcite.	45207	48.00-49.00	1.00	0.005	1.00	11.0	63.0	25.0	109.0	26.0
<29.50-34.65>		Broken Core										
		Dark green										
		Intense CB stockwork										
		STRUCTURE- slightly bleached HFxl with intense										
		irregular calcite fracture fill and irregular										
		stockwork, weak local limonite fracture fill; weak to										
		moderate broken core increasing near Lower Contact.										
<34.00-40.00>		calcite vein										
		macroveins 30°										
		Calcite with lesser hematite veins to 2cm at about 30										
		degrees with calcite hematite selvages.										
<40.20-41.00>		MINERALIZATION- 20% hematite, 2% pyrite, 0.2										
		calcopyrite.										
<40.20-41.00>		sulphide-hematite vein										
		macroveins 65°										
		Hematite, magnetite with calcite and calcopyrite,										
		cross cutting calcite/chlorite veins at about 60										
		degrees. MINERALIZATION- 20% hematite, 2% pyrite, 0.2%										
		calcopyrite.										
<43.00-48.00>		Hornblende Feldspar xtalline										
		Lineations, auto brecciated										
		lineations 40°										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong CL laminations										
		Strong MS patches										
		Chloritic, sericitic lineation at about 40 degrees, alignment of phenos-some weak brecciation, patchy strong sericite, chlorite fluid streaming.										
	<47.70-49.10>	MINERALIZATION- 5 to 10% hematite.										
	<47.70-49.10>	microveins 25°										
		Moderate to strong wispy hematite, strong chlorite stockwork approximately 25 degrees orientation.										
		MINERALIZATION- 5 to 10% hematite.										
	<50.90-52.30>	Broken Core	45208	49.00-50.00	1.00	0.145	1.40	33.0	165.0	35.0	105.0	36.0
		Weak broken core with limonite fracture fill.	45209	50.00-51.00	1.00	0.010	0.80	21.0	42.0	25.0	105.0	1.0
	<52.50-52.55>	calcite vein	45210	51.00-52.00	1.00	0.030	0.80	10.0	110.0	2.5	90.0	4.0
		macroveins 75°										
		Calcite, chlorite, iron-carbonate vein 3cm. wide at about 75 degrees.										
53.00	73.35	Hornblende Feldspar xtalline	45211	52.00-53.50	1.50	0.030	1.00	11.0	66.0	15.0	92.0	1.0
		Fine grained, green, porphyritic	45212	53.50-55.00	1.50	0.035	1.00	7.0	56.0	10.0	63.0	1.0
		Frs=8/m :Vns =30/m	45213	55.00-56.50	1.50	0.010	1.20	14.0	54.0	25.0	87.0	4.0
		Moderate CL pervasive	45214	56.50-58.00	1.50	0.005	1.00	9.0	51.0	20.0	97.0	1.0
		Moderate CB stockwork	45215	58.00-59.50	1.50	0.005	0.80	9.0	47.0	15.0	78.0	1.0
		Trace MT microveins	45216	59.50-61.00	1.50	0.005	1.00	10.0	43.0	20.0	72.0	1.0
		Moderate KS pervasive	45217	61.00-62.50	1.50	0.005	1.00	10.0	34.0	20.0	66.0	1.0
		Weak HE microveins	45218	62.50-64.00	1.50	0.005	0.80	10.0	66.0	20.0	68.0	1.0
		Strong CV microveins	45219	64.00-65.50	1.50	0.005	1.00	8.0	40.0	20.0	64.0	1.0
		Medium to dark green HFxl with 20% subhedral, dark	45220	65.50-67.00	1.50	0.010	1.00	9.0	44.0	35.0	67.0	2.0
		green to cream, lathy to needle like Hornblende	45221	67.00-68.50	1.50	0.035	1.60	14.0	55.0	30.0	71.0	12.0
		phenos, very fine grained aphanitic matrix.	45222	68.50-70.00	1.50	0.325	1.20	48.0	412.0	50.0	129.0	1.0
		ALTERATION- moderate to strong pervasive chlorite	45223	70.00-71.50	1.50	0.380	2.40	89.0	1187.0	110.0	103.0	66.0
		increasing towards Lower Contact, moderate to strong	45224	71.50-73.00	1.50	0.065	1.60	48.0	294.0	40.0	132.0	1.0
		stockwork calcite, weak to moderate pervasive K-spar, weak to absent hematite with calcite in veins.										
		MINERALIZATION- trace to 1% disseminated pyrite, trace to 1% disseminated pyrrhotite, trace weak magnetite with calcite and hematite.										
	<53.00-73.35>	?? MT disseminated										
		.5% pyrrhotite - disseminated										
		MINERALIZATION- Trace to 1% disseminated pyrite, trace to 1% disseminated pyrrhotite, trace of weak magnetite within calcite and hematite.										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<68.40-73.35>	Hornblende Feldspar xtalline Green, foliated laminations 35°:macroveins 65° Intense CL pervasive Strong CB foliated Intense pervasive chlorite laminations within HFxl, with strong calcite, with hematite at about 35 degrees, with magnetite, 2% pyrite, 2% pyrrhotite stockwork calcite, hematite, magnetite veins to 3cm. at about 65 degrees.										
<73.35-78.50>	Fine grained, green, veined, sheared lineations 30°:fault/gouge 5° Frs=50/m :Vns =80/m Intense CL pervasive Strong CB sheeting Moderate KS pervasive Trace EP microveins Strong CV sheeting HFxl cross cut by low angle faults. Dark green mottled cryptic phenocrystals. Intense pervasive and chlorite fluid streaming, strong to medium calcite; 1cm. of fine grained pyritic, chloritic gouge. Moderate pervasive K-spar? weak hematite as clasts within calcite veins. STRUCTURE- fault zone at about 5 degrees, chlorite, calcite lineations at about 30 degrees. MINERALIZATION- 6% pyrite as milled fine grained to medium grained wispy dissemination, 2% arsenopyrite, trace calcopyrite, S-zone?	45225 45226 45228 45229	73.00-74.50 74.50-75.75 75.75-77.00 77.00-78.50	1.50 1.25 1.25 1.50	15.120 5.710 2.250 0.650	5.80 4.40 3.20 2.00	720.0 350.0 72.0 34.0	441.0 257.0 835.0 197.0	6540.0 4000.0 435.0 90.0	132.0 76.0 207.0 80.0	10.0 22.0 12.0 4.0
<73.35-78.50>	?? MT disseminated MINERALIZATION- 6% pyrite as milled fine grained to medium grained wispy disseminated 2% arsenopyrite, trace of calcopyrite, S-zone?										
<73.35-73.95>	gouge fault/gouge 5° Gougy pyritic fault zone at about 5 to 10 degrees, chloritic 1cm. fine grained to medium grained gouge.										
<75.30-75.80>	MINERALIZATION- 10% patchy medium grained pyrite, 10% arsenopyrite as irregular veins to 1cm.										
<75.30-75.80>	MINERALIZATION- 10% patchy medium grained pyrite, 10% arsenopyrite as irregular veins to 1cm.										
<78.00-78.50>	gouge										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		fault/gouge 5°										
		Fault zone, chloritic with pyrite; 8mm of gouge at about 5 degrees.										
78.50	98.60	Hornblende Feldspar xtalline	45230	78.50-80.00	1.50	0.210	1.80	51.0	193.0	295.0	98.0	8.0
		Fine grained, green, porphyritic	45231	80.00-81.50	1.50	0.815	3.20	80.0	532.0	200.0	106.0	18.0
		Frs=7/m :Vns =8/m	45232	81.50-83.00	1.50	0.810	2.00	26.0	202.0	75.0	91.0	12.0
		Strong CL pervasive	45233	83.00-84.50	1.50	0.145	0.80	14.0	164.0	45.0	89.0	10.0
		Moderate CB stockwork	45234	84.50-86.00	1.50	0.015	1.40	14.0	199.0	25.0	84.0	8.0
		Weak MS pervasive	45235	86.00-87.00	1.00	0.015	1.40	12.0	154.0	30.0	65.0	6.0
		Moderate KS pervasive	45237	88.00-89.00	1.00	0.005	0.40	11.0	211.0	30.0	51.0	1.0
		Moderate PY disseminated	45238	89.00-90.00	1.00	0.010	0.40	17.0	275.0	35.0	60.0	4.0
		Trace PR disseminated	45239	90.00-91.00	1.00	0.005	0.40	16.0	204.0	25.0	56.0	4.0
		Moderate CV microveins	45240	91.00-92.00	1.00	0.005	0.60	17.0	226.0	25.0	63.0	4.0
		Medium to dark green fine grained HFxl with 20%	45241	92.00-93.00	1.00	0.195	0.10	33.0	218.0	80.0	71.0	1.0
		cryptic subhedral Hornblende phenos to 2mm. dark	45242	93.00-94.00	1.00	0.105	0.10	85.0	119.0	470.0	78.0	4.0
		green. ALTERATION- strong to moderate pervasive	45243	94.00-95.00	1.00	0.005	0.10	19.0	62.0	185.0	47.0	2.0
		chlorite increasing towards upper contact and lower	45244	95.00-96.00	1.00	0.005	0.10	19.0	140.0	80.0	45.0	2.0
		contact, moderate calcite stockwork weak to moderate	45245	96.00-97.00	1.00	0.005	0.10	15.0	143.0	75.0	60.0	2.0
		pervasive sericite, K-spar. MINERALIZATION- 3 to 5%	45246	97.00-98.00	1.00	0.925	0.10	44.0	114.0	250.0	61.0	1.0
		pyrite, trace pyrrhotite locally higher pyrite and arsenopyrite, trace calcopyrite, trace hematite.										
<78.50-83.00>		Broken Core										
		fracturing 60°										
		weak to moderate broken core, limonite fracture fill; fractures around 60 degrees with calcite.										
<80.10-80.40>		MINERALIZATION- Fine grained to medium grained milled pyrite 30% with dark chlorite and calcite fragments pseudo brecciated at 40 degrees.										
<80.10-80.40>		MINERALIZATION- fine grained to medium grained milled pyrite 30% with dark chlorite and calcite fragments pseudo brecciated at about 40 degrees.										
<81.30-81.50>		MINERALIZATION- 15% pyrite with calcite and chlorite as coarse grained, irregular patches medium grained to very fine grained.										
<81.30-81.50>		MINERALIZATION- 15% pyrite with calcite and chlorite as coarse grained irregular patches medium grained to very fine grained.										
<90.40-90.60>		MINERALIZATION- 10% pyrite, 3% arsenopyrite.										
<90.40-90.60>		MINERALIZATION- 10% pyrite, 3% arsenopyrite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<90.50-94.00> Biotite-Hbl-Fdsp-xtalline Trace to 5% cream subhedral Bi or augite phenos to 3mm., likely sericite alteration.										
		<93.94-98.60> Broken Core Weak to moderate broken core with limonite, calcite fracture fill.										
		<94.15-94.50> Trace MT disseminated MINERALIZATION- 10% arsenopyrite, 15% pyrite fine grained to medium grained as veins to 4cm., and less fine grained to medium grained wispy dissemination.										
		<94.15-94.50>MINERALIZATION- 10% arsenopyrite, 15% pyrite fine grained to medium grained as veins to 4cm; and less fine grained to medium grained wispy dissemination.										
		<94.50-98.50> Weak MT disseminated 2 % pyrrhotite - disseminated MINERALIZATION- 2-3% pyrite, 2-3% pyrrhotite as fine grained to medium grained disseminated and wispy disseminated.										
		<94.50-98.50>MINERALIZATION- 2 to 3% pyrite, 2 to 3% pyrrhotite as fine grained to medium grained dissemination and wispy dissemination.										
98.60	134.65	Biotite Hbl Fdsp xtalline	45247	98.00-99.00	1.00	0.875	0.60	129.0	215.0	3625.0	76.0	6.0
		Fine grained, green, porphyritic	45248	99.00-100.50	1.50	8.440	3.00	2580.0	553.0	24100.0	101.0	14.0
		Frs=6/m :Vns =30/m	45249	100.50-102.00	1.50	0.035	0.10	33.0	115.0	170.0	59.0	1.0
		Moderate SI patches	45250	102.00-103.50	1.50	0.405	0.10	66.0	136.0	805.0	63.0	2.0
		Moderate CL pervasive	45251	103.50-105.00	1.50	0.005	0.10	53.0	111.0	610.0	59.0	2.0
		Strong CB stockwork	45252	105.00-106.50	1.50	0.005	0.10	11.0	8.0	45.0	54.0	1.0
		Moderate MS pervasive	45253	106.50-108.00	1.50	0.045	0.10	54.0	84.0	530.0	58.0	4.0
		Moderate KS pervasive	45254	108.00-109.50	1.50	0.005	0.10	17.0	42.0	70.0	49.0	1.0
		Weak PY disseminated	45255	109.50-111.00	1.50	0.005	0.10	15.0	43.0	115.0	59.0	2.0
		Strong CV macroveins	45256	111.00-112.50	1.50	0.005	0.10	14.0	88.0	45.0	49.0	2.0
		With 5-15% sub-euhedral Bi phenos to 3mm., 20% sub to	45257	112.50-114.00	1.50	0.005	0.10	15.0	59.0	95.0	49.0	6.0
		euhedral Hornblende needles to 2mm. moderate to weak	45258	114.00-115.50	1.50	0.005	0.10	11.0	11.0	70.0	44.0	2.0
		pervasive chlorite, moderate pervasive sericite, local	45259	115.50-117.00	1.50	1.020	0.10	39.0	20.0	300.0	71.0	4.0
		moderate "channelled" pervasive silica, strong	45260	117.00-118.50	1.50	0.005	0.10	22.0	51.0	525.0	120.0	4.0
		stockwork calcite. Lower contact=foliated to iron	45261	118.50-120.00	1.50	0.005	0.10	18.0	56.0	275.0	72.0	4.0
		carbonate vein indistinct at about 70 degrees.	45262	120.00-121.50	1.50	0.005	0.10	24.0	30.0	380.0	64.0	6.0
		MINERALIZATION- trace to 2% disseminated and fracture	45263	121.50-122.50	1.00	0.005	0.10	23.0	4.0	380.0	57.0	8.0
		fill pyrite, trace pyrrhotite, absent to 3%	45264	122.50-123.50	1.00	1.190	2.40	1640.0	299.0	29600.0	70.0	30.0
		arsenopyrite as veins to 1cm.	45265	123.50-125.00	1.50	0.130	0.10	84.0	139.0	1110.0	53.0	2.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<98.60-134.65> Trace MT disseminated	45266	125.00-126.50	1.50	0.005	0.10	16.0	171.0	130.0	55.0	4.0
		MINERALIZATION- Trace to 2% disseminated and fracture	45267	126.50-128.00	1.50	0.005	0.10	6.0	0.5	20.0	42.0	1.0
		fill pyrite, trace pyrrhotite, absent to 3%	45268	128.00-129.50	1.50	0.005	0.20	14.0	72.0	50.0	48.0	1.0
		arsenopyrite as veins to 1cm.	45269	129.50-131.00	1.50	0.005	0.10	13.0	106.0	30.0	47.0	1.0
		<117.20-120.45> Strong SI pervasive										
		ALTERATION- moderate to strong pervasive and fracture										
		fill chlorite, mottled appearance.										
		<122.80-123.4[illegible]INERALIZATION- 1cm arsenopyrite, +/- pyrite, +/-										
		calcopyrite, +/-visible gold? irregular vein at about										
		50 degrees.										
		<122.80-123.40> MASSIVE SULPHIDE VEIN										
		macroveins 50°										
		MINERALIZATION- 1cm. arsenopyrite, +/- pyrite, +/-										
		calcopyrite, +/-visible gold? Irregular vein at about										
		50 degrees.										
		<124.50-125.70> Biotite Hbl Fdsp xtalline										
		Green										
		Moderate SI pervasive										
		Medium gray BHFl, moderate pervasive silica.										
		<134.30-134.45> Intense MT disseminated	45270	131.00-132.50	1.50	0.005	0.10	8.0	45.0	15.0	33.0	1.0
		1 % arsenopyrite - disseminated	45271	132.50-133.75	1.25	0.005	0.10	14.0	80.0	30.0	44.0	1.0
		2 % pyrrhotite - disseminated										
		MINERALIZATION- 1% arsenopyrite, 5% pyrite, 2%										
		pyrrhotite as wispy dissemination and fracture fill.										
		<134.30-134.4[illegible]INERALIZATION- 1% arsenopyrite, 5% pyrrhotite as										
		wispy dissemination and fracture fill.										
134.65	168.97	volcaniclastics	45272	133.75-134.75	1.00	0.305	0.60	33.0	130.0	125.0	94.0	10.0
		Fine grained, dark green, mottled	45273	134.75-135.50	0.75	0.100	1.60	37.0	201.0	70.0	127.0	26.0
		Frs=15/m :Vns =20/m	45274	135.50-137.00	1.50	0.025	1.40	18.0	211.0	50.0	130.0	14.0
		Moderate SI patches										
		Strong CL pervasive										
		Strong CB stockwork										
		Moderate MS pervasive										
		Moderate KS pervasive										
		Moderate PY disseminated										
		Trace PR disseminated										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Strong CV macroveins Mottled dark green locally foliated HFxl. ALTERATION- strong pervasive and fluids streaming chlorite alteration, patchy moderate strong pervasive silica. Strong stockwork and fracture fill calcite, weak to moderate patchy pervasive sericite, weak to moderate pervasive K-spar. Increasing sericite near Lower Contact. MINERALIZATION- 3 to 6% fine grained to medium grained disseminated and wispy pyrite, trace to 2% pyrrhotite.										
<134.65-168.97>	Strong MT disseminated MINERALIZATION- 3-6% fine grained to medium grained disseminated and wispy pyrite, trace to 2% pyrrhotite.										
<134.65-136.30>	chlorite vein microveins 70° Calcite, chlorite and iron-carbonate stockwork, +/- calcopyrite?, +/- sphalerite? at about 70 degrees limonite, trace malachite, fracture fill.										
<138.30-138.70>	Trace MT fine grained 1 % pyrrhotite - patches MINERALIZATION- 10% fine grained to very fine grained pyrite, 1-2% pyrrhotite as patchy dissemination.										
<138.30-138.70>	MINERALIZATION- 10% fine grained to very fine grained pyrite, 1 to 2% pyrrhotite as patchy dissemination.										
<142.10-143.80>	Trace MT disseminated MINERALIZATION- 10% fine grained pyrite, moderate local patchy silica, strong chlorite black to dark green, lineated at about 65 degrees.										
<142.10-143.80>	lineations 65° MINERALIZATION- 10% fine grained disseminated pyrite, moderate local patchy silica, strong chlorite, blakc to dark green lineated at about 65 degrees.										
<143.80-145.10>	?? MT disseminated MINERALIZATION- 6% pyrite as fine grained to medium grained wispy disseminated. Trace of hematite in calcite veins. Common lineation at about 65 degrees.										
<143.80-145.10>	tuff Dark tan lineations 65°										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong CL SHEETED Intense MS SHEETED Trace HE microveins Intensely lineated tan (sericite, chlorite?). HFxl? Seds? MINERALIZATION- 6% pyrite as very fine grained to medium grained wispy dissemination. Trace hematite in calcite veins. Common lineation at about 65 degrees.										
<144.50-149.50>		Broken Core fracturing 15° Weak broken core, weak limonite fracture fill; common orientation at a low angle to Core Axis at about 10 to 15 degrees.										
<163.10-168.9		MINERALIZATION- 2% pyrite, trace to 1% pyrrhotite.										
<163.10-168.97>		tuff Moderate SI SHEETED Intense MS SHEETED HFxl with strong intense sericite flooding, with calcite in veins. MINERALIZATION- 2% pyrite, trace to 1% pyrrhotite.										
<168.97-182.43>		Frs=50/m :Vns =20/m Weak SI pervasive Strong CL SHEETED Moderate CB stockwork Intense MS SHEETED Trace PY disseminated Weak PR disseminated Light green to tan to dark gray foliated HFxl? Sediments? intense sericite or brown chlorite? alteration, Undulated soft deterioration, highly variable orientation. Moderate to strong irregular calcite stockwork. MINERALIZATION- 1 to 3% disseminated pyrrhotite, trace to 1% fine grained disseminated pyrite within areas of light sericite altered rock, anhedral Hornblende? phenos to 1mm. light cream color, silica increasing towards lower contact.	45298	170.00-171.50	1.50	0.005	1.20	23.0	68.0	70.0	91.0	8.0
			45299	171.50-173.00	1.50	0.030	1.40	25.0	112.0	60.0	121.0	12.0
			45300	173.00-174.50	1.50	0.015	1.40	23.0	225.0	35.0	118.0	8.0
			45301	174.50-176.00	1.50	0.040	2.80	20.0	81.0	40.0	126.0	18.0
			45302	176.00-177.50	1.50	0.085	1.60	48.0	72.0	65.0	185.0	56.0
			45303	177.50-179.00	1.50	0.030	1.00	39.0	157.0	40.0	182.0	26.0
			45304	179.00-180.50	1.50	0.005	0.10	35.0	144.0	20.0	134.0	14.0
			45305	180.50-182.00	1.50	0.005	0.10	30.0	217.0	10.0	123.0	6.0
<168.97-169.45>		Foliated Intense CL foliated ALTERATION- intense dark brown foliated chlorite, increasing towards Upper Contact.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<182.37-182.43> Intense MS SHEETED ALTERATION- trace mariposite within sericite alterated rock.										
		<182.40-182.43> 5 % pyrrhotite - disseminated MINERALIZATION- 5% disseminated pyrrhotite.										
		<182.40-182.43> QUARTZ-CALCITE VEINS macroveins 50° Quartz, calcite, black chlorite, pyrrhotite vein at about 50 degrees. MINERALIZATION- 5% disseminated pyrrhotite.										
182.43	184.35	gouge	45306	182.00-182.50	0.50	0.005	0.10	31.0	217.0	10.0	121.0	6.0
		Green	45307	182.50-184.30	1.80	0.005	0.10	35.0	111.0	2.5	170.0	4.0
		fault/gouge 50° Gougy fault zone, fine grained to medium grained gouge, locally black chloritic tan HFXC.										
184.35	189.83	tuff	45308	184.30-186.00	1.70	0.005	0.10	37.0	142.0	5.0	157.0	26.0
		Fine grained, greenish-tan, foliated	45309	186.00-187.50	1.50	0.005	0.10	37.0	121.0	5.0	172.0	10.0
		fracturing 50°	45310	187.50-189.00	1.50	0.005	0.10	34.0	185.0	2.5	157.0	26.0
		Frs=70/m :Vns =20/m	45311	189.00-189.80	0.80	0.005	0.10	39.0	158.0	2.5	194.0	42.0
		Weak SI pervasive										
		Strong CL SHEETED										
		Moderate CB stockwork										
		Intense MS SHEETED										
		Weak PY disseminated										
		Weak PR disseminated										
		D.A.P. 168.97-182.60. Foliated HFxl foliation generally 30 to 60 degrees. MINERALIZATION- 1 to 3% pyrite, 1 to 3% pyrrhotite.										
		<184.35-189.80>MINERALIZATION- 1-3% pyrite, 1-3% pyrrhotite.										
		<186.80-189.83> fracturing 50° STRUCTURE- weak gougy slips at about 50 degrees.										
		<189.60-189.83> gouge fault/gouge 50° STRUCTURE- gougy fault zone at about 50 degrees.										
189.83	192.23	gabbro	45312	189.80-191.20	1.40	0.005	0.10	35.0	134.0	10.0	346.0	52.0
		Medium grained, violetish-gray, porphyritic	45313	191.20-192.20	1.00	0.005	0.10	34.0	118.0	15.0	173.0	14.0
		Frs=30/m :Vns =60/m										
		Strong CL pervasive										
		Moderate CB stockwork										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate MS pervasive Transition HFxl to coarse grained gabbro, brownish gray to greenish, fine grained vaguely porphyric. Moderate pervasive sericite, K-spar, stockwork calcite. Increasing amount (10-15% coarse grained (augite?)) pyroxene phenos, euhedral to 1cm. Chill margin. MINERALIZATION- 1% pyrite, 1% pyrrhotite.										
		<189.83-192.2 MINERALIZATION- 1% pyrite, 1% pyrrhotite.										
		<190.60-192.23> Broken Core fracturing 50° Weak to moderate broken core, weak gouge on fractures, commonly 50 degrees; may possibly be cuttings.										
192.23	199.03	gabbro	45314	192.20-193.30	1.10	0.005	0.10	40.0	212.0	30.0	146.0	6.0
		Medium grained, dark green, porphyritic, graphitic	45315	193.30-195.00	1.70	0.005	0.10	29.0	54.0	15.0	96.0	4.0
		Frs=100/m :Vns =10/m	45316	195.00-196.50	1.50	0.005	0.10	31.0	53.0	150.0	153.0	10.0
		Intense CL pervasive	45317	196.50-198.00	1.50	0.005	0.10	29.0	77.0	20.0	163.0	32.0
		Moderate CB microveins										
		Weak MS patches										
		Weak MT pervasive										
		Trace HE patches										
		Trace PY disseminated										
		Trace PR disseminated										
		Dark green with 20% euhedral augites to 1cm. with 10% subhedral cream plag? phenos fine grained aphanitic matrix. Intense pervasive chlorite to dark green; some light green to olive green chlorite (epidote?) often weak local hematite within alteration patches to 10cm.. STRUCTURE- moderate to strong broken core throughout sequence; graph common as fracture structure. MINERALIZATION- 1% to asbsent pyrite, 1% to absent pyrrhotite.										
		<192.50-198.70> Porphyritic Moderate to strong broken core, fractures quite shallow to Core Axis, weak gouge.										
		<198.03-198.4 Patchy bleached epidote green (chlorite?) with patchy pink (hematite?).										
199.03	203.44	gouge	45318	198.00-199.75	1.75	0.005	0.10	37.0	153.0	50.0	174.0	18.0
		macroveins 25°	45319	199.75-201.00	1.25	0.005	0.60	33.0	200.0	135.0	91.0	38.0
		Gougy fault zone within D.A.P. 192.23-199.10, strong calcite veining to 10cm. with wall coils, fragments at about 25 degrees. MINERALIZATION- trace to 1%	45320	201.00-203.00	2.00	0.005	0.10	25.0	83.0	55.0	88.0	4.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		pyrrhotite, trace pyrite.										
		<199.03-203.44> MINERALIZATION- Trace to 1% pyrrhotite, trace pyrite.										
		<199.03-200.10> calcite vein macroveins 25° Weak broken pyrite, chlorite, calcite vein at about 25 degrees, 1cm. wide.										
		<200.95-203.44> Broken Core Moderate to strong rubbly broken core, trace gouge.										
203.44	216.55	gabbro	45321	203.00-204.50	1.50	0.005	0.10	34.0	139.0	30.0	98.0	1.0
		Medium grained, dark green, porphyritic	45322	204.50-206.00	1.50	0.005	0.10	34.0	109.0	25.0	93.0	1.0
		Frs=50/m :Vns =15/m	45323	206.00-207.50	1.50	0.005	0.10	14.0	46.0	15.0	73.0	1.0
		Moderate CB stockwork	45324	207.50-209.00	1.50	0.005	0.20	17.0	35.0	55.0	79.0	1.0
		Weak MT pervasive	45325	209.00-210.50	1.50	0.005	0.40	27.0	85.0	20.0	89.0	1.0
		Weak KS macroveins	45326	210.50-212.00	1.50	0.005	1.00	25.0	87.0	30.0	97.0	4.0
		Weak EP replaced phenocryst	45327	212.00-213.50	1.50	0.005	0.60	23.0	92.0	50.0	106.0	8.0
		Moderate CV microveins	45328	213.50-215.00	1.50	0.005	0.40	22.0	93.0	30.0	167.0	2.0
		D.A.P. 192.23-199.10 with 30% augite, trace to 10% subhedral phenos, epidote, calcite alteration. K-spar? light green to cream K-spar? rare anhedral quartz crystals; absent to 10% subhedral plag to 2mm. weak epidote with calcite in veins and replacement of phenocrystals. Moderate calcite stockwork to 3cm., calcite, K-spar veins to 3cm..	45329	215.00-216.55	1.55	0.105	2.80	21.0	68.0	755.0	70.0	1.0
		<203.75-204.20> MINERALIZATION- 2% calcopyrite, 2% pyrite, 2% pyrrhotite; pyrrhotite pseudos after pyrite.										
		<203.75-204.20> QUARTZ VEIN macroveins 40° Quartz, calcite, chlorite veins at about 40 degrees, mottled with sections. MINERALIZATION- 1% calcopyrite, 2% pyrite, 2% pyrrhtotite; pyrrhotite pseudos after pyrite.										
		<206.55-206.70> Epidote? hematite? alteration patch D.A.P. 198.03-198.40.										
		<206.90-215.50> Moderate MT pervasive Weak to moderate pervasive magnetite.										
		<211.10-211.15> macroveins 60° Moderate QF macroveins										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	1.5cm. K-spar?, calcite vein at about 60 degrees.										
<211.67-212.68>	calcite vein macroveins 45° 2 calcite, chlorite veins with wall rock fragments at about 45 degrees, one 2cm., one 3cm..										
<214.20-214.30>	macroveins 40° 3cm. K-spar, calcite vein at about 40 degrees; crosscut by late calcite stockwork.										
(eoh)											

11/29/96

From	TO	Measured Width	Recovery	RQD	Hardness
1.16	5.49	4.33	98	35	
5.49	8.54	3.05	100	3	
8.54	11.89	3.35	78	49	
11.59	14.64	3.05	96	68	
14.64	17.69	3.05	87	48	
17.69	20.74	3.05	96	72	
20.74	23.79	3.05	93	63	
23.79	26.23	2.44	71	17	
26.23	29.28	3.05	60	13	
29.28	32.33	3.05	96	71	
32.33	32.64	0.31	100	45	
32.64	35.69	3.05	100	76	
35.69	38.74	3.05	100	86	
38.74	41.79	3.05	100	93	
41.79	44.84	3.05	94	81	
44.84	46.97	2.13	100	83	
46.97	48.19	1.22	100	96	
48.19	50.94	2.75	100	92	
50.94	53.99	3.05	100	77	
53.99	57.04	3.05	100	93	
57.04	60.09	3.05	92	87	
60.09	60.39	0.30	100	67	
60.39	63.44	3.05	100	88	
63.44	66.49	3.05	100	86	
66.49	69.54	3.05	100	77	
69.54	72.59	3.05	100	91	
72.59	74.73	2.14	100	89	
74.73	76.56	1.83	100	73	
76.56	78.69	2.13	100	77	
78.69	81.44	2.75	100	79	
81.44	83.88	2.44	89	33	
83.88	86.42	2.54	100	78	
86.42	89.06	2.64	86	57	
89.06	90.89	1.83	100	87	
90.89	93.94	3.05	100	82	
93.94	96.69	2.75	91	47	
96.69	98.51	1.82	81	22	
98.51	101.56	3.05	100	82	
101.56	101.87	0.31	100	100	
101.87	104.92	3.05	100	95	
104.92	105.63	0.71	0	0	
105.63	0.00	-105.63	0	0	

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-16

PROJECT: Clone	Date Commenced: 25/06/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-16	Date Completed: 25/06/96		Geotech by: MBW
LENGTH: 182.39	Core Diam: BQTK		

Collar Location

Latitude:	1893.08
Departure:	2003.20
Elevation:	1321.96

S U M M A R Y

0.00-0.81	CASING
0.81-5.00	Hornblende Feldspar xtalline *
5.00-32.94	Hornblende Feldspar xtalline **
32.94-33.00	gouge
33.00-55.30	Hornblende Feldspar xtalline *
55.30-57.60	Biotite Hbl Fdsp xtalline
57.60-69.60	Hornblende Feldspar xtalline *
69.60-73.40	
73.40-82.90	Hornblende Feldspar xtalline *****
82.90-100.78	Hornblende Feldspar xtalline *
100.78-108.30	Biotite Hbl Fdsp xtalline
108.30-123.00	Hornblende Feldspar xtalline **
123.00-129.30	Hornblende Feldspar xtalline *
129.30-130.54	Broken Core *
130.54-147.75	Hornblende Feldspar xtalline ***
147.75-152.31	Biotite Hbl Fdsp xtalline *
152.31-157.30	tuff *
157.30-158.10	
158.10-182.39	Hornblende Feldspar xtalline *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	270.00	-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	0.81	CASING --- -										
		Casing.										
0.81	5.00	Hornblende Feldspar xtalline	45330	0.81-2.00	1.19	2.690	0.80	61.0	54.0	35.0	61.0	12.0
		Redish-green, auto brecciated	45331	2.00-3.00	1.00	0.035	0.10	39.0	99.0	10.0	89.0	10.0
		Frs=10/m :Vns =100/m	45332	3.00-4.00	1.00	0.005	0.10	21.0	53.0	2.5	59.0	6.0
		Strong CL pervasive										
		Weak CB stockwork										
		Weak MT pervasive										
		Strong KS pervasive										
		Strong HE pervasive										
		Green to red, moderate to strong pervasive and autobrecciated chlorite/hematite alteration HFxl with 20% to cryptic sub-anhedral, Hornblende needles to 1mm.. ALTERATION- strong pervasive hematite, strong pervasive and fluid streaming chlorite, weak pervasive magnetite, strong pervasive K-spar, weak calcite stockwork. MINERALIZATION- trace to 1% pyrite.										
	<0.81-5.00>	MINERALIZATION- Trace to 1% pyrite.										
	<0.81-3.70>	Broken Core										
		Moderate broken core, weak limonite fracture fill.										
5.00	32.94	Hornblende Feldspar xtalline	45333	4.00-5.50	1.50	0.010	0.10	13.0	94.0	5.0	70.0	10.0
		Medium grained, green, crystalline	45334	5.50-7.00	1.50	0.760	0.60	26.0	95.0	30.0	123.0	32.0
		stockwork 45°	45335	7.00-8.50	1.50	0.025	0.10	14.0	42.0	20.0	111.0	12.0
		Frs=20/m :Vns =20/m	45336	8.50-10.00	1.50	0.610	0.20	53.0	265.0	45.0	169.0	16.0
		Moderate CL pervasive	45337	10.00-11.50	1.50	2.420	0.80	85.0	203.0	90.0	215.0	18.0
		Moderate CB stockwork	45338	11.50-13.00	1.50	0.270	0.40	37.0	137.0	45.0	239.0	14.0
		Strong KS pervasive	45339	13.00-14.50	1.50	0.375	0.20	29.0	162.0	20.0	176.0	8.0
		Medium to light green, locally mottled and bleached 20	45340	14.50-16.00	1.50	1.830	0.60	44.0	191.0	50.0	148.0	22.0
		to 30%, black to cream Hornblende phenos, cryptic	45341	16.00-17.50	1.50	0.845	0.10	31.0	69.0	20.0	134.0	1.0
		feldspar	45342	17.50-19.00	1.50	2.210	1.00	75.0	134.0	55.0	168.0	8.0
		local euhedral Bi, augites fine grained to aphanitic	45343	19.00-20.50	1.50	6.280	1.40	132.0	230.0	270.0	148.0	24.0
		matrix. ALTERATION- strong pervasive K-spar moderate	45344	20.50-22.00	1.50	0.005	0.10	10.0	15.0	10.0	115.0	1.0
		to strong pervasive and fracture fill chlorite,	45345	22.00-23.50	1.50	0.005	0.10	7.0	8.0	15.0	68.0	1.0
		moderate to strong calcite stockwork commonly 45	45346	23.50-25.00	1.50	0.005	0.10	11.0	10.0	2.5	129.0	1.0
		degrees. MINERALIZATION- 2% pyrite as irregular veins	45347	25.00-26.50	1.50	0.005	0.10	7.0	6.0	2.5	77.0	8.0
		to 10cm. commonly 5mm. with hematite. 1 every 2m.	45348	26.50-28.00	1.50	0.005	0.10	16.0	59.0	20.0	67.0	10.0
	<5.00-32.94>	MINERALIZATION- 2% pyrite as irregular veins to 10cm.,	45349	28.00-29.50	1.50	0.005	0.10	8.0	2.0	5.0	119.0	6.0
		commonly 5mm. with hematite, 1 every 2 meters.	45350	29.50-31.00	1.50	0.005	0.10	8.0	3.0	2.5	62.0	10.0
	<5.49-11.29>	STRUCTURE- moderate broken core, local bleaching with limonite fracture fill.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<15.50-15.60>MINERALIZATION- 2-8mm. pyrite, hematite veins at about 50 degrees.										
		<15.50-15.60> macroveins 50° MINERALIZATION- 2 to 8mm. pyrite/hematite veins at about 50 degrees.										
		<15.80-19.30> Broken Core Moderate to rubbly angular broken core, very rubbly at about 18.0m..										
		<18.90-23.20> Biotite Hbl Fdsp xtalline Fine grained, pale green, porphyritic Bleached porphyric BHFl light green with 30% sub to euhedral cream Hornblende phenos to 3mm., 1% euhedral Biotites? Augites?										
		<19.79-19.90>Irregular fine grained massive pyrite vein or pod.										
		<21.90-25.00> Broken Core fracturing 25° Moderate to strong angular broken core; strong fluid streaming, bleached vuggy calcite veins to 1cm. Fractures and veins at about 20 to 30 degrees to core axis.										
		<27.95-28.05> foliated 30° Strongly bleached BHFl (HFxl?) limonitic foliation at about 30 degrees.										
32.94	33.00	gouge Fault zone; sandy, rusty gouge.	45351	31.00-32.50	1.50	0.005	0.10	9.0	12.0	2.5	56.0	2.0
33.00	55.30	Hornblende Feldspar xtalline	45352	32.50-34.00	1.50	0.010	0.10	11.0	23.0	20.0	68.0	4.0
		Fine grained, green, crystalline	45353	34.00-35.00	1.00	0.005	0.10	15.0	24.0	10.0	56.0	18.0
		Frs=15/m :Vns =25/m	45354	35.00-36.00	1.00	2.810	0.80	384.0	149.0	555.0	55.0	12.0
		Strong CL SHEETED	45355	36.00-37.00	1.00	1.330	0.80	875.0	255.0	1265.0	60.0	20.0
		Moderate CB stockwork	45356	37.00-38.00	1.00	0.005	0.10	16.0	12.0	20.0	55.0	6.0
		Moderate MS pervasive	45398	38.00-39.00	1.00	0.005	0.10	12.0	38.0	2.5	54.0	8.0
		Moderate KS pervasive	45357	39.00-40.00	1.00	0.005	0.10	5.0	1.0	10.0	35.0	1.0
		Trace HE microveins	45358	40.00-41.00	1.00	0.005	0.10	8.0	1.0	5.0	59.0	2.0
		Moderate CV microveins	45359	41.00-42.00	1.00	0.005	0.10	8.0	9.0	2.5	51.0	1.0
		HFxl intercal with indistinct BHFl dykes. Lower	45360	42.00-43.00	1.00	0.005	0.10	10.0	23.0	2.5	64.0	10.0
		contact=10 degrees. moderate to strong chlorite	45361	43.00-44.00	1.00	0.005	0.10	9.0	34.0	2.5	59.0	4.0
		streaming and pervasive 10 to 25% sub to euhedral	45362	44.00-45.00	1.00	0.005	0.10	8.0	73.0	2.5	68.0	1.0
		Hornblende needles to 3mm. 5% to absent cream euhedral	45398	45.00-46.00	1.00	0.005	0.10	8.0	1.0	2.5	70.0	1.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Biotite/augite phenos. HFxl commonly foliated.	45363	46.00-47.00	1.00	0.005	0.10	4.0	1.0	2.5	36.0	1.0
		ALTERATION- weak hematite with calcite in stockwork;	45399	47.00-48.00	1.00	0.005	0.10	5.0	1.0	2.5	52.0	4.0
		moderate to strong calcite. Weak to moderate pervasive	45364	48.00-49.00	1.00	0.005	0.10	6.0	1.0	2.5	69.0	1.0
		sericite, K-spar. MINERALIZATION- trace pyrite within	45365	49.00-50.00	1.00	0.005	0.10	6.0	0.5	2.5	72.0	12.0
		calcite/hematite veins.	45366	50.00-51.00	1.00	0.010	0.10	5.0	0.5	2.5	32.0	2.0
	<33.00-55.30>	MINERALIZATION- Trace pyrite within calcite/hematite	45367	51.00-52.00	1.00	0.005	0.10	7.0	0.5	2.5	46.0	8.0
		veins.	45368	52.00-53.00	1.00	0.005	0.10	8.0	120.0	2.5	52.0	10.0
	<38.95-39.40>	sheeting 30°										
		Moderate HE SHEETED										
		Weak PY disseminated										
		Moderate pervasive hematite sheeting at about 30										
		degrees; trace to 1% fine grained disseminated pyrite.										
	<39.00-41.20>	Chlorite Streaming										
		sheeting 30°										
		Moderate KS SHEETED										
		Weak PY disseminated										
		Strong chlorite fluid streaming at about 30 degrees.										
	<49.50-51.30>	sheeting 50°										
		Moderate CB SHEETED										
		Moderate HE SHEETED										
		Moderate hematite sheeting at about 50 degrees with										
		calcite.										
	<49.85-50.12>	gouge										
		gouge 15°										
		5mm. weak gouge at about 15 degrees.										
55.30	57.60	Biotite Hbl Fdsp xtalline	45369	53.00-54.00	1.00	0.005	0.10	8.0	0.5	2.5	47.0	4.0
		Green, porphyritic	45370	54.00-55.00	1.00	0.005	0.20	6.0	0.5	5.0	38.0	16.0
		Frs=10/m :Vns =10/m	45371	55.00-56.00	1.00	0.005	0.10	8.0	0.5	2.5	53.0	14.0
		Moderate CL pervasive	45372	56.00-57.00	1.00	0.005	0.10	8.0	81.0	2.5	60.0	8.0
		Moderate MS phenocrystal replacement										
		Medium green BHFl with 15% Biotites/augites, sericite										
		altered. Moderate pervasive chlorite indistinct lower										
		contact, on hematite.										
57.60	69.60	Hornblende Feldspar xtalline	45373	57.00-58.00	1.00	0.010	0.10	11.0	52.0	2.5	68.0	26.0
		Green, auto brecciated, crystalline	45374	58.00-59.00	1.00	0.005	0.10	7.0	10.0	2.5	39.0	6.0
		Frs=10/m	45375	59.00-60.00	1.00	0.005	0.10	6.0	31.0	2.5	32.0	4.0
		Strong CL SHEETED	45376	60.00-61.00	1.00	0.005	0.10	7.0	39.0	2.5	56.0	1.0
		Moderate CB patches	45377	61.00-62.00	1.00	0.005	0.20	10.0	55.0	2.5	51.0	6.0
		Moderate HE SHEETED	45378	62.00-63.00	1.00	0.005	0.10	10.0	95.0	15.0	50.0	14.0
		Medium to dark green HFxl with local Biotite/augite	45379	63.00-64.00	1.00	0.620	1.60	24.0	244.0	15.0	114.0	20.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		bearing units moderate to strong chlorite fluid	45380	64.00-65.00	1.00	0.325	1.00	18.0	155.0	5.0	122.0	16.0
		streaming. Hematite within patchy calcite and chlorite	45381	65.00-66.00	1.00	0.005	0.20	11.0	56.0	5.0	82.0	18.0
		veins. MINERALIZATION- trace to 0.5% pyrite,	45382	66.00-67.00	1.00	0.005	0.10	14.0	47.0	65.0	67.0	30.0
		pyrrhotite. chlorite increasing and autobrecciation	45383	67.00-68.00	1.00	0.455	0.40	23.0	112.0	20.0	110.0	30.0
		near lower contact. Up to 20% aphanitic porphyry	45384	68.00-69.00	1.00	0.040	0.10	43.0	94.0	55.0	92.0	1.0
		fragments, moderately bleached.										
	<57.60-69.60>	MINERALIZATION- Trace to 0.5% pyrite, pyrrhotite,										
		chlorite increasing and autobrecciation near lower										
		contact. Up to 20% aphanitic porphyry fragments,										
		moderately bleached.										
	<61.30-62.90>	gouge										
		Dark green										
		gouge 15°										
		Light green bleached HFxl with limonite fracture fill.										
		5mm. chlorite, calcite gouge at 61.6m.										
69.60	73.40	Medium grained, greenish-gray, porphyritic	45385	69.00-70.00	1.00	0.025	0.10	29.0	124.0	20.0	60.0	1.0
		contact 70°	45386	70.00-71.00	1.00	0.015	0.10	35.0	114.0	40.0	53.0	1.0
		Frs=8/m	45387	71.00-72.00	1.00	0.005	0.10	34.0	112.0	25.0	48.0	1.0
		Strong CL SHEETED	45388	72.00-73.00	1.00	0.005	0.10	32.0	111.0	2.5	59.0	1.0
		Strong MS pervasive										
		Weak CV microveins										
		Heterolithic, porphyric altered intrusive breccia;										
		subrounded fine grained ? fragments to 3cm., matrix										
		supported porphyric Hornblende and biotite phenos										
		present. Green gray lower contact=foliation contact at										
		about 70 degrees dark black chloritic.										
73.40	82.90	Hornblende Feldspar xtalline	45389	73.00-74.00	1.00	0.105	0.10	24.0	133.0	10.0	65.0	2.0
		Green, mottled, porphyritic	45390	74.00-75.00	1.00	0.005	0.10	19.0	167.0	2.5	59.0	2.0
		Frs=8/m :Vns =10/m	45391	75.00-76.00	1.00	0.170	0.10	25.0	115.0	2.5	62.0	1.0
		Strong CL pervasive	45392	76.00-77.00	1.00	0.005	0.10	24.0	203.0	15.0	83.0	1.0
		Moderate MS pervasive	45393	77.00-78.00	1.00	0.035	0.10	33.0	31.0	45.0	112.0	1.0
		Moderate MT pervasive	45394	78.00-79.00	1.00	5.890	2.80	370.0	273.0	475.0	119.0	10.0
		Intense KS pervasive	45395	79.00-80.00	1.00	2.350	0.60	810.0	196.0	850.0	152.0	2.0
		Weak HE macroveins	45396	80.00-81.00	1.00	0.900	1.00	152.0	478.0	180.0	82.0	36.0
		Weak PY macroveins	45400	81.00-82.50	1.50	0.150	0.40	51.0	157.0	100.0	61.0	12.0
		Mottled, patchy gray-green to medium gray HFxl with										
		30% subhedral Hornblende phenos to 3mm., dark green to										
		gray, fine grained to aphanitic matrix. ALTERATION-										
		strong to intense pervasive K-spar, strong pervasive										
		chlorite and chlorite sheeting, weak to moderate										
		pervasive hematite and disseminated calcite and										
		structures commonly in calcite veins. Moderate patchy										
		pervasive sericite. MINERALIZATION- 2 to 3% pyrite as										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		veins to 1cm., moderate pervasive and veined magnetite; hematite 2 to 5% with magnetite as irregular veins with K-spar selvages.										
		<73.40-82.90> Weak MT pervasive MINERALIZATION- 2-3% pyrite as veins to 1cm. moderate pervasive and veined magnetite; hematite 2 to 5% with magnetite as irregular veins with K-spar selvages.										
		<75.00-76.30>MINERALIZATION- 6% pervasive hematite.										
		<75.00-76.30>MINERALIZATION- 6% pervasive hematite.										
		<77.99-78.10> Trace MT fine grained MINERALIZATION- 10% fine grained to medium grained pyrite in veins to 8mm. with calcite at about 65 degrees.										
		<77.99-78.10> microveins 65° MINERALIZATION- 10% fine grained to medium grained pyrite in veins to 8mm. with calcite at about 65 degrees.										
		<78.30-82.69> Intense SI SHEETED ALTERATION- in chlorite fluid streams and sheeting, creating brecciated texture.										
		<79.35-79.45>MINERALIZATION- 5cm. wide hematite, chlorite, magnetite vein at about 30 degrees.										
		<79.35-79.45> macroveins 30° MINERALIZATION- 5cm. wide hematite/chlorite/magnetite vein at about 30 degrees.										
		<82.00-82.90> Broken Core Weak broken core with limonite fracture fill.										
		<82.57-82.69>MINERALIZATION- Wispy hematite, magnetite, pyrite stringer at about 45 degrees.										
		<82.57-82.69> microveins 45° MINERALIZATION- wispy hematite/magnetite/pyrite stringer at about 45 degrees.										
82.90	100.78	Hornblende Feldspar xtalline	45401	82.50-84.00	1.50	0.005	0.10	28.0	62.0	35.0	70.0	12.0
		Green, massive, porphyritic	45402	84.00-85.40	1.40	0.005	0.10	25.0	55.0	25.0	89.0	4.0
		Frs=20/m :Vns =5/m	45403	85.40-87.00	1.60	0.005	0.10	17.0	57.0	15.0	71.0	8.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak PY disseminated	45404	87.00-88.50	1.50	0.005	0.20	18.0	171.0	20.0	101.0	4.0
		Massive medium green HFxl with 25% subhedral, dark	45405	88.50-90.00	1.50	0.005	0.20	16.0	226.0	15.0	56.0	4.0
		green Hornblende needles locally aligned up to 2mm. in	45406	90.00-91.50	1.50	0.005	0.10	13.0	149.0	20.0	53.0	6.0
		length, local anhedral Fxl ghosts fine grained to	45407	91.50-93.00	1.50	0.005	0.10	12.0	84.0	20.0	51.0	10.0
		aphanitic matrix. ALTERATION- moderate pervasive	45408	93.00-94.50	1.50	0.005	0.10	12.0	121.0	30.0	50.0	6.0
		chlorite, weak to moderate pervasive sericite,	45409	94.50-96.00	1.50	0.005	0.10	14.0	108.0	35.0	38.0	6.0
		moderate pervasive and vein selvages K-spar, weak	45410	96.00-97.50	1.50	0.005	0.10	10.0	96.0	35.0	50.0	6.0
		calcite fracture fill. MINERALIZATION- trace to 1%	45411	97.50-99.00	1.50	0.005	0.10	8.0	61.0	25.0	37.0	4.0
		pyrite, trace to 1% pyrrhotite as wispy dissemination.	45412	99.00-100.50	1.50	0.045	0.10	31.0	64.0	50.0	40.0	4.0
	<82.90-100.78	MINERALIZATION- Trace to 1% pyrite, trace to 1%										
		pyrrhotite as wispy disseminated.										
	<82.91-92.00>	Broken Core										
		D.A.P. 82.0 to 82.9										
	<95.10-95.60>	calcite vein										
		macroveins 10°										
		Irregular chlorite, calcite, pyrrhotite tension										
		fractures, approximately 10 degrees.										
100.78	108.30	Biotite Hbl Fdsp xtalline	45413	100.50-102.00	1.50	0.100	0.10	25.0	121.0	245.0	75.0	6.0
		Green, massive, crystalline	45414	102.00-103.50	1.50	0.005	0.10	14.0	31.0	470.0	54.0	8.0
		stockwork 60°	45415	103.50-105.00	1.50	0.005	0.10	18.0	30.0	290.0	45.0	6.0
		Frs=4/m :Vns =20/m	45416	105.00-106.50	1.50	0.005	0.10	16.0	37.0	170.0	50.0	6.0
		Moderate CL pervasive	45417	106.50-108.00	1.50	0.005	0.10	11.0	29.0	180.0	45.0	8.0
		Moderate CB stockwork										
		Moderate KS pervasive										
		Trace PY disseminated										
		Medium green BHFl or end member HFxl. 35% cream to										
		gray subhedral, Hornblende needles to 2mm., fine										
		grained to aphanitic matrix. ALTERATION- moderate										
		pervasive K-spar, chlorite weak to moderate sericite										
		replacement phenos. moderate calcite stockwork.										
		MINERALIZATION- trace to 1%, trace to 1% disseminated.										
		Graduating lower contact.										
108.30	123.00	Hornblende Feldspar xtalline	45418	108.00-109.50	1.50	0.005	0.10	13.0	27.0	340.0	45.0	6.0
		Mottled	45419	109.50-111.00	1.50	0.005	0.10	39.0	43.0	120.0	39.0	8.0
		stockwork 70°	45420	111.00-112.50	1.50	0.465	0.40	32.0	127.0	40.0	87.0	6.0
		Frs=6/m :Vns =10/m	45421	112.50-114.00	1.50	0.210	0.20	61.0	231.0	80.0	194.0	6.0
		Strong CL SHEETED	45422	114.00-115.50	1.50	0.045	0.40	60.0	235.0	60.0	217.0	10.0
		Moderate CB stockwork	45423	115.50-117.00	1.50	0.005	0.20	30.0	218.0	15.0	154.0	6.0
		Weak GY disseminated	45424	117.00-118.50	1.50	0.085	0.60	39.0	308.0	25.0	153.0	10.0
		Weak MT pervasive	45425	118.50-120.00	1.50	0.075	0.20	38.0	186.0	40.0	140.0	8.0
		Strong KS selvages	45426	120.00-121.50	1.50	0.120	0.10	40.0	96.0	70.0	90.0	14.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak HE disseminated Weak PY disseminated Medium to dark green HFx1, cryptic to 20% anhedral to subhedral Hornblende phenos. Fine grained mottled aphanitic matrix. ALTERATION- patchy strong to weak K-spar selvages within strong chlorite streaming, moderate calcite stockwork. MINERALIZATION- trace to 3% disseminated pyrite, pyrrhotite, trace to 1% disseminated hematite crystals, weak pervasive magnetism.	45427	121.50-123.00	1.50	0.015	0.10	36.0	123.0	35.0	111.0	10.0
<108.30-123.00>		Weak MT disseminated MINERALIZATION- Trace to 3% disseminated pyrite, pyrrhotite trace to 1% disseminated hematite crystals, weak pervasive magnetism.										
<111.45-118.70>		MINERALIZATION- 2-3% pyrite, 1% hematite in stringers.										
<111.45-118.70>		Strong CL SHEETED Intense KS selvages MINERALIZATION- 2-3% pyrite, 1% hematite in stringers. ALTERATION- intense K-spar selvages, mottled brecciated appearance, medium to dark gray K-spar selvages.										
<120.60-123.00>		foliated 50° Sericite foliation at about 60 degrees.										
123.00	129.30	Hornblende Feldspar xtalline foliated 0°:fracturing 15° Fault zone, traces of fine grained gouge, rubbly angular broken core, that rock may be sericitized sediments? Likely HFx1 foliation at 0 degrees to core axis, fractures commonly 10 to 20 degrees to core axis, weak limonite fracture fill.	45428	123.00-124.50	1.50	0.090	0.10	38.0	135.0	110.0	82.0	14.0
<125.60-129.30>		Frs=4/m :Vns =8/m Weak CL pervasive Weak CB stockwork Moderate MS pervasive Moderate KS pervasive Moderate PY disseminated Medium green HFx with 35% light green to glassy subhedral, Hornblende phenos to 3mm.. ALTERATION- moderate to strong pervasive sericite, weak to moderate pervasive chlorite, locally patchy strong to moderate pervasive K-spar, stockwork calcite.	45429 45430 45431	124.50-126.00 126.00-127.50 127.50-129.00	1.50 1.50 1.50	0.045 0.065 0.110	0.10 0.40 0.10	31.0 22.0 42.0	123.0 132.0 202.0	30.0 20.0 60.0	80.0 76.0 121.0	8.0 14.0 14.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		MINERALIZATION- 2 to 4% pyrite, 1 to 3% pyrrhotite, increasing near lower conatct as fine grained granular patches and wispy disseminated.										
	<125.60-129.30	MINERALIZATION- 2-4% pyrite, 1-3% pyrrhotite, increasing near lower contact as fine grained granular patches and wispy dissemination.										
129.30	130.54	Broken Core fracturing 35° Weak fault zone within weak S-zone. Rubbly angular broken core, orientation at about 35 degrees. MINERALIZATION- 6% wispy pyrite, 1% pyrrhotite, trace arsenopyrite; moderate bleaching and limonite fracture fill.	45432	129.00-130.50	1.50	1.660	0.80	128.0	257.0	910.0	116.0	16.0
	<129.30-130.54	MINERALIZATION- 6% wispy pyrite, 1% pyrrhotite, trace arsenopyrite; moderate bleaching and limonite fracture fill.										
130.54	147.75	Hornblende Feldspar xtalline	45433	130.50-132.00	1.50	2.470	1.20	86.0	276.0	295.0	111.0	42.0
		Redish-green, crystalline, massive	45434	132.00-133.50	1.50	0.525	0.40	113.0	154.0	640.0	113.0	20.0
		Frs=5/m :Vns =10/m	45435	133.50-135.00	1.50	0.020	0.10	32.0	48.0	40.0	93.0	10.0
		Moderate CL pervasive	45436	135.00-136.50	1.50	0.055	0.20	39.0	148.0	55.0	108.0	14.0
		Moderate CB stockwork	45437	136.50-138.00	1.50	0.330	0.10	90.0	54.0	395.0	127.0	12.0
		Moderate MS pervasive	45438	138.00-139.50	1.50	0.025	0.10	67.0	61.0	60.0	152.0	14.0
		Moderate KS pervasive	45439	139.50-141.00	1.50	0.105	0.10	103.0	67.0	105.0	135.0	12.0
		Trace HE disseminated	45440	141.00-142.50	1.50	0.345	0.10	139.0	93.0	955.0	122.0	14.0
		Weak PY disseminated	45441	142.50-144.00	1.50	0.490	0.20	121.0	43.0	610.0	120.0	16.0
		Medium gray to green HFxl with 30 to 35% subhedral,	45442	144.00-145.50	1.50	1.140	0.80	38.0	183.0	170.0	128.0	26.0
		Hornblende needles to 2mm., fine grained to aphanitic	45443	145.50-147.00	1.50	0.690	0.60	82.0	86.0	550.0	132.0	32.0
		matrix. Autobrecciated near upper contact. ALTERATION- moderate to strong pervasive K-spar, moderate pervasive and fracture fill chlorite, weak to moderate calcite fracture fill and stockwork. MINERALIZATION- 1 to 3% pyrite absent to trace disseminated hematite, arsenopyrite stringers to 3mm., 1 to 3% disseminated pyrrhotite. Indistinct lower contact.										
	<130.54-147.75	MINERALIZATION- 1 to 3% pyrite, absent to trace disseminated hematite, arsenopyrite stringers to 3mm., 1 to 3% disseminated pyrrhotite. Indistinct lower contact.										
	<130.54-133.00	Homolithic intrusive breccia, graduating away from										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		upper contact, 35% subhedral light green HFxl matrix within HFxl dark green matrix.										
		<136.75-136.95> MINERALIZATION- 3mm. arsenopyrite stringers at about 20 degrees.										
		<136.75-136.95> microveins 20° MINERALIZATION- 3mm arsenopyrite stringer at about 20 degrees.										
		<138.70-139.30> Broken Core fracturing 10° STRUCTURE- moderate broken core, fracture at about 10 degrees to core axis, weak limonite fracture fill.										
		<140.50-147.75> MINERALIZATION- 1-2% hematite with calcite in veins to 8mm. at about 20 degrees with strong K-spar selvages, one every 2mm., 1% arsenopyrite with chlorite and magnetite in irregular low angular veins to 2mm., weak S-zone.										
		<140.50-147.75> microveins 10° MINERALIZATION- 1 to 2% hematite with calcite in veins to 8mm. at about 20 degrees with strong K-spar selvages, one every 2mm; 1% arsenopyrite with chlorite/magnetite in irregular low angle veins to 3mm., weak S-zone.										
147.75	152.31	Biotite Hbl Fdsp xtalline	45444	147.00-148.50	1.50	2.140	1.20	172.0	158.0	1635.0	126.0	12.0
		Medium grained, dark green, crystalline	45445	148.50-150.00	1.50	0.030	0.80	16.0	128.0	55.0	78.0	20.0
		microveins 80°	45446	150.00-151.50	1.50	0.005	0.40	10.0	49.0	15.0	57.0	16.0
		Frs=5/m :Vns =10/m										
		Moderate CL microveins										
		Moderate CB stockwork										
		Strong MS patches										
		Moderate KS microveins										
		Trace PY disseminated										
		Medium green mottled BHFl with 25% cream subhedral, Hornblende phenos to 2mm., 5% euhedral Bi, augites phenos to 4mm. fine grained matrix. ALTERATION- moderate to strong pervasive chlorite, patchy strong sericite, moderate to strong stockwork calcite fracture fill. Moderate pervasive K-spar. MINERALIZATION- trace pyrite, pyrrhotite.										
		<147.75-152.31> MINERALIZATION- Trace pyrite, pyrrhotite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
152.31	157.30	tuff	45447	151.50-152.50	1.00	0.005	0.40	10.0	29.0	10.0	46.0	6.0
		Green, foliated	45448	152.50-154.00	1.50	0.005	1.20	27.0	106.0	25.0	111.0	8.0
		foliated 75°	45449	154.00-155.50	1.50	0.005	0.40	16.0	113.0	2.5	109.0	1.0
		Moderate PY foliated	45450	155.50-156.50	1.00	0.005	0.60	21.0	92.0	15.0	98.0	1.0
		Foliated calcite within HFxl at about 75 degrees, pressure shadows and angular texture, strong chlorite, calcite phenos. MINERALIZATION- 5% very fine grained to fine grained foliated pyrite with less dissemination, trace disseminated hematite, weak limonite fracture fill.										
	<152.31-157.30>	Intense MT foliated MINERALIZATION- 5% very fine grained to fine grained foliated pyrite with less dissemination, trace of disseminated hematite, weak limonite fracture fill.										
	<157.30-158.10>	Fault zone, 2% fine grained gouge, 50cm. core loss, trace of malachite fracture fill.	45451	156.50-158.00	1.50	0.015	0.20	36.0	136.0	10.0	165.0	14.0
158.10	182.39	Hornblende Feldspar xtalline	45452	158.00-159.50	1.50	0.005	0.60	37.0	95.0	30.0	133.0	20.0
		Fine grained, dark green, crystalline	45453	159.50-161.00	1.50	0.005	0.10	33.0	146.0	2.5	134.0	16.0
		Frs=5/m :Vns =10/m	45454	161.00-162.50	1.50	0.070	0.10	41.0	110.0	2.5	181.0	14.0
		Moderate CL pervasive	45455	162.50-164.00	1.50	0.005	0.10	45.0	123.0	2.5	125.0	12.0
		Moderate MS pervasive	45456	164.00-165.50	1.50	0.010	0.40	48.0	282.0	2.5	113.0	34.0
		Moderate KS pervasive	45457	165.50-167.00	1.50	0.005	0.60	35.0	278.0	10.0	113.0	22.0
		Trace PY disseminated	45458	167.00-168.50	1.50	0.005	0.10	31.0	211.0	2.5	149.0	16.0
		Medium to dark green to gray-green, locally mottled,	45459	168.50-170.00	1.50	0.005	0.10	39.0	130.0	25.0	141.0	26.0
		locally foliated HFxl with faint 30 to 70%	45460	170.00-171.50	1.50	0.010	1.00	37.0	219.0	65.0	147.0	46.0
		sub-anhedral, Hornblende phenos to 1mm. ALTERATION-	45461	171.50-173.00	1.50	0.005	0.40	32.0	173.0	20.0	151.0	36.0
		moderate pervasive sericite, chlorite, weak epidote	45462	173.00-174.50	1.50	0.005	0.10	40.0	153.0	2.5	158.0	24.0
		fracture fill nodule, weak to moderate stockwork	45463	174.50-176.00	1.50	0.005	0.10	35.0	104.0	2.5	99.0	34.0
		calcite, iron-carbonate, local quartz with iron	45464	176.00-177.50	1.50	0.005	0.10	40.0	112.0	15.0	84.0	12.0
		carbonate veins. MINERALIZATION- trace to 3% fine	45465	177.50-179.00	1.50	0.005	0.10	37.0	102.0	2.5	109.0	18.0
		grained pyrite, pyrrhotite as fine grained	45466	179.00-180.50	1.50	0.005	0.10	41.0	26.0	2.5	117.0	20.0
		disseminated patches.	45467	180.50-181.50	1.00	0.005	0.10	42.0	110.0	2.5	122.0	28.0
	<158.10-182.39>	Weak MT fine grained MINERALIZATION- Trace to 3% fine grained pyrite, pyrrhotite as fine grained disseminated patches.	45468	181.50-182.39	0.89	0.005	0.10	44.0	35.0	2.5	105.0	18.0
	<173.70-173.80>	QUARTZ VEIN vein 70° 3cm. quartz, iron-carbonate, calcite vein at about 70 degrees.										
(eoh)												

11/29/96

Hole: CL96-16 GEOTECHNICAL DATA Page: 1

From	TO	Measured Width	Recovery	RQD	Hardness
0.81	5.49	4.68	100	33	
5.49	8.54	3.05	93	33	
8.54	11.29	2.75	93	37	
11.29	14.34	3.05	95	63	
14.34	17.69	3.35	93	17	
17.69	20.74	3.05	95	8	
20.74	23.49	2.75	89	15	
23.49	26.84	3.35	98	57	
26.84	29.89	3.05	81	30	
29.89	32.94	3.05	95	60	
32.94	35.99	3.05	100	70	
35.99	39.04	3.05	97	90	
39.04	42.09	3.05	100	94	
42.09	45.14	3.05	96	87	
45.14	48.19	3.05	86	80	
48.19	50.33	2.14	0	0	

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-18

PROJECT: Clone	Date Commenced: 27/06/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-18	Date Completed: 28/06/96		Geotech by: DBL
LENGTH: 196.90	Core Diam: BQTK		

Collar Location

Latitude:	1985.55
Departure:	2005.41
Elevation:	1381.20

S U M M A R Y

0.00-1.05	CASING
1.05-5.00	Hornblende Feldspar xtalline *
5.00-14.50	Hornblende Feldspar xtalline
14.50-23.75	Hornblende Feldspar xtalline *
23.75-44.82	Hornblende Feldspar xtalline ***
44.82-83.00	Hornblende Feldspar xtalline *****
83.00-84.90	Chlorite Streaming
84.90-113.80	Hornblende Feldspar xtalline *
113.80-123.75	Hornblende Feldspar xtalline *******
123.75-128.01	MASSIVE SULPHIDE VEIN *
128.01-150.80	Hornblende Feldspar xtalline *
150.80-159.90	Biotite Hbl Fdsp xtalline *
159.90-171.60	Hornblende Feldspar xtalline
171.60-196.90	Biotite Hbl Fdsp xtalline *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	245.00	-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	1.05	CASING Casing.										
1.05	5.00	Hornblende Feldspar xtalline Fine grained, redish-green, auto brecciated foliated 75° Frs=8/m :Vns =10/m Moderate SI patches Moderate CL pervasive Weak CB stockwork Weak MS patches Trace MT pervasive Strong KS patches Weak EP microveins Strong HE pervasive Weak SE disseminated Weak CV microveins Mottled to lineated red and light to medium green HFxl with local Hornblende phenos, sub to anhedral to 2mm., very fine grained to aphanitic matrix. Autobrecciated HFxl fragments ringed by strong hematite alteration strong patchy K-spar, sericite, moderate pervasive chlorite, weak calcite locally with epidote and specularite, to 3cm.. 2 per meter. Moderate patch silica within area of intense hematite. MINERALIZATION- trace calcopyrite, trace specularite weak to absent magnetite. Lower contact=rubble zone.	45620 45621 45622 45623	1.05-2.00 2.00-3.00 3.00-4.00 4.00-5.00	0.95 1.00 1.00 1.00	0.749 0.195 0.040 0.005	0.40 0.60 0.20 0.10	31.0 48.0 33.0 27.0	36.0 135.0 139.0 110.0	20.0 25.0 20.0 10.0	165.0 367.0 202.0 116.0	22.0 18.0 18.0 18.0
<1.05-5.00>		MINERALIZATION- Trace of calcopyrite, trace of specularite, weak to absent magnetite. Lower contact=rubble zone.										
5.00	14.50	Hornblende Feldspar xtalline Fine grained, redish-green, auto brecciated, crystalline stockwork 60° Frs=12/m :Vns =20/m Strong CL pervasive Moderate CB stockwork Moderate KS pervasive Weak EP microveins Moderate HE wispy Medium green autobrecciated HFxl with wispy hematite fluid fronts surrounding autobrecciated fragments 15 to 25% sub-anhedral light green to light gray Hornblende phenos to 2mm., very fine grained to aphanitic matrix. ALTERATION- strong pervasive	45624 45625 45626 45627 45628 45629 45630 45631 45632	5.00-6.00 6.00-7.00 7.00-8.00 8.00-9.00 9.00-10.00 10.00-11.00 11.00-12.00 12.00-13.00 13.00-14.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.060 0.020 0.005 0.005 0.005 0.005 0.005 0.005 0.010	8.80 6.80 8.40 0.10 0.10 0.40 0.10 0.40 3.20	47.0 49.0 45.0 42.0 40.0 46.0 40.0 43.0 51.0	10800.0 9143.0 9606.0 474.0 538.0 638.0 105.0 550.0 2559.0	20.0 10.0 10.0 15.0 15.0 15.0 20.0 30.0 30.0	120.0 129.0 114.0 95.0 84.0 89.0 93.0 101.0 126.0	18.0 16.0 14.0 16.0 18.0 18.0 18.0 18.0 22.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		chlorite, moderate pervasive K-spar, wispy moderate hematite, weak epidote with calcite in stockwork, moderate calcite as stockwork at 60 degrees.										
		<5.00-6.95> Broken Core fracturing 55° Moderate rubbly broken core; moderate limonite and malachite fracture fill, fractures common at about 55 degrees.										
		<12.98-13.07> calcite vein macroveins 40° Irregular calcite, hematite, chlorite vein at about 40 degrees.										
14.50	23.75	Hornblende Feldspar xtalline	45633	14.00-15.00	1.00	0.090	0.10	52.0	141.0	20.0	189.0	16.0
		Aphanitic, red, mottled, foliated	45634	15.00-16.00	1.00	0.675	0.10	208.0	285.0	40.0	543.0	22.0
		foliated 30°:stockwork 30°	45635	16.00-17.00	1.00	0.105	0.10	91.0	52.0	30.0	216.0	36.0
		Frs=8/m :Vns =100/m	45636	17.00-18.00	1.00	0.220	0.10	315.0	76.0	80.0	737.0	26.0
		Moderate SI patches	45637	18.00-19.00	1.00	0.085	0.10	328.0	44.0	70.0	631.0	28.0
		?? CL pervasive	45638	19.00-20.00	1.00	3.970	0.20	595.0	116.0	115.0	244.0	40.0
		Weak CB microveins	45639	20.00-21.00	1.00	0.010	0.20	231.0	72.0	40.0	388.0	36.0
		Trace MT pervasive	45640	21.00-22.00	1.00	1.320	0.10	38.0	89.0	30.0	373.0	28.0
		Strong KS patches	45641	22.00-23.00	1.00	0.175	0.10	18.0	33.0	15.0	275.0	38.0
		Weak EP microveins										
		Intense HE pervasive										
		Weak SE microveins										
		H-zone, medium red mottled HFxl?; no observable phenos. ALTERATION- intense pervasive hematite locally foliated to semi-massive, strong patchy K-spar, strong patches silica, moderate calcite, specularite stockwork to 30 degrees, weak absent per magnetite, moderate to weak calcite stockwork with epidote. MINERALIZATION- 25% hematite, 2% specularite. Lower contact=65 degrees										
		<14.50-23.75>MINERALIZATION- 25% hematite, 2% specularite. Lower contact=65 degrees.										
		<15.70-17.70> hematite vein microveins 30° Semi-massive hematite, 2 specularite/calcite veins, 1 per meter, 40% hematite to 3mm. at about 30 degrees.										
		<17.10-17.70> foliated 30° Hematite foliation at about 30 degrees.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<19.20-20.60> calcite vein microveins 30° Calcite>epidote>specularite tension fractures at about 30 degrees.										
23.75	44.82	Hornblende Feldspar xtalline	45705	23.00-24.00	1.00							
		Fine grained, redish-green, auto brecciated, crystalline	45642	24.00-25.00	1.00	0.050	0.10	51.0	265.0	20.0	141.0	20.0
		stockwork 45°	45643	25.00-26.00	1.00	0.005	0.10	43.0	164.0	20.0	75.0	16.0
		Trace SI patches	45644	26.00-27.00	1.00	0.005	0.10	41.0	165.0	25.0	64.0	16.0
		Strong CL pervasive	45645	27.00-28.00	1.00	0.005	0.10	45.0	502.0	40.0	68.0	18.0
		Moderate CB microveins	45646	28.00-29.00	1.00	0.005	0.10	39.0	152.0	35.0	70.0	12.0
		Moderate KS patches	45647	29.00-30.00	1.00	0.285	0.10	50.0	246.0	40.0	77.0	16.0
		Weak EP microveins	45648	30.00-31.00	1.00	0.260	0.10	45.0	109.0	35.0	87.0	12.0
		Moderate HE wispy	45649	31.00-32.00	1.00	0.080	0.10	38.0	89.0	40.0	63.0	16.0
		Trace PY disseminated	45650	32.00-33.00	1.00	0.005	0.10	44.0	135.0	50.0	60.0	12.0
		Medium green mottled red HFx1, autobrecciated HFx1	45651	33.00-34.00	1.00	0.345	0.80	13.0	305.0	60.0	97.0	12.0
		with local Hornblende phenos to 3mm., light green to	45652	34.00-35.00	1.00	1.010	1.80	36.0	326.0	235.0	161.0	16.0
		light gray, usually cryptic, fine grained to aphanitic	45653	35.00-36.00	1.00	0.045	0.80	28.0	195.0	195.0	250.0	18.0
		matrix. ALTERATION- strong pervasive chlorite,	45654	36.00-37.00	1.00	0.050	1.80	11.0	780.0	55.0	607.0	16.0
		moderate patchy K-spar, trace patchy silica,	45655	37.00-38.00	1.00	0.520	1.20	19.0	309.0	60.0	119.0	18.0
		epidote/calcite veinlets commonly at about 45 degrees,	45656	38.00-39.00	1.00	0.140	1.40	25.0	178.0	1285.0	80.0	56.0
		5 per meter. MINERALIZATION- absent to 0.5% pyrite	45657	39.00-40.00	1.00	0.060	0.60	38.0	105.0	605.0	81.0	20.0
		increasing near lower contact with hematite, trace	45658	40.00-41.00	1.00	0.065	0.60	16.0	79.0	55.0	97.0	22.0
		calcopyrite, trace malachite 5% hematite as wispy	45659	41.00-42.00	1.00	0.025	0.40	17.0	76.0	85.0	81.0	20.0
		dissemination and stockwork.	45660	42.00-43.00	1.00	0.075	0.40	26.0	91.0	105.0	80.0	22.0
		<23.75-35.50>MINERALIZATION- Absent to 0.5% pyrite increasing near lower contact with hematite, trace calcopyrite, trace malachite, 5% hematite as wispy dissemination and stockwork.										
		<24.80-26.60> calcite vein Calcite/epidote/hematite veins, irregularly at about 45 degrees, ribboned, 2 per meter, up to 4cm..										
		<35.50-36.40>MINERALIZATION- patchy/wispy/irregular stockwork hematite 8%.										
		<35.50-36.40>MINERALIZATION- patchy/wispy/irregular stockwork hematite 8%.										
		<42.05-42.35>MINERALIZATION- 0.5% calcopyrite, 0.5% pyrite, trace malachite within quartz/calcite/iron-carbonate/chlorite veins.										
		<42.05-42.35>MINERALIZATION- 0.5% calcopyrite, 0.5% pyrite, trace										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		malachite within quartz/calcite/iron-carbonate/chlorite veins.										
<42.35-44.82>		MINERALIZATION- 0.5% pyrite with 6% wispy hematite, with patchy specularite and silica alteration.	45661	43.00-44.00	1.00	0.005	0.10	23.0	122.0	10.0	110.0	20.0
44.82	83.00	Hornblende Feldspar xtalline	45662	44.00-45.00	1.00	0.120	0.10	31.0	250.0	20.0	50.0	22.0
		Fine grained, green, mottled, crystalline	45663	45.00-46.00	1.00	0.005	0.10	31.0	136.0	20.0	50.0	26.0
		stockwork 65°	45664	46.00-47.00	1.00	0.005	0.10	41.0	209.0	55.0	50.0	30.0
		Frs=8/m :Vns =20/m	45665	47.00-48.00	1.00	0.005	0.10	35.0	161.0	35.0	72.0	24.0
		Weak CL pervasive	45666	48.00-49.00	1.00	0.005	0.10	41.0	137.0	45.0	79.0	30.0
		Moderate CB stockwork	45667	49.00-50.00	1.00	0.005	0.10	30.0	101.0	35.0	68.0	28.0
		Moderate KS pervasive	45668	50.00-51.00	1.00	0.005	0.10	26.0	71.0	55.0	77.0	34.0
		Weak HE macroveins	45669	51.00-52.00	1.00	0.035	0.10	34.0	214.0	35.0	58.0	34.0
		Weak PY disseminated	45670	52.00-53.00	1.00	0.005	0.10	29.0	175.0	30.0	68.0	30.0
		Moderate CV microveins	45671	53.00-54.00	1.00	0.005	0.10	44.0	199.0	65.0	80.0	26.0
		HFxl medium grn to gray-green mottled fine grained	45672	54.00-55.00	1.00	0.005	0.10	43.0	193.0	35.0	73.0	24.0
		HFxl with 20% dark green subhedral Hornblende phenos	45673	55.00-56.00	1.00	0.040	0.40	37.0	206.0	5.0	73.0	24.0
		to 2mm. ALTERATION- moderate pervasive chlorite and	45674	56.00-57.50	1.50	0.095	1.00	60.0	720.0	90.0	112.0	26.0
		fluid streaming weak to moderate pervasive and patchy	45675	57.50-59.00	1.50	0.035	0.10	33.0	364.0	60.0	76.0	26.0
		K-spar, moderate irregular calcite stockwork, weak to	45676	59.00-60.50	1.50	0.155	0.10	49.0	336.0	80.0	86.0	24.0
		moderate pervasive sericite increasing towards lower	45677	60.50-62.00	1.50	0.065	0.10	38.0	345.0	50.0	123.0	24.0
		contact. MINERALIZATION- 1-5% pyrite, moderate to	45678	62.00-63.50	1.50	0.020	0.10	35.0	305.0	60.0	136.0	30.0
		absent wispy hematite, with calcite in irregular	45679	63.50-65.00	1.50	0.005	0.10	34.0	271.0	75.0	86.0	28.0
		calcite stockwork. Lower contact=fluid streaming.	45680	65.00-66.50	1.50	0.800	0.40	82.0	462.0	245.0	113.0	32.0
<44.83-45.80>		D.A.P 42.35 to 44.82										
<45.50-52.90>		1-5% pyrite, moderate to absent wispy hematite, with calcite in irregular calcite stockwork. Lower contact =fluid streaming										
<52.90-56.35>		Weak MT disseminated 8% hematite, 2% disseminated pyrite.										
<52.90-56.35>		Hornblende Feldspar xtalline Auto brecciated Moderate HE wispy Weak PY disseminated Autobrecciated HFxl wispy hematite with less pervasive and stockwork at about 75 degrees. MINERALIZATION- 8% hematite, 2% disseminated pyrite.										
<59.10-59.18>		hematite vein macroveins 50° Hematite/calcite/pyrite/chlorite vein, 4cm at about 50 degrees.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<60.05-61.60> ?? MT disseminated MINERALIZATION- 6% disseminated pyrite, trace of wispy hematite.										
		<60.05-61.60>MINERALIZATION- 6% disseminated pyrite, trace of wispy hematite.										
		<65.50-67.35>5% wispy fine grained to medium grained disseminated pyrite, 3% hematite with calcite and chlorite in veins to 5cm. at about 70 degrees. Intense chlorite fluid streaming near lower contact.										
		<65.50-67.50>MINERALIZATION- 5% wispy, fine grained to medium grained disseminated pyrite, 3% hematite with calcite and chlorite in veins to 5cm. at about 70 degrees. Intense chlorite fluid streaming near lower contact.										
		<67.35-67.55> Trace MT fine grained 10% fine grained pyrite.										
		<67.35-67.55> shear zone Intense CL SHEETED Chloritic/pyritic shear zone at about 70 degrees; limonite fracture fill. MINERALIZATION- 10% fine grained pyrite.										
		<68.03-74.20> Chlorite Streaming	45681	66.50-68.00	1.50	0.005	0.10	42.0	114.0	125.0	75.0	30.0
		Auto brecciated	45682	68.00-69.50	1.50	0.010	0.10	43.0	116.0	170.0	113.0	36.0
		foliated 20°	45683	69.50-71.00	1.50	0.015	0.10	48.0	144.0	110.0	135.0	28.0
		Intense CL SHEETED	45684	71.00-72.50	1.50	0.005	0.10	41.0	115.0	75.0	98.0	30.0
		Intense chloritic foliation/fluid streaming creating brecciated appearance, local weak limonite fracture fill.	45685	72.50-74.00	1.50	0.005	0.10	42.0	110.0	100.0	86.0	26.0
		<75.70-77.70>Weak broken core, limonite fracture fill.	45686	74.00-75.50	1.50	0.005	0.10	39.0	127.0	80.0	75.0	24.0
83.00	84.90	Chlorite Streaming	45687	75.50-77.00	1.50	0.005	0.10	41.0	145.0	85.0	85.0	28.0
		Fine grained, dark green, Brecciated	45688	77.00-78.00	1.00	0.040	0.10	40.0	200.0	1045.0	84.0	18.0
		sheeting 30°	45689	78.00-79.50	1.50	0.035	0.10	45.0	160.0	245.0	83.0	14.0
		Frs=10/m :Vns =100/m	45690	79.50-81.00	1.50	0.005	0.10	45.0	235.0	115.0	77.0	16.0
		Intense CL SHEETED	45691	81.00-82.50	1.50	0.005	0.10	12.0	88.0	15.0	51.0	1.0
		Intense chloritic streaming causing brecciated appearance and/or shearing likely overpointed by a weak foliation zone. ALTERATION- intense chloritic sheeting; moderate limonite fracture fill. Foliation/streaming at about 30 degrees.	45692	82.50-84.00	1.50	0.210	0.40	14.0	265.0	175.0	71.0	1.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
84.90	113.80	Hornblende Feldspar xtalline	45693	84.00-85.50	1.50	0.055	0.20	16.0	105.0	50.0	66.0	4.0
		Fine grained, redish-green, crystalline	45694	85.50-87.00	1.50	0.005	0.10	12.0	76.0	20.0	54.0	1.0
		Frs=8/m :Vns =6/m	45695	87.00-88.50	1.50	0.005	0.10	11.0	72.0	10.0	48.0	1.0
		Moderate CL pervasive	45696	88.50-90.00	1.50	0.010	0.10	14.0	81.0	5.0	54.0	1.0
		Weak CB stockwork	45697	90.00-91.50	1.50	0.005	0.10	13.0	140.0	20.0	51.0	1.0
		Moderate MS pervasive	45698	91.50-93.00	1.50	0.310	1.80	25.0	1034.0	20.0	77.0	1.0
		Moderate KS pervasive	45699	93.00-94.50	1.50	0.385	0.80	36.0	413.0	40.0	88.0	1.0
		Trace HE disseminated	45700	94.50-96.00	1.50	0.185	0.10	16.0	203.0	15.0	50.0	1.0
		Trace PY disseminated	45701	96.00-97.50	1.50	0.005	0.10	16.0	142.0	15.0	49.0	1.0
		Medium gray to green massive HFxl with 35% subhedral	45702	97.50-99.00	1.50	0.055	0.10	13.0	102.0	10.0	43.0	6.0
		light gray to dark green Hornblende phenos fine	45703	99.00-100.50	1.50	0.005	0.10	13.0	85.0	20.0	41.0	1.0
		grained to aphanitic matrix. ALTERATION- moderate	45704	100.50-102.00	1.50	1.130	0.60	97.0	116.0	600.0	81.0	1.0
		pervasive chlorite, moderate pervasive sericite,	45706	102.00-103.50	1.50	0.735	0.80	103.0	338.0	715.0	93.0	1.0
		moderate to strong pervasive K-spar, weak to moderate	45707	103.50-105.00	1.50	0.250	0.80	49.0	290.0	125.0	77.0	1.0
		calcite stockwork and fracture fill. MINERALIZATION-	45708	105.00-106.50	1.50	1.240	1.40	76.0	402.0	280.0	104.0	1.0
		trace to 1% pyrite, trace hematite. Lighter green	45709	106.50-108.00	1.50	1.090	3.40	92.0	975.0	490.0	86.0	1.0
		possibly less altered, coarser grained than HFxl up	45710	108.00-109.50	1.50	0.860	1.00	117.0	485.0	435.0	74.0	1.0
		hole.	45711	109.50-111.00	1.50	2.380	2.80	191.0	541.0	245.0	145.0	218.0
<84.90-113.80>		Trace to 1% pyrite, trace hematite. Lighter green	45712	111.00-112.50	1.50	2.370	1.00	104.0	207.0	250.0	80.0	12.0
		possibly less altered, coarser grained than HFxl up hole.										
<106.50-108.32>		Broken Core										
		fracturing 70°										
		Intense CL SHEETED										
		Strong broken core, locally rubbly; trace gouge										
		fractures at low angle to core axis, commonly 20										
		degrees; weak limonite fracture fill strong chlorite										
		streaming and fracture fill.										
<111.10-111.18>		Hem-Spec-Chl vein										
		macroveins 70°										
		Calcite/hematite/chlorite vein, 3cm. wide at about 70 degrees.										
113.80	123.75	Hornblende Feldspar xtalline	45713	112.50-114.00	1.50	0.025	0.60	50.0	248.0	60.0	82.0	22.0
		Fine grained, green, veined, crystalline	45714	114.00-115.00	1.00	13.490	4.40	1890.0	618.0	39000.0	107.0	12.0
		stockwork 70°	45715	115.00-116.00	1.00	5.920	3.40	680.0	704.0	13800.0	83.0	10.0
		Strong CL SHEETED	45716	116.00-117.00	1.00	13.060	4.00	1260.0	560.0	11500.0	81.0	1.0
		Strong CB microveins	45717	117.00-118.00	1.00	1.360	0.80	247.0	359.0	3120.0	60.0	1.0
		Weak MT macroveins	45718	118.00-119.00	1.00	0.410	0.20	77.0	172.0	415.0	56.0	1.0
		Moderate KS pervasive	45719	119.00-120.00	1.00	0.155	0.10	44.0	114.0	375.0	56.0	1.0
		Trace HE macroveins	45720	120.00-121.00	1.00	0.995	0.10	259.0	117.0	2855.0	58.0	1.0
		S-zone within medium to dark green HFxl, mottled with	45721	121.00-122.00	1.00	0.920	0.10	138.0	167.0	1775.0	75.0	1.0
		30% dark gray to dark green Hornblende phenos to 2mm.	45722	122.00-123.00	1.00	6.370	3.60	750.0	990.0	7115.0	149.0	1.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	fine grained ? ALTERATION- strong pervasive and streaming chlorite in veins, strong stockwork calcite disseminated veins to 1cm with chlorite at 70 degrees. MINERALIZATION- 6% pyrite coarse grained to fine grained as veins to 4cm., 2% arsenopyrite as veins to 2cm., magnetite in veins with pyrite, 1% pyrrhotite in veins, trace hematite in calcite vein										
<114.00-117.00>	Chlorite Streaming Intense CL SHEETED Intense irregular chlorite streaming and sheeting.										
<114.45-114.50>	80% pyrite, 5% magnetite, 5% arsenopyrite as irregular vein at about 70 degrees.										
<114.45-114.50>	macroveins 70° MINERALIZATION- 60% pyrite, 5% magnetite, 5% arsenopyrite as irregular vein at about 70 degrees.										
<114.75-123.76>	5% pyrite coarse grained to fine grained as veins to 4cm., 2% arsenopyrite as veins to 2cm., magnetite in veins with pyrite with pyrite, 1% pyrrhotite in veins, trace hematite in calcite vein.										
<114.75-114.90>	25% arsenopyrite - coarse grained 25% coarse grained arsenopyrite as veins to 2cm. at about 30 degrees.										
<114.75-114.90>	macroveins 30° 25% coarse grained arsenopyrite as veins to 2cm. at about 30 degrees.										
<115.00-115.08>	Moderate MT fine grained 35% fine grained pyrite, 5% arsenopyrite as irregular 4cm. vein at about 60 degrees.										
<115.00-115.08>	macroveins 60° MINERALIZATION- 35% fine grained pyrite, 5% arsenopyrite as irregular 4cm. 4cm. vein at about 60 degrees.										
<116.82-116.88>	8cm. arsenopyrite/magnetite vein at about 45 degrees.										
<116.82-116.88>	macroveins 45° MINERALIZATION- 2cm. arsenopyrite/magnetite vein at about 45 degrees.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<116.90-117.16> 15cm. pyrite/calcite/hematite/arsenopyrite/magnetite vein, 35% pyrite, 30% calcite, 10% hematite, 5% arsenopyrite, 5% magnetite.										
		<116.90-117.16> macroveins 30° MINERALIZATION- 15cm. pyrite>calcite>hematite>arsenopyrite>magnetite vein, 35% pyrite, 30% calcite, 10% hematite, 5% arsenopyrite, 5% magnetite.										
		<118.00-122.70> MINERALIZATION- 1% wispy disseminated arsenopyrite, 2% disseminated pyrite.										
		<122.70-123.75> Weak PR disseminated 2 % pyrrhotite - disseminated 4% arsenopyrite, 6% pyrite, 3% hematite within calcite veins, 2% pyrrhotite as disseminated veins to 2cm..										
		<122.70-123.75> macroveins 45° MINERALIZATION- 4% arsenopyrite, 6% pyrite, 3% hematite within calcite veins, 2% pyrrhotite as disseminated veins to 2cm.										
123.75	128.01	MASSIVE SULPHIDE VEIN	45723	123.00-124.00	1.00	25.110	10.80	2000.0	2458.0	29900.0	281.0	92.0
		gouge 30°	45724	124.00-125.00	1.00	28.060	9.00	1200.0	1656.0	27900.0	224.0	32.0
		Frs=5/m	45725	125.00-126.00	1.00	88.980	0.10	6200.0	5094.0	*******	1136.0	280.0
		Intense CL pervasive	45726	126.00-127.00	1.00	79.940	29.60	6000.0	4523.0	79300.0	738.0	214.0
		Massive coarse grained sulphides within HFxl D.A.P. 114.0 to 123.75. MINERALIZATION- 20% arsenopyrite, 35% pyrite, 10% magnetite all as fine grained to coarse grained granular massive lower contact=foliation zone, 1cm. gouge wihtin chlorite, very small slips no broken core.	45727	127.00-128.00	1.00	85.970	0.10	3500.0	4787.0	65000.0	1775.0	522.0
		<123.75-128.01> 20% arsenopyrite, 35% pyrite, 10% magnetite all as fine grained to coarse grained granular massive lower contact=foliation zone, 1cm. gouge within chlorite, very small slips no broken core.										
128.01	150.80	Hornblende Feldspar xtalline	45728	128.00-129.00	1.00	3.120	1.00	880.0	570.0	8375.0	91.0	8.0
		Fine grained, redish-green, crystalline	45729	129.00-130.00	1.00	0.625	0.40	33.0	253.0	305.0	79.0	2.0
		stockwork 50°	45730	130.00-131.00	1.00	0.025	0.10	21.0	119.0	90.0	82.0	6.0
		Frs=8/m :Vns =7/m	45731	131.00-132.00	1.00	0.020	0.10	31.0	199.0	25.0	71.0	1.0
		Moderate CL pervasive	45732	132.00-133.00	1.00	0.015	0.10	35.0	182.0	25.0	67.0	1.0
		Moderate CB stockwork	45733	133.00-134.50	1.50	0.005	0.10	32.0	93.0	35.0	67.0	1.0
		Moderate MS pervasive	45734	134.50-136.00	1.50	0.030	0.10	26.0	173.0	70.0	60.0	1.0
		Moderate KS pervasive	45735	136.00-137.50	1.50	0.010	0.10	31.0	220.0	15.0	62.0	1.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Trace PY disseminated	45736	137.50-139.00	1.50	0.010	0.10	23.0	121.0	5.0	76.0	1.0
		Trace PR disseminated	45737	139.00-140.50	1.50	0.010	0.10	27.0	151.0	10.0	77.0	1.0
		1 % pyrrhotite - disseminated	45738	140.50-142.00	1.50	0.590	0.10	32.0	116.0	35.0	65.0	1.0
		Locally foliated, generally massive fine grained to	45739	142.00-143.50	1.50	0.055	0.10	33.0	118.0	55.0	86.0	2.0
		very fine grained gray to green Hornblende with 30% to	45740	143.50-145.00	1.50	0.010	0.10	45.0	162.0	45.0	115.0	4.0
		cryptic sub-anhedral Hornblende needles to 1mm., very	45741	145.00-146.50	1.50	0.005	0.10	29.0	148.0	25.0	141.0	8.0
		fine grained to aphanitic matrix. ALTERATION- moderate	45742	146.50-148.00	1.50	0.035	0.40	31.0	178.0	75.0	127.0	18.0
		local strong fluid streaming chlorite, moderate	45743	148.00-149.50	1.50	0.045	0.10	36.0	181.0	75.0	125.0	14.0
		pervasive sericite, moderate pervasive K-spar? weak to										
		moderate stockwork calcite, generally 50 degrees.										
		MINERALIZATION- 0.5% to absent disseminated pyrite and										
		pyrrhotite.										
		<128.01-150.80>5% to absent disseminated pyrite and pyrrhotite.										
		<129.11-129.23> hematite vein										
		Irregular brecciated hematite/calcite/K-spar? vein,										
		10cm. at about 35 degrees.										
		<135.20-135.35> calcite vein										
		macroveins 15°										
		2cm. pyrite/calcite vein at about 15 degrees.										
		<137.40-137.75> foliated 20°										
		Foliation at about 20 degrees.										
		<138.03-138.30> calcite vein										
		macroveins 65°										
		25cm. calcite/chlorite vein at about 65 degrees.										
150.80	159.90	Biotite Hbl Fdsp xtalline	45744	149.50-151.00	1.50	1.930	0.60	40.0	157.0	320.0	102.0	10.0
		Fine grained, red, crystalline, massive	45745	151.00-152.50	1.50	4.020	0.60	55.0	171.0	680.0	112.0	12.0
		stockwork 70°	45746	152.50-154.00	1.50	0.630	0.10	19.0	98.0	90.0	79.0	10.0
		Frs=7/m :Vns =18/m	45747	154.00-155.50	1.50	0.040	0.10	17.0	106.0	90.0	75.0	16.0
		Weak CL wispy	45748	155.50-157.00	1.50	0.055	0.10	24.0	232.0	170.0	83.0	22.0
		Strong CB stockwork	45749	157.00-158.50	1.50	0.065	0.40	24.0	254.0	120.0	71.0	14.0
		Strong MS pervasive										
		Moderate KS pervasive										
		Moderate PY disseminated										
		Medium gray BHFl with 2-5% euhedral cream to pale										
		augite phenos to 3mm. 30% subhedral Hornblende phenos										
		to 2mm. fine grained to aphanitic matrix. ALTERATION-										
		strong pervasive sericite, moderate to strong										
		pervasive K-spar? weak to absent chlorite, moderate										
		calcite stockwork at about 70 degrees, 3-10% fine										
		grained disseminated pyrrhotite, local granular										
		batches. Lower contact=pyrites autobrecciated.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<150.80-152.00> Hornblende Feldspar xtalline Auto brecciated, foliated foliated 10° Autobrecciated upper contact of BHFl foliation at about 10 degrees.										
		<155.80-156.7 Weak broken core, trace gouge; weak limonite fracture fill.										
		<157.55-158.45> Trace MT wispy 10% pyrite as wispy autobrecciation.										
		<157.55-158.4 MINERALIZATION- 10% pyrite as wispy autobrecciation.										
159.90	171.60	Hornblende Feldspar xtalline Fine grained, green, mottled, crystalline stockwork 65° Frs=7/m :Vns =18/m Weak CL patches Strong CB stockwork Strong MS pervasive Moderate KS pervasive Trace PY disseminated Medium gray mottled fine grained HFxl with 30% light gray to pink subhedral Hornblende needles to 3mm., fine grained to aphanitic matrix. ALTERATION- moderate to strong pervasie sericite K-spar, weak to moderate chlorite patches moderate to strong calcite stockwork at about 65 degrees. MINERALIZATION- 1% wispy disseminated pyrite. Lower contact=indistinct.	45750	158.50-160.00	1.50	0.060	0.10	18.0	183.0	45.0	72.0	10.0
			45751	160.00-161.50	1.50	0.045	0.10	32.0	184.0	135.0	69.0	6.0
			45752	161.50-163.00	1.50	0.005	0.10	38.0	190.0	80.0	78.0	10.0
			45753	163.00-164.50	1.50	0.005	0.10	38.0	123.0	30.0	99.0	8.0
			45754	164.50-166.00	1.50	0.010	0.10	39.0	184.0	50.0	82.0	10.0
			45755	166.00-167.50	1.50	0.020	0.10	43.0	208.0	105.0	83.0	14.0
			45756	167.50-169.00	1.50	0.010	0.10	37.0	186.0	45.0	115.0	8.0
			45757	169.00-170.50	1.50	0.010	0.10	29.0	151.0	35.0	94.0	16.0
		<162.08-162.30> rubbly fault zone 2% gouge within rubbled broken core; likely weak foliation zone										
171.60	196.90	Biotite Hbl Fdsp xtalline Fine grained, green, crystalline Frs=7/m :Vns =8/m Trace CL patches Strong CB macroveins Strong MS pervasive Moderate KS pervasive Trace PY disseminated Medium gray massive BHFl with 2-7% pink to light gray euhedral Bi/augite? phenos to 3mm. 30% euhedral Hornblende needles to 3mm., fine grained to aphanitic	45758	170.50-172.00	1.50	0.010	0.20	15.0	85.0	50.0	79.0	10.0
			45759	172.00-173.50	1.50	0.700	0.10	33.0	70.0	2925.0	83.0	14.0
			45760	173.50-175.00	1.50	0.010	0.10	18.0	23.0	110.0	71.0	10.0
			45761	175.00-176.50	1.50	0.100	0.10	18.0	39.0	310.0	67.0	12.0
			45762	176.50-178.00	1.50	0.595	0.10	25.0	39.0	1130.0	59.0	12.0
			45763	178.00-179.50	1.50	0.015	0.10	18.0	26.0	110.0	67.0	12.0
			45764	179.50-181.00	1.50	0.010	0.10	19.0	58.0	55.0	69.0	10.0
			45765	181.00-182.50	1.50	0.005	0.10	18.0	34.0	25.0	64.0	12.0
			45766	182.50-184.00	1.50	0.005	0.10	18.0	34.0	20.0	58.0	12.0
			45767	184.00-185.50	1.50	0.005	0.10	19.0	21.0	45.0	56.0	12.0
			45768	185.50-187.00	1.50	0.005	0.10	12.0	13.0	25.0	50.0	4.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		matrix. ALTERATION- moderate to strong pervasive	45769	187.00-188.50	1.50	0.175	0.60	15.0	80.0	345.0	62.0	12.0
		K-spar and sericite. Weak to absent patchy and wispy	45770	188.50-190.00	1.50	0.040	0.40	14.0	88.0	50.0	65.0	18.0
		chlorite, moderate calcite as veins to 3cm.	45771	190.00-191.50	1.50	0.100	0.20	12.0	108.0	40.0	81.0	16.0
		MINERALIZATION- 1% disseminated pyrite.	45772	191.50-193.00	1.50	0.420	0.10	13.0	48.0	1575.0	76.0	14.0
<171.61-196.90>		Trace MT disseminated	45773	193.00-194.50	1.50	0.280	0.20	21.0	53.0	445.0	67.0	16.0
		1% disseminated pyrite.	45774	194.50-195.50	1.00	0.025	0.80	21.0	137.0	25.0	64.0	12.0
<192.82-192.85>		MASSIVE SULPHIDE VEIN										
		macroveins 40°										
		1cm. arsenopyrite/calcite/pyrite/calcopyrite vein at										
		about 40 degrees.										
(eoh)												

12/04/96

Hole: CL96-18 GEOTECHNICAL DATA Page: 1

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

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-19

PROJECT: Clone	Date Commenced: 28/06/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-19	Date Completed: 29/06/96		Geotech by: DBL
LENGTH: 181.66	Core Diam: BQTK		

Collar Location

Latitude:	1985.76
Departure:	2005.71
Elevation:	1381.22

S U M M A R Y

0.00-0.95	CASING
0.95-11.20	Hornblende Feldspar xtalline ***
11.20-27.80	Hornblende Feldspar xtalline *****
27.80-45.10	Hornblende Feldspar xtalline *
45.10-68.25	Hornblende Feldspar xtalline *
68.25-77.80	Hornblende Feldspar xtalline
77.80-107.65	Biotite Hbl Fdsp xtalline ***
107.65-136.40	Hornblende Feldspar xtalline **
136.40-144.25	Broken Core ***
144.25-151.70	volcaniclastics *
151.70-181.66	Hornblende Feldspar xtalline ****

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	245.00	-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	0.95	CASING Casing.										
0.95	11.20	Hornblende Feldspar xtalline	45776	0.95-2.00	1.05	0.145	0.10	30.0	51.0	55.0	168.0	8.0
		Redish-green	45777	2.00-3.00	1.00	0.005	0.10	27.0	16.0	40.0	175.0	4.0
		contact 50°	45778	3.00-4.00	1.00	0.005	0.10	27.0	84.0	25.0	143.0	1.0
		Frs=10/m :Vns =30/m	45779	4.00-5.00	1.00	0.005	0.10	35.0	248.0	25.0	88.0	1.0
		Moderate SI patches	45780	5.00-6.00	1.00	0.005	1.00	45.0	3122.0	35.0	90.0	1.0
		Moderate CL pervasive	45781	6.00-7.00	1.00	0.005	0.10	41.0	332.0	15.0	70.0	1.0
		Weak CB stockwork	45782	7.00-8.00	1.00	0.005	0.10	36.0	174.0	15.0	69.0	1.0
		Trace MT wispy	45783	8.00-9.00	1.00	0.005	0.10	57.0	381.0	5.0	139.0	1.0
		Strong KS patches	45784	9.00-10.00	1.00	0.005	0.10	39.0	723.0	10.0	110.0	1.0
		Moderate HE stockwork	45785	10.00-11.00	1.00	0.005	0.80	26.0	999.0	20.0	130.0	1.0
		Moderate CV microveins										
		Medium to dark green (altered by wispy red hematite) mottled autobrecciated HFxl with 30% to cryptic sub to anhedral dark green to light gray Hornblende phenos to 1.5mm., fine grained matrix. ALTERATION- moderate to strong pervasive, wispy and stockwork hematite, moderate pervasive chlorite, moderate to strong patchy K-spar, weak calcite stockwork and fracture fill with chlorite, trace specularite in calcite veins, patchy moderate silica. MINERALIZATION- 5-20% hematite, trace specularite, trace calcopyrite. Lower contact=irregular at about 50 degrees, trace magnetite.										
	<0.95-11.20>	MINERALIZATION- 5-20% hematite, trace specularite, trace calcopyrite. Lower contact=irregular at about 50 degrees, trace magnetite.										
	<0.95-1.50>	MINERALIZATION- 20% hematite, pervasive.										
	<0.95-1.50>	Strong SI pervasive MINERALIZATION- 20% hematite, pervasive. ALTERATION- strong pervasive silica.										
	<2.00-2.85>	MINERALIZATION- 15% pervasive hematite.										
	<2.00-2.85>	MINERALIZATION- 15% pervasive hematite.										
	<4.17-5.50>	Broken Core STRUCTURE- weak angular broken core, weak limonite/malachite fracture fill.										
	<4.17-11.20>	Weak HE wispy										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Wispy hematite, as fluid fronts surrounding autobrecciated fragments.										
11.20	27.80	Hornblende Feldspar xtalline	45786	11.00-12.00	1.00	13.220	0.60	68.0	105.0	15.0	883.0	22.0
		Fine grained, greenish-red, massive, mottled	45787	12.00-13.00	1.00	5.030	0.60	17.0	210.0	5.0	298.0	26.0
		Strong SI pervasive	45788	13.00-14.00	1.00	0.030	0.10	47.0	93.0	15.0	191.0	18.0
		Moderate CL patches	45789	14.00-15.00	1.00	0.035	0.10	46.0	180.0	10.0	151.0	16.0
		Weak CB stockwork	45790	15.00-16.00	1.00	0.020	0.10	35.0	99.0	3.0	228.0	18.0
		Weak MT wispy	45791	16.00-17.00	1.00	2.410	0.10	155.0	120.0	25.0	472.0	24.0
		Strong KS patches	45792	17.00-18.00	1.00	0.070	0.10	97.0	116.0	25.0	414.0	22.0
		Intense HE pervasive	45793	18.00-19.00	1.00	0.790	0.10	250.0	34.0	50.0	641.0	22.0
		Moderate SE microveins	45794	19.00-20.00	1.00	0.110	0.10	65.0	118.0	25.0	245.0	38.0
		Strong H-zone within mottled to foliated HFxl; no	45795	20.00-21.00	1.00	0.040	0.10	179.0	163.0	20.0	391.0	14.0
		observable phenos. ALTERATION- intense hematite	45796	21.00-22.00	1.00	0.165	0.10	98.0	110.0	20.0	517.0	18.0
		flooding with lesser stockwork and veins, strong	45797	22.00-23.00	1.00	0.180	0.10	90.0	129.0	45.0	1258.0	32.0
		pervasive silica as selvages to hematite stringers.	45798	23.00-24.00	1.00	1.010	0.10	238.0	148.0	70.0	1382.0	50.0
		Weak to patchy strong chlorite. Weak stockwork calcite	45799	24.00-25.00	1.00	2.070	0.10	140.0	74.0	45.0	958.0	50.0
		as microveins to 3mm., commonly with specularite and	45800	25.00-26.00	1.00	1.420	0.10	90.0	114.0	45.0	803.0	48.0
		chlorite. Weak to moderate specularite within	45801	26.00-27.00	1.00	0.600	0.10	149.0	141.0	30.0	963.0	38.0
		calcite/chlorite veinlets. Patchy strong K-spar. Weak										
		local magnetite. MINERALIZATION- trace calcopyrite,										
		trace visible gold?										
		<11.20-27.80>MINERALIZATION- trace calcopyrite, trace of visible gold?										
		<11.20-15.00>MINERALIZATION- 20% hematite, with intense K-spar and silica.										
		<11.20-15.00> sheeting 45°										
		Intense SI patches										
		Intense KS patches										
		Intense HE SHEETED										
		MINERALIZATION- 20% hematite, with intense K-spar and silica.										
		<15.10-19.50>MINERALIZATION- 10% hematite, 2% specularite within microveins with 1cm. K-spar, silica selvages.										
		<15.10-19.50> microveins 20°										
		MINERALIZATION- 10% hematite, 2% specularite within microveins with 1cm. K-spar, silica selvages.										
		<17.00-21.30>MINERALIZATION- specularite/calcite/chlorite veins to 1cm., irregular at about 15 degrees.										
		<17.00-21.30> microveins 15°										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		MINERALIZATION- specularite/calcite/chlorite veins to 1cm., irregular at about 15 degrees.										
	<19.78-27.70>	MINERALIZATION- 30% hematite, 2% specularite; intense hematite/silica flooding.										
	<19.78-27.70>	Intense SI pervasive Intense HE pervasive MINERALIZATION- 30% hematite, 2% specularite; intense hematite/silica flooding ?.										
	<20.20-20.60>	Broken Core Moderate angular to rubbly broken core.										
27.80	45.10	Hornblende Feldspar xtalline	45802	27.00-28.00	1.00	0.210	0.60	73.0	348.0	20.0	625.0	66.0
		Fine grained, dark green, crystalline, mottled	45803	28.00-29.00	1.00	0.030	0.10	33.0	94.0	20.0	878.0	24.0
		stockwork 70°	45804	29.00-30.00	1.00	0.005	0.10	37.0	122.0	25.0	552.0	22.0
		Frs=10/m :Vns =20/m	45805	30.00-31.00	1.00	0.110	0.10	62.0	291.0	30.0	115.0	40.0
		Strong CL pervasive	45806	31.00-32.00	1.00	0.010	0.10	45.0	127.0	3.0	64.0	24.0
		Moderate CB stockwork	45807	32.00-33.00	1.00	0.005	0.10	46.0	106.0	5.0	71.0	26.0
		Moderate KS pervasive	45808	33.00-34.00	1.00	0.005	0.10	45.0	178.0	15.0	58.0	28.0
		Trace EP microveins	45809	34.00-35.00	1.00	0.005	0.10	41.0	134.0	5.0	79.0	18.0
		Moderate HE wispy	45810	35.00-36.00	1.00	0.005	0.10	37.0	91.0	15.0	85.0	12.0
		Moderate CV microveins	45811	36.00-37.00	1.00	0.010	0.10	44.0	124.0	15.0	86.0	22.0
		Fine to medium grained dark green mottled HFxl with	45812	37.00-38.00	1.00	0.005	0.10	35.0	127.0	45.0	76.0	20.0
		30% to cryptic cream to dark green sub to anhedral	45813	38.00-39.00	1.00	0.035	0.10	37.0	190.0	15.0	69.0	14.0
		Hornblende crystals to 2mm. fine grained matrix.	45814	39.00-40.00	1.00	0.010	0.10	38.0	166.0	3.0	75.0	16.0
		ALTERATION- strong pervasive chlorite, weak to	45815	40.00-41.00	1.00	0.010	0.10	42.0	203.0	3.0	74.0	20.0
		moderate pervasive and wispy stockwork hematite,	45816	41.00-42.00	1.00	0.005	0.10	40.0	261.0	10.0	75.0	18.0
		decreasing towards lower contact, moderate pervasive	45817	42.00-43.00	1.00	0.675	0.10	76.0	229.0	30.0	166.0	14.0
		K-spar, moderate to strong stockwork calcite; calcite	45818	43.00-44.00	1.00	0.010	0.10	44.0	116.0	15.0	112.0	16.0
		veins commonly at about 70 degrees. MINERALIZATION-	45819	44.00-45.00	1.00	0.005	0.10	35.0	102.0	3.0	79.0	14.0
		1-6% hematite, lower contact-graduating										
	<27.80-38.25>	MINERALIZATION- 1-6% hematite, lower contact=graduating.										
	<27.80-35.60>	Moderate HE wispy Moderate/wispy or stockwork hematite; irregular granular patches commonly with calcite.										
	<35.60-45.03>	Weak HE wispy Weak wispy hematite commonly as solution fronts surrounding autobrecciated fragments.										
	<45.03-45.10>	Broken Core Moderate broken core, some bleaching and limonite										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		fracture fill.										
45.10	68.25	Hornblende Feldspar xtalline	45820	45.00-46.00	1.00	0.005	0.10	42.0	113.0	45.0	90.0	24.0
		Fine grained, dark green, mottled, crystalline	45821	46.00-47.50	1.50	0.005	0.10	42.0	97.0	25.0	94.0	18.0
		microveins 70°	45822	47.50-49.00	1.50	0.005	0.10	45.0	101.0	25.0	93.0	20.0
		Frs=12/m :Vns =22/m	45823	49.00-50.50	1.50	0.005	0.10	44.0	101.0	5.0	102.0	18.0
		Strong CL pervasive	45824	50.50-52.00	1.50	0.005	0.10	49.0	110.0	5.0	102.0	16.0
		Strong CB stockwork	45825	52.00-53.50	1.50	0.005	0.10	41.0	70.0	10.0	84.0	14.0
		Moderate MT disseminated	45826	53.50-55.00	1.50	0.005	0.10	43.0	75.0	35.0	69.0	14.0
		Moderate EP stockwork	45827	55.00-56.50	1.50	0.005	0.10	50.0	65.0	25.0	76.0	18.0
		Weak HE patches	45828	56.50-58.00	1.50	0.005	0.10	40.0	131.0	20.0	79.0	12.0
		Trace PY disseminated	45829	58.00-59.50	1.50	0.005	0.10	44.0	236.0	30.0	102.0	18.0
		Strong CV macroveins	45830	59.50-61.00	1.50	0.010	0.10	53.0	101.0	30.0	75.0	22.0
		Dark green mottled HFxl with 30% to cryptic sub to	45831	61.00-62.50	1.50	0.020	0.10	54.0	144.0	25.0	73.0	26.0
		anhedral dark green to light gray Hornblende phenos,	45832	62.50-64.00	1.50	0.045	0.10	49.0	145.0	3.0	72.0	24.0
		absent to 5% magnetite phenos to 3mm., sub to euhedral	45833	64.00-65.50	1.50	0.005	0.10	34.0	84.0	30.0	104.0	22.0
		fine grained matrix. ALTERATION- strong pervasive	45834	65.50-67.00	1.50	0.010	0.10	12.0	34.0	15.0	71.0	14.0
		chlorite, strong calcite as stockwork. Local moderate										
		hematite sheeting; with lesser disseminated patches.										
		Moderate disseminated to pervasive magnetite,										
		increasing away from upper contact. Possibly outward ?										
		from hematite. MINERALIZATION- trace to 1%										
		disseminated pyrite.										
	<45.11-46.10>	Broken Core										
		D.A.P. 45.03 to 45.10										
	<50.40-59.50>	Moderate MT disseminated										
		Disseminated magnetite pseudos? to 3mm. to 5%,										
		otherwise wispy and disseminated.										
	<51.70-54.40>	calcite vein										
		macroveins 70°										
		Irregular calcite (white to orange) veins to 3cm with										
		epidote, 2 per meter.										
	<60.50-63.40>	MINERALIZATION- 5% hematite as disseminated patches to										
		sheeting at about 40 degrees, weak to moderate										
		pervasive magnetite.										
	<60.50-63.40>	sheeting 40°										
		Weak MT pervasive										
		Moderate HE SHEETED										
		MINERALIZATION- 5% hematite as disseminated patches to										
		sheeting at about 40 degrees, weak to moderate										
		pervasive magnetite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<67.60-68.00>		foliated 50°										
		Moderate SI patches										
		Strong KS patches										
		Moderate HE SHEETED										
		Moderate hematite sheeting with patchy silica and										
		K-spar, foliated at about 50 degrees.										
68.25	77.80	Hornblende Feldspar xtalline	45835	67.00-68.50	1.50	1.600	1.00	125.0	111.0	165.0	160.0	18.0
		Fine grained, greenish-red, crystalline, massive	45836	68.50-70.00	1.50	0.010	0.10	20.0	107.0	25.0	105.0	26.0
		stockwork 50°	45837	70.00-71.50	1.50	2.070	0.40	360.0	234.0	1615.0	106.0	44.0
		Frs=8/m :Vns =20/m	45838	71.50-73.00	1.50	0.030	0.20	27.0	55.0	45.0	103.0	18.0
		Moderate SI pervasive	45839	73.00-74.50	1.50	0.005	0.10	9.0	23.0	50.0	72.0	16.0
		Moderate CB stockwork	45840	74.50-76.00	1.50	0.005	0.10	12.0	22.0	45.0	71.0	22.0
		Moderate MS pervasive	45841	76.00-77.50	1.50	0.005	0.10	13.0	45.0	20.0	58.0	26.0
		Moderate KS pervasive										
		Trace HE disseminated										
		Trace PY disseminated										
		Moderate CV microveins										
		Green to gray massive HFxl with 30% light green										
		transparent to dark green to cryptic Hornblende phenos										
		to 2mm., very fine grained to aphanitic matrix.										
		ALTERATION- moderate pervasive sericite, chlorite										
		K-spar; moderate stockwork calcite at about 50										
		degrees. MINERALIZATION- traces disseminated hematite										
		patches, lower contact=likely graduational.										
77.80	107.65	Biotite Hbl Fdsp xtalline	45842	77.50-79.00	1.50	0.005	0.20	11.0	45.0	15.0	59.0	24.0
		Red, porphyritic, massive	45843	79.00-80.50	1.50	0.010	0.10	11.0	69.0	25.0	61.0	36.0
		Weak SI patches	45844	80.50-82.00	1.50	0.005	0.10	12.0	36.0	55.0	72.0	28.0
		Weak CL patches	45845	82.00-83.50	1.50	0.005	0.10	14.0	32.0	65.0	84.0	28.0
		Weak CB stockwork	45846	83.50-85.00	1.50	0.050	0.10	17.0	45.0	95.0	67.0	20.0
		Strong MS pervasive	45847	85.00-86.00	1.00	4.060	13.00	1600.0	1963.0	10000.0	137.0	284.0
		Moderate KS pervasive	45848	86.00-87.00	1.00	0.050	0.10	17.0	54.0	90.0	71.0	10.0
		Trace PY disseminated	45849	87.00-88.50	1.50	0.005	0.10	9.0	44.0	30.0	54.0	8.0
		Trace PR disseminated	45850	88.50-90.00	1.50	0.005	0.10	7.0	15.0	15.0	63.0	10.0
		1 % pyrrhotite - disseminated	45851	90.00-91.50	1.50	0.005	0.10	7.0	21.0	10.0	64.0	12.0
		Medium gray to green gray massive locally mottled BHFl	45852	91.50-93.00	1.50	0.005	0.10	9.0	36.0	10.0	58.0	6.0
		with 1-3% euhedral Biotite? Augite? phenos to 4mm.,	45853	93.00-94.50	1.50	0.005	0.10	8.0	20.0	20.0	65.0	6.0
		10-25% sub to euhedral cream Hornblende needles to	45854	94.50-96.00	1.50	0.005	0.10	7.0	23.0	5.0	65.0	8.0
		4mm., very fine grained to aphanitic matrix.	45855	96.00-97.50	1.50	0.005	0.10	10.0	20.0	40.0	66.0	8.0
		ALTERATION- weak patchy and fracture fill chlorite,	45856	97.50-99.00	1.50	0.005	0.10	9.0	24.0	10.0	62.0	8.0
		strong pervasive sericite, moderate to strong	45857	99.00-100.50	1.50	0.005	0.10	9.0	26.0	20.0	74.0	20.0
		pervasive K-spar? local moderate patchy silica.	45858	100.50-102.00	1.50	0.005	0.10	11.0	27.0	15.0	88.0	18.0
		MINERALIZATION- trace disseminated pyrite,	45859	102.00-103.50	1.50	0.005	0.10	11.0	28.0	15.0	76.0	14.0
		disseminated pyrrhotite.	45860	103.50-105.00	1.50	0.005	0.10	8.0	21.0	30.0	53.0	16.0
<77.80-107.65>		?? MT disseminated	45861	105.00-106.50	1.50	0.005	0.10	14.0	25.0	20.0	74.0	10.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		?? PR disseminated .2% pyrrhotite - disseminated MINERALIZATION- trace disseminated pyrite, disseminated pyrrhotite.										
		<82.40-84.60>MINERALIZATION- 2% pyrite, 1% pyrrhotite, patchy fine grained disseminated, moderate patchy silica alteration.										
		<82.40-84.60> Moderate SI patches MINERALIZATION- 2% pyrite, 1% pyrrhotite, patchy fine grained disseminated, moderate patchy silica alteration.										
		<85.00-86.00> Intense MT fine grained 3 % arsenopyrite - fine grained MINERALIZATION- 50% fine grained to coarse grained pyrite, 3% fine grained to medium grained arsenopyrite, as irregular anastamosing patches and veins at about 50 degrees.										
		<85.00-86.00> semi-massive sulphides macroveins 50° S-zone? MINERALIZATION- 50% fine grained to coarse grained pyrite, 3% fine grained to medium grained arsenopyrite, as irregular anastomosing patches and veins at about 50 degrees.										
		<100.50-102.41> Broken Core fracturing 60° Moderate broken core, fractures common at about 60 degrees; moderate bleaching and weak limonite fracture fill.										
		<107.55-107.65> Intense MS pervasive										
107.65	136.40	Hornblende Feldspar xtalline	45862	106.50-108.00	1.50	0.005	0.10	14.0	28.0	25.0	53.0	6.0
		Fine grained, greenish-red, crystalline	45863	108.00-109.50	1.50	0.005	0.20	11.0	46.0	55.0	89.0	22.0
		Frs=18/m :Vns =8/m	45864	109.50-111.00	1.50	0.005	0.10	13.0	80.0	10.0	110.0	24.0
		Moderate CL pervasive	45865	111.00-112.50	1.50	0.605	0.60	30.0	89.0	105.0	65.0	28.0
		Moderate CB macroveins	45866	112.50-114.00	1.50	0.015	0.10	10.0	57.0	15.0	65.0	12.0
		Moderate MS pervasive	45867	114.00-115.50	1.50	0.005	0.40	14.0	58.0	20.0	70.0	18.0
		Moderate KS pervasive	45868	115.50-117.00	1.50	0.005	0.10	14.0	28.0	20.0	75.0	14.0
		Trace HE disseminated	45869	117.00-118.50	1.50	0.010	0.20	14.0	46.0	20.0	85.0	38.0
		Trace PY disseminated	45870	118.50-120.00	1.50	0.010	0.10	10.0	27.0	15.0	86.0	16.0
		Trace PR disseminated	45871	120.00-121.50	1.50	0.085	0.40	21.0	59.0	45.0	78.0	26.0
		Weak CV stockwork	45872	121.50-123.00	1.50	0.005	0.20	13.0	43.0	20.0	63.0	16.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		1 % pyrrhotite - disseminated	45873	123.00-124.50	1.50	0.005	0.20	11.0	42.0	25.0	79.0	24.0
		Medium green-gray to gray massive HFxl, locally	45874	124.50-126.00	1.50	0.005	0.20	10.0	37.0	20.0	99.0	48.0
		mottled with 10-25% cream Hornblende phenos to 3mm.	45875	126.00-127.50	1.50	0.005	0.20	16.0	24.0	85.0	78.0	20.0
		fine grained matrix. ALTERATION- moderate to weak	45876	127.50-129.00	1.50	0.010	0.20	13.0	84.0	35.0	111.0	26.0
		pervasive and fracture fill chlorite locally replacing	45877	129.00-130.50	1.50	0.005	0.20	15.0	71.0	30.0	78.0	26.0
		phenocrysts, moderate to strong pervasive sercite,	45878	130.50-132.00	1.50	0.005	0.20	12.0	57.0	30.0	61.0	12.0
		K-spar moderate to weak calcite as veins to 15cm. with	45879	132.00-133.50	1.50	0.010	0.40	10.0	59.0	25.0	54.0	12.0
		less stockwork. MINERALIZATION- trace to 1% to absent	45880	133.50-135.00	1.50	0.025	0.40	13.0	67.0	160.0	65.0	16.0
		disseminated and fracture fill pyrite, pyrrhotite;	45881	135.00-136.00	1.00	0.010	0.10	11.0	69.0	25.0	66.0	12.0
		trace hematite 1% to absent euhedral sericite										
		alteration Biotite phenos to 3mm., maybe phase between										
		HFxl and BHFl.										
<107.65-	136.40>	?? MT disseminated										
		?? PR disseminated										
		.5% pyrrhotite - disseminated										
		MINERALIZATION- trace to 1% to absent disseminated and										
		fracture fill pyrite, pyrrhotite; trace hematite 1% to										
		absent euhedral sericite alteration Biotite phenos to										
		3mm., maybe phase between HFxl and BHFl.										
<108.50-	116.00>	Biotite Hbl Fdsp xtalline										
		1% euhedral cream to chlorite/sericite alteration										
		brown Biotite phenos to 3mm. Possibly Augites.										
<109.00-	111.00>	calcite vein										
		macroveins 20°:macroveins 90°										
		Laminated calcite/chlorite veins to 15cm.										
<120.96-	123.25>	Broken Core										
		fracturing 55°										
		Moderate broken core with moderate limonite fracture										
		fill.										
<124.00-	127.20>	fracturing 20°										
		Weak broken core, moderate limonite fracture fill.										
<129.90-	134.45>	Weak PR disseminated										
		2 % pyrrhotite - disseminated										
		MINERALIZATION- 2-3% pyrrhotite as wispy disseminated.										
<129.90-	134.45>	MINERALIZATION- 2-3% pyrrhotite as wispy disseminated.										
		ALTERATION- patchy ? Biotite? alteration brown										
		chlorite?										
136.40	144.25	Broken Core	45882	136.00-137.00	1.00	0.080	1.20	20.0	264.0	135.0	124.0	36.0
		Fine grained, greenish-red, broken, crystalline	45883	137.00-138.00	1.00	0.010	0.40	13.0	105.0	60.0	70.0	8.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		macroveins 20°:fracturing 45°	45884	138.00-139.00	1.00	0.010	0.10	29.0	110.0	60.0	70.0	6.0
		Moderate CL pervasive	45885	139.00-140.00	1.00	0.040	0.40	16.0	169.0	85.0	60.0	8.0
		Moderate CB stockwork	45886	140.00-141.00	1.00	0.035	0.80	36.0	259.0	215.0	74.0	10.0
		Moderate MS pervasive	45887	141.00-142.00	1.00	1.950	1.40	35.0	171.0	2180.0	52.0	26.0
		Moderate KS pervasive	45888	142.00-143.00	1.00	0.290	3.60	38.0	1687.0	145.0	63.0	20.0
		Foliation zone with S-zone mineralization; within fine grained to medium grained light green to gray HFxl D.A.P.- 107.65 to 136.40. MINERALIZATION- local arsenopyrite to 10% as wispy granular patches, 3% pyrrhotite as disseminated with less irregular veins to 1cm., calcopyrite to 3% locally as disseminated within pyrite/pyrrhotite veins, 2% pyrite as wispy disseminated. STRUCTURE- moderate broken core throughout, trace of gouge, weak limonite fracture fill.	45889	143.00-144.00	1.00	0.015	0.40	11.0	137.0	3.0	82.0	10.0
		<136.40-144.25> MINERLIZATION- foliation zone with S-zone.										
		<141.50-141.85> 10% arsenopyrite - wispy MINERALIZATION- 10% arsenopyrite as wispy granular patches, weakly foliated at about 20 degrees.										
		<141.50-141.85> foliated 20° MINERALIZATION- 10% arsenopyrite as wispy granular patches, weakly foliated at about 20 degrees.										
		<142.15-142.32> Intense MT fine grained Weak PR vein 3 % chalcopyrite - disseminated 25% pyrrhotite - vein MINERALIZATION- 25% pyrrhotite as irregular veins to 1cm. and wispy granular patches, 3% disseminated calcopyrite, 5% pyrite as fine grained to coarse grained granular patches. Orientation weak at about 20 degrees.										
		<142.15-142.32> macroveins 20° MINERALIZATION- 25% pyrrhotite as irregular veins to 1cm. and wispy granular patches, 3% disseminated calcopyrite, 5% pyrite as fine grained to coarse grained granular patches. Orientation weak at about 20 degrees.										
144.25	151.70	volcaniclastics	45890	144.00-145.00	1.00	0.005	0.10	12.0	107.0	10.0	62.0	6.0
		Fine grained, greenish-red, crystalline, auto brecciated	45891	145.00-146.00	1.00	0.005	0.10	29.0	93.0	10.0	60.0	1.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Frs=6/m :Vns =30/m	45892	146.00-147.50	1.50	0.005	0.10	37.0	201.0	15.0	83.0	8.0
	Moderate CL pervasive	45893	147.50-149.00	1.50	0.005	0.10	32.0	123.0	10.0	91.0	1.0
	Strong CB stockwork	45894	149.00-150.50	1.50	0.005	0.10	30.0	108.0	10.0	86.0	18.0
	Strong MS pervasive										
	Moderate KS pervasive										
	Green to gray HFxl with 30% to cryptic, sub to										
	anhedral Hornblende phenos fine grained matrix;										
	moderate local autobrecciation. ALTERATION- moderate										
	pervasive chlorite, strong pervasive sericite, trace										
	to moderate stockwork and fracture fill calcite.										
	MINERALIZATION- trace disseminated pyrite, pyrrhotite.										
<144.35-151.70>	?? MT disseminated										
	?? PR disseminated										
	.2% pyrrhotite - disseminated										
	MINERALIZATION- trace disseminated pyrite, pyrrhotite.										
<149.50-151.70>	Hornblende Feldspar xtalline										
	Auto brecciated										
	Olive green to gray autobrecciated HFxl; subrounded to										
	rounded fragments.										
<151.70-181.66>	Redish-green, massive, crystalline	45895	150.50-152.00	1.50	0.005	0.10	32.0	114.0	15.0	103.0	1.0
	stockwork 70°	45896	152.00-153.50	1.50	0.005	0.10	34.0	131.0	25.0	109.0	4.0
	Frs=10/m :Vns =10/m	45897	153.50-155.00	1.50	0.030	1.00	20.0	124.0	150.0	214.0	152.0
	Moderate CL pervasive	45898	155.00-156.50	1.50	0.030	0.80	35.0	94.0	200.0	160.0	86.0
	Moderate CB stockwork	45900	158.00-159.50	1.50	0.005	0.40	15.0	75.0	15.0	96.0	16.0
	Strong MS pervasive	45901	159.50-161.00	1.50	0.005	0.10	16.0	125.0	15.0	76.0	8.0
	Moderate KS pervasive	45902	161.00-162.50	1.50	0.005	0.10	17.0	77.0	15.0	88.0	8.0
	Weak PY disseminated	45903	162.50-164.00	1.50	0.005	0.40	22.0	140.0	15.0	108.0	14.0
	Trace PR disseminated	45904	164.00-165.50	1.50	1.750	5.80	86.0	2020.0	600.0	137.0	16.0
	1 % pyrrhotite - disseminated	45905	165.50-167.00	1.50	0.070	0.10	36.0	125.0	230.0	121.0	28.0
	Medium green to gray HFxl locally mottled, locally	45906	167.00-168.50	1.50	0.010	0.10	41.0	134.0	55.0	128.0	1.0
	foliated with 30% to cryptic subhedral cream to	45907	168.50-170.00	1.50	0.035	0.10	66.0	157.0	465.0	78.0	1.0
	transparent green Hornblende phenos to 2mm. fine	45908	170.00-171.50	1.50	0.050	0.10	51.0	143.0	195.0	56.0	2.0
	grained to aphanitic matrix, moderate to strong	45909	171.50-173.00	1.50	0.060	0.10	68.0	163.0	450.0	50.0	1.0
	pervasive sericite, moderate pervasive and fracture	45910	173.00-174.50	1.50	0.010	0.10	36.0	122.0	105.0	54.0	1.0
	fill chlorite, moderate to weak irregular calcite	45911	174.50-176.00	1.50	0.005	30.00	136.0	142.0	2265.0	1.0	510.0
	stockwork. MINERALIZATION- 1 to 4% very fine grained	45912	176.00-177.50	1.50	0.005	0.10	40.0	123.0	75.0	79.0	4.0
	disseminated pyrite, weak disseminated pyrrhotite.	45913	177.50-179.00	1.50	0.010	0.10	42.0	192.0	90.0	91.0	8.0
	Local euhedral sericite and chlorite alteration	45914	179.00-180.50	1.50	1.510	0.10	34.0	168.0	70.0	83.0	6.0
	Biotite? phenos to 1%.	45915	180.50-181.66	1.16	0.005	0.10	35.0	141.0	40.0	66.0	4.0
<151.70-181.66>	Weak MT disseminated										
	?? PR disseminated										
	.2% pyrrhotite - disseminated										
	MINERALIZATION- 1-4% very fine grained disseminated										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	pyrite, weak disseminated pyrrhotite. Local euhedral sericite and chlorite alteration Biotite? phenos to 1%.										
<153.45-153.60>	foliated 80° Strong chlorite/sericite foliation at about 80 degrees. Possibly raft of sediments.										
<155.70-160.90>	MINERALIZATION- 2% pyrite as irregular stringers with 1cm. silicified vein selvages.										
<155.70-160.90>	Moderate SI selvages MINERALIZATION- 2% pyrite as irregular stringers with 1cm. silicified vein selvages.										
<156.03-157.25>	Intense MT disseminated MINERALIZATION- 5% very fine grained disseminated and wispy pyrrhotite; possibly pyrrhotite?										
<156.03-157.25>	MINERALIZATION- 5% very fine grained disseminated and wispy pyrrhotite; possibly pyrrhotite?										
<164.08-164.30>	MINERALIZATION- 2% disseminated calcopyrite, 10% very fine grained to coarse grained milled pyrite with calcite, 1% hematite. Irregular orientation.										
<164.08-164.30>	MINERALIZATION- 2% disseminated calcopyrite, 10% very fine grained to coarse grained milled pyrite wih calcite, 1% hematite. Irregular orientation.										
<171.90-172.00>	calcite vein macroveins 70° 3cm. laminated pyrite/calcite vein at about 40 degrees.										
(eoh)											

11/29/96

Hole: CL96-19 GEOTECHNICAL DATA Page: 1

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

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-20

PROJECT: Clone	Date Commenced: 29/06/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-20	Date Completed: 29/06/96		Geotech by: DBL
LENGTH: 36.88	Core Diam: BQTK		

Collar Location

Latitude:	1985.87
Departure:	2005.83
Elevation:	1381.31

SUMMARY

0.00-0.44	CASING
0.44-1.28	Semi-massive hematite
1.28-12.80	volcaniclastics *
12.80-14.19	Semi-massive hematite
14.19-29.90	volcaniclastics
29.90-33.00	Semi-massive hematite *
33.00-36.88	volcaniclastics

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	245.00	-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	0.44	CASING Casing.										
0.44	1.28	Semi-massive hematite Aphanitic, redish-red, mottled microveins 20° Frs=15/m :Vns =20/m Intense SI patches Weak CL patches Weak CB stockwork Weak MT pervasive Moderate KS patches Intense HE pervasive Trace SE microveins Semi-massive hematite. Likely altered HFxl. 30% hematite within auburn to gray-red, mottled, no observable phenos. ALTERATION- intense patchy silica, weak patchy chlorite, strong patchy K-spar, weak specularite within quartz veins and hematite stringers, weak to absent pervasive magnetite.	45916	0.94-1.00	0.06	0.900	3.40	15.0	67.0	20.0	49.0	28.0
1.28	12.80	volcaniclastics	45917	1.00-2.00	1.00	0.525	0.10	31.0	20.0	15.0	135.0	18.0
		Redish-green, mottled, auto brecciated	45918	2.00-3.00	1.00	0.005	0.10	33.0	20.0	10.0	267.0	18.0
		microveins 50°	45919	3.00-4.00	1.00	0.005	0.10	23.0	27.0	10.0	181.0	12.0
		Frs=15/m :Vns =15/m	45920	4.00-5.00	1.00	0.035	1.20	51.0	1520.0	3.0	113.0	8.0
		Weak SI patches	45921	5.00-6.00	1.00	0.005	1.60	42.0	2790.0	3.0	86.0	1.0
		Strong CL pervasive	45922	6.00-7.00	1.00	0.005	0.10	40.0	748.0	3.0	85.0	1.0
		Trace GY pervasive	45923	7.00-8.00	1.00	0.005	0.10	39.0	175.0	3.0	95.0	4.0
		Strong KS pervasive	45924	8.00-9.00	1.00	0.005	0.10	24.0	340.0	3.0	93.0	4.0
		Trace EP microveins	45925	9.00-10.00	1.00	0.005	0.10	16.0	325.0	3.0	93.0	6.0
		Strong HE disseminated	45926	10.00-11.00	1.00	0.005	0.10	20.0	38.0	3.0	78.0	6.0
		Dark green HFxl, to red green; red hematite solution fragments rimming rounded subtly autobrecciated fragments. ALTERATION- moderate pervasive and wispy hematite patches, strong to moderate pervasive chlorite, strong pervasive K-spar. weak to moderate calcite stockwork, fracture fill and veins to 2cm., commonly at about 50 degrees, weak local silica patches. MINERALIZATION- trace disseminated pyrite, trace pervasive magnetite.	45927	11.00-12.00	1.00	0.005	0.10	23.0	122.0	3.0	93.0	6.0
<1.28-12.80>		?? MT disseminated MINERALIZATION- trace of disseminated pyrite, trace of pervasive magnetite.										
<1.28-3.56>		Moderate SI patches										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong HE pervasive Moderate patchy silica, strong pervasive hematite.										
<3.56-8.10>		Intense CL pervasive Moderate HE wispy Strong to intense pervasive chlorite, weak to moderate wispy hematite.										
<4.90-5.20>		Broken Core Moderate broken core, angular malachite, limonite fracture fill.										
<8.10-12.80>		Strong HE pervasive Strong pervasive hematite.										
12.80	14.19	Semi-massive hematite Aphanitic, redish-red, mottled Frs=6/m :Vns =18/m Intense SI patches Weak CL patches Weak CB stockwork Moderate KS patches Weak EP microveins Intense HE pervasive Trace SE microveins Intense hematite/silica flooding, likely replacing HFxl. D.A.P.- 0.44 to 1.28m.	45928 45929	12.00-13.00 13.00-14.00	1.00 1.00	0.600 0.159	4.60 0.20	22.0 8.0	3049.0 152.0	10.0 5.0	118.0 77.0	10.0 94.0
14.19	29.90	volcaniclastics Fine grained, redish-green, auto brecciated Weak SI patches Moderate CL pervasive Weak CB stockwork Strong KS pervasive Trace EP microveins Strong HE SHEETED Medium green HFxl with wispy hematite stockwork, 35% to cryptic very fine grained sub to anhedral Hornblende phenos, fine grained matrix. ALTERATION- strong hematite as wispy autobrecciation; more likely fracture controlled. Weak to absent patchy silica, moderate patchy chlorite, strong pervasive K-spar?, weak calcite stockwork, locally with epidote.	45930 45931 45932 45933 45934 45935 45936 45937 45938 45939 45940 45941 45942 45943 45944	14.00-15.00 15.00-16.00 16.00-17.00 17.00-18.00 18.00-19.00 19.00-20.00 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 27.00-28.00 28.00-29.00	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 1.00 1.00	0.315 0.040 0.020 0.090 0.015 0.010 0.015 0.045 0.190 0.025 0.010 0.015 0.010 0.005 0.020	0.10 0.10 0.10 0.10 0.10 0.10 0.20 1.60 0.10 0.10 0.20 0.10 0.10 0.10 0.10	35.0 47.0 52.0 52.0 56.0 29.0 28.0 43.0 74.0 15.0 14.0 20.0 33.0 33.0 36.0	159.0 56.0 44.0 290.0 261.0 181.0 331.0 1084.0 49.0 26.0 382.0 234.0 60.0 94.0 337.0	5.0 5.0 3.0 10.0 5.0 5.0 10.0 10.0 15.0 3.0 5.0 10.0 15.0 15.0 15.0	324.0 363.0 301.0 258.0 323.0 266.0 252.0 267.0 326.0 151.0 51.0 65.0 75.0 62.0 56.0	10.0 12.0 10.0 10.0 24.0 6.0 8.0 14.0 10.0 6.0 4.0 6.0 6.0 4.0 24.0
<24.05-24.20>		Strong SI pervasive Strong HE pervasive ALTERATION- strong pervasive silica, hematite.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<25.40-29.90>		Chlorite Streaming Intense CL SHEETED Moderate HE wispy Strong to intense chlorite streaming, with wispy hematite patches.										
29.90	33.00	Semi-massive hematite Aphanitic, red, mottled Frs=12/m :Vns =10/m Intense SI patches Moderate CL pervasive Moderate CB stockwork Trace MT disseminated Strong KS patches Intense HE pervasive Weak PY patches Intense, hematite, hematite silica flooding; weak pervasive magnetite. Likely altered HFxl. MINERALIZATION- 30% hematite, local pyrite as coarse grained semi-massive.	45945	29.00-30.00	1.00	0.090	0.10	44.0	181.0	30.0	197.0	60.0
			45946	30.00-31.00	1.00	2.240	0.10	770.0	97.0	510.0	743.0	46.0
			45947	31.00-32.00	1.00	2.470	0.10	460.0	117.0	295.0	355.0	24.0
			45948	32.00-33.00	1.00	1.370	0.80	181.0	2158.0	100.0	70.0	84.0
<29.90-33.00>		MINERALIZATION- 30% hematite, local pyrite as coarse grained semi-massive.										
33.00	36.88	volcaniclastics Fine grained, dark green, mottled stockwork 60° Frs=10/m :Vns =12/m Intense CL pervasive Moderate KS pervasive Moderate EP wispy Drak green, locally streaked red with hematite HFxl; 30% mostly cryptic anhedral phenos, dark to light green to 2mm fine grained to medium grained matrix. ALTERATION- strong pervasive chlorite, moderate wispy hematite stockwork, weak to moderate calcite and stockwork weakly autobrecciated appearance. Hole lost in fault zone at E.O.H. -Rod is still in hole.	45949	33.00-34.00	1.00	0.005	0.10	43.0	203.0	3.0	57.0	10.0
			45950	34.00-35.00	1.00	0.005	0.10	37.0	140.0	15.0	53.0	6.0
			45951	35.00-36.00	1.00	0.005	0.10	49.0	162.0	30.0	64.0	2.0
			45952	36.00-36.88	0.88	0.005	0.10	36.0	94.0	15.0	80.0	1.0
(eoh)												

11/29/96

Hole: CL96-20 GEOTECHNICAL DATA Page: 1

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

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-21

PROJECT: Clone	Date Commenced: 29/06/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-21	Date Completed: 30/06/96		Geotech by: DBL
LENGTH: 100.58	Core Diam: BQTK		

Collar Location

Latitude:	2029.79
Departure:	1968.69
Elevation:	1396.62

S U M M A R Y

0.00-1.64	CASING
1.64-16.60	volcaniclastics ***
16.60-18.50	Hornblende Feldspar xtalline
18.50-48.18	Hornblende Feldspar xtalline *
48.18-100.58	Hornblende Feldspar xtalline ***

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	90.00	-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	1.64	CASING Casing.										
1.64	16.60	volcaniclastics Dark green, porphyritic, fractured foliated 60° Frs=40/m :Vns =5/m Strong CL pervasive Weak CB stockwork Weak MS pervasive Weak MT disseminated Moderate KS pervasive Weak HE wispy Trace PY disseminated Dark green BHFl with 40 to 30% sub to euhedral Biotite/augite +/- Hornblende phenos to 4mm., carb/ser/K-spar alteration, fine grained to aphanitic matrix. ALTERATION- strong pervasive chlorite, commonly foliated, absent to weak stockwork and wispy hematite, increasing towards lower contact, weak pervasive sericite, moderate pervasive K-spar; weak calcite stockwork locally with hematite. STRUCTURE- moderate to strong broken core throughout, common bleaching and limonite fracture fill, local malachite. More abundant Biotite/augite; coarse grained phase of BHFl? MINERALIZATION- 3% to absent wispy pyrite, local disseminated magnetite.	45953	1.84-3.00	1.16	0.005	0.10	38.0	89.0	55.0	58.0	4.0
			45954	3.00-4.00	1.00	0.010	0.10	34.0	146.0	65.0	51.0	2.0
			45955	4.00-5.00	1.00	0.005	0.10	41.0	100.0	50.0	63.0	1.0
			45956	5.00-6.00	1.00	0.005	0.10	26.0	72.0	40.0	60.0	1.0
			45957	6.00-7.00	1.00	0.010	0.10	36.0	301.0	70.0	62.0	2.0
			45958	7.00-8.00	1.00	0.005	0.10	22.0	210.0	40.0	41.0	1.0
			45959	8.00-9.00	1.00	0.030	0.10	39.0	447.0	45.0	50.0	4.0
			45960	9.00-10.00	1.00	0.100	0.10	52.0	727.0	45.0	42.0	10.0
			45961	10.00-11.00	1.00	0.005	0.10	32.0	160.0	45.0	49.0	4.0
			45962	11.00-12.00	1.00	0.005	0.10	40.0	171.0	35.0	49.0	4.0
			45963	12.00-13.00	1.00	0.005	0.10	31.0	69.0	15.0	48.0	1.0
			45964	13.00-14.00	1.00	0.005	0.10	32.0	153.0	5.0	51.0	1.0
			45965	14.00-15.00	1.00	0.005	0.10	30.0	110.0	3.0	52.0	1.0
			45966	15.00-16.00	1.00	0.075	6.00	44.0	7159.0	35.0	110.0	32.0
<1.64-16.60>		Moderate MT wispy MINERALIZATION- 3% to absent wispy pyrite, local disseminated magnetite.										
<1.64-9.50>		Broken Core fracturing 60° Strong broken core with limonite fracture fill; bleaching and foliation most often at about 60 degrees.										
<2.50-11.40>		foliated 55° STRUCTURE- moderate foliation with BHFl. Dominant angle 50 to 60 degrees.										
<8.80-9.50>		?? MT fine grained MINERALIZATION- 6% fine grained to coarse grained pyrite with strong limonite and foliation at about 60 degrees.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<8.80-9.50> microveins 60° MINERALIZATION- 6% fine grained to coarse grained pyrite with strong limonite and foliation at about 60 degrees.										
		<11.04-12.05> Moderate MT disseminated Moderate wispy magnetite and disseminated subhedral phenos to 4%.										
		<12.60-15.00>MINERALIZATION- 3 to 4% wispy hematite.										
		<12.60-15.00>MINERALIZATION- 3 to 4% wispy hematite.										
		<13.10-13.80> Broken Core Rubbly broken core; core loss and/or driller error.										
		<15.40-16.60> fracturing 50°:foliated 50° Strong rubbly broken core, bleached foliation at about 50 degrees; moderate limonite, moderate malachite fracture fill.										
16.60	18.50	Hornblende Feldspar xtalline Aphanitic, redish-green, foliated foliated 60° Frs=5/m :Vns =30/m Weak SI patches Strong CL pervasive Strong KS pervasive Strong HE SHEETED Dark gray to red very fine grained HFxl? to aphanitic, strong wispy and stockwork hematite sheeting, strong pervasive K-spar, weak patchy, silica. Foliation common at about 60 degrees.	45967	16.00-17.00	1.00	2.970	2.20	86.0	5133.0	100.0	208.0	12.0
			45968	17.00-18.00	1.00	2.780	0.10	71.0	268.0	105.0	293.0	20.0
		<18.44-18.50> Semi-massive hematite macroveins 80° 5cm. auburn semi-massive hematite vein at about 80 degrees.										
18.50	48.18	Hornblende Feldspar xtalline Laminated, crystalline foliated 65° Frs=15/m :Vns =30/m Trace SI patches Moderate CL pervasive Weak CB stockwork	45969	18.00-19.00	1.00	2.080	0.20	51.0	169.0	40.0	249.0	30.0
			45970	19.00-20.00	1.00	0.170	0.10	29.0	205.0	10.0	114.0	18.0
			45971	20.00-21.00	1.00	0.865	0.60	43.0	382.0	20.0	89.0	14.0
			45972	21.00-22.00	1.00	7.180	3.00	63.0	1747.0	240.0	71.0	32.0
			45973	22.00-23.00	1.00	0.145	0.60	36.0	213.0	80.0	72.0	14.0
			45974	23.00-24.00	1.00	0.100	0.10	23.0	73.0	3.0	48.0	6.0
			45975	24.00-25.00	1.00	0.030	0.10	27.0	92.0	5.0	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
		Weak MS pervasive	45976	25.00-26.00	1.00	0.030	0.10	49.0	88.0	20.0	121.0	6.0
		Trace MT disseminated	45977	26.00-27.00	1.00	0.125	0.10	19.0	41.0	5.0	132.0	6.0
		Moderate KS pervasive	45978	27.00-28.00	1.00	0.125	0.20	16.0	41.0	40.0	98.0	8.0
		Strong HE SHEETED	45979	28.00-29.00	1.00	0.030	0.10	18.0	33.0	25.0	144.0	8.0
		Trace PY stringer	45980	29.00-30.00	1.00	0.010	0.10	12.0	117.0	3.0	86.0	6.0
		Dark green HFxl streaked with red wispy hematite	45981	30.00-31.00	1.00	0.005	0.10	18.0	31.0	3.0	54.0	6.0
		stockwork and micro fracture control or ringing	45982	31.00-32.00	1.00	0.005	0.10	15.0	29.0	10.0	47.0	6.0
		autobrecciated fragments. ALTERATION- moderate wispy	45983	32.00-33.00	1.00	0.005	0.10	13.0	208.0	3.0	42.0	10.0
		hematite, moderate pervasive chlorite, sericite,	45984	33.00-34.00	1.00	0.010	0.10	11.0	85.0	5.0	38.0	6.0
		K-spar, weak to moderate stockwork calcite. Foliation	45985	34.00-35.00	1.00	0.010	0.10	13.0	80.0	15.0	83.0	8.0
		or sheeting of hematite ranges from 40 to 70 degrees,	45986	35.00-36.00	1.00	0.015	0.10	12.0	50.0	10.0	105.0	10.0
		commonly at 65 degrees, trace pervasive magnetite,	45987	36.00-37.00	1.00	0.035	0.10	22.0	195.0	3.0	70.0	12.0
		local pyrite stringers to 3%. STRUCTURE: local	45988	37.00-38.00	1.00	0.070	0.10	26.0	154.0	3.0	76.0	6.0
		bleaching and fracturing Hornblende phenos often	45989	38.00-39.00	1.00	0.010	0.10	10.0	96.0	10.0	36.0	6.0
		glassy due to sericite alteration.	45990	39.00-40.00	1.00	0.025	0.60	11.0	436.0	10.0	43.0	8.0
<21.00-23.00>		Moderate MT coarse grained										
		MINERALIZATION- 3% pyrite as coarse grained euhedral										
		dissemination and breccia work.										
<21.00-23.00>		Chlorite Streaming										
		Bleaching and moderate broken core with limonite										
		fracture fill overprinted or chlorite fluid streaming.										
		MINERALIZATION- 3% pyrite as coarse grained euhedral										
		disseminated and breccia work.										
<23.03-23.70>		Trace SI patches										
		Moderate KS patches										
		Moderate HE patches										
		Moderate pervasive hematite with moderate patchy										
		silica and K-spar.										
<25.70-29.17>		Broken Core										
		fracturing 50°										
		Moderate to rubbly broken core; bleaching and limonite										
		fracture fill traces medium grained fractures and										
		foliation common at about 50 degrees.										
<34.90-36.50>		fracturing 70°										
		Rubbly broken core, strongly bleached with limonite										
		fracture fill. Fractures commonly at about 70 degrees.										
<38.10-39.70>		fracturing 70°										
		Hematite sheeting/foliation at about 60 to 70 degrees.										
<46.30-47.00>		microveins 20°	45991	40.00-41.00	1.00	0.010	0.10	13.0	32.0	10.0	39.0	8.0
		Pyrite stringers to 2mm, at about 20 degrees.	45992	41.00-42.00	1.00	0.005	0.10	14.0	30.0	5.0	40.0	8.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		MINERALIZATION- 4% pyrite.	45993	42.00-43.00	1.00	0.020	0.10	14.0	87.0	10.0	37.0	8.0
48.18	100.58	Hornblende Feldspar xtalline	45994	43.00-44.00	1.00	0.005	0.10	10.0	51.0	10.0	34.0	10.0
		Fine grained, red, mottled	45995	44.00-45.00	1.00	0.010	0.10	10.0	9.0	5.0	52.0	8.0
		Frs=10/m :Vns =50/m	45996	45.00-46.00	1.00	0.020	0.10	10.0	12.0	5.0	50.0	8.0
		Moderate SI patches	45997	46.00-47.00	1.00	0.050	30.00	58.0	50.0	1605.0	33.0	40.0
		Weak CB stockwork	45998	47.00-48.00	1.00	0.005	0.10	9.0	9.0	3.0	86.0	8.0
		Weak MS pervasive	45999	48.00-49.00	1.00	0.005	0.10	8.0	8.0	5.0	69.0	6.0
		Weak MT pervasive	46000	49.00-50.00	1.00	0.005	0.10	9.0	10.0	3.0	98.0	10.0
		Moderate KS pervasive	46001	50.00-51.00	1.00	0.005	0.10	10.0	11.0	5.0	211.0	14.0
		Intense HE pervasive	46002	51.00-52.00	1.00	0.245	0.10	12.0	10.0	3.0	320.0	8.0
		HFxl with 20% usually cryptic subhedral cream										
		Hornblende phenos to 2mm., very fine grained to										
		aphanitic matrix. ALTERATION- strong pervasive										
		granular hematite, moderate to strong patchy silica,										
		strong pervasive K-spar, weak patchy sericite, weak										
		calcite stockwork and fracture fill. Sericite as local										
		strong alteration patches.										
<52.90-100.58>		Fine grained, redish-green, mottled, auto brecciated	46003	52.00-53.00	1.00	0.020	0.10	12.0	17.0	10.0	223.0	10.0
		Frs=8/m :Vns =20/m	46004	53.00-54.00	1.00	0.005	30.00	11.0	56.0	505.0	217.0	292.0
		Moderate CL pervasive	46005	54.00-55.00	1.00	0.005	30.00	132.0	321.0	10000.0	1.0	1246.0
		Weak CB stockwork	46006	55.00-56.00	1.00	0.010	30.00	834.0	213.0	10000.0	218.0	3342.0
		Weak MS patches	46007	56.00-57.00	1.00	0.010	30.00	822.0	803.0	10000.0	327.0	5640.0
		Moderate KS pervasive	46008	57.00-58.00	1.00	0.005	0.10	10.0	5.0	3.0	51.0	4.0
		Moderate HE SHEETED	46009	58.00-59.00	1.00	0.320	0.10	24.0	25.0	10.0	108.0	6.0
		Medium green to red HFxl with 15 to 30% subhedral	46010	59.00-60.00	1.00	0.210	0.10	23.0	13.0	5.0	95.0	4.0
		Hornblende needles, cream to green, fine grained to	46011	60.00-61.00	1.00	0.155	30.00	172.0	84.0	2895.0	69.0	444.0
		very fine grained matrix. Hematite stockwork Zone.	46012	61.00-62.00	1.00	0.330	0.10	17.0	17.0	3.0	57.0	6.0
		ALTERATION- weak to moderate pervasive chlorite,	46013	62.00-63.00	1.00	0.045	0.10	16.0	7.0	10.0	55.0	60.0
		increasing towards lower contact moderate to strong	46014	63.00-64.00	1.00	0.145	0.10	28.0	11.0	10.0	42.0	6.0
		pervasive and wispy sheeted hematite, weak stockwork	46015	64.00-65.00	1.00	0.005	0.10	11.0	75.0	30.0	35.0	6.0
		and fracture fill calcite, weak to moderate patchy	46016	65.00-66.00	1.00	0.005	0.10	10.0	41.0	15.0	36.0	6.0
		pervasive sericite. Hematite stockwork zone, likely	46017	66.00-67.00	1.00	0.005	0.10	11.0	13.0	3.0	39.0	4.0
		with micro fracture control.	46018	67.00-68.00	1.00	0.005	0.10	13.0	8.0	3.0	46.0	4.0
<58.00-59.30>		Strong HE pervasive										
		Strong pervasive hematite.										
<62.30-63.30>		Moderate HE pervasive										
		Strong pervasive hematite.										
<64.70-76.80>		calcite vein	46019	68.00-69.00	1.00	0.005	0.10	13.0	31.0	3.0	82.0	22.0
		Moderate calcite/chlorite veining from 10-20% to 2cm.,	46020	69.00-70.00	1.00	0.005	0.10	10.0	10.0	10.0	111.0	10.0
		generally 5mm., 6 per meter.	46021	70.00-71.00	1.00	0.010	0.10	14.0	7.0	5.0	153.0	8.0
<77.60-78.30>		Moderate SI patches	46022	71.00-72.00	1.00	0.005	0.10	10.0	7.0	3.0	111.0	6.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Moderate HE pervasive	46023	72.00-73.00	1.00	0.005	0.10	10.0	7.0	3.0	83.0	6.0
	Moderate patchy silica, moderate pervasive hematite.	46024	73.00-74.00	1.00	0.005	0.10	6.0	2.0	5.0	51.0	4.0
<80.30-83.90>	Moderate SI patches	46025	74.00-75.00	1.00	0.005	0.10	8.0	3.0	10.0	41.0	2.0
	Strong HE pervasive	46026	75.00-76.00	1.00	0.010	0.10	8.0	3.0	20.0	39.0	1.0
	Strong pervasive hematite, moderate patchy silica.	46027	76.00-77.00	1.00	0.005	0.10	9.0	20.0	3.0	39.0	6.0
<84.20-84.50>	sheeting 60°	46028	77.00-78.00	1.00	0.005	0.10	1.0	1.0	3.0	1.0	1.0
	Moderate MS patches	46029	78.00-79.00	1.00	0.005	30.00	136.0	69.0	1415.0	27.0	324.0
	Strong HE SHEETED	46030	79.00-80.00	1.00	0.010	0.10	11.0	16.0	5.0	78.0	6.0
	Strong hematite sheeting, causing brecciated	46031	80.00-81.00	1.00	0.005	0.10	8.0	26.0	5.0	37.0	12.0
	appearance, moderate patchy sericite alteration.	46032	81.00-82.00	1.00	0.005	0.10	8.0	24.0	10.0	52.0	10.0
	Sheeting at about 60 degrees.	46033	82.00-83.00	1.00	0.005	0.10	10.0	16.0	5.0	63.0	6.0
<86.80-91.50>	Weak MT disseminated	46034	83.00-84.00	1.00	0.010	0.10	13.0	11.0	5.0	84.0	6.0
	MINERALIZATION- 2-3% disseminated pyrite and later	46035	84.00-85.00	1.00	0.005	0.10	9.0	49.0	10.0	98.0	6.0
	veins, granular patches with calcite and chlorite,	46036	85.00-86.00	1.00	0.005	0.10	10.0	14.0	3.0	72.0	6.0
	moderate to strong pervasive and fracture fill	46037	86.00-87.00	1.00	0.005	0.10	8.0	29.0	15.0	112.0	6.0
	chlorite.	46038	87.00-88.00	1.00	0.005	0.10	9.0	17.0	65.0	57.0	6.0
<86.80-91.50>	Strong CL pervasive	46039	88.00-89.00	1.00	0.005	0.10	6.0	5.0	15.0	45.0	4.0
	Weak PY disseminated	46040	89.00-90.00	1.00	0.005	0.10	7.0	18.0	45.0	35.0	8.0
	MINERALIZATION- 2-3% disseminated pyrite and later	46041	90.00-91.00	1.00	0.005	0.10	5.0	99.0	10.0	38.0	4.0
	veins, granular patches with calcite/chlorite,										
	moderate to strong pervasive and fracture fill										
	chlorite.										
<87.65-87.70>	3.5cm. coarse grained granular pyrite/calcite/chlorite										
	vein at about 80 degrees.										
<87.65-87.70>	macroveins 80°										
	MINERALIZATION- 3.5cm. coarse grained granular										
	pyrite/calcite/chlorite vein at about 80 degrees.										
<90.50-100.58	MINERALIZATION- 1% pyrite as coarse grained granular	46042	91.00-92.00	1.00	0.005	0.10	8.0	17.0	45.0	50.0	6.0
	patches with less dissemination.	46043	92.00-93.00	1.00	0.005	0.10	7.0	3.0	3.0	40.0	4.0
<90.50-100.58	MINERALIZATION- 1% pyrite as coarse grained granular	46044	93.00-94.00	1.00	0.005	0.10	5.0	22.0	10.0	21.0	4.0
	patches with less dissemination.	46045	94.00-95.00	1.00	0.005	0.10	5.0	37.0	3.0	17.0	6.0
<99.50-100.58>	Strong CL pervasive	46046	95.00-96.00	1.00	0.005	0.10	8.0	124.0	3.0	21.0	4.0
	Strong pervasive chlorite.	46047	96.00-97.00	1.00	0.005	0.10	14.0	74.0	3.0	22.0	4.0
(eoh)		46048	97.00-98.00	1.00	0.040	0.10	19.0	22.0	10.0	29.0	4.0
		46049	98.00-99.00	1.00	0.005	0.10	19.0	110.0	3.0	33.0	4.0
		46050	99.00-100.00	1.00	0.005	0.10	36.0	73.0	3.0	93.0	4.0
		46051	100.00-100.58	0.58	0.005	0.60	34.0	456.0	15.0	93.0	44.0

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

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-22

PROJECT: Clone	Date Commenced: 30/06/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-22	Date Completed: 01/07/96		Geotech by: DBL
LENGTH: 106.68	Core Diam: BQTK		

Collar Location

Latitude:	2029.76
Departure:	1966.86
Elevation:	1397.67

S U M M A R Y

0.00-1.40	CASING
1.40-9.50	volcaniclastics **
9.50-16.80	**
16.80-26.53	Hornblende Feldspar xtalline *
26.53-36.00	Hornblende Feldspar xtalline *
36.00-38.83	Broken Core *
38.83-55.45	Hornblende Feldspar xtalline *
55.45-88.00	Biotite Hbl Fdsp xtalline
88.00-89.30	shear zone
89.30-105.45	Biotite Hbl Fdsp xtalline
105.45-106.68	

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	90.00	-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	1.40	CASING Casing.										
1.40	9.50	volcaniclastics Dark green, porphyritic, mottled Frs=25/m :Vns =8/m Strong CL pervasive Weak CB stockwork Moderate KS pervasive Trace PY disseminated Dark mottled green HBFl with 40% to cryptic Biotites +/- Hornblende sub to euhedral Biotites? Augites? phenos dark gray to 3mm. fine grained matrix. Strong pervasive chlorite, weak stockwork and fracture fill calcite, moderate pervasive K-spar. MINERALIZATION- trace to 5% disseminated pyrite, trace hematite within stockwork. STRUCTURE- moderate broken core throughout; increasing towards lower contact.	46052 46053 46054 46055 46056	1.40-3.00 3.00-4.50 4.50-6.00 6.00-7.50 7.50-9.00	1.60 1.50 1.50 1.50 1.50	0.055 0.015 0.005 0.005 0.005	0.10 0.10 0.10 0.10 0.10	45.0 39.0 30.0 59.0 33.0	142.0 81.0 114.0 122.0 224.0	25.0 40.0 55.0 100.0 65.0	132.0 86.0 86.0 82.0 77.0	22.0 26.0 26.0 26.0 26.0
<1.40-9.50>		Moderate MT disseminated MINERALIZATION- trace to 5% disseminated pyrite, trace hematite within calcite stockwork.										
<8.60-8.60>		?? MT disseminated MINERALIZATION- fine grained wispy disseminated pyrite.										
<8.60-8.60>		MINERALIZATION- fine grained wispy disseminated pyrite.										
<9.50-16.80>		foliated 45° Frs=40/m :Vns =2/m Strong CL pervasive Weak CB stockwork Trace HE disseminated Shear zone within fine grained dark green HFx1? no observasble phenos, moderate to strong broken core throughout with bleaching and limonite fracture fill, strong foliation from 30 to 50 degrees, usually 45 degrees. MINERALIZATION- 1% disseminated pyrite, with pyrite breccia work.	46057 46058 46059 46060 46061	9.00-10.50 10.50-12.00 12.00-13.50 13.50-15.00 15.00-16.50	1.50 1.50 1.50 1.50 1.50	0.005 0.005 5.100 2.580 0.255	0.10 0.10 0.10 0.60 0.80	56.0 42.0 55.0 59.0 123.0	478.0 175.0 236.0 883.0 982.0	100.0 85.0 65.0 130.0 170.0	84.0 74.0 82.0 38.0 47.0	30.0 28.0 24.0 28.0 42.0
<9.50-16.80>		Trace MT disseminated MINERALIZATION- 1% disseminated pyrite, with pyrite breccia work.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<10.50-14.30>		foliated 40° Strong foliation at about 40 degrees.										
<13.00-13.50>		30cm. core loss.										
<15.00-16.00>		MINERALIZATION- 6% pyrite as fine grained dissemination.										
<15.00-16.20>		foliated 30° Strong foliation at about 30 degrees.										
<15.00-16.00>		Moderate MS pervasive MINERALIZATION- 6% pyrite as fine grained dissemination. ALTERATION- moderate pervasive secite altered.										
<16.50-16.80>		foliated 50° Strong chloritic foliation at about 50 degrees.										
16.80	26.53	Hornblende Feldspar xtalline	46062	16.50-18.00	1.50	0.115	0.10	43.0	138.0	15.0	80.0	24.0
		Fine grained, green, mottled, bleached	46063	18.00-19.00	1.00	0.005	0.10	40.0	96.0	35.0	76.0	22.0
		foliated 40°	46064	19.00-20.00	1.00	0.040	0.10	73.0	138.0	105.0	89.0	36.0
		Frs=25/m :Vns =5/m	46065	20.00-21.00	1.00	0.020	0.20	75.0	95.0	75.0	87.0	30.0
		Moderate CL pervasive	46066	21.00-22.00	1.00	0.005	0.10	38.0	286.0	60.0	122.0	56.0
		Trace PY disseminated	46067	22.00-23.00	1.00	0.005	2.60	58.0	3678.0	75.0	137.0	38.0
		Light to medium olive green, bleached mottled, weakly	46068	23.00-24.00	1.00	0.820	1.80	85.0	2549.0	40.0	183.0	90.0
		locally foliated HFxl with 25% to cryptic sub to	46069	24.00-25.00	1.00	0.100	0.10	63.0	564.0	65.0	100.0	24.0
		anhedral medium gray Hornblende needles to 0.8mm.,	46070	25.00-26.00	1.00	0.015	0.10	38.0	299.0	25.0	79.0	24.0
		very fine grained matrix. ALTERATION- moderate pervasive and fracture fill limonite, weak calcite stockwork and fracture fill; pockmarking implies calcite fracture fill leached out local weak wispy hematite. STRUCTURE- moderate to strong rubbly broken core throughout moderate leaching with limonite and trace of malachite fracture fill. MINERALIZATION- trace to absent disseminated pyrite.										
<16.80-26.53>		?? MT disseminated MINERALIZATION- trace to absent disseminated pyrite.										
<21.00-21.35>		foliated 40° Moderate foliation at about 40 degrees.										
<23.70-26.53>		Broken Core Rubbly, rusty broken core; trace gouge.										
26.53	36.00	Hornblende Feldspar xtalline	46071	26.00-27.00	1.00	0.105	0.10	21.0	218.0	40.0	76.0	20.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Aphanitic, redish-red, mottled, foliated	46072	27.00-28.00	1.00	0.055	0.10	19.0	273.0	3.0	70.0	16.0
		foliated 60°	46073	28.00-29.00	1.00	0.020	0.10	19.0	82.0	25.0	64.0	18.0
		Frs=6/m :Vns =30/m	46074	29.00-30.00	1.00	0.080	0.10	58.0	137.0	15.0	152.0	18.0
		Weak SI patches	46075	30.00-31.00	1.00	0.015	0.10	107.0	151.0	25.0	183.0	24.0
		Weak CL pervasive	46076	31.00-32.00	1.00	0.680	0.10	37.0	139.0	15.0	114.0	22.0
		Weak CB stockwork	46077	32.00-33.00	1.00	0.020	0.10	32.0	117.0	20.0	104.0	20.0
		Moderate KS patches	46078	33.00-34.00	1.00	0.005	0.10	48.0	183.0	15.0	145.0	24.0
		Strong HE SHEETED	46079	34.00-35.00	1.00	0.005	0.40	35.0	868.0	25.0	109.0	20.0
		Moderate H-zone. Strongly mottled and foliated medium	46080	35.00-36.00	1.00	0.155	0.60	75.0	267.0	25.0	198.0	26.0
		red to gray HFxl with local light green translucent to										
		cryptic subhedral Hornblende needles to 1mm.										
		ALTERATION- weak pervasive and fracture fill chlorite,										
		strong hematite sheeting with less fine grained to										
		medium grained dissemination. Moderate to strong										
		patchy silica, K-spar, moderate calcite irregular										
		stockwork and fracture fill. No observable sulphides.										
	<26.53-29.90>	Moderate SI selvages										
		Moderate HE disseminated										
		Moderate disseminated hematite, 2mm.										
		chlorite/quartz/hematite stringers with K-spar silica										
		selvages; Irregular orientation.										
	<31.90-33.00>	sheeting 60°										
		Moderate hematic sheeting/foliation at about 60										
		degrees.										
	<34.75-36.00>	Moderate MT stringer										
		MINERALIZATION- 3% pyrite as irregular stringers to										
		4mm.										
	<34.75-36.00>	Chlorite Streaming										
		sheeting 55°										
		Strong CL SHEETED										
		Weak HE wispy										
		Weak PY stringer										
		Weak to moderate wispy disseminated hematite; strong										
		chlorite fluid streaming at about 55 degrees										
		increasing throughout lower contact. MINERALIZATION-										
		3% pyrite as irregular stringers to 4mm.										
36.00	38.83	Broken Core	46081	36.00-37.00	1.00	0.010	7.40	36.0	1292.0	80.0	121.0	34.0
		Aphanitic, pale green, fractured, broken	46082	37.00-38.00	1.00	0.005	0.10	41.0	407.0	40.0	165.0	74.0
		Frs=80/m :Vns =12/m										
		Moderate CL pervasive										
		Weak CB stockwork										
		Moderate HE wispy										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Trace SE disseminated										
		Strongly broken to rubbled core within bleached HFxl.										
		Moderate pervasive chlorite, moderate to weak wispy										
		hematite, weak calcite stockwork and fracture fill,										
		but pack-mocked from calcite leaching strong limonite										
		fracture fill. Irregular orientation to fractures.										
		MINERALIZATION- trace disseminated pyrite.										
	<36.00-38.83>	?? MT disseminated										
		MINERALIZATION- trace disseminated pyrite.										
38.83	55.45	Hornblende Feldspar xtalline	46083	38.00-39.00	1.00	0.005	0.60	24.0	174.0	40.0	105.0	30.0
		Fine grained, green, mottled, auto brecciated	46084	39.00-40.00	1.00	0.005	2.60	21.0	1780.0	10.0	110.0	18.0
		macroveins 45°	46085	40.00-41.00	1.00	0.005	4.20	21.0	2797.0	20.0	110.0	14.0
		Frs=18/m :Vns =12/m	46086	41.00-42.00	1.00	0.005	3.20	33.0	2241.0	35.0	158.0	24.0
		Weak SI patches	46087	42.00-43.00	1.00	0.005	0.10	20.0	149.0	5.0	88.0	74.0
		Strong CL pervasive	46088	43.00-44.00	1.00	0.005	0.10	17.0	83.0	3.0	67.0	48.0
		Weak CB microveins	46089	44.00-45.00	1.00	0.005	0.10	18.0	103.0	3.0	60.0	40.0
		Moderate KS pervasive	46090	45.00-46.00	1.00	0.005	0.10	19.0	7.0	5.0	54.0	16.0
		Trace EP microveins	46091	46.00-47.00	1.00	0.005	0.10	17.0	100.0	3.0	55.0	18.0
		Weak HE wispy	46092	47.00-48.00	1.00	0.010	0.10	16.0	123.0	3.0	115.0	20.0
		Trace PY disseminated	46093	48.00-49.00	1.00	0.015	0.10	25.0	84.0	10.0	448.0	38.0
		Medium to dark green to reddish green HFxl with 35% to	46094	49.00-50.00	1.00	0.005	0.10	14.0	75.0	3.0	91.0	48.0
		cryptic subhedral Hornblende phenos to 2mm., fine	46095	50.00-51.00	1.00	0.005	0.10	16.0	66.0	3.0	64.0	26.0
		grained matrix. ALTERATION- moderate to absent wispy	46096	51.00-52.00	1.00	0.005	0.10	14.0	90.0	5.0	53.0	20.0
		stockwork hematite; likely microfracture controlled	46097	52.00-53.00	1.00	0.005	0.10	12.0	64.0	15.0	46.0	22.0
		with autobrecciated appearance decreasing towards	46098	53.00-54.00	1.00	0.005	0.10	14.0	50.0	5.0	61.0	20.0
		lower contact, moderate to strong pervasive, stockwork	46099	54.00-55.00	1.00	0.005	0.10	15.0	85.0	3.0	43.0	18.0
		and fracture fill chlorite, increasing towards lower										
		contact. Absent to moderate patchy silica, increasing										
		towards lower contact. Weak to moderate calcite										
		stockwork and veins to 8mm. at about 50 degrees.										
		MINERALIZATION- trace to 1% disseminated pyrite.										
	<38.83-55.45>	?? MT disseminated										
		MINERALIZATION- trace to 1% disseminated pyrite.										
	<38.83-50.00>	Moderate CL pervasive										
		Moderate HE wispy										
		Moderate wispy microfracture controlled hematite;										
		autobrecciated appearance, moderate hematite										
		pervasive.										
	<45.00-45.90>	Calcite/chlorite late veins/tension fractures at about										
		45 degrees to 3mm., 25 per meter.										
	<46.70-46.94>	Broken Core										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate angular broken core; moderate limonite fracture fill.										
		<50.00-55.45> Moderate SI patches Strong CL pervasive Possible transition/contact zone between BHFl and HFxl strong pervasive sericite, moderate patchy silica.										
55.45	88.00	Biotite Hbl Fdsp xtalline Redish-green, crystalline, mottled Frs=10/m :Vns =100/m Weak SI patches Moderate CL pervasive Moderate CB stockwork Moderate MS pervasive Strong KS patches Strong HE SHEETED Red to green BHFl with 2 to 10% euhedral platy dark gry to burgundy Biotite phenos to 4mm., with 25% or usually cryptic subhedral Hornblende needles to 2mm. fine grained matrix. Units locally foliated and alteration brecciation. ALTERATION- strong to medium sheeted hematite with less disseminated wispy microfracture controlled and disseminated moderate to weak pervasive and fracture fill chlorite, moderate patchy sericite, moderate to strong patchy K-spar, local weak to moderate silica. Weak quartz/chlorite/quartz microveining or tension fractures.	46100	55.00-56.00	1.00	0.005	0.10	13.0	123.0	3.0	44.0	32.0
			46101	56.00-57.00	1.00	0.005	0.10	16.0	166.0	3.0	49.0	110.0
			46102	57.00-58.00	1.00	0.120	0.10	32.0	90.0	3.0	50.0	46.0
			46103	58.00-59.00	1.00	0.020	0.10	19.0	122.0	5.0	51.0	92.0
			46104	59.00-60.00	1.00	0.005	0.10	11.0	24.0	5.0	43.0	12.0
			46105	60.00-61.00	1.00	0.005	0.10	14.0	172.0	3.0	76.0	22.0
			46106	61.00-62.00	1.00	0.005	1.20	19.0	472.0	20.0	307.0	22.0
			46107	62.00-63.00	1.00	0.005	0.10	11.0	58.0	10.0	354.0	22.0
			46108	63.00-64.00	1.00	0.005	0.10	9.0	12.0	3.0	175.0	20.0
			46109	64.00-65.00	1.00	0.005	0.10	9.0	10.0	3.0	49.0	16.0
			46110	65.00-66.00	1.00	0.005	0.10	11.0	13.0	3.0	51.0	20.0
			46111	66.00-67.00	1.00	0.005	0.10	10.0	24.0	3.0	50.0	20.0
			46112	67.00-68.00	1.00	0.005	0.10	9.0	9.0	3.0	59.0	18.0
			46113	68.00-69.00	1.00	0.335	0.10	59.0	17.0	15.0	133.0	22.0
			46114	69.00-70.00	1.00	0.030	0.10	33.0	30.0	15.0	86.0	20.0
			46115	70.00-71.00	1.00	0.005	0.10	13.0	11.0	5.0	70.0	18.0
			46116	71.00-72.00	1.00	0.140	0.10	41.0	6.0	3.0	146.0	18.0
			46117	72.00-73.00	1.00	0.035	0.10	26.0	8.0	3.0	105.0	16.0
			46118	73.00-74.00	1.00	0.005	0.10	16.0	9.0	3.0	99.0	14.0
			46119	74.00-75.00	1.00	0.005	0.10	16.0	16.0	15.0	77.0	18.0
			46120	75.00-76.00	1.00	0.005	0.10	15.0	22.0	20.0	135.0	16.0
		<55.45-57.00> Moderate SI patches Strong CL pervasive D.A.P.- 50.0 to 55.45m.										
		<58.90-59.60> Strong SI patches Strong HE pervasive Strong patchy silica, strong pervasive hematite.										
		<73.50-75.10> sheeting 60° ?? HE SHEETED Strong hematite sheeting at about 60 degrees.										
		<78.00-79.00> calcite vein stockwork 30°	46121	76.00-77.00	1.00	0.005	0.10	16.0	20.0	20.0	116.0	8.0
			46122	77.00-78.00	1.00	0.005	0.10	15.0	23.0	5.0	145.0	8.0
		Quartz/calcite/chlorite stockwork at about 30 degrees, 30 per meter to 3mm.	46123	78.00-79.00	1.00	0.005	0.10	11.0	99.0	10.0	100.0	12.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
88.00	89.30	shear zone	46124	79.00-80.00	1.00	0.005	0.60	13.0	348.0	20.0	64.0	8.0
		sheeting 10°	46125	80.00-81.00	1.00	0.005	0.20	14.0	226.0	5.0	44.0	6.0
		Intense CL foliated	46126	81.00-82.00	1.00	0.005	0.10	10.0	39.0	3.0	45.0	6.0
		Intense MS foliated	46127	82.00-83.00	1.00	0.005	0.10	8.0	5.0	5.0	41.0	4.0
		Shear zone at about 10 degrees with intense	46128	83.00-84.00	1.00	0.005	0.10	9.0	33.0	3.0	42.0	8.0
		chlorite/sericite foliation and weak gouge. Rusty	46129	84.00-85.00	1.00	0.005	0.10	8.0	8.0	3.0	52.0	12.0
		broken core near lower contact.	46130	85.00-86.00	1.00	0.005	0.10	8.0	1.0	10.0	48.0	4.0
89.30	105.45	Biotite Hbl Fdsp xtalline	46131	86.00-87.00	1.00	0.005	0.10	9.0	74.0	20.0	38.0	6.0
		Redish-green, crystalline, mottled	46132	87.00-88.00	1.00	0.005	0.10	14.0	30.0	120.0	41.0	4.0
		Frs=10/m :Vns =100/m	46133	88.00-89.00	1.00	0.005	0.10	8.0	19.0	30.0	40.0	4.0
		Weak SI patches	46134	89.00-90.00	1.00	0.005	0.10	15.0	36.0	25.0	58.0	8.0
		Weak CL pervasive	46135	90.00-91.00	1.00	0.005	0.10	13.0	14.0	5.0	76.0	4.0
		Weak CB stockwork	46136	91.00-92.00	1.00	0.005	0.10	12.0	20.0	3.0	48.0	4.0
		Moderate MS patches	46137	92.00-93.00	1.00	0.005	0.10	14.0	21.0	3.0	41.0	4.0
		Strong KS patches	46138	93.00-94.00	1.00	0.005	0.20	10.0	3.0	20.0	43.0	4.0
		Strong HE SHEETED	46139	94.00-95.00	1.00	0.005	0.10	6.0	7.0	3.0	36.0	4.0
		D.A.P.- 55.45 to 88.0m. Moderate to strong patchy	46140	95.00-96.00	1.00	0.005	0.10	8.0	13.0	5.0	65.0	4.0
		sericite.	46141	96.00-97.00	1.00	0.005	0.10	9.0	6.0	3.0	53.0	4.0
<104.98-105.45>		Broken Core	46142	97.00-98.00	1.00	0.005	0.10	8.0	8.0	3.0	23.0	1.0
		Strong MS pervasive	46143	98.00-99.00	1.00	0.005	0.10	9.0	3.0	3.0	21.0	1.0
		Moderate broken core; strong pervasive sericite, weak	46144	99.00-100.00	1.00	0.005	0.10	8.0	6.0	3.0	20.0	1.0
		limonite with calcite fracture fill, trace pyritic	46145	100.00-101.00	1.00	0.005	0.10	8.0	45.0	10.0	20.0	1.0
		gouge.	46146	101.00-102.00	1.00	0.005	0.10	8.0	61.0	10.0	21.0	2.0

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-23

PROJECT: Clone	Date Commenced: 01/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-23	Date Completed: 01/07/96		Geotech by: DBL
LENGTH: 124.97	Core Diam: BQTK		

Collar Location

Latitude:	2029.71
Departure:	1966.36
Elevation:	1397.41

S U M M A R Y

0.00-0.16	CASING
0.16-9.50	Biotite Hbl Fdsp xtalline
9.50-15.35	Broken Core
15.35-27.85	volcaniclastics **
27.85-28.50	FAULT ZONE *
28.50-41.85	volcaniclastics
41.85-44.00	Hornblende Feldspar xtalline *
44.00-44.71	massive hematite
44.71-63.00	Hornblende Feldspar xtalline *
63.00-92.70	Biotite Hbl Fdsp xtalline **
92.70-124.97	Hornblende Feldspar xtalline *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	90.00	-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	0.16	CASING Casing.										
0.16	9.50	Biotite Hbl Fdsp xtalline Aphanitic, dark red, massive contact 25° Frs=20/m Weak SI patches Strong CL pervasive Strong MT pervasive Weak HE wispy H2-zone. Dark gray massive very fine grained HFxl, no observable phenos. ALTERATION- strong pervasive magnetite, weak wispy hematite strong pervasive chlorite, local patchy silica. Lower contact=distinct at about 25 degrees.										
<1.14-9.50>		Fine grained, dark green, porphyritic, broken Frs=20/m :Vns =18/m Intense CL pervasive Moderate CB stockwork Dark green BHFl with 35% light gray subhedral Biotite +/- Hornblende phenos to 3mm., locally cryptic, very fine grained matrix. ALTERATION- intense pervasive chlorite, moderate wispy and fracture fill calcite. Lower contact=fault zone. STRUCTURE- moderate to strong broken core throughout.	46152 46153 46154 46155 46156 46157 46158	0.16-1.17 1.17-2.00 2.00-3.50 3.50-5.00 5.00-6.50 6.50-8.00 8.00-9.50	1.01 0.83 1.50 1.50 1.50 1.50 1.50	1.780 0.040 0.005 0.005 0.005 0.005 0.005	0.10 0.10 0.10 0.10 0.10 0.10 0.10	122.0 35.0 21.0 102.0 64.0 32.0 67.0	229.0 301.0 238.0 37.0 42.0 37.0 66.0	175.0 45.0 25.0 2615.0 100.0 30.0 185.0	297.0 128.0 63.0 101.0 65.0 65.0 61.0	 328.0
<3.38-4.40>		Broken Core fracturing 60° Strong rubbly broken core; trace to 1% gouge; fractures commonly at about 60 degrees.										
<9.50-15.35>		foliated 20°:foliated 40° Strong CL pervasive Moderate CB stockwork Strong broken core to rubble throughout; strong to weak limonite fracture fill, trace gouge within dark green very fine grained HFxl or BHFl. ALTERATION- strong pervasive chlorite, moderate calcite stockwork. Foliations at about 20 and 40 degrees.	46159 46160 46161	9.50-11.00 11.00-12.60 12.60-14.00	1.50 1.60 1.40	0.010 0.005 0.005	0.10 0.10 0.10	65.0 28.0 31.0	77.0 120.0 130.0	240.0 50.0 65.0	59.0 62.0 59.0	 2.0
<9.50-10.50>		shear zone laminations 20° Likely shear zone at about 20 degrees; with strong chlorite/calcite laminations.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<11.70-14.00> Broken Core Strong rubbly broken core; weak bleaching with trace gouge and limonite fracture fill.										
		<14.00-14.70>Moderate chloritic foliation at about 40 degrees.										
15.35	27.85	volcaniclastics Fine grained, dark green, mottled, broken Frs=20/m :Vns =18/m Strong CL pervasive Moderate CB stockwork Weak PY disseminated Dark green mottled BHFl? with 10 to 30% sub to anhedral, white to dark gray phenos fine grained matrix. ALTERATION- strong pervasive chlorite, moderate calcite stockwork and fracture fill. MINERALIZATION- 2 to 3% fine grained to coarse grained disseminated pyrite. STRUCTURE- moderate to strong broken core throughout. Aletration may give porphyric appearance. Strong limonite fracture fill.	46162	14.00-15.50	1.50	0.005	0.20	46.0	96.0	85.0	62.0	
			46163	15.50-17.00	1.50	0.005	0.10	48.0	114.0	70.0	63.0	
			46164	17.00-18.50	1.50	1.560	0.10	52.0	222.0	85.0	48.0	
			46165	18.50-20.00	1.50	0.250	0.10	36.0	236.0	60.0	49.0	6.0
			46166	20.00-21.50	1.50	0.185	0.10	42.0	213.0	60.0	60.0	4.0
			46167	21.50-23.00	1.50	0.055	0.10	45.0	234.0	65.0	62.0	
			46168	23.00-24.53	1.53	0.005	0.10	31.0	116.0	20.0	58.0	
			46169	24.53-26.00	1.47	0.020	0.10	32.0	197.0	55.0	61.0	
			46170	26.00-27.50	1.50	0.010	1.40	48.0	385.0	60.0	60.0	10.0
		<15.35-27.85> Weak MT disseminated MINERALIZATION- 2 to 3% fine grained to coarse grained disseminated pyrite.										
		<21.40-21.90> Broken Core fracturing 50°:foliated 50° Rubbly limonitic broken core. Fractures and foliations at about 40 degrees. Weak bleaching.										
		<25.85-27.10> ?? MT stringer MINERALIZATION- 8% fine grained to medium grained pyrite as wispy stringers parallel with chloritic foliation at about 15 degrees, 1% patchy hematite.										
		<25.85-27.10> microveins 15° Trace HE patches Moderate PY stringer MINERALIZATION- 8% fine grained to medium grained pyrite as wispy stringers parallel with chloritic foliation at about 15 degrees, 1% patchy hematite.										
27.85	28.50	FAULT ZONE gouge 20° Gougy, rusty fault zone at about 20 degrees. Strong, rubbly broken core. MINERALIZATION- 5% hematite, 5%										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		pyrite.										
		<27.85-28.50>MINERALIZATION- 5% hematite, 5% pyrite.										
28.50	41.85	volcaniclastics	46171	27.50-29.00	1.50	28.830	10.20	129.0	887.0	125.0	112.0	14.0
		Fine grained, mottled	46172	29.00-30.50	1.50	0.605	0.60	40.0	209.0	40.0	107.0	6.0
		Dark green, mottled light gray BHFl common indistinct	46173	30.50-32.00	1.50	0.145	0.80	37.0	186.0	180.0	76.0	10.0
		subhedral phenos or alteration patches throughout.	46174	32.00-33.50	1.50	0.010	0.10	34.0	186.0	45.0	72.0	2.0
		ALTERATION- strong pervasive chlorite and stockwork	46175	33.50-35.00	1.50	0.005	0.10	34.0	137.0	80.0	148.0	6.0
		calcite. STRUCTURE- common strong broken core,	46176	35.00-36.00	1.00	0.005	0.10	36.0	120.0	40.0	241.0	4.0
		bleaching and limonite fracture fill.	46177	36.00-37.00	1.00	0.005	0.10	40.0	130.0	90.0	530.0	14.0
		<31.00-32.40> Broken Core										
		foliated 30°:fracturing 30°										
		Moderate angular broken core with moderate limonite										
		fracture fill and weak bleaching. Fracturing and										
		foliation common at about 30 degrees.										
		<38.90-40.00> fracturing 50°:foliated 20°	46178	37.00-38.00	1.00	0.005	0.10	40.0	119.0	85.0	165.0	4.0
		Rubbly broken core, moderate limonite fracture fill,	46179	38.00-39.00	1.00	0.040	0.80	54.0	105.0	125.0	103.0	14.0
		moderate bleaching. Foliation near lower contact at	46180	39.00-40.00	1.00	0.035	0.80	37.0	93.0	85.0	81.0	2.0
		about 20 degrees, fractures with weak limonite gouge										
		at about 50 degrees.										
		<40.00-41.85>MINERALIZATION- 2 to 3% fine grained to medium grained	46181	40.00-41.00	1.00	17.260	5.40	88.0	347.0	155.0	138.0	92.0
		disseminated and wispy disseminated hematite.										
41.85	44.00	Hornblende Feldspar xtalline	46182	41.00-42.00	1.00	0.400	1.80	28.0	672.0	55.0	173.0	10.0
		Aphanitic, redish-green, mottled	46183	42.00-43.00	1.00	0.230	2.00	26.0	353.0	30.0	112.0	10.0
		foliated 40°	46184	43.00-43.90	0.90	0.005	0.10	40.0	56.0	15.0	68.0	4.0
		Frs=10/m :Vns =5/m										
		Moderate SI patches										
		Moderate CL pervasive										
		Moderate KS patches										
		Weak HE wispy										
		Weak PY stringer										
		Gray-green very fine grained HFxl; no observable										
		phenocrysts. ALTERATION- moderate to strong pervasive										
		chlorite, moderate patchy silica and pervasive K-spar,										
		weak wispy disseminated hematite. MINERALIZATION- 4%										
		very fine grained pyrite, commonly foliated at about										
		40 degrees.										
		<41.85-44.00> Strong MT fine grained										
		MINERALIZATION- 4% very fine grained pyrite, commonly										
		foliated at about 40 degrees.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
44.00	44.71	massive hematite Moderate SI patches Strong MT pervasive Intense HE massive Massive hematite, with strong magnetite, moderate patchy quartz/silica.										
44.71	63.00	Hornblende Feldspar xtalline Fine grained, green, mottled Frs=7/m :Vns =20/m Weak SI patches Strong CL pervasive Intense CB stockwork Moderate KS pervasive Weak HE wispy Medium green, patchy light green and streaked red with 20 to 30% commonly cryptic sub to anhedral Hornblende phenos, very fine grained to aphanitic matrix. ALTERATION- strong to moderate pervasive chlorite, moderate to weak, wispy pervasive and disseminated, with less fracture controlled hematite, moderate calcite fracture fill. Local moderate patchy silica, moderate pervasive K-spar. Graduational lower contact.	46185	43.90-44.73	0.83	0.005	0.10	43.0	142.0	15.0	64.0	2.0
			46186	44.73-46.00	1.27	0.410	1.80	260.0	221.0	245.0	135.0	10.0
			46187	46.00-47.00	1.00	0.035	0.10	29.0	335.0	2.5	58.0	6.0
			46188	47.00-48.00	1.00	0.005	0.10	121.0	250.0	105.0	118.0	10.0
			46189	48.00-49.00	1.00	0.010	0.10	33.0	302.0	115.0	72.0	12.0
			46190	49.00-50.00	1.00	0.030	0.10	32.0	335.0	25.0	58.0	12.0
			46191	50.00-51.00	1.00	0.100	0.10	40.0	257.0	15.0	59.0	20.0
			46192	51.00-52.00	1.00	0.005	0.10	32.0	156.0	15.0	62.0	20.0
			46193	52.00-53.00	1.00	0.010	0.10	40.0	188.0	60.0	92.0	24.0
			46194	53.00-54.00	1.00	0.090	0.10	17.0	168.0	10.0	120.0	16.0
			46195	54.00-55.00	1.00	0.070	0.10	18.0	279.0	5.0	147.0	16.0
			46196	55.00-56.00	1.00	0.025	0.40	17.0	94.0	15.0	67.0	34.0
			46197	56.00-57.00	1.00	0.030	0.60	16.0	98.0	15.0	88.0	76.0
			46198	57.00-58.00	1.00	0.105	0.60	32.0	89.0	30.0	90.0	30.0
			46199	58.00-59.00	1.00	0.075	0.10	40.0	112.0	20.0	175.0	30.0
			46200	59.00-60.00	1.00	0.035	0.10	12.0	87.0	2.5	44.0	16.0
<53.00-54.30>		foliated 60° Moderate SI patches Moderate KS patches Weak HE patches Weak bleaching and weak limonite fracture fill, moderate patchy silica and K-spar, weak patchy hematite, foliated at about 60 degrees.										
<54.30-54.90>		Chlorite Streaming Intense SI SHEETED Strong HE SHEETED Intense chlorite streaming and strong hematite at about 40 degrees.										
<57.30-57.50>		Strong MT stringer MINERALIZATION- 4% pyrite as stringers.										
<57.30-57.50>		calcite vein Weak PY stringer Calcite/chlorite/pyrite veins as wispy pyrite veins at 50 degrees. MINERALIZATION- 4% pyrite as stringers.										
<58.60-63.00>		Moderate HE wispy	46201	60.00-61.00	1.00	0.010	0.10	14.0	84.0	2.5	55.0	12.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate wispy fracture controlled hematite.	46202	61.00-62.00	1.00	0.005	0.10	13.0	79.0	2.5	53.0	12.0
63.00	92.70	Biotite Hbl Fdsp xtalline	46203	62.00-63.00	1.00	0.010	0.10	10.0	65.0	2.5	51.0	10.0
		Fine grained, redish-green, crystalline	46204	63.00-64.00	1.00	0.030	0.10	11.0	75.0	2.5	48.0	14.0
		Frs=9/m :Vns =18/m	46205	64.00-65.00	1.00	0.025	0.10	18.0	74.0	2.5	47.0	12.0
		Weak SI patches	46206	65.00-66.00	1.00	0.985	0.20	65.0	140.0	55.0	49.0	32.0
		Moderate CL pervasive	46207	66.00-67.00	1.00	0.010	0.10	10.0	20.0	2.5	64.0	12.0
		Weak CB stockwork	46208	67.00-68.00	1.00	0.005	0.10	15.0	14.0	15.0	149.0	12.0
		Weak MS patches	46209	68.00-69.00	1.00	0.005	0.10	16.0	69.0	20.0	194.0	24.0
		Trace MT pervasive	46210	69.00-70.00	1.00	0.005	0.10	10.0	14.0	30.0	128.0	16.0
		Moderate KS pervasive	46211	70.00-71.00	1.00	0.005	0.10	9.0	13.0	10.0	107.0	14.0
		Moderate HE wispy	46212	71.00-72.00	1.00	0.005	0.10	9.0	50.0	2.5	79.0	12.0
		Trace PY disseminated	46213	72.00-73.00	1.00	0.005	0.10	9.0	21.0	5.0	87.0	12.0
		Medium green to red green, to red gray BHFl with 3 to	46214	73.00-74.00	1.00	0.005	0.20	9.0	30.0	10.0	89.0	14.0
		10% euhedral flaky Biotite phenos to 3mm. cryptic to	46215	74.00-75.00	1.00	0.005	0.10	10.0	6.0	2.5	115.0	10.0
		20% subhedral cream to pink to light gray Hornblende	46216	75.00-76.00	1.00	0.005	0.10	13.0	61.0	2.5	101.0	14.0
		phenos to 3mm. ALTERATION- moderate to strong	46217	76.00-77.00	1.00	0.005	0.20	16.0	146.0	2.5	94.0	28.0
		pervasive chlorite, weak to moderate pervasive	46218	77.00-78.00	1.00	1.350	1.20	146.0	280.0	75.0	153.0	10.0
		hematite with less dissemination and wispy fracture	46219	78.00-79.00	1.00	0.075	0.10	39.0	65.0	5.0	114.0	12.0
		controlled, local moderate patchy silica, weak calcite	46220	79.00-80.00	1.00	0.665	0.60	12.0	112.0	2.5	82.0	38.0
		stockwork and fracture fill, weak to absent pervasive	46221	80.00-81.00	1.00	0.140	0.10	11.0	70.0	2.5	82.0	18.0
		magnetite. MINERALIZATION- 2% to absent ?.	46222	81.00-82.00	1.00	0.005	0.10	6.0	32.0	2.5	57.0	10.0
		<63.00-92.70>MINERALIZATION- 2% to absent ?.	46223	82.00-83.00	1.00	0.005	0.10	7.0	17.0	5.0	54.0	14.0
		<63.00-64.80> Strong CL pervasive										
		Weak HE wispy										
		ALTERATION- strong pervasive chlorite, weak fracture										
		controlled and wispy dissemination.										
		<64.80-66.65> Strong CL pervasive										
		Moderate HE wispy										
		ALTERATION- strong pervasive chlorite, moderate to										
		wispy fracture controlled hematite.										
		<66.65-69.95> Chlorite Streaming										
		ALTERATION- strong pervasive chlorite, to chlorite										
		streaming, trace disseminated hematite.										
		<68.35-70.60>Moderate broken core; weak bleaching and limonite										
		fracture fill.										
		<69.95-72.45> Weak SI patches										
		Moderate CL pervasive										
		Strong KS pervasive										
		Moderate HE pervasive										
		ALTERATION- moderate pervasive and fracture controlled										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		hematite, moderate pervasive chlorite, weak patchy silica, strong pervasive K-spar.										
	<72.45-73.70>	Strong MT coarse grained										
		MINERALIZATION- 4% coarse grained pyrite patches.										
	<72.45-73.70>	Moderate SI patches										
		Strong CL pervasive										
		Trace HE disseminated										
		Weak PY disseminated										
		ALTERATION- strong pervasive chlorite, moderate patchy silica, trace disseminated hematite. MINERALIZATION- 4% coarse grained pyrite patches.										
	<73.70-83.50>	Strong SI patches										
		Moderate CL pervasive										
		Trace MT pervasive										
		Strong KS pervasive										
		Strong HE pervasive										
		ALTERATION- strong pervasive hematite with less wispy fracture control, moderate pervasive hematite, moderate patchy silica, strong pervasive K-spar, euhedral Biotite phenos to 10% ? H? zone.										
	<83.50-92.70>	foliated 30°	46224	83.00-84.00	1.00	0.005	0.10	7.0	49.0	5.0	66.0	14.0
		Weak SI patches	46225	84.00-85.00	1.00	0.005	0.10	9.0	26.0	2.5	76.0	22.0
		Weak CL pervasive	46226	85.00-86.00	1.00	0.005	0.10	8.0	2.0	5.0	76.0	12.0
		Moderate MS pervasive	46227	86.00-87.00	1.00	0.005	0.10	10.0	2.0	2.5	147.0	20.0
		Moderate HE pervasive	46228	87.00-88.00	1.00	0.005	0.10	5.0	1.0	5.0	82.0	16.0
		ALTERATION- moderate pervasive, wispy fracture	46229	88.00-89.00	1.00	0.005	0.10	6.0	6.0	2.5	125.0	12.0
		controlled and disseminated hematite, weak local	46230	89.00-90.00	1.00	0.005	0.10	11.0	6.0	5.0	93.0	12.0
		patchy silica, moderate pervasive chlorite. Moderate	46231	90.00-91.00	1.00	0.010	0.40	10.0	103.0	25.0	72.0	50.0
		pervasive sericite.	46232	91.00-92.00	1.00	0.015	0.20	24.0	157.0	25.0	56.0	36.0
	<87.99-88.16>	Strong MS patches										
		Intense irregular hematite/sericite brecciated.										
		Rounded patches/fragments sericited HFxl.										
92.70	124.97	Hornblende Feldspar xtalline	46233	92.00-93.00	1.00	0.005	0.10	47.0	31.0	25.0	72.0	14.0
		Fine grained, green, crystalline, mottled	46234	93.00-94.00	1.00	0.005	0.80	26.0	12.0	40.0	58.0	12.0
		Frs=10/m :Vns =25/m	46235	94.00-95.00	1.00	0.005	0.10	13.0	22.0	15.0	52.0	8.0
		Weak SI patches	46236	95.00-96.00	1.00	0.005	0.10	8.0	7.0	10.0	57.0	10.0
		Strong CL pervasive	46237	96.00-97.00	1.00	0.005	0.20	12.0	20.0	5.0	73.0	16.0
		Weak CB stockwork	46238	97.00-98.00	1.00	0.005	0.10	7.0	81.0	2.5	45.0	8.0
		Moderate MS patches	46239	98.00-99.00	1.00	0.110	0.10	81.0	9.0	40.0	52.0	10.0
		Moderate MT pervasive	46240	99.00-100.00	1.00	0.005	0.10	27.0	8.0	2.5	72.0	6.0
		Moderate KS pervasive	46241	100.00-101.00	1.00	0.005	0.10	14.0	6.0	5.0	69.0	8.0

FROM	TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak HE disseminated	46242	101.00-102.00	1.00	0.175	0.10	25.0	7.0	2.5	109.0	6.0
		Trace SE stringer	46243	102.00-103.00	1.00	0.010	0.10	16.0	12.0	2.5	84.0	12.0
		Trace PY disseminated	46244	103.00-104.00	1.00	0.005	0.10	4.0	7.0	2.5	51.0	10.0
		Dark green to red green fine grained HFxl ? patches	46245	104.00-105.00	1.00	0.005	0.10	9.0	33.0	2.5	73.0	10.0
		observable Biotite phenos 20 to 30% rare local white	46246	105.00-106.00	1.00	0.005	0.10	9.0	8.0	2.5	71.0	10.0
		subhedral Biotite? augite? light gray subhedral	46247	106.00-107.00	1.00	0.005	0.10	13.0	9.0	2.5	86.0	12.0
		Hornblende phenos to 2mm. ALTERATION- strong pervasive	46248	107.00-108.00	1.00	0.005	0.10	16.0	10.0	2.5	44.0	8.0
		chlorite, moderate to weak local patchy hematite	46249	108.00-109.00	1.00	0.005	0.10	12.0	12.0	2.5	37.0	8.0
		disseminations. Weak calcite stockwork.	46250	109.00-110.00	1.00	0.005	0.40	15.0	18.0	10.0	37.0	10.0
		MINERALIZATION- 1% to absent disseminated pyrite,	46251	110.00-111.00	1.00	0.005	0.40	26.0	94.0	75.0	101.0	24.0
		strong local pervasive magnetite. Moderate to weak	45252	111.00-112.00	1.00	0.005	0.60	16.0	206.0	20.0	102.0	54.0
		patchy silica. New zone?	46253	112.00-113.00	1.00	0.005	0.10	25.0	53.0	2.5	142.0	32.0
	<92.70-124.97	MINERALIZATION- 1% to absent disseminated pyrite,	46254	113.00-114.00	1.00	0.010	0.10	32.0	99.0	2.5	194.0	16.0
		strong local pervasive magnetite. Moderate to weak	46255	114.00-115.00	1.00	0.450	0.10	52.0	492.0	2.5	239.0	40.0
		patchy silica. New zone?	46256	115.00-116.00	1.00	0.005	2.80	72.0	1563.0	85.0	223.0	10.0
	<92.90-93.80>	Moderate bleaching and limonite fracture fill,										
		moderate broken core; patchy silica/calcite/chlorite.										
	<95.00-98.20>	Weak SI patches										
		Strong HE pervasive										
		ALTERATION- strong pervasive hematite, weak patchy										
		silica.										
	<100.30-101.25>	Biotite Hbl Fdsp xtalline										
		Fine grained, crystalline										
		Weak SI patches										
		Strong HE pervasive										
		5 to 6% platy euhedral Biotite phenos to 3mm.										
	<100.40-101.25>	Weak SI patches										
		Strong HE pervasive										
		ALTERATION- strong pervasive hematite, weak patchy										
		silica.										
	<101.50-101.80>	Moderate SI patches										
		Weak HE wispy										
		ALTERATION- moderate patchy silica, weak wispy										
		hematite.										
	<102.85-103.60>	Moderate SI patches										
		Strong HE pervasive										
		ALTERATION- strong pervasive hematite, moderate patchy										
		silica.										
	<105.80-109.90>	Moderate SI patches										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Moderate_MT pervasive										
	Moderate KS patches										
	Strong HE pervasive										
	ALTERATION- strong pervasive hematite, moderate patchy K-spar, silica, moderate pervasive magnetite.										
<109.90-111.20>	Chlorite Streaming										
	sheeting 40°										
	Intense SI SHEETED										
	Intense chlorite streaming at about 30 degrees.										
<111.20-121.45>	Semi-massive hematite	46257	116.00-117.00	1.00	0.240	0.80	290.0	335.0	280.0	134.0	16.0
	Blueish-gray	46258	117.00-118.00	1.00	0.220	1.60	250.0	845.0	245.0	175.0	14.0
	macroveins 60°	46259	118.00-119.00	1.00	0.165	0.80	197.0	457.0	165.0	113.0	10.0
	Weak SI patches	46260	119.00-120.00	1.00	0.070	0.10	78.0	279.0	25.0	97.0	16.0
	Moderate CL patches	46261	120.00-121.00	1.00	0.125	0.10	75.0	171.0	20.0	112.0	14.0
	Strong MT pervasive										
	Strong HE pervasive										
	Trace SE wispy										
	Trace PY disseminated										
	Strong pervasive magnetite, moderate to strong pervasive hematite, rare wispy specularite within hematite, patchy, pervasive chlorite, hematite/specularite veins to 4cm., one per meter at about 60 degrees. Weak medium grained pyrite at upper contact.										
<121.45-124.97>	foliated 30°	46262	121.00-122.00	1.00	0.005	2.80	72.0	1563.0	85.0	223.0	10.0
	Strong CL pervasive	46263	122.00-123.00	1.00	0.005	0.10	42.0	255.0	10.0	89.0	10.0
	ALTERATION- strong pervasive chlorite, weak wispy magnetite, foliated at about 30 degrees.	46264	123.00-124.00	1.00	0.110	0.10	59.0	447.0	25.0	81.0	8.0
		46265	124.00-124.97	0.97	0.005	0.10	33.0	117.0	10.0	54.0	10.0
<121.83-122.00>	calcite vein										
	macroveins 45°										
	14cm. wide calcite, quartz/chlorite/epidote vein at about 45 degrees.										
(eoh)											

11/29/96

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

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-24

PROJECT: Clone	Date Commenced: 01/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-24	Date Completed: 02/07/96		Geotech by: DBL
LENGTH: 164.59	Core Diam: BQTK		

Collar Location

Latitude:	2029.84
Departure:	1965.75
Elevation:	1397.60

S U M M A R Y

0.00-0.08	CASING
0.08-7.00	Biotite Hbl Fdsp xtalline
7.00-10.00	Broken Core
10.00-30.10	Hornblende Feldspar xtalline *
30.10-40.50	Biotite Hbl Fdsp xtalline
40.50-41.10	rubbly fault zone
41.10-70.75	Hornblende Feldspar xtalline ***
70.75-80.50	Biotite Hbl Fdsp xtalline ***
80.50-107.00	Biotite Hbl Fdsp xtalline **
107.00-136.51	Biotite Hbl Fdsp xtalline *
136.51-137.60	rubbly fault zone
137.60-157.80	Biotite Hbl Fdsp xtalline *
157.80-164.59	Hornblende Feldspar xtalline *

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	90.00	-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	0.08	CASING										
0.08	7.00	Biotite Hbl Fdsp xtalline	46266	0.08-2.00	1.92	0.005	0.10	30.0	67.0	30.0	188.0	10.0
		Fine grained, dark green, massive, crystalline	46267	2.00-3.50	1.50	0.005	0.10	31.0	28.0	25.0	170.0	12.0
		foliated 10°	46268	3.50-5.00	1.50	0.040	0.10	35.0	109.0	35.0	100.0	12.0
		Frs=15/m :Vns =5/m	46269	5.00-6.50	1.50	0.005	0.10	34.0	181.0	45.0	115.0	20.0
		Strong CL pervasive										
		Weak CB stockwork										
		Weak HE microveins										
		Dark green BHFl with 5% eu to subhedral light gray										
		Biotite phenos to 3mm. 35% cryptic light gray sub to										
		anhedral Hornblende phenos to 2mm. fine grained										
		matrix. ALTERATION- strong to intense pervasive										
		chlorite with common fluid streaming, weak irregular										
		calcite patches usually with hematite with lesser										
		fracture fill. Weak hematite within calcite stockwork;										
		H-zone?										
<2.70-4.20>		Chlorite Streaming										
		sheeting 10°										
		Intense CL SHEETED										
		Weak CB patches										
		Weak HE patches										
		Intense chlorite fluid streaming with weak										
		calcite/hematite patches.										
7.00	10.00	Broken Core	46270	6.50-8.00	1.50	0.985	2.00	36.0	347.0	75.0	273.0	18.0
		Fine grained, dark green, broken, crystalline	46271	8.00-9.00	1.00	0.090	0.60	30.0	170.0	85.0	292.0	14.0
		Frs=100/m										
		Strong CL pervasive										
		Weak CB stockwork										
		Strongly broken core to rubbled dark green BHFl										
		D.A.P.- 0.08 to 7.0m. No noticeable common fracture										
		pattern, trace gouge, moderate limonite fracture fill.										
10.00	30.10	Hornblende Feldspar xtalline	46272	9.00-10.50	1.50	0.035	0.10	27.0	156.0	40.0	101.0	8.0
		Fine grained, dark green, massive	46273	10.50-12.00	1.50	0.005	0.10	25.0	170.0	35.0	66.0	14.0
		Strong CL pervasive	46274	12.00-13.50	1.50	0.010	0.10	25.0	119.0	35.0	69.0	18.0
		Moderate CB microveins	46275	13.50-15.00	1.50	0.010	0.10	25.0	129.0	40.0	56.0	6.0
		Weak MS patches	46276	15.00-16.50	1.50	0.005	0.10	31.0	70.0	45.0	54.0	10.0
		Trace PY disseminated	46277	16.50-18.00	1.50	0.005	0.10	38.0	143.0	55.0	58.0	14.0
		Dark green massive fine grained HFxl with 30% to	46278	18.00-19.50	1.50	0.005	0.10	30.0	87.0	40.0	58.0	12.0
		cryptic sub to anhedral Hornblende phenos to 2mm. very	46279	19.50-21.00	1.50	0.005	0.10	37.0	125.0	60.0	67.0	16.0
		fine grained matrix. ALTERATION- strong pervasive	46280	21.00-22.50	1.50	0.005	0.10	28.0	100.0	35.0	58.0	12.0
		chlorite, moderate stockwork calcite/chlorite veins.	46281	22.50-24.00	1.50	0.030	0.10	29.0	153.0	50.0	64.0	12.0
		MINERALIZATION- trace local patchy pyrite, weak patchy	46282	24.00-25.50	1.50	0.005	0.10	30.0	58.0	55.0	61.0	14.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		sericite.	46283	25.50-27.00	1.50	0.005	0.10	30.0	147.0	75.0	66.0	16.0
	<10.00-30.10>	?? MT local	46284	27.00-28.50	1.50	0.005	0.10	29.0	126.0	60.0	64.0	14.0
		MINERALIZATION- trace local patchy pyrite, weak patchy	46285	28.50-30.00	1.50	0.010	0.10	18.0	51.0	10.0	64.0	14.0
		sericite.										
	<10.00-12.80>	Broken Core										
		fracturing 10°:fracturing 40°										
		Moderate broken core with moderate limonite fracture										
		fill. Fracture angles common at 10 and 40 degrees.										
	<26.30-28.04>	Weak broken core with weak bleaching and limonite										
		fracture fill.										
30.10	40.50	Biotite Hbl Fdsp xtalline	46286	30.00-31.50	1.50	0.015	0.10	20.0	162.0	60.0	49.0	14.0
		Fine grained, green, crystalline, massive	46287	31.50-33.00	1.50	0.040	0.10	16.0	57.0	45.0	51.0	18.0
		stockwork 45°	46288	33.00-34.50	1.50	0.010	0.10	12.0	97.0	10.0	56.0	28.0
		Frs=8/m :Vns =18/m		34.50-36.00	1.50	0.090	0.80	23.0	143.0	40.0	53.0	16.0
		Weak SI microveins		36.00-37.50	1.50	5.080	0.80	88.0	183.0	220.0	43.0	12.0
		Strong CB microveins	46291	37.50-39.00	1.50	0.270	0.20	16.0	139.0	45.0	52.0	14.0
		Weak PY wispy	46292	39.00-40.50	1.50	0.030	0.10	19.0	161.0	25.0	55.0	14.0
		Medium green BHFl with 10% euhedral Biotite phenos to										
		4mm. Augites? 30% sub to euhedral light gray										
		Hornblende phenos to 3mm. very fine grained matrix.										
		ALTERATION- strong pervasive sericite, strong										
		stockwork calcite with less quartz at about 45										
		degrees, 18 per meter to 6mm. MINERALIZATION- 1% wispy										
		pyrite. Upper contact=indistinct.										
	<35.00-40.50>	Broken Core										
		Dark green										
		Weak broken core with strong bleaching and leaching of										
		calcite. Increasing towards upper contact.										
40.50	41.10	rubbly fault zone										
		Dark green, broken										
		Rubbly bleached fault zone with 30cm. of core loss. 1%										
		gouge, weak limonite.										
41.10	70.75	Hornblende Feldspar xtalline	46293	40.50-42.00	1.50	0.005	0.10	32.0	102.0	45.0	81.0	18.0
		Fine grained, green, mottled	46294	42.00-43.50	1.50	0.020	0.20	27.0	174.0	35.0	57.0	10.0
		fracturing 50°	46295	43.50-45.00	1.50	0.005	0.10	18.0	114.0	10.0	66.0	10.0
		Frs=12/m :Vns =14/m	46296	45.00-46.50	1.50	2.590	0.10	39.0	178.0	35.0	95.0	
		Weak SI patches	46297	46.50-48.00	1.50	0.005	0.10	42.0	234.0	20.0	70.0	2.0
		Strong CL pervasive	46298	48.00-49.50	1.50	0.005	0.60	34.0	115.0	50.0	57.0	
		Moderate CB stockwork	46299	49.50-51.00	1.50	0.005	0.10	26.0	129.0	2.5	67.0	6.0
		Moderate KS pervasive	46300	51.00-52.50	1.50	0.005	0.10	30.0	86.0	2.5	76.0	

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	-Weak HE wispy	46301	52.50-54.00	1.50	0.005	0.10	16.0	54.0	2.5	59.0	4.0
	Weak PY wispy	46302	54.00-55.50	1.50	0.005	0.20	38.0	277.0	25.0	100.0	8.0
	Medium green mottled fine grained HFxl with 20 to 30%,	46303	55.50-57.00	1.50	0.005	0.60	41.0	178.0	15.0	96.0	14.0
	locally, cryptic Hornblende phenos to 2mm., local	46304	57.00-58.50	1.50	0.005	1.40	37.0	263.0	30.0	92.0	18.0
	anhedral Feldspar? ghosts to 2mm. ALTERATION- strong	46305	58.50-60.00	1.50	0.005	0.40	32.0	131.0	25.0	85.0	12.0
	pervasive and sheeted chlorite; weak to moderate local	46306	60.00-61.50	1.50	0.005	0.10	26.0	29.0	20.0	60.0	8.0
	wispy disseminated hematite, moderate irregular	46307	61.50-63.00	1.50	0.005	0.40	20.0	85.0	20.0	76.0	12.0
	calcite stockwork, weak local patchy silica, moderate	46308	63.00-64.50	1.50	0.005	0.10	10.0	97.0	5.0	86.0	8.0
	pervasive K-spar, 1 to 3% wispy pyrite.	46309	64.50-66.00	1.50	0.005	0.10	11.0	59.0	15.0	73.0	8.0
<44.20-49.00>	Chlorite Streaming Strong CL SHEETED Moderate CB patches Weak HE patches										
	Weak patchy hematite with calcite; strong chlorite sheeting at irregular orientation.										
<48.20-50.02>	MINERALIZATION- rare pyrite stringers to 3mm. at about 50 degrees.										
<48.20-50.02>	Broken Core Broken fracturing 50°:microveins 50° Weak SI patches										
	Moderate to rubbly broken core with weak bleaching, moderate calcite leaching and moderate limonite fracture fill, weak patchy silica. Fractures common at about 50 degrees. MINERALIZATION- rare pyrite stringers to 3mm. at about 50 degrees.										
<50.02-51.60>	Hematite chlorite calcite vein microveins 45° Moderate SI patches Moderate CL pervasive Strong KS patches Moderate HE microveins										
	Calcite/chlorite/hematite veins to 3mm. with moderate patchy silica and strong patchy K-spar selvages commonly at about 45 degrees, but irregular.										
<55.00-62.00>	MINERALIZATION- patchy pyrite to 5%, average 1%, wispy local hematite, weak to absent limonite fracture fill and tiny gougy slips at about 40 degrees.										
<55.00-62.00>	Chlorite Streaming sheeting 10°:gouge 40° Intense CL SHEETED										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate MS SHEETED Weak HE wispy Weak PY disseminated Strong to intense chlorite streaming causing brecciated appearance. Orientation fragments 0 to 20 degrees, averaging 10 degrees weak to moderate pervasive and sheeted sericite. MINERALIZATION- patchy pyrite to 5%, average 1%. wispy local hematite. Weak to absent limonite fracture fill and tiny gouge slips at about 40 degrees.										
<62.00-67.50>		Weak MT wispy MINERALIZATION- 2% wispy fine grained to medium grained pyrite with less granular patches.	46310	66.00-67.50	1.50	0.035	0.10	14.0	68.0	10.0	78.0	12.0
<62.00-67.50>		Moderate SI selvages Moderate CL pervasive Weak PY wispy Moderate patchy silica surrounding irregular chlorite and pyrite stringers to 1mm. and as selvages. MINERALIZATION- 2% wispy fine grained to medium grained pyrite with less granular patches.										
<68.50-70.75>		Chlorite Streaming	46311	67.50-69.00	1.50	0.045	0.40	28.0	278.0	30.0	121.0	12.0
		sheeting 30°	46312	69.00-70.00	1.00	0.005	0.20	16.0	83.0	5.0	54.0	6.0
		Intense CL SHEETED Strong to intense chlorite streaming leaving fluid brecciated appearance. Convoluted chlorite stringers at about 30 degrees.										
70.75	80.50	Biotite Hbl Fdsp xtalline	46313	70.00-71.00	1.00	0.005	0.10	23.0	54.0	2.5	47.0	6.0
		Fine grained, grayish-red, crystalline	46314	71.00-72.00	1.00	0.005	0.10	48.0	55.0	10.0	72.0	8.0
		microveins 50°	46315	72.00-73.00	1.00	16.630	1.00	570.0	697.0	335.0	105.0	6.0
		Frs=4/m :Vns =15/m	46316	73.00-74.00	1.00	0.310	0.10	380.0	558.0	130.0	116.0	4.0
		Moderate SI microveins	46317	74.00-75.00	1.00	0.970	0.10	116.0	253.0	30.0	102.0	8.0
		Moderate CL pervasive	46318	75.00-76.00	1.00	0.270	0.10	40.0	239.0	2.5	79.0	8.0
		Weak CB stockwork	46319	76.00-77.00	1.00	0.100	0.10	33.0	280.0	2.5	79.0	8.0
		Moderate MS pervasive	46320	77.00-78.00	1.00	0.095	0.10	17.0	378.0	5.0	118.0	22.0
		Weak MT pervasive	46321	78.00-79.00	1.00	1.120	0.10	18.0	185.0	10.0	146.0	8.0
		Strong KS pervasive	46322	79.00-80.00	1.00	0.840	0.10	18.0	102.0	5.0	120.0	18.0
		Intense HE macroveins Weak PY microveins Strong H-zone. Dark gray to red BHFl with 1 to 8% euhedral platy Biotite hexagons to 4mm., 20% to cryptic subhedral dark green to light gray Hornblende needles to 2mm. very fine grained matrix. ALTERATION- strong hematite as massive veins to 20cm. and										

FROM TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	pervasive with lesser microfracture controlled and wispy disseminated, moderate to weak pervasive chlorite, weak calcite stockwork, moderate patchy; strong pervasive K-spar; moderate pervasive sericite.										
<70.75-72.62>	Chlorite Streaming Strong CL SHEETED Moderate HE disseminated Strong chlorite streaming, moderate pervasive disseminated hematite.										
<72.62-72.87>	massive hematite vein 30° 20cm. massive hematite vein; possibly at about 30 degrees.										
<72.87-75.45>	MINERALIZATION- 1% calcopyrite within calcite stockwork, trace of visible gold.										
<72.87-75.45>	Semi-massive hematite Intense HE pervasive Intense pervasive hematite, moderate patchy and veined silica. MINERALIZATION- 1% calcopyrite within calcite stockwork, trace of visible gold.										
<75.45-78.50>	Strong CL pervasive Moderate MS pervasive Moderate HE wispy Moderate pervasive and fracture controlled hematite; strong pervasive chlorite, moderate pervasive sericite.										
<78.50-80.16>	Moderate SI patches Weak MT wispy Strong KS patches Strong HE pervasive Strong patchy silica, K-spar, strong pervasive hematite, weak magnetite.										
<80.16-80.33>	Trace MT vein 3 % arsenopyrite - fine grained MINERALIZATION- 15% pyrite as veins to 1cm. with angular stockwork fragments. 3% fine grained arsenopyrite.										
<80.16-80.33>	MASSIVE SULPHIDE VEIN MINERALIZATION- 15% pyrite as veins to 1cm. with										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		angular stockwork fragments, 3% fine grained arsenopyrites.										
<80.33-80.50>		Intense MT medium grained MINERALIZATION- 5% medium grained pyrite.										
<80.33-80.50>		massive hematite vein 15° Strong MT vein 8cm. massive hematite vein at about 15 degrees, strong magnetite. MINERALIZATION- 5% medium grained pyrite.										
80.50	107.00	Biotite Hbl Fdsp xtalline	46323	80.00-81.00	1.00	3.730	0.40	20.0	44.0	30.0	90.0	10.0
		Fine grained, green, crystalline	46324	81.00-82.00	1.00	0.005	0.10	9.0	32.0	2.5	58.0	8.0
		stockwork 50°	46325	82.00-83.00	1.00	0.005	0.20	15.0	25.0	10.0	62.0	12.0
		Frs=8/m :Vns =20/m	46326	83.00-84.00	1.00	0.075	0.20	23.0	223.0	15.0	107.0	12.0
		Weak SI selvages	46327	84.00-85.00	1.00	0.005	0.10	13.0	38.0	10.0	43.0	6.0
		Strong CB stockwork	46328	85.00-86.00	1.00	0.005	0.10	22.0	24.0	10.0	44.0	6.0
		Moderate MT patches	46329	86.00-87.00	1.00	0.240	0.10	31.0	25.0	20.0	45.0	4.0
		Moderate KS pervasive	46330	87.00-88.00	1.00	0.005	0.10	15.0	47.0	10.0	46.0	6.0
		Weak HE wispy	46331	88.00-89.00	1.00	0.010	0.10	13.0	72.0	2.5	40.0	4.0
		Strong CV microveins	46332	89.00-90.00	1.00	0.020	0.10	9.0	78.0	2.5	46.0	
		Medium green BHFl with 10% cream to light green	46333	90.00-91.00	1.00	0.005	0.10	18.0	54.0	2.5	54.0	
		Biotite phenos to 3mm., 20% to cryptic subhedral	46334	91.00-92.00	1.00	0.025	0.20	18.0	70.0	20.0	59.0	6.0
		Hornblende laths and needles to 3mm. fine grained to	46335	92.00-93.00	1.00	0.090	0.10	41.0	160.0	40.0	104.0	
		aphanitic matrix. ALTERATION- moderate to strong	46336	93.00-94.00	1.00	0.325	1.00	131.0	357.0	140.0	319.0	
		pervasive chlorite with local fluid streaming,	46337	94.00-95.00	1.00	0.605	0.10	88.0	204.0	80.0	264.0	
		moderate to absent wispy disseminated and fracture	46338	95.00-96.00	1.00	0.005	0.10	8.0	42.0	2.5	33.0	2.0
		control with local strong pervasive sections with	46339	96.00-97.00	1.00	0.005	0.10	7.0	25.0	2.5	30.0	
		strong magnetite moderate pervasive K-spar, strong	46340	97.00-98.00	1.00	0.005	0.10	9.0	52.0	2.5	34.0	
		calcite stockwork at about 45 to 60 degrees, average	46341	98.00-99.00	1.00	0.005	0.10	11.0	81.0	5.0	35.0	
		50 degrees. Weak silica as vein selvages.	46342	99.00-100.00	1.00	0.005	0.10	9.0	63.0	2.5	46.0	4.0
<83.60-83.85>		sheeting 50° Strong CL SHEETED Weak MT SHEETED Moderate HE SHEETED Magnetite/hematite/chlorite sheeting at about 50 degrees.										
<83.85-90.60>		Weak HE wispy Weak fracture controlled hematite, wispy at about irregular orientation.										
<90.60-92.30>		Chlorite Streaming Broken Intense CL SHEETED										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong chlorite streaming with local rubbly broken core. No hematite.										
<100.60	-101.08>	MINERALIZATION- trace pyrite.	46343	100.00-101.00	1.00	1.970	1.20	134.0	455.0	135.0	72.0	8.0
<100.60	-101.08>	sheeting 50°										
		Strong CL SHEETED										
		Strong MT SHEETED										
		Strong HE SHEETED										
		Strong magnetite/hematite/chlorite sheeting at about 50 degrees. MINERALIZATION- trace pyrite.										
<102.18	-102.80>	MINERALIZATION- 1% calcopyrite, 2% pyrite, trace visible gold.	46344	101.00-102.00	1.00	0.160	0.40	125.0	229.0	125.0	62.0	12.0
<102.18	-102.80>	sheeting 35°										
		Strong CL SHEETED										
		Strong MT SHEETED										
		Strong HE SHEETED										
		Strong magnetite/hematite/chlorite sheeting at about 35 degrees. MINERALIZATION- 1% calcopyrite, 2% pyrite, trace visible gold.										
<104.70	-106.50>	Chlorite Streaming	46345	102.00-103.00	1.00	1.100	2.00	635.0	469.0	650.0	74.0	14.0
		macroveins 65°	46346	103.00-104.00	1.00	0.005	0.10	251.0	97.0	255.0	69.0	6.0
		Intense CL SHEETED	46347	104.00-105.00	1.00	0.005	0.10	16.0	98.0	20.0	60.0	20.0
		Intense CB macroveins	46348	105.00-106.00	1.00	0.005	0.10	12.0	133.0	2.5	54.0	
		Intense CV macroveins										
		Strong to intense chlorite steaming with iron-carbonate and calcite veins at about 65 degrees to 8cm., average 10. 1 per meter, some limonite fracture fill and iron-carbonate.										
107.00	136.51	Biotite Hbl Fdsp xtalline	46349	106.00-107.00	1.00	0.005	0.10	10.0	69.0	10.0	55.0	
		Fine grained, greenish-gray, crystalline, massive	46350	107.00-108.50	1.50	0.050	0.20	16.0	72.0	15.0	50.0	
		Frs=7/m :Vns =14/m	46351	108.50-110.00	1.50	0.140	0.10	41.0	38.0	30.0	71.0	6.0
		Moderate CL pervasive	46352	110.00-111.50	1.50	0.005	0.20	27.0	75.0	25.0	62.0	
		Moderate CB stockwork	46353	111.50-113.00	1.50	0.005	0.10	15.0	77.0	5.0	76.0	
		Moderate MS pervasive	46354	113.00-114.50	1.50	0.005	0.10	11.0	54.0	2.5	67.0	
		Moderate KS pervasive	46355	114.50-116.00	1.50	0.275	0.10	20.0	29.0	15.0	108.0	
		Trace HE stringer	46356	116.00-117.50	1.50	0.030	0.10	21.0	86.0	20.0	100.0	4.0
		Trace PY stringer	46357	117.50-119.00	1.50	0.175	0.60	49.0	137.0	60.0	212.0	32.0
		Moderate CV microveins	46358	119.00-120.50	1.50	0.005	0.10	15.0	23.0	10.0	51.0	
		Moderate green to gray-green with 5 to 10% euhedral	46359	120.50-122.00	1.50	0.005	0.10	11.0	34.0	10.0	34.0	
		Biotite phenos to 4mm., 20 to 25% light gray to dark	46360	122.00-123.50	1.50	0.005	0.10	14.0	79.0	5.0	49.0	
		green Hornblende needles to 3mm. very fine grained to	46361	123.50-125.00	1.50	0.005	0.10	11.0	79.0	2.5	38.0	
		aphanitic matrix. Moderate to weak pervasive chlorite,	46362	125.00-126.50	1.50	0.005	0.10	13.0	56.0	2.5	48.0	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		increasing towards upper contact--Moderate pervasive	46363	126.50-128.00	1.50	0.005	0.10	11.0	58.0	2.5	38.0	- - - -
		sericite, K-spar. Moderate calcite stockwork.	46364	128.00-129.50	1.50	0.005	0.10	10.0	35.0	5.0	29.0	
		MINERALIZATION- 1% pyrite as coarse grained stringers	46365	129.50-131.00	1.50	0.005	0.10	10.0	27.0	2.5	31.0	
		with hematite to 3mm. and disseminated. Moving from	46366	131.00-132.50	1.50	0.005	0.10	9.0	20.0	2.5	51.0	
		chlorite into sericite alteration zone.	46367	132.50-134.00	1.50	0.005	0.10	9.0	78.0	5.0	64.0	4.0
	<107.00-136.51>	Trace MT coarse grained	46368	134.00-135.50	1.50	0.005	0.10	10.0	79.0	5.0	60.0	
		MINERALIZATION- 1% pyrite as coarse grained stringers	46369	135.50-136.50	1.00	0.015	0.40	7.0	149.0	20.0	69.0	
		with hematite to 3mm. and disseminated. Moving from										
		chlorite into sericite alteration zone.										
136.51	137.60	rubbly fault zone	46370	136.50-137.60	1.10	0.005	0.40	9.0	97.0	10.0	68.0	8.0
		Broken										
		Frs=100/m										
		Strong rubbly angular to rounded broken core with 2%										
		gouge, moderate bleaching and weak limonite fracture										
		fill.										
137.60	157.80	Biotite Hbl Fdsp xtalline	46371	137.60-139.00	1.40	0.028	0.60	10.0	339.0	32.0	135.0	3.0
		Fine grained, green, mottled, crystalline	46372	139.00-140.50	1.50	0.018	0.40	8.0	97.0	26.0	92.0	3.0
		microveins 60°	46373	140.50-142.00	1.50	0.021	0.60	24.0	194.0	38.0	126.0	8.0
		Frs=10/m	46374	142.00-143.50	1.50	0.018	1.10	39.0	337.0	54.0	125.0	23.0
		Strong CL pervasive	46375	143.50-145.00	1.50	0.022	0.70	31.0	198.0	47.0	150.0	19.0
		Moderate MS pervasive	46376	145.00-146.50	1.50	0.017	0.40	24.0	118.0	43.0	131.0	6.0
		Moderate KS pervasive	46377	146.50-148.00	1.50	0.014	0.30	37.0	110.0	70.0	133.0	7.0
		Moderate PY disseminated	46378	148.00-149.50	1.50	0.010	0.60	34.0	163.0	63.0	99.0	8.0
		Moderate CV microveins	46379	149.50-151.00	1.50	0.015	0.30	21.0	142.0	36.0	101.0	3.0
		Medium mottled green to green-gray with absent to 20%	46380	151.00-152.50	1.50	0.007	0.30	28.0	85.0	31.0	109.0	3.0
		subhedral light gray Biotite phenos to 3mm., with	46381	152.50-154.00	1.50	0.009	0.30	41.0	148.0	35.0	118.0	3.0
		strong to moderate pervasive and patchy chlorite fluid,	46382	154.00-155.50	1.50	0.014	0.30	38.0	173.0	49.0	96.0	3.0
		streaming, moderate pervasive K-spar, weak to moderate	46383	155.50-157.00	1.50	0.032	0.30	25.0	112.0	496.0	98.0	3.0
		pervasive calcite, weak calcite as microveins to 3mm,										
		commonly at about 60 degrees. Moderate fine grained to										
		medium grained pyrite mineralization. Looks like										
		different stage and/or alteration phase than previous										
		intervals. Gradational lower contact.										
	<142.05-142.15>	vein 30°										
		1.5cm. pyrite vein at about 30 degrees with calcite.										
	<142.15-145.6[illegible]	MINERALIZATION- 6% fine grained to medium grained										
		wispy disseminated pyrite.										
	<142.15-145.6[illegible]	MINERALIZATION- 6% fine grained to medium grained										
		wispy disseminated pyrite.										
	<148.20-148.57>	Broken Core										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Moderate rubbly broken core; no gouge.										
157.80	164.59	Hornblende Feldspar xtalline	46384	157.00-158.50	1.50	0.009	0.30	26.0	101.0	42.0	108.0	3.0
		Dark green	46385	158.50-160.00	1.50	0.023	0.30	20.0	91.0	27.0	102.0	3.0
		Strong CL pervasive	46386	160.00-161.50	1.50	0.012	0.30	23.0	111.0	37.0	104.0	7.0
		Moderate CB stockwork	46387	161.50-163.00	1.50	0.009	0.30	26.0	186.0	17.0	102.0	3.0
		Moderate MS pervasive	46388	163.00-164.59	1.59	0.006	0.30	27.0	121.0	26.0	117.0	3.0
		Weak PY disseminated										
		Mottled dark green HFxl with no observable Biotite phenos, light gray salt and pepper textured, euhedral Feldspar? phenos to 35% very fine grained to aphanitic matrix. ALTERATION- strong pervasive chlorite, moderate pervasive sericite, weak calcite stockwork. MINERALIZATION- 1% disseminated pyrite. May be more chlorite altered phase of above unit or transition to HFxl.										
<157.80-164.59>		Trace MT disseminated										
		MINERALIZATION- 1% disseminated pyrite. May be more chlorite altered phase of above unit or transition to HFxl.										
(eoh)												

11/29/96

Hole: CL96-24 GEOTECHNICAL DATA

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

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-25

PROJECT: Clone	Date Commenced: 02/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-25	Date Completed: 03/07/96		Geotech by: DBL
LENGTH: 177.51	Core Diam: BQTK		

Collar Location

Latitude:	2029.82
Departure:	1965.49
Elevation:	1397.60

S U M M A R Y

0.00-0.72	CASING
0.72-21.25	volcaniclastics *
21.25-39.60	volcaniclastics ***
39.60-42.03	Broken Core
42.03-51.50	Biotite Hbl Fdsp xtalline
51.50-52.75	Broken Core
52.75-72.34	Hornblende Feldspar xtalline *
72.34-84.00	Biotite Hbl Fdsp xtalline ******
84.00-90.41	Biotite Hbl Fdsp xtalline *
90.41-91.66	semi-massive sulphides *
91.66-130.30	Biotite Hbl Fdsp xtalline **
130.30-148.45	Biotite Hbl Fdsp xtalline ***
148.45-151.85	Broken Core
151.85-177.39	Hornblende Feldspar xtalline ****

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	90.00	-80.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.00	0.72	CASING Casing.										
0.72	21.25	volcaniclastics	46389	0.72-2.00	1.28	0.005	0.10	27.0	80.0	50.0	122.0	4.0
		Fine grained, dark green, mottled	46390	2.00-3.50	1.50	0.005	0.10	35.0	55.0	55.0	128.0	6.0
		foliated 5°	46391	3.50-5.00	1.50	0.225	0.10	25.0	61.0	120.0	105.0	10.0
		Frs=12/m :Vns =10/m	46392	5.00-5.80	0.80	0.020	0.10	33.0	41.0	65.0	102.0	10.0
		Intense CL pervasive	46393	5.80-7.00	1.20	0.005	0.10	32.0	49.0	45.0	89.0	6.0
		Weak CB stockwork	46394	7.00-8.50	1.50	0.005	0.10	29.0	30.0	25.0	88.0	4.0
		Weak HE patches	46395	8.50-10.00	1.50	0.005	0.10	33.0	30.0	30.0	109.0	4.0
		Weak CV macroveins	46396	10.00-11.50	1.50	0.055	0.10	31.0	127.0	25.0	129.0	6.0
		Mottled weakly foliated dark green BHFl? 2 to 5%	46397	11.50-13.00	1.50	0.160	0.10	39.0	302.0	45.0	361.0	12.0
		subhedral light gray Biotite phenos to 3mm. fine	46398	13.00-14.50	1.50	0.005	0.10	21.0	79.0	35.0	81.0	10.0
		grained matrix. Strong to intense chlorite streaming,	46399	14.50-16.00	1.50	0.005	0.10	19.0	40.0	40.0	65.0	10.0
		weak calcite stockwork and veins, commonly with weak	46400	16.00-17.50	1.50	0.005	0.10	37.0	20.0	65.0	70.0	8.0
		calcite. Foliation generally 10 to 0 degrees. May be	46401	17.50-19.00	1.50	0.155	0.10	29.0	21.0	55.0	63.0	12.0
		altered HFxl? Appear to be drilling down-dip of	46402	19.00-21.00	2.00	0.020	0.10	24.0	36.0	25.0	56.0	8.0
		chloritic streaming.										
	<0.72-12.25>	Hematite chlorite calcite vein foliated 5°										
		Weak patchy hematite within calcite patches and stockwork. Foliation at about 5 degrees.										
	<5.00-10.30>	Weak to moderate broken core with weak limonite fracture fill.										
	<19.55-19.78>	Intense MT disseminated MINERALIZATION- 5% fine grained to very fine grained disseminated pyrite; possibly phenocryst replacing.										
	<19.55-19.78>	MINERALIZATION- 5% very fine grained to very fine grained disseminated pyrite; possibly phenocryst replacing.										
21.25	39.60	volcaniclastics	46403	21.00-22.50	1.50	0.010	0.10	35.0	169.0	85.0	92.0	8.0
		Fine grained, green, mottled, massive	46404	22.50-24.00	1.50	0.005	0.10	48.0	41.0	405.0	52.0	8.0
		stockwork 40°	46405	24.00-25.50	1.50	0.025	0.10	29.0	185.0	45.0	47.0	10.0
		Intense CL pervasive	46406	25.50-27.00	1.50	0.005	0.10	32.0	239.0	40.0	45.0	12.0
		Moderate CB stockwork	46407	27.00-28.50	1.50	0.005	0.10	47.0	483.0	35.0	51.0	12.0
		Moderate PY disseminated	46408	28.50-30.00	1.50	0.005	0.20	67.0	646.0	50.0	47.0	16.0
		Medium to dark green massive BHFl? with rare subhedral	46409	30.00-31.50	1.50	0.010	0.10	48.0	537.0	25.0	41.0	
		Biotite phenos, no definite Hornblende phenos, weak	46410	31.50-33.00	1.50	0.010	0.10	43.0	455.0	45.0	43.0	
		salt and pepper texture. Likely altered phase of	46411	33.00-34.50	1.50	0.015	0.10	41.0	460.0	35.0	40.0	
		previous unit very fine grained matrix. ALTERATION-	46412	34.50-36.00	1.50	0.010	0.10	38.0	373.0	30.0	46.0	
		strong to intense, pervasive and sheeted chlorite,	46413	36.00-37.50	1.50	0.050	0.10	37.0	457.0	80.0	42.0	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		moderate patchy calcite stockwork, commonly at about 40 degrees. MINERALIZATION- patchy local good very fine grained to medium grained disseminated subhedral pyrite; some looks like phenocryst or clast replacement.	46414	37.50-39.00	1.50	1.110	0.10	36.0	165.0	70.0	44.0	
		<21.25-39.60> ?? MT disseminated MINERALIZATION- patchy local good very fine grained to medium grained disseminated subhedral pyrite; some look like phenocryst or clast replacement.										
		<26.80-31.05> Trace MT fine grained MINERALIZATION- 15% very fine grained to fine grained pyrite within intense dark green to black chlorite and patchy calcite. Foliated at about 0 degrees to core axis.										
		<26.80-31.05> foliated 0° MINERALIZATION- 15% very fine grained to fine grained pyrite within intense dark green to black chlorite and patchy calcite. Foliated at about 0 degrees to core axis.										
		<32.90-34.00> ?? MT fine grained MINERALIZATION- 8% very fine grained pyrite within black to dark green chlorite, foliated at about 5 degrees.										
		<32.90-34.00> foliated 5° MINERALIZATION- 8% very fine grained pyrite within black to dark green chlorite, foliated at about 5 degrees.										
		<34.00-39.60> Broken Core Moderate broken core.										
		<39.60-42.03> Frs=80/m :Vns =20/m	46415	39.00-40.50	1.50	0.020	0.10	28.0	128.0	35.0	44.0	
		Strong CL pervasive	46416	40.50-42.00	1.50	0.130	0.10	18.0	26.0	15.0	37.0	
		Moderate CB stockwork										
		Moderate CV microveins										
		Strong broken core within D.A.P.- 21.25 to 39.60m. (BHF1) trace gouge, weak bleaching and weak limonite fracture fill.										
42.03	51.50	Biotite Hbl Fdsp xtalline	46417	42.00-43.50	1.50	0.005	0.10	42.0	256.0	45.0	52.0	
		Fine grained, dark green, massive, crystalline	46418	43.50-45.00	1.50	0.005	0.10	43.0	233.0	10.0	52.0	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Frs=15/m :Vns =12/m	46419	45.00-46.50	1.50	0.005	0.10	29.0	201.0	20.0	84.0	
		Strong CL pervasive	46420	46.50-48.00	1.50	0.090	0.10	32.0	167.0	40.0	65.0	
		Moderate CB stockwork	46421	48.00-49.50	1.50	0.005	0.10	47.0	371.0	55.0	68.0	
		Moderate MT disseminated										
		Moderate KS pervasive										
		Weak HE wispy										
		Medium to dark green BHFl with 10% to cryptic milled										
		light green Biotite phenos to 4mm., no distinct										
		observable Hornblendes, local patches of magnetite										
		phenos to 5% likely pseudomorphs to 3mm. ALTERATION-										
		weak wispy pyrite, hematite, strong pervasive										
		chlorite, weak stockwork calcite.										
<48.20-51.50>		Strong MT disseminated										
		Moderate to strong pervasive and disseminated										
		magnetite phenos to 2mm; likely pseudomorphs.										
		Magnetite zoning around H?										
51.50	52.75	Broken Core	46422	49.50-52.00	2.50	0.005	0.10	50.0	284.0	30.0	73.0	
		Broken, gouge										
		gouge 50°										
		Frs=200/m										
		Strong rubbly broken core, gouge at about 50 degrees										
		to 1cm., moderate bleaching and limonite fracture fill										
		within HFxl/HBFl.										
52.75	72.34	Hornblende Feldspar xtalline	46423	52.00-53.50	1.50	0.920	0.80	66.0	555.0	80.0	106.0	
		Fine grained, grayish-green, mottled	46424	53.50-55.00	1.50	8.870	4.40	142.0	1981.0	175.0	151.0	
		Frs=7/m :Vns =2/m	46425	55.00-56.50	1.50	0.005	0.40	51.0	242.0	35.0	96.0	
		Weak SI patches	46426	56.50-58.00	1.50	0.040	1.20	45.0	298.0	30.0	105.0	
		Moderate CL pervasive	46427	58.00-59.50	1.50	0.015	0.40	34.0	245.0	40.0	99.0	
		Trace CB stockwork	46428	59.50-61.00	1.50	0.030	0.10	16.0	145.0	25.0	79.0	
		Weak MS pervasive	46429	61.00-62.50	1.50	0.023	0.60	15.0	117.0	34.0	87.0	3.0
		Strong KS pervasive	46430	62.50-64.00	1.50	0.033	0.60	15.0	129.0	33.0	125.0	8.0
		Trace PY disseminated	46431	64.00-65.50	1.50	0.033	0.50	13.0	75.0	32.0	124.0	3.0
		Medium gray to green HFxl? with 10 to 30% dark green	46432	65.50-67.00	1.50	0.280	0.60	17.0	95.0	54.0	145.0	4.0
		to light gray subhedral Hornblende phenos to 1mm. rare	46433	67.00-68.50	1.50	0.110	0.50	35.0	56.0	290.0	113.0	3.0
		patches of subhedral light gray to cream Biotite	46434	68.50-70.00	1.50	0.135	0.50	100.0	92.0	397.0	107.0	7.0
		phenos to 2% fine grained to aphanitic graduations.	46435	70.00-71.00	1.00	0.017	0.30	12.0	50.0	21.0	78.0	3.0
		ALTERATION- moderate pervasive sericite, weak patchy	46436	71.00-72.00	1.00	0.017	0.90	27.0	233.0	32.0	124.0	10.0
		silica, strong pervasive K-spar, weak pervasive										
		sericite, weak to absent calcite stockwork.										
		MINERALIZATION- trace to 0.5% fine grained										
		disseminated pyrite. Lower contact=increasing										
		bleaching.										
<52.75-72.34>		MINERALIZATION- trace to 0.5% fine grained										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		disseminated pyrite. Lower contact=increasing bleaching.										
		<54.55-54.90> Broken Core Weak HE wispy Rusty calcareous rubbly broken core; trace gouge. Weak wispy hematite. 5% subhedral Biotite phenos.										
		<62.00-69.00> Weak SI patches Moderate patchy silica altered; weak bleaching.										
72.34	84.00	Biotite Hbl Fdsp xtalline	46437	72.00-73.00	1.00	0.073	0.60	67.0	60.0	78.0	231.0	3.0
		Fine grained, redish-green	46438	73.00-74.00	1.00	2.520	0.80	172.0	365.0	185.0	250.0	3.0
		macroveins 60°	46439	74.00-75.00	1.00	0.010	0.30	26.0	44.0	6.0	114.0	3.0
		Frs=8/m :Vns =20/m	46440	75.00-76.00	1.00	0.005	0.30	18.0	61.0	6.0	79.0	3.0
		Strong SI patches	46441	76.00-77.00	1.00	0.006	0.30	22.0	112.0	7.0	78.0	4.0
		Moderate CL pervasive	46442	77.00-78.00	1.00	0.006	0.30	19.0	95.0	15.0	89.0	8.0
		Moderate CB stockwork	46443	78.00-79.00	1.00	0.005	0.30	40.0	259.0	39.0	111.0	4.0
		Moderate MS pervasive	46444	79.00-80.00	1.00	0.015	0.30	71.0	677.0	76.0	114.0	3.0
		Moderate MT pervasive	46445	80.00-81.00	1.00	0.042	0.40	226.0	1060.0	273.0	176.0	3.0
		Strong KS pervasive	46446	81.00-81.74	0.74	0.540	4.50	601.0	2423.0	903.0	218.0	3.0
		Strong HE disseminated	46447	81.74-82.68	0.94	11.520	18.40	173.0	744.0	264.0	178.0	25.0
		Moderate PY patches	46448	82.68-84.00	1.32	1.450	2.70	289.0	1587.0	347.0	305.0	3.0
		H-zone within BHFl with 2% cream to light gray Biotite phenos to 4mm. cream to dark green Hornblende phenos to 30% fine grained groundmass. ALTERATION- moderate to absent patchy pervasive magnetite, weak to intense hematite as pervasive, wispy disseminated ? veins to 70cm., weak to strong pervasive sericite, weak to moderate pervasive chlorite, weak to moderate calcite stockwork, strong pervasive K-spar, intense to moderate patchy silica and in veins with hematite. MINERALIZATION- good calcopyrite and pyrite mineralization locally, with traces of visible gold.										
		<72.34-84.00>MINERALIZATION- good calcopyrite and pyrite mineralization locally, with traces of visible gold.										
		<72.34-73.90> Semi-massive hematite Dark gray Weak SI patches Strong CL pervasive Moderate MT pervasive Strong HE pervasive Dark gray BHFl with strong pervasive hematite, moderate magnetite, weak patchy K-spar. Strong pervasive black chlorite.										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<73.90-79.40>	Trace MT disseminated MINERALIZATION- 1% disseminated pyrite.										
<73.90-79.40>	Chlorite Streaming Moderate CL SHEETED Moderate CB stockwork Strong MS pervasive Strong KS pervasive Moderate HE wispy Moderate wispy disseminated hematite, moderate wispy chlorite, strong pervasive sericite, strong calcite stockwork, weak. MINERALIZATION- 1% disseminated pyrite.										
<79.40-81.40>	Trace MT disseminated .7% chalcopyrite - disseminated MINERALIZATION- 1 to 0.3% disseminated calcopyrite, 1% disseminated pyrite, 2% wispy hematite.										
<79.40-81.40>	MINERALIZATION- 1 to 0.3% disseminated calcopyrite, 1% disseminated pyrite, 2% wispy hematite.										
<81.74-82.10>	MINERALIZATION- 0.5% calcopyrite, 0.5% pyrite, trace visible gold.										
<81.74-82.10>	massive hematite Grayish-red Intense SI vein Intense HE vein Weak SE vein Semi-massive hematite with intense silica alteration; 1 to 3mm. irregular specularite vein. MINERALIZATION- 0.5% calcopyrite, 0.5% pyrite, trace visible gold.										
<82.10-82.68>	MINERALIZATION- 1% calcopyrite, 1% pyrite.										
<82.10-82.68>	vein 60° Massive quartz/hematite/specularite vein at about 60 degrees. MINERALIZATION- 1% calcopyrite, 1% pyrite.										
<82.68-84.00>	Intense MT coarse grained MINERALIZATION- 6% hematite, 0.5% calcopyrite, 5% coarse grained pyrite as wispy disseminated and granular patches.										
<82.68-84.00>	MINERALIZATION- 6% hematite, 0.5% calcopyrite, 5%										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		coarse grained pyrite as wispy disseminated and granular patches.										
84.00	90.41	Biotite Hbl Fdsp xtalline	46449	84.00-85.00	1.00	1.960	1.80	271.0	613.0	315.0	115.0	
		Fine grained, green, crystalline	46450	85.00-86.00	1.00	0.270	0.40	131.0	305.0	200.0	60.0	10.0
		microveins 40°	46451	86.00-87.00	1.00	0.640	0.40	194.0	276.0	740.0	82.0	8.0
		Frs=5/m :Vns =30/m	46452	87.00-88.00	1.00	0.495	0.10	82.0	274.0	145.0	131.0	2.0
		Moderate SI selvages	46453	88.00-89.00	1.00	1.630	0.60	251.0	282.0	730.0	138.0	8.0
		Strong CL SHEETED	46454	89.00-90.00	1.00	0.930	0.40	232.0	309.0	990.0	175.0	6.0
		Strong MS pervasive	46455	90.00-90.41	0.41	1.880	0.60	383.0	504.0	1120.0	300.0	4.0
		Moderate GY stockwork										
		Strong KS pervasive										
		Weak HE wispy										
		Moderate PY patches										
		BHFl with 2% subhedral cream Biotite phenos to 3mm., 20 to 30% cream euhedral to subhedral Hornblende phenos to 3mm., very fine grained to cryptic matrix. ALTERATION- strong pervasive sericite, strong to moderate chlorite streaming, mdeium wispy hematite, moderate silica as vein selvages. MINERALIZATION- 5% patchy coarse grained pyrite, trace calcopyrite usually in calcite stockwork.										
<84.00-90.41>		Intense MT patches MINERALIZATION- 5% patchy coarse grained pyrite, trace calcopyrite usually in calcite stockwork.										
90.41	91.66	semi-massive sulphides	46456	90.41-91.00	0.59	80.320	7.80	1979.0	7879.0	9495.0	100.0	52.0
		foliated 20°	46457	91.00-91.66	0.66	44.420	6.20	1832.0	8047.0	6185.0	102.0	72.0
		H-zone, massive sulphides. MINERALIZATION- intense pervasive magnetite, 10% hematite, 15% wallrock, 75% coarse grained pyrite. No observable calcopyrite or visible gold.										
<90.41-91.66>		?? MT coarse grained MINERALIZATION- intense pervasive magnetite, 10% hematite, 15% wallrock, 75% coarse grained pyrite. No observable calcopyrite or visible gold.										
91.66	130.30	Biotite Hbl Fdsp xtalline	46458	91.66-93.00	1.34	0.075	0.10	63.0	106.0	90.0	61.0	18.0
		Fine grained, grayish-red, crystalline	46459	93.00-94.00	1.00	0.035	0.10	24.0	146.0	40.0	44.0	12.0
		Frs=4/m :Vns =15/m	46460	94.00-95.00	1.00	0.060	0.10	35.0	123.0	80.0	62.0	6.0
		Moderate CL pervasive	46461	95.00-96.00	1.00	1.740	1.40	298.0	860.0	1205.0	111.0	12.0
		Moderate CB stockwork	46462	96.00-97.00	1.00	0.080	0.10	23.0	179.0	115.0	62.0	10.0
		Moderate MS pervasive	46463	97.00-98.00	1.00	0.230	0.40	38.0	156.0	135.0	78.0	20.0
		Weak MT pervasive	46464	98.00-99.00	1.00	0.025	0.10	7.0	27.0	20.0	64.0	12.0
		Moderate KS pervasive	46465	99.00-100.00	1.00	0.005	0.10	8.0	27.0	15.0	54.0	14.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Weak HE wispy	46466	100.00-101.00	1.00	0.010	0.10	12.0	38.0	20.0	59.0	8.0
	Weak PY disseminated	46467	101.00-102.50	1.50	0.005	0.10	10.0	44.0	15.0	53.0	8.0
	Medium green BHFl with trace to 30% subhedral Biotite	46468	102.50-104.00	1.50	0.055	0.10	9.0	36.0	10.0	56.0	6.0
	phenos to 3mm., 20% cream to light gray eu to	46469	104.00-105.50	1.50	0.005	0.30	5.0	28.0	9.0	68.0	6.0
	subhedral Hornblende phenos to 3mm., very fine grained	46470	105.50-107.00	1.50	0.015	0.30	6.0	56.0	7.0	67.0	3.0
	to aphanitic groundmass. ALTERATION- moderate	46471	107.00-108.50	1.50	0.004	0.30	5.0	27.0	2.0	67.0	3.0
	pervasive chlorite, sericite, K-spar, moderate	46472	108.50-110.00	1.50	0.047	0.30	8.0	64.0	4.0	70.0	5.0
	stockwork calcite, moderate to absent local wispy	46473	110.00-111.50	1.50	0.008	0.30	4.0	34.0	2.0	72.0	7.0
	hematite, weak local patchy pervasive magnetite.	46474	111.50-113.00	1.50	0.520	0.50	26.0	83.0	80.0	71.0	12.0
	MINERALIZATION- 2% patchy pyrite.	46475	113.00-114.50	1.50	0.022	0.30	12.0	53.0	23.0	82.0	10.0
<94.98-96.70>	?? MT patches										
	MINERALIZATION- 8% coarse grained pyrite patches with										
	less medium grained to fine grained wispy										
	disseminated.										
<94.98-96.70>	foliated 60°										
	Strong pervasive magnetite, strong pervasive black										
	chlorite, moderate wispy hematite. MINERALIZATION- 8%										
	coarse grained pyrite patches with less medium grained										
	to fine grained wispy disseminated.										
<97.75-97.93>	calcite vein										
	vein										
	Calcite/iron-carbonate/chlorite vein at about 60										
	degrees, ribboned and moderate limonite fracture fill										
	and pervasive (iron-carbonate induced).										
<111.40-115.75>	Chlorite Streaming										
	Broken										
	Strong CL SHEETED										
	Moderate chlorite streaming causing brecciated										
	appearance; weak local broken core with weak bleaching										
	and weak limonite fracture fill.										
<118.60-118.70>	Trace MT coarse grained	46476	114.50-116.00	1.50	0.260	0.50	38.0	108.0	86.0	249.0	45.0
	MINERALIZATION- 15% coarse grained milled pyrite in	46477	116.00-117.50	1.50	0.150	1.50	33.0	388.0	95.0	218.0	56.0
	irregular patch.										
<118.60-118.70>	MINERALIZATION- 15% coarse grained milled pyrite in										
	irregular patch.										
<125.75-126.00>	Hematite chlorite calcite vein	46478	117.50-119.00	1.50	0.052	0.90	10.0	303.0	36.0	135.0	17.0
	microveins 35°	46479	119.00-120.50	1.50	0.041	0.60	9.0	198.0	122.0	69.0	6.0
	3mm. calcite/hematite/chlorite veins +/- pyrite at	46480	120.50-122.00	1.50	0.060	0.90	11.0	224.0	283.0	72.0	9.0
	about 35 degrees; 1cm. chlorite selvage same chlorite	46481	122.00-123.50	1.50	0.017	0.50	8.0	108.0	23.0	84.0	26.0
	fluid streaming.	46482	123.50-125.00	1.50	0.023	1.20	5.0	99.0	43.0	1436.0	493.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<128.00-130.00>		Chlorite Streaming	46483	125.00-126.50	1.50	0.038	0.70	20.0	122.0	111.0	399.0	148.0
		sheeting 25°	46484	126.50-128.00	1.50	0.036	0.30	10.0	195.0	44.0	66.0	25.0
		Moderate SI pervasive	46485	128.00-129.50	1.50	0.039	0.30	12.0	129.0	192.0	94.0	16.0
		Moderate CL SHEETED										
		Moderate chlorite fluid streaming irregular at about 25 degrees. Increasing pervasive silica towards lower contact.										
130.30	148.45	Biotite Hbl Fdsp xtalline	46486	129.50-131.00	1.50	0.021	0.30	5.0	56.0	31.0	65.0	3.0
		Fine grained, redish-gray, crystalline, massive	46487	131.00-132.50	1.50	0.020	0.30	8.0	89.0	31.0	64.0	9.0
		microveins 65°	46488	132.50-134.00	1.50	0.084	4.90	21.0	4612.0	72.0	2889.0	404.0
		Frs=7/m :Vns =12/m	46489	134.00-135.50	1.50	0.013	0.30	14.0	154.0	32.0	71.0	3.0
		Moderate SI pervasive	46490	135.50-137.00	1.50	0.045	0.50	15.0	171.0	60.0	79.0	8.0
		Weak CL pervasive	46491	137.00-138.50	1.50	0.010	0.30	20.0	200.0	31.0	55.0	3.0
		Moderate CB microveins	46492	138.50-140.00	1.50	0.016	0.40	22.0	194.0	30.0	328.0	67.0
		Moderate KS pervasive	46493	140.00-141.50	1.50	0.012	0.30	30.0	178.0	365.0	75.0	3.0
		Weak PY disseminated	46494	141.50-143.00	1.50	0.008	0.40	23.0	189.0	48.0	69.0	3.0
		Moderate QV microveins	46495	143.00-144.50	1.50	0.019	0.40	23.0	161.0	33.0	86.0	5.0
		Medium green-gray to dark gray BHFl with 3% to trace	46496	144.50-146.00	1.50	0.016	0.40	19.0	125.0	40.0	113.0	4.0
		eu to subhedral Biotite? phenos to 3mm., decreasing	46497	146.00-148.00	2.00	0.025	0.60	35.0	169.0	26.0	173.0	6.0
		towards lower contact, cream to light gray locally										
		milled eu to subhedral Hornblende needles and laths to 2mm., very fine grained to aphanitic matrix.										
		ALTERATION- weak to moderate pervasive and sheeted chlorite, strong pervasive sericite, moderate pervasive silica and microveins, commonly at about 65 degrees with calcite. Weak stockwork and fracture fill calcite.										
<132.50-134.00>		MINERALIZATION- 3% calcopyrite, 5% pyrite. Calcopyrite as semi-massive in quartz/calcite veins to 1 to 5cm. irregular at about 0 degrees with less disseminated with pyrite, fine grained pyrite veins to 2cm. at about 60 degrees with less disseminated.										
<132.50-134.00>		pyrite vein or veinlet										
		MINERALIZATION- 3% calcopyrite, 5% pyrite. Calcopyrite as semi-massive in quartz/calcite veins to 1 to 5cm. irregular at 0 degrees with less disseminated with pyrite,										
		fine grained pyrite veins to 2cm. at about 60 degrees with less disseminated.										
<134.00-143.30>		Intense MT stringer										
		MINERALIZATION- 5% pyrite as stringers, wispy disseminated, fine grained disseminated and fracture										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		fill.										
		<134.00-143.30> MINERALIZATION- 5% pyrite as stringers, wispy disseminated, fine grained disseminated and fracture fill.										
		<143.30-148.45> Moderate MT disseminated MINERALIZATION- 3% fine grained disseminated pyrite.										
		<143.30-148.45> MINERALIZATION- 3% fine grained disseminated pyrite.										
148.45	151.85	Broken Core	46498	148.00-149.50	1.50	0.013	0.50	27.0	149.0	11.0	205.0	3.0
		Gouge	46499	149.50-151.00	1.50	0.010	0.30	24.0	133.0	21.0	119.0	3.0
		gouge 5°										
		Frs=30/m										
		Weak SI pervasive										
		Weak CL pervasive										
		Strong MS pervasive										
		Moderate KS pervasive										
		Weak QV patches										
		Moderate broken core within medium green-gray HFxl/BHFl transition? Strong pervasive sericite, weak to moderate pervasive chlorite, weak patchy silica. Gougy slips +/- pyrite slickenslide at about 10 to 0 degrees to core axis.										
151.85	177.39	Hornblende Feldspar xtalline	46500	151.00-152.50	1.50	0.008	0.30	28.0	113.0	34.0	82.0	3.0
		Fine grained, auto brecciated, foliated	46501	152.50-154.00	1.50	0.005	0.30	33.0	110.0	37.0	246.0	3.0
		foliated 25°	46502	154.00-155.50	1.50	0.005	0.30	27.0	91.0	58.0	162.0	9.0
		Frs=5/m :Vns =8/m	46503	155.50-157.00	1.50	0.031	0.30	26.0	79.0	64.0	136.0	3.0
		Weak CL SHEETED	46504	157.00-158.50	1.50	0.002	0.30	22.0	114.0	71.0	130.0	10.0
		Intense MS SHEETED	46505	158.50-160.00	1.50	0.010	0.30	27.0	82.0	57.0	81.0	20.0
		Moderate KS pervasive	46506	160.00-161.50	1.50	0.039	0.50	20.0	111.0	58.0	230.0	78.0
		Moderate PY disseminated	46507	161.50-163.00	1.50	0.015	0.30	13.0	103.0	54.0	99.0	18.0
		Weak QV microveins	46508	163.00-164.50	1.50	0.029	0.30	22.0	192.0	56.0	120.0	24.0
		Moderate CV macroveins	46509	164.50-166.00	1.50	0.026	0.30	15.0	61.0	108.0	82.0	18.0
		Light gray to olive-tan gray HFxl with 25 to 30%	46510	166.00-167.50	1.50	0.016	0.30	15.0	89.0	105.0	63.0	11.0
		glassy translucent light green sub to anhedral	46511	167.50-169.00	1.50	0.026	0.30	11.0	84.0	72.0	107.0	18.0
		Hornblende phenos to 2mm., very fine grained to	46512	169.00-170.50	1.50	0.010	0.30	16.0	111.0	225.0	49.0	22.0
		aphanitic matrix. Autobrecciated and sericitically	46513	170.50-172.00	1.50	0.008	0.30	14.0	91.0	93.0	29.0	6.0
		foliated. ALTERATION- strong pervasive and sheeted ser	46514	172.00-173.50	1.50	0.008	0.30	12.0	68.0	72.0	39.0	6.0
		causing autobrecciated appearance; moderate dark gray	46515	173.50-175.00	1.50	0.015	0.30	19.0	85.0	106.0	46.0	7.0
		chlorite?, also as fluid streaming moderate calcite in	46516	175.00-176.00	1.00	0.013	0.30	15.0	110.0	121.0	41.0	5.0
		1 to 2cm. veins, locally to 8cm, commonly 50 to 60	46517	176.00-177.00	1.00	0.005	0.30	16.0	92.0	85.0	40.0	7.0
		degrees.	46518	177.00-177.39	0.39	0.010	0.30	19.0	97.0	147.0	43.0	13.0
		<154.50-155.00> Broken Core										

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Frs=60/m :Vns =15/m Moderate broken core with weak 2mm. gougy slips commonly at about 20 degrees.										
<160.70-164.00>	Trace MT disseminated MINERALIZATION- 12% coarse grained to fine grained pyrite in granular patches and wispy disseminated.										
<160.70-164.00>	MINERALIZATION- 12% coarse grained to fine grained pyrite in granular patches and wispy disseminated.										
<164.20-164.80>	sheeting 25° Intense MS SHEETED Moderate PY SHEETED Intense chlorite/pyrite sheeting at about 25 degrees.										
<164.80-165.88>	MINERALIZATION- 8% pyrite.										
<164.80-165.88>	sheeting 0° Intense MS SHEETED ALTERATION- intense chlorite sheeting at about 0 degrees. MINERALIZATION- 8% pyrite.										
<165.88-166.00>	calcite vein vein 50° Calcite vein with some quartz at anout 50 degrees.										
<166.00-170.00>	Trace MT fine grained MINERALIZATION- 10% fine grained to medium grained pyrite; sericite sheeting at about 30 degrees.										
<166.00-170.00>	sheeting 30° Intense MS SHEETED MINERALIZATION- 10% fine grained to medium grained pyrite; sericite sheeting at about 30 degrees.										
<170.00-177.39>	?? MT fine grained MINERALIZATION- 8% fine grained pyrite as granular patches with less dissemination.										
<170.00-177.39>	MINERALIZATION- 8% fine grained pyrite as granular patches with less dissemination.										
(eoh)											

Hole: CL96-25 GEOTECHNICAL DATA

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

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-26

PROJECT: Clone	Date Commenced: 03/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-26	Date Completed: 04/07/96		Geotech by: DBL
LENGTH: 94.55	Core Diam: BQTK		

Collar Location

Latitude:	2105.90
Departure:	2015.64
Elevation:	1411.91

S U M M A R Y

0.00-0.16	CASING
0.16-18.00	Biotite Hbl Fdsp xtalline
18.00-33.00	Hornblende Feldspar xtalline
33.00-33.90	Broken Core
33.90-45.20	Hornblende Feldspar xtalline *
45.20-46.60	Broken Core
46.60-65.00	Hornblende Feldspar xtalline *
65.00-67.00	Broken Core
67.00-91.14	Biotite Hbl Fdsp xtalline *
91.14-94.49	mudstone

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	270.00	-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	0.16	CASING										
		Casing.										
0.16	18.00	Biotite Hbl Fdsp xtalline	46519	0.16-1.00	0.84	0.001	0.30	5.0	47.0	10.0	108.0	6.0
		Fine grained, redish-green, mottled	46520	1.00-2.00	1.00	0.003	0.30	8.0	45.0	11.0	95.0	4.0
		sheeting 60°	46521	2.00-3.00	1.00	0.001	0.30	5.0	29.0	7.0	95.0	7.0
		Frs=8/m :Vns =100/m	46522	3.00-4.00	1.00	0.008	0.30	4.0	12.0	8.0	61.0	7.0
		Weak SI patches	46523	4.00-5.00	1.00	0.003	0.30	4.0	15.0	11.0	77.0	5.0
		Moderate CL pervasive	46524	5.00-6.00	1.00	0.005	0.30	6.0	18.0	12.0	59.0	3.0
		Moderate MS patches	46525	6.00-7.00	1.00	0.070	0.30	17.0	22.0	13.0	58.0	5.0
		Moderate KS pervasive	46526	7.00-8.00	1.00	0.012	0.30	6.0	286.0	14.0	43.0	7.0
		Strong HE patches	46527	8.00-9.00	1.00	0.010	0.50	6.0	607.0	14.0	60.0	5.0
		Weak CV stockwork	46528	9.00-10.00	1.00	0.011	0.30	7.0	31.0	7.0	55.0	3.0
		Reddish green BHFl with 1 to 2% euhedral platy Biotite	46529	10.00-11.00	1.00	0.039	0.30	8.0	52.0	13.0	45.0	5.0
		phenos to 3mm., decreasing towards lower contact. 20%	46530	11.00-12.00	1.00	0.017	0.30	6.0	20.0	9.0	69.0	7.0
		dark green to light green translucent subhedral	46531	12.00-13.00	1.00	0.007	0.30	4.0	21.0	7.0	49.0	3.0
		Hornblende phenos to 2mm., fine grained to aphanitic	46532	13.00-14.00	1.00	0.025	0.30	6.0	25.0	9.0	40.0	3.0
		matrix. ALTERATION- strong patchy pervasive with less	46533	14.00-15.00	1.00	0.013	0.30	11.0	62.0	4.0	59.0	3.0
		sheeting generally at about 50 to 70 degrees, and	46534	15.00-16.00	1.00	0.080	0.30	29.0	53.0	12.0	66.0	6.0
		microfracture controlled, moderate to strong pervasive	46535	16.00-17.00	1.00	0.070	1.80	42.0	2516.0	8.0	52.0	4.0
		chlorite with less fluid streaming. Weak to moderate	46536	17.00-18.00	1.00	0.034	0.50	14.0	859.0	11.0	44.0	4.0
		irregular calcite stockwork, weak local patchy silica,										
		moderate to weak patchy sericite.										
<0.20-1.80>		Broken Core										
		Moderate rubbly broken core; no fault gouge.										
<1.20-2.40>		Chlorite Streaming										
		sheeting 45°										
		Moderate CL SHEETED										
		Strong HE pervasive										
		Strong pervasive hematite, moderate black chlorite										
		fluid streaming at about 45 degrees.										
<10.25-10.90>		foliated 70°										
		Moderate SI patches										
		Moderate HE wispy										
		Moderate microfracture controlled hematite, moderate										
		patchy silica. Weak foliation at about 70 degrees.										
<13.40-13.85>		foliated 50°										
		Moderate SI patches										
		Strong HE pervasive										
		Strong pervasive hematite, moderate patchy silica.										
		Weak foliation at about 50 degrees.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<15.00-15.95>		Weak SI patches Strong HE SHEETED Strong hematitic streaming, causing autobrecciated appearance, irregular orientation, weak patchy silica.										
18.00	33.00	Hornblende Feldspar xtalline Fine grained, redish-green microveins 40° Frs=8/m :Vns =100/m Trace SI patches Moderate CL pervasive Weak MS pervasive Moderate KS pervasive Trace EP microveins Moderate CV stockwork Patchy reddish green HFxl with 20% commonly cryptic dark green Hornblende phenos to 1.5mm. Rare euhedral platy Biotite phenos to 3mm. Not enough to warrant BHFl. ALTERATION- moderate patchy, wispy microfracture controlled hematite stockwork, causing autobrecciated appearance, moderate to weak pervasive sericite, weak to absent patchy silica. Weak to moderate calcite +/- quartz +/- epidote stockwork, commonly at about 40 degrees.	46537	18.00-19.00	1.00	0.018	0.30	11.0	80.0	5.0	42.0	5.0
			46538	19.00-20.00	1.00	0.019	0.30	6.0	74.0	5.0	34.0	3.0
			46539	20.00-21.00	1.00	0.024	0.30	8.0	72.0	3.0	32.0	3.0
			46540	21.00-22.00	1.00	0.014	0.30	6.0	57.0	6.0	33.0	3.0
			46541	22.00-23.00	1.00	0.012	0.30	5.0	145.0	2.0	31.0	6.0
			46542	23.00-24.00	1.00	0.019	0.30	5.0	62.0	2.0	36.0	3.0
			46543	24.00-25.00	1.00	0.019	0.30	5.0	107.0	2.0	42.0	3.0
			46544	25.00-26.00	1.00	0.020	0.30	5.0	41.0	6.0	39.0	4.0
			46545	26.00-27.00	1.00	0.009	0.30	6.0	83.0	2.0	38.0	5.0
			46546	27.00-28.00	1.00	0.010	0.30	6.0	49.0	3.0	37.0	3.0
			46547	28.00-29.00	1.00	0.014	0.30	7.0	115.0	3.0	37.0	3.0
			46548	29.00-30.00	1.00	0.012	0.30	7.0	87.0	2.0	44.0	3.0
			46549	30.00-31.00	1.00	0.014	0.30	9.0	59.0	3.0	54.0	3.0
			46550	31.00-32.00	1.00	0.020	0.30	10.0	124.0	5.0	86.0	52.0
			46551	32.00-33.00	1.00	0.011	0.30	8.0	108.0	2.0	132.0	18.0
<19.50-26.00>		calcite vein microveins 40° Weak SI microveins Weak EP microveins Moderate CV microveins Calcite veins +/- chlorite +/- epidote +/- quartz to 2cm., commonly 8mm., 4 per meter at about 40 degrees.										
<27.50-28.22>		gouge gouge 40° Weak gougy slips at about 40 degrees.										
<28.70-33.00>		Chlorite Streaming Strong CL SHEETED Strong to moderate irregular chlorite fluid streaming.										
<31.70-33.00>		Broken Core Strong angular broken core.										
<33.00-33.90>		gouge 5°:gouge 30° Intense CL SHEETED Moderate HE wispy										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong angular broken core, gouge and fracture patterns at about 5 and 30 degrees within HFxl, intense chlorite streaming and moderate wispy hematite.										
33.90	45.20	Hornblende Feldspar xtalline	46552	33.00-34.00	1.00	0.016	0.30	7.0	89.0	2.0	247.0	5.0
		Fine grained, redish-green, crystalline	46553	34.00-35.00	1.00	0.023	0.30	7.0	101.0	2.0	182.0	3.0
		Frs=10/m :Vns =100/m	46554	35.00-36.00	1.00	0.022	0.30	9.0	110.0	2.0	62.0	10.0
		Weak SI patches	46555	36.00-37.00	1.00	0.056	0.30	14.0	144.0	2.0	47.0	5.0
		Strong CL pervasive	46556	37.00-38.00	1.00	0.035	0.30	11.0	94.0	5.0	50.0	4.0
		Weak MS pervasive	46557	38.00-39.00	1.00	0.028	0.30	8.0	149.0	5.0	63.0	12.0
		Strong KS pervasive	46558	39.00-40.00	1.00	0.024	0.30	11.0	333.0	26.0	133.0	11.0
		Strong HE SHEETED	46559	40.00-40.38	0.38	0.018	0.40	12.0	1360.0	24.0	95.0	12.0
		Weak CV stockwork	46560	40.38-41.00	0.62	0.140	0.40	14.0	1471.0	25.0	218.0	7.0
		H-zone halo? patchy reddish green HFxl with 25%	46561	41.00-42.00	1.00	0.295	0.30	94.0	111.0	71.0	676.0	9.0
		commonly cryptic subhedral Hornblende needles to 3mm.	46562	42.00-43.00	1.00	0.140	0.30	26.0	93.0	50.0	408.0	16.0
		very fine grained to fine grained matrix. ALTERATION-	46563	43.00-44.00	1.00	0.120	0.40	23.0	572.0	46.0	377.0	16.0
		strong pervasive and sheeted hematite, strong	46564	44.00-45.20	1.20	0.039	0.30	17.0	177.0	25.0	530.0	11.0
		pervasive chlorite, local chloritic streaming, weak pervasive sericite, weak calcite +/- quartz stockwork.										
	<33.91-35.10>	Chlorite Streaming										
		Strong chlorite sheeting causing autobrecciated appearance.										
	<36.15-37.80>	Moderate SI patches										
		Intense HE pervasive										
		Intense pervasive hematite, moderate patchy silica.										
	<38.90-40.38>	Hornblende Feldspar xtalline										
		Redish-green, auto brecciated										
		macroveins 60°										
		Strong SI patches										
		Strong CL pervasive										
		Weak MT macroveins										
		Strong KS pervasive										
		Moderate HE macroveins										
		Weak CV microveins										
		H-zone. dark gray-green to reddish gray-green HFxl,										
		rare Hornblende phenos to 3mm. Local Biotite? phenos,										
		platy light gray to 3mm. ALTERATION- strong silica										
		altering autobrecciated angular fragments to 1cm., 60%										
		locally strong pervasive chlorite, moderate wispy										
		hematite and veins to 3cm. with magnetite, trace										
		malachite fracture fill.										
	<40.38-40.80>	2 % chalcopyrite - disseminated										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		MINERALIZATION- 2% disseminated calcopyrite, 1% pyrite.										
	<40.38-40.80>	MINERALIZATION- 2% disseminated calcopyrite, 1% pyrite.										
	<40.91-40.96>	massive hematite 3cm. massive hematite vein with magnetite at about 60 degrees.										
	<44.25-44.35>	sheeting 60° Moderate MT SHEETED Moderate HE SHEETED Hematite/magnetite foliation/sheeting at about 60 degrees.										
45.20	46.60	Broken Core foliated 60° Intense CL SHEETED Rusty rubbly broken core, with chloritic foliation at about 60 degrees, strong limonite fracture fill.										
46.60	65.00	Hornblende Feldspar xtalline Green, crystalline, mottled Trace SI patches Strong CL pervasive Weak MS pervasive Strong KS pervasive Weak HE wispy Moderate CV microveins Medium to dark green streaked reddish green HFxl with 25% light green to light gray Hornblende needles, fine grained matrix. ALTERATION- strong pervasive and sheeted chlorite, weak wispy stockwork hematite, locally strong and sheeted with patchy silica.	46565	45.20-46.65	1.45	0.033	0.50	28.0	396.0	65.0	464.0	9.0
			46566	46.65-48.00	1.35	0.018	0.30	24.0	252.0	10.0	129.0	6.0
			46567	48.00-49.00	1.00	0.022	0.30	28.0	310.0	27.0	59.0	12.0
			46569	49.00-50.00	1.00	0.010	0.30	19.0	101.0	3.0	62.0	3.0
			46570	50.00-51.00	1.00	0.035	0.30	23.0	111.0	9.0	76.0	5.0
			46571	51.00-52.00	1.00	0.006	0.30	16.0	95.0	2.0	56.0	3.0
			46572	52.00-53.00	1.00	0.037	0.30	31.0	178.0	12.0	79.0	3.0
			46573	53.00-54.00	1.00	0.011	0.30	30.0	157.0	4.0	72.0	3.0
			46574	54.00-55.00	1.00	0.016	0.30	25.0	168.0	12.0	91.0	4.0
			46575	55.00-56.22	1.22	0.260	0.30	243.0	185.0	230.0	275.0	7.0
			46576	56.22-57.00	0.78	5.090	2.70	409.0	3093.0	391.0	453.0	3.0
			46577	57.00-58.00	1.00	0.017	2.10	91.0	3976.0	40.0	157.0	3.0
			46578	58.00-59.00	1.00	0.017	0.30	56.0	560.0	33.0	100.0	5.0
	<56.22-56.70>	Semi-massive hematite sheeting 60° Moderate SI patches Intense HE pervasive Semi-massive hematite sheeted at about 60 degrees, with moderate patchy silica.										
	<56.70-58.10>	1 % chalcopyrite - disseminated MINERALIZATION- 1 to 2% disseminated calcopyrite, moderate sheeted hematite at about 60 degrees.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<56.70-58.10>		MINERALIZATION- 1-2% disseminated calcopyrite, moderate sheeted hematite at about 60 degrees.										
<62.00-64.00>		Broken Core foliated 30°	46579	59.00-60.00	1.00	0.017	0.30	27.0	214.0	16.0	88.0	4.0
			46580	60.00-61.00	1.00	0.013	0.30	20.0	129.0	26.0	73.0	3.0
		Moderate broken core, weak limonite fracture fill,	46581	61.00-62.00	1.00	0.016	0.30	24.0	141.0	41.0	72.0	4.0
		hematic/chloritic foliation at about 30 degrees.	46582	62.00-63.00	1.00	0.068	0.30	24.0	132.0	17.0	92.0	6.0
<65.00-67.00>		Moderate to strong broken core within HFxl, light	46583	63.00-64.00	1.00	0.215	0.30	28.0	162.0	64.0	94.0	9.0
		green moderate to strongly bleached, 1% gouge. No	46584	64.00-65.00	1.00	0.072	0.30	20.0	61.0	31.0	68.0	10.0
		observable fracture orientation, weak limonite	46585	65.00-66.00	1.00	0.019	0.30	16.0	53.0	25.0	86.0	7.0
		fracture fill.	46586	66.00-67.00	1.00	0.017	0.30	11.0	32.0	20.0	85.0	14.0
67.00	91.14	Biotite Hbl Fdsp xtalline	46587	67.00-68.50	1.50	0.031	0.30	21.0	104.0	64.0	58.0	8.0
		Medium grained, gray, porphyritic	46588	68.50-70.00	1.50	0.066	0.30	19.0	56.0	29.0	75.0	12.0
		microveins 80°	46589	70.00-71.50	1.50	0.013	0.30	8.0	30.0	28.0	76.0	5.0
		Frs=6/m :Vns =7/m	46590	71.50-73.00	1.50	0.044	0.30	17.0	61.0	80.0	81.0	18.0
		Moderate SI pervasive	46591	73.00-74.50	1.50	0.041	0.30	14.0	61.0	128.0	89.0	20.0
		Weak CL pervasive	46592	74.50-76.00	1.50	0.180	0.30	33.0	53.0	181.0	125.0	28.0
		Strong MS pervasive	46593	76.00-77.50	1.50	0.018	0.30	10.0	18.0	22.0	91.0	13.0
		Moderate KS pervasive	46594	77.50-79.00	1.50	0.002	0.30	5.0	4.0	6.0	72.0	12.0
		Trace PY disseminated	46595	79.00-80.50	1.50	0.005	0.30	4.0	98.0	28.0	77.0	7.0
		Weak QV microveins	46596	80.50-82.00	1.50	0.028	0.30	3.0	7.0	11.0	105.0	7.0
		Moderate CV microveins	46597	82.00-83.50	1.50	0.036	0.30	22.0	22.0	236.0	94.0	11.0
		Medium gray to green-gray BHFl with 10 to 15% cream	46598	83.50-85.00	1.50	0.045	0.30	17.0	48.0	96.0	118.0	17.0
		euhedral Biotite phenos to 5 degrees, 20% cream to	46599	85.00-86.50	1.50	0.130	0.30	19.0	17.0	151.0	88.0	9.0
		light gray, eu to subhedral Hornblende laths and	46601	86.50-88.00	1.50	0.140	0.30	14.0	30.0	79.0	116.0	3.0
		needles to 3mm. Trace to 10% cloudy anhedral Fxl	46602	88.00-89.50	1.50	0.050	0.30	11.0	17.0	30.0	95.0	17.0
		ghosts. ALTERATION- strong pervasive sericite, weak	46603	89.50-91.14	1.64	0.640	0.40	22.0	106.0	1070.0	101.0	11.0
		dark gray pervasive and wispy chlorite, moderate										
		patchy silica and quartz veins with calcite, commonly										
		60 degrees to 1cm. Lower contact=sharp at about 45										
		degrees.										
<88.00-91.14>		Trace MT fine grained										
		MINERALIZATION- 1% very fine grained pyrite.										
<88.00-91.14>		sheeting 60°										
		Strong SI pervasive										
		Intense MS SHEETED										
		Strong pervasive silica with sericite streaming at										
		about 60 degrees, increasing towards lower contact.										
		MINERALIZATION- 1% very fine grained pyrite.										
91.14	94.49	mudstone	46604	91.14-92.50	1.36	0.064	0.30	26.0	111.0	899.0	99.0	36.0
		Aphanitic, dark black, bedded	46605	92.50-93.00	0.50	0.005	0.30	26.0	122.0	516.0	100.0	13.0
		dark 40°:bedding 40°	46606	93.00-94.49	1.49	0.012	0.30	27.0	133.0	60.0	93.0	4.0

FROM	TO	D E S C R I P T I O N	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Frs=8/m :Vns =10/m Moderate CB pervasive Strong MS patches Black to dark gray laminated mudstone cross-cut by light green sericitized HFxl dykes, with 20% translucent medium green sericite altered Hornblende phenos, subhedral to 2mm. ALTERATION- moderate patchy sericite, moderate calcite laminations at about 40 degrees. STRUCTURE- contorted bedding at about 40 degrees.										
	(eoh)											

11/29/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-27

PROJECT: Clone	Date Commenced: 04/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-27	Date Completed: 04/07/96		Geotech by: DBL
LENGTH: 116.81	Core Diam: BQTK		

Collar Location

Latitude:	2105.89
Departure:	2016.05
Elevation:	1412.05

S U M M A R Y

0.84-41.43	Biotite Hbl Fdsp xtalline
41.43-48.70	Hornblende Feldspar xtalline *
48.70-50.30	gouge
50.30-59.20	Hornblende Feldspar xtalline **
59.20-63.76	Broken Core
63.76-72.32	Hornblende Feldspar xtalline *
72.32-73.30	massive hematite *
73.30-85.50	Hornblende Feldspar xtalline *
85.50-101.90	Biotite Hbl Fdsp xtalline *
101.90-104.00	mudstone
104.00-113.00	Biotite Hbl Fdsp xtalline *
113.00-116.00	Broken Core
116.00-116.74	volcaniclastics

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	270.00	-55.00	

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
0.84	10.90	Biotite Hbl Fdsp xtalline	46607	0.84-2.00	1.16	0.001	0.30	4.0	17.0	11.0	65.0	5.0
		Greenish-red, crystalline	46608	2.00-3.00	1.00	0.001	0.30	2.0	163.0	6.0	59.0	5.0
		stockwork 70°	46609	3.00-4.00	1.00	0.001	0.30	5.0	29.0	8.0	99.0	7.0
		Frs=7/m :Vns =15/m	46610	4.00-5.00	1.00	0.001	0.30	4.0	14.0	6.0	76.0	5.0
		Trace SI patches	46611	5.00-6.00	1.00	0.001	0.30	3.0	12.0	7.0	48.0	3.0
		Moderate CL pervasive	46612	6.00-7.00	1.00	0.018	0.30	5.0	14.0	9.0	49.0	3.0
		Moderate MS pervasive	46613	7.00-8.00	1.00	0.013	0.30	6.0	22.0	7.0	41.0	4.0
		Moderate KS pervasive	46614	8.00-9.00	1.00	0.021	0.30	7.0	77.0	4.0	36.0	3.0
		Trace EP microveins	46615	9.00-10.00	1.00	0.016	0.30	7.0	74.0	6.0	41.0	3.0
		Strong HE pervasive	46616	10.00-11.00	1.00	0.003	0.30	7.0	50.0	6.0	60.0	3.0
		Weak CV stockwork	46617	11.00-12.00	1.00	0.007	0.30	7.0	15.0	5.0	45.0	3.0
		Greenish red to gra red BHFl with 3 to 12% euhedral	46618	12.00-13.00	1.00	0.021	0.30	7.0	206.0	7.0	48.0	3.0
		platy Biotite phenos to 5mm., 20% commonly cryptic	46619	13.00-14.00	1.00	0.012	0.30	5.0	20.0	6.0	49.0	3.0
		subhedral, light to dark green Hornblende needles to	46620	14.00-15.00	1.00	0.013	0.30	5.0	219.0	10.0	54.0	5.0
		2mm., very fine grained to aphanitic groundmass.	46621	15.00-16.00	1.00	0.009	0.30	9.0	18.0	7.0	43.0	4.0
		ALTERATION- strong pervasive hematite, with less	46622	16.00-17.00	1.00	0.007	0.30	6.0	71.0	3.0	48.0	3.0
		microfracture controlled and wispy disseminated.	46623	17.00-18.00	1.00	0.009	0.30	9.0	20.0	7.0	77.0	3.0
		Moderate to strong pervasive chlorite, local fluid	46624	18.00-19.00	1.00	0.004	0.30	5.0	16.0	10.0	78.0	4.0
		streaming. Weak to moderate patchy and pervasive	46625	19.00-20.00	1.00	0.039	0.30	9.0	17.0	9.0	114.0	5.0
		sericite. Weak calcite stockwork commonly at about 70	46626	20.00-21.00	1.00	0.013	0.30	9.0	27.0	7.0	185.0	6.0
		degrees, weak local patchy silica, weak epidote, weak	46627	21.00-22.00	1.00	0.015	0.30	6.0	63.0	2.0	65.0	7.0
		calcite in stockwork. More abundant Biotites than	46628	22.00-23.00	1.00	0.007	0.30	8.0	22.0	4.0	83.0	7.0
		CL96-26. Lower contact=indistinct.	46629	23.00-24.00	1.00	0.029	0.30	12.0	34.0	2.0	70.0	5.0
<0.84-10.90>		Red, massive										
		Weak CL pervasive										
		Moderate MS pervasive										
		Strong HE pervasive										
		Strong pervasive hematite, medium to dark uniform red.										
<10.90-16.50>		calcite vein										
		macroveins 40°										
		Calcite +/- quartz +/- chlorite +/- epidote ribboned										
		veins to 3cm., inconsistent at about 40 degrees, one										
		per meter.										
<12.80-14.40>		Broken Core										
		gouge 10°										
		Weak broken core, medium grained gouge to 2mm. at 10										
		degrees to core axis, moderate limonite fracture fill.										
<15.20-15.70>		Moderate SI patches										
		Strong HE pervasive										
		Strong pervasive hematite, with moderate patchy										
		silica.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<16.40-23.75>		Moderate HE wispy Moderate hematite stockwork; microfracture controlled causing autobrecciated appearance.										
<23.75-26.00>		Chlorite Streaming sheeting 30° Weak SI patches Strong CL SHEETED Strong HE patches Moderate to strong chlorite streaming with patchy hematite and weak patchy silica, chlorite streaming +/- hematite, irregular at about 20 degrees.	46630 46631	24.00-25.00 25.00-26.00	1.00 1.00	0.145 0.011	0.30 0.30	13.0 10.0	40.0 52.0	6.0 5.0	71.0 118.0	7.0 4.0
<26.00-26.10>		Hematite chlorite calcite vein macroveins 30° Ribboned, weakly limonitic calcite/chlorite/hematite vein at about 30 degrees.										
<30.00-35.30>		Biotite Hbl Fdsp xtalline Dark red, crystalline Weak SI patches Strong HE pervasive Dark red BHfl with 15% euhedral Biotite phenos to 4mm., strong uniform pervasive hematite; weak patchy silica, strong silica from 34.75 to 35.05m.	46632 46633 46634 46635 46636 46637 46638	26.00-27.00 27.00-28.00 28.00-29.00 29.00-30.00 30.00-31.00 31.00-32.00 32.00-33.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.003 0.001 0.001 0.002 0.001 0.001 0.006	0.30 0.30 0.30 0.30 0.30 0.30 0.30	8.0 6.0 4.0 6.0 5.0 5.0 5.0	5.0 13.0 37.0 18.0 10.0 16.0 20.0	4.0 4.0 3.0 3.0 6.0 6.0 2.0	121.0 68.0 76.0 122.0 55.0 49.0 44.0	5.0 7.0 5.0 4.0 3.0 3.0 3.0
<34.00-36.00>		Broken Core gouge 30° Gougy limonitic slips to 2mm., fine grained gouge; 2 per meter, from 20 to 30 degrees. Otherwise competent rock.	46639 46640 46641	33.00-34.00 34.00-35.00 35.00-36.00	1.00 1.00 1.00	0.039 0.012 0.001	0.30 0.30 0.30	5.0 5.0 8.0	34.0 14.0 11.0	2.0 9.0 4.0	52.0 232.0 122.0	4.0 3.0 3.0
<36.65-37.50>		Chlorite Streaming sheeting 90°. Intense CL SHEETED Intense chloritic streaming at about 90 degrees, hematite absent, weak broken core near lower contact.	46642	36.00-37.00	1.00	0.009	0.30	13.0	146.0	7.0	54.0	3.0
41.43	48.70	Hornblende Feldspar xtalline Redish-green Strong CL pervasive Weak MS pervasive Weak MT pervasive Moderate KS pervasive Moderate HE wispy Weak PY phenocrystal replacement Weak CV stockwork	46643 46644 46645 46646 46647 46648 46649 46650 46651	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	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.021 0.011 0.019 0.012 0.017 0.026 0.019 0.020 0.092	0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30	8.0 7.0 10.0 7.0 8.0 16.0 13.0 13.0 35.0	122.0 83.0 74.0 103.0 74.0 134.0 60.0 185.0 259.0	3.0 3.0 2.0 4.0 6.0 166.0 22.0 9.0 138.0	40.0 48.0 79.0 80.0 105.0 114.0 106.0 95.0 96.0	3.0 3.0 4.0 4.0 19.0 10.0 5.0 25.0 6.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Medium green HFxl with 25% dark green subhedral hornblende needles to 2mm., fine grained matrix. ALTERATION- strong pervasive chlorite, moderate microfracture controlled hematite, with less pervasive, weak pervasive light green sericite. Weak pervasive magnetite near lower contact. Porphyry replacing phenocrysts.	46652	46.00-47.00	1.00	0.051	0.30	46.0	153.0	74.0	113.0	3.0
			46653	47.00-48.00	1.00	0.280	0.90	93.0	863.0	174.0	95.0	32.0
	<45.70-48.70>	Moderate MT coarse grained MINERALIZATION- 3% coarse grained to fine grained pyrite as irregular stringers and veins to 2cm., with less granular patches.										
	<45.70-48.70>	Weak MT pervasive Strong HE pervasive MINERALIZATION- 3% coarse grained to fine grained pyrite as irregular stringers and veins to 2cm., with less granular patches. ALTERATION- strong pervasive/patchy K-spar, weak pervasive magnetite.										
48.70	50.30	gouge Rubbly, gougy, rusty fault zone, strong limonite. Over 1m. of lost core.	46654	48.00-49.00	1.00	0.430	0.40	448.0	658.0	2170.0	141.0	3.0
50.30	59.20	Hornblende Feldspar xtalline Redish-green, mottled, crystalline vein 60° Frs=5/m :Vns =20/m Moderate SI patches Strong CL pervasive Intense MT vein Strong KS pervasive Intense HE vein Moderate CV stockwork H-zone. Mottled red green to gray green HFxl with 20% commonly cryptic light green Hornblende phenos to 2mm. very fine grained matrix. Usually no discernable phenocrysts. ALTERATION- strong pervasive K-spar. massive hematite/magnetite to 60cm., strong pervasive wispy chlorite. Moderate, locally strong patchy silica.	46655	49.00-50.58	1.58	5.370	3.70	201.0	1861.0	1180.0	238.0	164.0
			46656	50.58-51.14	0.56	8.910	3.70	141.0	629.0	324.0	169.0	105.0
			46657	51.14-52.00	0.86	0.690	0.30	128.0	518.0	190.0	134.0	3.0
			46658	52.00-53.00	1.00	10.750	0.70	94.0	150.0	194.0	81.0	10.0
			46659	53.00-54.00	1.00	2.860	0.30	99.0	838.0	182.0	143.0	3.0
			46660	54.00-55.00	1.00	1.120	0.60	41.0	980.0	44.0	307.0	61.0
			46661	55.00-56.00	1.00	0.320	1.20	11.0	932.0	64.0	452.0	115.0
			46662	56.00-57.00	1.00	0.160	0.30	38.0	296.0	57.0	290.0	21.0
			46663	57.00-58.00	1.00	0.023	0.30	24.0	259.0	19.0	208.0	14.0
			46664	58.00-59.00	1.00	0.009	0.30	30.0	88.0	37.0	125.0	11.0
	<50.58-51.16>	massive hematite vein 60° Weak SI patches Intense MT vein Intense HE vein										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Massive hematite with steel gray magnetite, weak patchy quartz and calcite.										
<52.55-53.18>		Intense MT vein Intense HE vein Irregular massive hematite/magnetite vein, steel gray magnetite. Irregular orientation.										
<53.50-55.00>		Weak MT wispy 1 % chalcopyrite - disseminated MINERALIZATION- 1% fine grained disseminated calcopyrite, 2% wispy pyrite.										
<53.50-55.00>		Moderate SI patches Moderate HE wispy MINERALIZATION- 1% fine grained disseminated calcopyrite, 2% wispy pyrite. ALTERATION- moderate patchy silica, wispy hematite.										
<55.50-56.70>		Weak MT disseminated MINERALIZATION- 2% pyrite as medium grained disseminated and irregular stringers.										
<55.50-56.70>		Strong SI patches Moderate HE wispy Strong patchy silica, moderate wispy hematite. MINERALIZATION- 2% pyrite as medium grained disseminated and irregular stringers.										
<57.00-59.20>		Strong CL pervasive Weak HE wispy Strong pervasive chlorite, increasing bleaching towards lower contact, weak wispy hematite.										
59.20	63.76	Broken Core Moderate to rubbly broken core within HFxl. D.A.P.- 50.3 to 59.2m., commonly fine grained gouge, usually rusty.	46665 46666 46667 46668	59.00-60.00 60.00-61.00 61.00-62.00 62.00-63.00	1.00 1.00 1.00 1.00	1.560 0.785 0.260 1.450	0.60 1.40 0.70 1.20	72.0 33.0 105.0 553.0	690.0 2195.0 890.0 766.0	133.0 116.0 180.0 746.0	752.0 1039.0 233.0 181.0	3.0 3.0 50.0 118.0
<60.25-60.40>		massive hematite vein 40° 3cm. massive hematite/magnetite vein at about 40 degrees.										
<61.00-63.76>		vein 40° Moderate SI patches Strong CL SHEETED										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong HE macroveins										
		MINERALIZATION- 5% coarse grained pyrite, generally in granular patches or veins with hematite +/- silica and pyrite veins to 3cm., rusted. 2 per meter. Trace calcopyrite and limonite fracture fill. ALTERATION- moderate patchy silica, strong sheeted chlorite.										
63.76	72.32	Hornblende Feldspar xtalline	46669	63.00-64.00	1.00	2.280	0.90	100.0	1801.0	256.0	226.0	131.0
		Green, mottled	46670	64.00-65.00	1.00	2.470	2.80	253.0	4398.0	504.0	197.0	40.0
		Frs=5/m :Vns =30/m	46671	65.00-66.00	1.00	0.150	0.90	156.0	1497.0	380.0	146.0	3.0
		Strong CL SHEETED	46672	66.00-67.00	1.00	0.210	0.60	725.0	1247.0	439.0	271.0	3.0
		Trace CB stockwork	46673	67.00-68.00	1.00	0.575	3.30	1593.0	2757.0	1661.0	349.0	3.0
		Strong KS pervasive	46674	68.00-69.00	1.00	1.280	0.30	161.0	420.0	205.0	218.0	15.0
		Moderate HE pervasive	46675	69.00-70.00	1.00	0.038	0.70	74.0	793.0	237.0	124.0	3.0
		Medium to dark green mottled HFxl, to reddish green.	46676	70.00-71.00	1.00	0.041	0.30	67.0	106.0	49.0	121.0	4.0
		No observable phenocrysts, fine grained matrix.	46677	71.00-72.00	1.00	0.405	0.30	421.0	132.0	383.0	293.0	3.0
		Intense pervasive chlorite and chloritic streaming.	46678	72.00-72.32	0.32	8.850	1.40	800.0	381.0	908.0	375.0	10.0
		Weak to strong pervasive hematite, weak to moderate patchy silica. Trace calcite stockwork.										
		MINERALIZATION- trace to 1% disseminated pyrite.										
<63.77-65.00>		D.A.P. 61.0 to 63.76										
<67.36-72.32>		?? MT disseminated										
		MINERALIZATION- trace to 1% disseminated pyrite.										
<67.36-67.55>		massive hematite										
		Auto brecciated										
		Massive to semi-massive hematite with steel gray magnetite. Autobrecciated appearance.										
<72.32-73.30>		vein 20°	46679	72.32-73.30	0.98	23.500	5.10	860.0	1864.0	1012.0	237.0	3.0
		Weak SI patches										
		Intense MT vein										
		Intense HE vein										
		Trace SE microveins										
		Massive hematite with steel gray magnetite. Weak patchy silica, trace specularite within veins.										
		MINERALIZATION- trace visible gold.										
<72.32-73.30>		MINERALIZATION- trace of visible gold.										
73.30	85.50	Hornblende Feldspar xtalline	46680	73.30-74.00	0.70	0.030	0.30	1638.0	29.0	884.0	248.0	4.0
		Fine grained, green, mottled	46682	74.00-75.00	1.00	0.022	0.50	267.0	542.0	161.0	131.0	3.0
		sheeting 40°:contact 80°	46683	75.00-76.00	1.00	0.054	0.30	225.0	293.0	184.0	202.0	3.0
		Frs=12/m :Vns =100/m	46684	76.00-77.00	1.00	0.009	0.30	33.0	76.0	3.0	87.0	3.0
		Strong CL SHEETED	46685	77.00-78.00	1.00	0.015	0.30	24.0	18.0	2.0	80.0	3.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Moderate MS pervasive	46686	78.00-79.00	1.00	0.230	0.30	40.0	164.0	8.0	81.0	3.0
	Moderate KS pervasive	46687	79.00-80.00	1.00	1.480	1.00	173.0	101.0	111.0	523.0	3.0
	Weak HE wispy	46688	80.00-81.00	1.00	2.960	1.00	128.0	971.0	107.0	375.0	4.0
	Medium to dark green HFx1, grading into HBFl near	46689	81.00-82.00	1.00	0.195	0.30	66.0	209.0	37.0	127.0	9.0
	lower contact, 25% dark green subhedral Hornblende	46690	82.00-83.00	1.00	0.032	0.30	44.0	289.0	74.0	108.0	3.0
	needles to 3mm., often translucent, light gray	46691	83.00-84.00	1.00	0.011	0.30	28.0	137.0	43.0	73.0	3.0
	subhedral Biotite? phenos strong at about 83.2m.	46692	84.00-85.50	1.50	0.045	0.30	32.0	175.0	150.0	93.0	6.0
	fragment. Strong sheeted and pervasive chlorite and										
	chlorite streaming, commonly at about 40 degrees,										
	moderate pervasive sericite, K-spar, weak stockwork										
	calcite. Weak to absent locally wispy hematite with										
	patchy silica. Lower contact= sericite/calcite										
	sheeting at about 80 degrees.										
<74.00-78.00>	Chlorite Streaming										
	sheeting 40°										
	Strong CL SHEETED										
	Strong chlorite streaming causing brecciated										
	appearance, irregular at about 40 degrees.										
<78.00-78.70>	Broken Core										
	Moderate broken core, weak bleaching, weak limonite										
	fracture fill.										
<79.80-81.30>	MINERALIZATION- 0.3% calcopyrite, 0.5% pyrite.										
<79.80-81.30>	Weak SI patches										
	Moderate MT pervasive										
	Moderate HE patches										
	MINERALIZATION- 0.3% calcopyrite, 0.5% pyrite.										
	ALTERATION- weak to moderate pervasive magnetite,										
	moderate hematite as pervasive patches with weak										
	silica.										
<83.20-85.50>	Biotite Hbl Fdsp xtalline										
	Green, mottled										
	Medium green BHFl with 10 to 15% subhedral, light gray										
	Biotite phenos to 4mm.										
<85.50-101.90>	Gray, porphyritic	46693	85.50-87.00	1.50	0.175	0.30	28.0	229.0	109.0	89.0	4.0
	Moderate SI pervasive	46694	87.00-88.50	1.50	0.120	0.30	14.0	130.0	60.0	106.0	9.0
	Weak CL wispy	46695	88.50-90.00	1.50	0.260	0.30	10.0	55.0	32.0	81.0	16.0
	Strong MS pervasive	46696	90.00-91.50	1.50	0.057	0.30	18.0	128.0	69.0	102.0	31.0
	Weak QV microveins	46697	91.50-93.00	1.50	0.050	0.30	17.0	124.0	188.0	150.0	19.0
	Moderate CV microveins	46698	93.00-94.50	1.50	0.047	0.30	19.0	94.0	138.0	102.0	8.0
	Medium gray BHFl with 5 to 10 % euhedral, pink to	46699	94.50-96.00	1.50	0.074	0.30	14.0	128.0	85.0	96.0	8.0
	cream Biotite phenos to 4mm., decreasing towards lower	46701	96.00-97.50	1.50	0.019	0.30	30.0	98.0	212.0	117.0	6.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		contact, 25 to 30% cream to light gray sub to euhedral Hornblende needles to 3mm. very fine grained to aphanitic matrix. ALTERATION- moderate pervasive silica, strong pervasive, weak wispy black chlorite?	46702	97.50-99.00	1.50	0.012	0.30	14.0	30.0	251.0	103.0	9.0
			46703	99.00-100.50	1.50	0.006	0.30	4.0	23.0	110.0	155.0	13.0
			46704	100.50-101.80	1.30	0.040	0.30	11.0	13.0	56.0	104.0	3.0
		<91.00-97.00> Strong MT wispy MINERALIZATION- 3 to 5% wispy disseminated pyrite and irregular stringers.										
		<91.00-97.00>MINERALIZATION- 3 to 5% wispy disseminated pyrite and irregular stringers.										
		<92.80-93.30> Broken Core Strong angular broken core, trace gouge, weak limonite fracture fill.										
		<96.80-101.00> :Vns =100/m Strong QC microveins Strong conjugate? quartz/calcite vein at about 60 degrees, inconsistently. Usually 3mm. wide, 100 per meter. Local iron-carbonate.										
101.90	104.00	mudstone Aphanitic, dark black, laminated bedding 50° Frs=5/m :Vns =2/m Black to dark green laminated (bedde) mudstone cross cut by small light green patchy ser altered HFxl dykes to 2cm. ALTERATION- moderate patchy sericite, wea calcite veins to 2cm; 1 per meter. Lower contact=moderate gougy fault zone.	46705	101.80-103.00	1.20	0.009	0.30	24.0	157.0	34.0	109.0	4.0
			46706	103.00-104.00	1.00	0.003	0.30	18.0	117.0	164.0	76.0	8.0
104.00	113.00	Biotite Hbl Fdsp xtalline Gray, porphyritic microveins 80° Frs=8/m :Vns =6/m Moderate SI pervasive Weak CL wispy Strong MS pervasive Moderate QC microveins Medium gray to green-gray BHFl with 10% cream to pink euhedral Biotite? Augite? phenos to 4mm., 25% eu to subhedral Hornblende laths and needles to 3mm., very fine grained to aphanitic matrix. ALTERATION- strong pervasive sericite, moderate patchy silica, also veins to 1cm. with calcite, 6 per meter. Weak wispy black chlorite.	46707	104.00-105.50	1.50	1.305	1.00	15.0	73.0	312.0	154.0	54.0
			46708	105.50-107.00	1.50	0.025	0.50	9.0	78.0	27.0	71.0	4.0
			46709	107.00-108.50	1.50	0.018	0.30	7.0	27.0	24.0	62.0	3.0
			46710	108.50-110.00	1.50	0.033	0.30	12.0	36.0	31.0	73.0	5.0
			46711	110.00-111.50	1.50	0.009	0.30	7.0	16.0	12.0	81.0	3.0
			46712	111.50-113.00	1.50	0.005	0.30	7.0	11.0	11.0	74.0	6.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<104.00-105.70> Weak MT wispy MINERALIZATION- 2% wispy pyrite.										
		<104.00-105.70> volcaniclastics Broken, auto brecciated foliated 40° Autobrecciated BHFl with 50% subrounded BHFl fragments to 3cm., slightly elongated, foliated at about 40 degrees, sericitic BHFl? matrix. Moderate angular broken core. 2% gouge. MINERALIZATION- 2% wispy pyrite.										
113.00	116.00	Broken Core Frs=100/m Gougy, strongly to rubbly broken core. Up to 1cm. gouge seems within BHFl. D.A.P.- 104 to 113m.	46713 46714	113.00-114.50 114.50-116.00	1.50 1.50	0.007 0.011	0.30 0.30	7.0 7.0	30.0 25.0	33.0 22.0	73.0 79.0	12.0 11.0
116.00	116.74	volcaniclastics Greenish-gray, porphyritic Frs=20/m :Vns =5/m Moderate SI pervasive Weak CL wispy Strong MS pervasive Moderate QC microveins Medium green to gray BHFl, D.A.P.- 104 to 113m.	46715	116.00-116.74	0.74	0.031	0.30	6.0	29.0	18.0	85.0	14.0
(eoh)												

11/29/96

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-28

PROJECT: Clone	Date Commenced: 04/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-28	Date Completed: 05/07/96		Geotech by: DBL
LENGTH: 124.74	Core Diam: BQTK		

Collar Location

Latitude:	2105.89
Departure:	2016.26
Elevation:	1412.08

S U M M A R Y

0.00-0.51	CASING
0.51-19.75	Biotite Hbl Fdsp xtalline
19.75-20.25	Broken Core
20.25-37.00	Biotite Hbl Fdsp xtalline
37.00-37.80	Broken Core
37.80-46.50	Biotite Hbl Fdsp xtalline *
46.50-56.60	Hornblende Feldspar xtalline
56.60-56.90	gouge
56.90-87.94	Hornblende Feldspar xtalline *
87.94-93.45	Semi-massive hematite ***
93.45-107.30	Biotite Hbl Fdsp xtalline
107.30-124.66	Hornblende Feldspar xtalline

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	270.00	-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	0.51	CASING Casing.										
0.51	19.75	Biotite Hbl Fdsp xtalline Fine grained, greenish-red, crystalline stockwork 80° Frs=8/m :Vns =20/m Trace SI patches Strong CL pervasive Moderate MS pervasive Strong KS pervasive Trace EP stockwork Strong HE pervasive Moderate QC stockwork Hematite stockwork zone medium green to red BHFl with 2 to 5% euhedral light gray to copper coloured Biotite phenos to 4mm., 20% dark green to light gray sub to anhedral Hornblende needles to 2mm., very fine grained groundmass. ALTERATION- strong to moderate pervasive hematite with less wispy and fracture controlled. Local, well developed solution fronts. Moderate pervasive sericite, moderate to strong pervasive chlorite, with moderate local chlorite streaming, moderate calcite +/- quartz +/- epidote stockwork at about 80 degrees. Hematite stockwork zone. <4.08-4.20> Semi-massive hematite sheeting 35° Intense HE SHEETED Semi-massive hematite, weak patchy hematite sheeted at about 35 degrees. <4.20-5.60> Strong HE pervasive Strong pervasive hematite. <5.80-6.80> Strong HE pervasive Strong pervasive hematite. <6.80-6.95> Chlorite Streaming sheeting 80° Intense CL SHEETED Strong HE SHEETED Intense chlorite/hematite sheeting at about 80 degrees, moderate broken core and weak chloritic gouge. Shear zone?	46716 46717 46718 46719 46720 46721 46722 46723 46724 46725 46726 46727 46728 46729 46730 46731 46732 46733	0.51-2.00 2.00-3.00 3.00-4.00 4.00-5.00 5.00-6.00 6.00-7.00 7.00-8.00 8.00-9.00 9.00-10.00 10.00-11.00 11.00-12.00 12.00-13.00 13.00-14.00 14.00-15.00 15.00-16.00 16.00-17.00 17.00-18.00 18.00-19.00	1.49 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 1.00 1.00 1.00 1.00	0.005 0.003 0.003 0.022 0.095 0.014 0.002 0.002 0.003 0.005 0.009 0.008 0.004 0.007 0.007 0.007 0.003 0.006	0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30	5.0 4.0 4.0 19.0 7.0 8.0 9.0 4.0 5.0 7.0 7.0 7.0 10.0 8.0 8.0 7.0 6.0 8.0	128.0 53.0 15.0 38.0 11.0 17.0 19.0 25.0 23.0 26.0 21.0 23.0 12.0 12.0 47.0 25.0 76.0 85.0	6.0 3.0 2.0 7.0 2.0 12.0 4.0 5.0 4.0 3.0 7.0 8.0 15.0 6.0 2.0 2.0 8.0 6.0	66.0 42.0 53.0 129.0 126.0 59.0 70.0 45.0 39.0 37.0 41.0 46.0 45.0 86.0 40.0 37.0 31.0 31.0	7.0 4.0 3.0 3.0 3.0 8.0 3.0 6.0 4.0 4.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<7.60-8.20>		Strong HE pervasive Strong pervasive hematite.										
<8.20-11.70>		calcite vein microveins 50° Moderate HE wispy Calcite +/- weak epidote +/- chlorite +/- quartz in veins to 3cm, generally 8mm. at about 50 degrees. Moderate wispy disseminated hematite.										
<12.80-14.30>		Strong HE SHEETED Strong irregular hematic sheeting, weak patchy silica.										
<17.40-19.75>		Moderate HE pervasive Moderate pervasive with less wispy microfracture controlled hematite.										
19.75	20.25	Broken Core Dark green vein 50° Rusty, rubbly fault zone within light green bleached BHFl quartz/calcite/chlorite vein, 2.5cm. at about 50 degrees to lower contact.	46734	19.00-20.00	1.00	0.003	0.30	8.0	30.0	6.0	58.0	3.0
20.25	37.00	Biotite Hbl Fdsp xtalline	46735	20.00-21.00	1.00	0.020	0.30	12.0	17.0	17.0	62.0	6.0
		Red, mottled, crystalline	46736	21.00-22.00	1.00	0.014	0.30	9.0	9.0	4.0	148.0	3.0
		Frs=8/m :Vns =100/m	46737	22.00-23.00	1.00	0.006	0.30	10.0	4.0	6.0	202.0	6.0
		Strong SI pervasive	46738	23.00-24.00	1.00	0.007	0.30	9.0	9.0	6.0	160.0	3.0
		Weak CL pervasive	46739	24.00-25.00	1.00	0.006	0.30	8.0	18.0	8.0	101.0	5.0
		Weak MS pervasive	46740	25.00-26.00	1.00	0.007	0.30	9.0	8.0	4.0	101.0	7.0
		Strong KS pervasive	46741	26.00-27.00	1.00	0.004	0.30	6.0	16.0	6.0	143.0	8.0
		Intense HE pervasive	46742	27.00-28.00	1.00	0.010	0.30	11.0	18.0	6.0	137.0	4.0
		Moderate QC microveins	46743	28.00-29.00	1.00	0.011	0.30	11.0	5.0	5.0	102.0	5.0
		Weak H-zone? strong to intense pervasive hematite, within BHFl with 2 to 3% euhedral platy copper	46744	29.00-30.00	1.00	0.008	0.30	14.0	11.0	9.0	98.0	9.0
			46745	30.00-31.00	1.00	0.004	0.30	16.0	8.0	5.0	68.0	5.0
		coloured Biotite phenos to 4mm. Local cream Hornblende	46746	31.00-32.00	1.00	0.002	0.30	8.0	9.0	3.0	115.0	3.0
		phenos to 3mm. subhedral, otherwise ghost, very fine	46747	32.00-33.00	1.00	0.006	0.30	13.0	16.0	5.0	79.0	6.0
		grained to aphanitic matrix. ALTERATION- strong to	46748	33.00-34.00	1.00	0.014	0.30	12.0	27.0	5.0	65.0	7.0
		moderate pervasive and patchy silica, weak to strong	46749	34.00-35.00	1.00	0.009	0.30	19.0	8.0	4.0	70.0	3.0
		pervasive sericite, weak pervasive chlorite and veins	46750	35.00-36.00	1.00	0.160	0.30	43.0	20.0	7.0	76.0	12.0
		with calcite and specularite. Weak to absent	46751	36.00-37.00	1.00	0.015	0.30	12.0	16.0	7.0	78.0	8.0
		specularite with calcite and chlorite in irregular veins. May be strongly altered stockwork zone.										
<24.00-25.60>		Strong SI pervasive Intense HE pervasive Intense pervasive hematite, strong pervasive silica.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<25.20-29.50> spec/calcite/chlorite vein microveins 5°:microveins 50° Weak SE microveins Specularite/calcite/chlorite +/- quartz veins, irregular, but two weak sets at about 10 and 50 degrees, to 1cm., generally 3cm; 5 per meter.										
		<31.50-34.00> Strong SI pervasive Strong HE pervasive Strong pervasive silica, hematite.										
		<35.70-36.45> foliated 30° Intense MS pervasive Strong HE stockwork Intense patchy, pervasive apple-green sericite phenocrysts aligned (flow bedding) at about 30 degrees.										
37.00	37.80	Broken Core Broken foliated 80° Gougy fault zone with moderate angular broken core. Moderate chloritic foliation at about 80 degrees. Medium grained carbonate/chlorite rich gouge at about 37.60 to 37.80m.										
		<37.15-37.18>2cm. irregular coarse grained pyrite patch.										
37.80	46.50	Biotite Hbl Fdsp xtalline Fine grained, redish-green, crystalline Frs=14/m :Vns =40/m Weak SI patches Strong CL SHEETED Moderate MS pervasive Strong KS pervasive Moderate HE wispy Green, wispy red BHFl with 2% to trace euhedral, copper to light gray Biotite phenos to 4mm., 20% dark to light green, locally translucent Hornblende phenos, very fine grained to aphanitic matrix. ALTERATION-strong sheeted chlorite, moderate wispy disseminated hematite, less microfracture controlled. Weak local patchy silica, moderate pervasive sericite. Hematite stockwork zone.	46752	37.00-38.00	1.00	0.011	0.30	7.0	70.0	11.0	60.0	3.0
			46753	38.00-39.00	1.00	0.015	0.30	14.0	77.0	6.0	55.0	8.0
			46754	39.00-40.00	1.00	0.101	0.30	30.0	158.0	14.0	157.0	27.0
			46755	40.00-41.00	1.00	0.015	0.30	10.0	194.0	2.0	83.0	30.0
			46756	41.00-42.00	1.00	0.011	0.30	19.0	220.0	3.0	89.0	7.0
			46757	42.00-43.00	1.00	0.220	0.30	24.0	136.0	6.0	70.0	3.0
			46758	43.00-44.00	1.00	0.021	0.30	9.0	56.0	2.0	46.0	3.0
			46759	44.00-45.00	1.00	0.019	0.30	12.0	49.0	2.0	52.0	3.0
			46760	45.00-46.00	1.00	0.024	0.30	11.0	63.0	2.0	72.0	3.0
		<37.80-39.15> Weak MT disseminated										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		MINERALIZATION- 2% disseminated pyrite.										
		<37.80-39.15> Strong CL pervasive Weak HE disseminated Strong pervasive chlorite, weak disseminated hematite. MINERALIZATION- 2% disseminated pyrite.										
		<39.30-41.00> Broken Core Weak broken core, weak limonite fracture fill.										
		<42.30-43.40> Chlorite Streaming Weak SI patches Strong CL SHEETED Strong HE SHEETED Weak patchy silica; moderate chlorite/hematite sheeting causing autobrecciated appearance.										
46.50	56.60	Hornblende Feldspar xtalline Grayish-green, mottled, crystalline Frs=12/m :Vns =40/m Trace SI patches Strong CL pervasive Weak MS patches Moderate KS pervasive Moderate HE pervasive Weak CV stockwork Medium green to red green to gray green to red gray HFxl with 25% dark gray Hornblende subhedral needles to 1.5m very fine grained to aphanitic matrix. ALTERATION- strong pervasive chlorite, weak to moderate pervasive with less wispy disseminated and microfracture controlled hematite, moderate to absent patchy sericite. Weak calcite stockwork, hematite stockwork zone.	46761 46762 46763 46764 46765 46766 46767 46768 46769 46770	46.00-47.00 47.00-48.00 48.00-49.00 49.00-50.00 50.00-51.00 51.00-52.00 52.00-53.00 53.00-54.00 54.00-55.00 55.00-56.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.017 0.018 0.061 0.011 0.015 0.012 0.018 0.015 0.023 0.100	0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30	15.0 10.0 10.0 10.0 11.0 11.0 14.0 9.0 11.0 15.0	101.0 43.0 67.0 76.0 224.0 45.0 60.0 35.0 32.0 219.0	15.0 27.0 4.0 14.0 4.0 2.0 5.0 2.0 8.0 5.0	65.0 47.0 59.0 66.0 69.0 104.0 139.0 54.0 57.0 37.0	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0
		<46.50-50.00> Broken Core Green Strong CL SHEETED Moderate angular broken core, weak limonite fracture fill, strong irregular chlorite streaming, weak bleaching. No observable gouge.										
		<53.50-53.90> Weak SI patches Strong HE patches Strong patchy pervasive hematite, moderate patchy silica.										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<56.10-56.60>-		Broken-Core Strong angular broken core; weak limonite fracture fill.										
56.60	56.90	gouge Fractured gouge 40° Calcareous, cemented, gougy, fractured fault zone. Strong limonite fracture fill. Calcareous gouge at about 40 degrees.										
56.90	87.94	Hornblende Feldspar xtalline	46771	56.00-57.00	1.00	0.019	0.30	9.0	108.0	44.0	37.0	4.0
		Fine grained, grayish-green, mottled, massive	46772	57.00-58.00	1.00	0.008	0.30	8.0	98.0	19.0	42.0	3.0
		Frs=10/m :Vns =20/m	46773	58.00-59.00	1.00	0.016	0.30	7.0	35.0	4.0	49.0	3.0
		Trace SI patches	46774	59.00-60.00	1.00	0.053	0.30	10.0	253.0	8.0	52.0	5.0
		Strong CL pervasive	46775	60.00-61.00	1.00	0.008	0.30	12.0	182.0	43.0	68.0	4.0
		Moderate MS pervasive	46776	61.00-62.00	1.00	0.008	0.30	12.0	238.0	10.0	59.0	13.0
		Strong KS pervasive	46777	62.00-63.00	1.00	0.012	0.30	15.0	275.0	11.0	62.0	19.0
		Moderate HE wispy	46778	63.00-64.00	1.00	0.005	0.30	12.0	115.0	10.0	59.0	12.0
		Weak PY disseminated	46779	64.00-65.00	1.00	0.034	0.30	14.0	213.0	31.0	74.0	15.0
		Medium gray green, very fine grained HFxl with 20%	46780	65.00-66.00	1.00	0.340	0.30	6.0	76.0	2.0	71.0	3.0
		subhedral light gray to light green Hornblende phenos,	46781	66.00-67.00	1.00	0.008	0.30	9.0	58.0	8.0	59.0	3.0
		commonly cryptic. Moderate to weak wispy disseminated	46782	67.00-68.00	1.00	0.012	0.30	16.0	58.0	14.0	52.0	3.0
		and less pervasive and fracture controlled hematite,	46783	68.00-69.00	1.00	0.011	0.30	7.0	62.0	3.0	34.0	3.0
		strong pervasive K-spar. Local weak patchy silica,	46784	69.00-70.00	1.00	0.005	0.30	12.0	93.0	3.0	38.0	3.0
		weak hematite stockwork zone.	46785	70.00-71.00	1.00	0.012	0.30	9.0	60.0	15.0	49.0	3.0
<56.90-60.30>		Moderate HE pervasive Moderate wispy pervasive hematite, trace of malachite fracture fill.										
<64.00-67.00>		Chlorite Streaming Weak SI patches Strong CL SHEETED Moderate HE wispy Moderate wispy disseminated hematite, strong chlorite fluid streaming; irregular, trace patchy silica.										
<69.00-74.10>		Moderate irregular fluid streaming. No hematite.	46786	71.00-72.00	1.00	0.011	0.30	7.0	41.0	2.0	52.0	3.0
<74.70-79.00>		Weak MT disseminated	46787	72.00-73.00	1.00	0.008	0.30	6.0	66.0	22.0	49.0	3.0
		MINERALIZATION- 2% disseminated pyrite.	46788	73.00-74.00	1.00	0.007	0.30	9.0	94.0	11.0	35.0	18.0
<74.70-79.00>		Hematite chlorite calcite vein	46789	74.00-75.00	1.00	0.041	0.30	12.0	142.0	8.0	65.0	5.0
		stringer 20°	46790	75.00-76.00	1.00	0.047	0.30	14.0	104.0	10.0	77.0	3.0
		Moderate CL stringer	46791	76.00-77.00	1.00	0.022	0.30	12.0	78.0	17.0	90.0	3.0
		Weak MT stringer	46792	77.00-78.00	1.00	0.036	0.30	21.0	101.0	24.0	62.0	3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak HE pervasive	46793	78.00-79.00	1.00	0.030	0.30	19.0	122.0	19.0	43.0	3.0
		Moderate QC microveins										
		Weak hematite/calcite/chlorite (+/- magnetite), weak to moderate pervasive hematite, weak patchy silica. MINERALIZATION- 2% disseminated pyrite.										
	<76.20-77.70>	Broken Core										
		Weak to moderate angular broken core. Weak limonite fracture fill and calcite leaching.										
	<80.95-82.50>	Moderate SI patches	46794	79.00-80.00	1.00	0.011	0.30	7.0	78.0	3.0	34.0	4.0
		Weak HE wispy	46795	80.00-81.00	1.00	0.025	0.30	10.0	60.0	13.0	37.0	3.0
		Weak wispy hematite, moderate patchy silica.	46796	81.00-82.00	1.00	0.028	0.30	7.0	66.0	12.0	28.0	3.0
87.94	93.45	Semi-massive hematite	46797	82.00-83.00	1.00	0.011	0.30	9.0	32.0	15.0	33.0	3.0
		Fine grained, redish-gray, mottled, auto brecciated	46798	83.00-84.00	1.00	0.011	0.30	8.0	50.0	12.0	32.0	3.0
		Weak SI patches	46799	84.00-85.00	1.00	0.020	0.30	6.0	85.0	13.0	37.0	3.0
		Strong CL pervasive	46801	85.00-86.00	1.00	0.032	0.30	25.0	49.0	45.0	65.0	3.0
		Moderate MS pervasive	46802	86.00-87.00	1.00	0.023	0.80	160.0	393.0	199.0	215.0	3.0
		Strong MT vein	46803	87.00-88.00	1.00	0.560	1.20	603.0	465.0	747.0	424.0	3.0
		Strong KS pervasive	46804	88.00-89.00	1.00	4.320	0.50	1116.0	202.0	1402.0	654.0	3.0
		Intense HE vein	46805	89.00-89.76	0.76	0.605	0.30	612.0	160.0	747.0	346.0	3.0
		Trace SE wispy	46806	89.76-90.68	0.92	11.020	1.00	474.0	123.0	677.0	208.0	3.0
		Moderate PY patches	46807	90.68-92.00	1.32	0.620	0.40	300.0	529.0	441.0	137.0	5.0
		H-zone, mottled, weakly autobrecciated dark green *HFxl. D.A.P.- 56.90 to 87.94m, with intense irregular* massive hematite +/- steel gray magnetite and trace specularite.	46808	92.00-93.00	1.00	0.505	0.40	26.0	544.0	227.0	67.0	10.0
	<89.76-90.68>	massive hematite										
		vein 10°										
		Massive to semi-massive hematite/magnetite 5% pyrite as coarse grained granular patches. Irregular vein, possibly at about 10 degrees.										
	<90.68-93.00>	Strong MT coarse grained										
		MINERALIZATION- 1% disseminated hematite, 4% pyrite as coarse grained cubes to 1cm.										
	<90.68-93.00>	MINERALIZATION- 1% disseminated hematite, 4% pyrite as coarse grained cubes to 1cm.										
	<93.00-93.18>	Moderate MT coarse grained										
		MINERALIZATION- semi-massive coarse grained pyrite patch 30%, strong pervasive sericite.										
	<93.00-93.18>	semi-massive sulphides										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Strong MS pervasive										
		MINERALIZATION- semi-massive coarse grained pyrite										
		patch 30%, strong pervasive sericite.										
		<93.18-93.45>MINERALIZATION- 40% pyrite.										
		<93.18-93.45> hematite vein										
		vein 30°										
		4cm. magnetite/pyrite/hematite/calcite vein at about										
		30 degrees. MINERALIZATION- 40% pyrite.										
93.45	107.30	Biotite Hbl Fdsp xtalline	46809	93.00-94.00	1.00	0.320	0.30	35.0	479.0	216.0	56.0	15.0
		Fine grained, dark green, crystalline, massive	46810	94.00-95.00	1.00	0.019	0.30	14.0	161.0	80.0	41.0	8.0
		Strong CL pervasive	46811	95.00-96.00	1.00	0.017	0.30	12.0	100.0	52.0	46.0	6.0
		Moderate MS pervasive	46812	96.00-97.00	1.00	0.035	0.30	7.0	45.0	7.0	47.0	4.0
		Moderate KS pervasive	46813	97.00-98.00	1.00	0.015	0.30	14.0	66.0	18.0	60.0	3.0
		Weak PY disseminated	46814	98.00-99.50	1.50	0.069	0.30	14.0	130.0	14.0	71.0	3.0
		Weak QC stockwork	46815	99.50-101.00	1.50	0.084	0.40	22.0	129.0	34.0	112.0	12.0
		Dark green massive BHFl with 1 to 2% Biotite?	46816	101.00-102.50	1.50	0.360	0.40	41.0	193.0	57.0	122.0	5.0
		subhedral, light gray to copper to 3mm., often	46817	102.50-104.00	1.50	0.032	0.40	32.0	205.0	90.0	143.0	8.0
		taxitic. 30% light to dark green ? subhedral	46818	104.00-105.68	1.68	0.060	1.20	30.0	667.0	270.0	153.0	16.0
		Hornblende phenos to 2mm., fine grained to very fine	46819	105.68-107.00	1.32	0.190	0.60	48.0	71.0	347.0	174.0	30.0
		grained matrix. ALTERATION- strong pervasive chlorite,										
		commonly sheeted, moderate pervasive sericite, maybe										
		HFxl to BHFp transition phase. Gradational lower										
		contact.										
		<101.70-102.10> Chlorite Streaming										
		Intense CL SHEETED										
		Intense chlorite streaming, irregular orientation.										
		<103.50-103.68> calcite vein										
		vein 60°										
		30cm. calcite with lesser quartz, iron-carbonate and										
		chlorite at about 60 degrees.										
		<106.92-107.25> QUARTZ-CALCITE VEINS										
		macroveins 60°										
		Intense 1cm. quartz/calcite veins at about 60 degrees.										
107.30	124.66	Hornblende Feldspar xtalline	46820	107.00-108.50	1.50	0.056	0.70	46.0	177.0	276.0	147.0	22.0
		Fine grained, greenish-gray, crystalline, mottled	46821	108.50-110.00	1.50	0.047	0.60	40.0	174.0	62.0	130.0	17.0
		Frs=8/m :Vns =17/m	46822	110.00-111.50	1.50	0.041	0.60	37.0	180.0	69.0	149.0	13.0
		Weak SI patches	46823	111.50-113.00	1.50	0.047	1.10	35.0	134.0	78.0	165.0	23.0
		Weak CL pervasive	46824	113.00-114.50	1.50	0.210	1.00	53.0	243.0	154.0	147.0	25.0
		Strong MS pervasive	46825	114.50-116.00	1.50	0.030	0.70	45.0	224.0	153.0	99.0	7.0
		Moderate KS pervasive	46826	116.00-117.50	1.50	0.042	0.80	55.0	203.0	129.0	95.0	18.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Trace PY disseminated	46827	117.50-119.00	1.50	0.038	0.50	42.0	291.0	183.0	105.0	7.0
		Moderate CV stockwork	46828	119.00-120.50	1.50	0.065	1.10	34.0	182.0	112.0	74.0	21.0
		Medium green gray to medium gray HFxl with 20%	46829	120.50-122.00	1.50	0.040	0.40	24.0	159.0	128.0	86.0	3.0
		commonly cryptic subhedral Hornblende phenos to 2mm.,	46830	122.00-123.50	1.50	0.036	0.30	19.0	191.0	53.0	101.0	3.0
		fine grained to very fine grained matrix. ALTERATION-	46831	123.50-124.66	1.16	0.022	0.30	26.0	186.0	85.0	57.0	3.0
		strong pervasive sericite, weak to moderate pervasive										
		and fracture fill chlorite, moderate irregular calcite										
		stockwork, weak local pervasive silica. No observable										
		Biotite phenos; transition between chlorite and										
		sericite zones?										
<120.85-121.50>		rubbly fault zone										
		Strong angular broken core. Gougy foliation zone. 3%										
		gouge, weak bleaching.										
(eoh)												

11/29/96

Hole: CL96-28 GEOTECHNICAL DATA

From	TO	Measured Width	Recovery	RQD	Hardness
3.00	4.00	1.00	0	0	
4.00	5.00	1.00	0	0	
5.00	6.00	1.00	0	0	
7.00	5.00	-2.00	0	0	

HOMESTAKE MINING COMPANY — DRILL HOLE LOG — CL96-29

PROJECT: Clone	Date Commenced: 05/07/96	Contractor: JT THOMAS	Logged by: RJM
DRILL HOLE: CL96-29	Date Completed: 06/07/96		Geotech by: DBL
LENGTH: 182.88	Core Diam: BQTK		

Collar Location

Latitude:	2105.90
Departure:	2016.40
Elevation:	1412.03

S U M M A R Y

0.00-32.90	Biotite Hbl Fdsp xtalline
32.90-34.50	Broken Core
34.50-52.20	Biotite Hbl Fdsp xtalline
52.20-53.10	Broken Core
53.10-54.40	Biotite Hbl Fdsp xtalline
54.40-56.58	Broken Core
56.58-66.30	Biotite Hbl Fdsp xtalline
66.30-67.80	Broken Core
67.80-73.00	Biotite Hbl Fdsp xtalline
73.00-73.85	Chlorite Streaming
73.85-114.65	Biotite Hbl Fdsp xtalline
114.65-123.25	Biotite Hbl Fdsp xtalline
123.25-151.50	Biotite Hbl Fdsp xtalline
151.50-160.50	Biotite Hbl Fdsp xtalline
160.50-170.20	tuff
170.20-171.00	Broken Core
171.00-182.88	tuff

DOWN HOLE SURVEYS

Depth	Azim	Inclin	Method
0.00	270.00	-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	32.90	Biotite Hbl Fdsp xtalline	46832	0.00-1.00	1.00	0.006	0.30	3.0	17.0	11.0	114.0	3.0
		Redish-green, crystalline	46833	1.00-2.00	1.00	0.008	0.30	6.0	22.0	9.0	110.0	6.0
		Frs=8/m :Vns =40/m	46834	2.00-3.00	1.00	0.016	0.50	20.0	9.0	144.0	296.0	7.0
		Trace SI patches	46835	3.00-4.00	1.00	0.010	0.60	25.0	11.0	57.0	156.0	5.0
		Moderate CL pervasive	46836	4.00-5.00	1.00	0.003	0.30	3.0	29.0	9.0	120.0	6.0
		Moderate MS pervasive	46837	5.00-6.00	1.00	0.006	0.30	3.0	18.0	6.0	73.0	5.0
		Moderate KS pervasive	46838	6.00-7.00	1.00	0.003	0.30	4.0	17.0	7.0	45.0	3.0
		Trace EP microveins	46839	7.00-8.00	1.00	0.003	0.30	2.0	10.0	10.0	59.0	3.0
		Moderate HE wispy	46840	8.00-9.00	1.00	0.010	0.30	6.0	82.0	13.0	61.0	3.0
		Weak CV microveins	46841	9.00-10.00	1.00	0.003	0.30	2.0	84.0	17.0	116.0	13.0
		reddish-green BHFL with 2-8% euhedral copper to lt	46842	10.00-11.00	1.00	0.002	0.30	5.0	42.0	6.0	178.0	3.0
		grey platy biotite phenocrysts to 5mm; 20% lt to dk	46843	11.00-12.00	1.00	0.003	0.30	6.0	44.0	11.0	139.0	3.0
		green subhedral hbl laths and needles to 2mm; vfgr to	46844	12.00-13.00	1.00	0.010	0.30	8.0	7.0	8.0	28.0	3.0
		aphanitic matrix; ALT: moderate and locally strong	46845	13.00-14.00	1.00	0.006	0.30	7.0	8.0	34.0	28.0	3.0
		whispy disseminated and microfracture controled and	46846	14.00-15.00	1.00	0.003	0.30	7.0	7.0	13.0	49.0	3.0
		less strong pervasive hemitite; mod pervasive chl,	46847	15.00-16.00	1.00	0.003	0.30	4.0	15.0	17.0	47.0	5.0
		ser, K-spar; weak to mod stockworked and fracture fill	46848	16.00-17.00	1.00	0.005	0.30	4.0	11.0	26.0	95.0	3.0
		calcite; weak epidote; local patchy silica	46849	17.00-18.00	1.00	0.003	0.30	5.0	37.0	7.0	80.0	3.0
	<0.85-2.30>	Strong HE pervasive										
		strong pervasive hemitite										
	<6.55-6.75>	Chlorite Streaming										
		sheeting 80°										
		Strong CL SHEETED										
		Strong HE SHEETED										
		strong chl and hem; fol'n @ 80 deg										
	<7.15-7.65>	calcite vein										
		vein 5°										
		4cm wide ribboned hem/qtz/cc/ep vein @ 0-5 deg										
	<8.50-9.14>	Broken Core										
		gouge 20°										
		moderate broken core; weak gouge; fractures with gouge										
		coating generally @ 20 deg										
	<11.25-11.95>	fracturing 15°										
		moderate angular broken core; moderate bleaching;										
		strong limonite fracture fill; fractures commonly @ 15										
		deg										
	<14.50-14.63>	strong rubbly angular broken core; 1% fg gouge; weak										
		limonite fracture fill										
	<15.08-15.47>	Chlorite Streaming										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		sheeting 40°										
		Strong CL SHEETED										
		Strong HE SHEETED										
		strong chl/hem fluid streaming/braiding; commonly @ 40 deg; causing autobrecciated appearance										
<15.70-19.50>		Weak SI selvages	46850	18.00-19.00	1.00	0.002	0.30	4.0	75.0	2.0	91.0	3.0
		Moderate HE patches										
		weak to mod patchy silica as vein selveges up to 1 cm and halo around hem stringers										
<27.20-32.90>		Strong MS pervasive	46851	19.00-20.00	1.00	0.005	0.30	8.0	17.0	8.0	128.0	4.0
		Weak HE wispy	46852	20.00-21.00	1.00	0.014	0.30	13.0	19.0	11.0	83.0	3.0
		weak whispy ???; locally pervasive and disseminated	46853	21.00-22.00	1.00	0.005	0.30	7.0	9.0	11.0	45.0	3.0
		patches; moderate pervasive lt green sericite	46854	22.00-23.00	1.00	0.019	0.30	11.0	37.0	6.0	24.0	3.0
32.90	34.50	Broken Core	46855	23.00-24.00	1.00	0.036	0.30	10.0	48.0	8.0	31.0	4.0
		fracturing 20°	46856	24.00-25.00	1.00	0.014	0.30	15.0	111.0	6.0	47.0	4.0
		strongly bleached, rubbly fault zone within BHFL;	46857	25.00-26.00	1.00	0.006	0.30	10.0	16.0	9.0	69.0	5.0
		fractures inconsistent @ 20 deg; moderate limonite	46858	26.00-27.00	1.00	0.007	0.30	10.0	22.0	5.0	65.0	3.0
		fracture fill; local mg gouge	46859	27.00-28.00	1.00	0.002	0.30	2.0	36.0	4.0	17.0	3.0
34.50	52.20	Biotite Hbl Fdsp xtalline	46860	28.00-29.00	1.00	0.009	0.30	3.0	8.0	6.0	21.0	3.0
		Greenish-red, crystalline, broken	46861	29.00-30.00	1.00	0.003	0.30	7.0	104.0	11.0	25.0	3.0
		Frs=15/m :Vns =80/m	46862	30.00-31.00	1.00	0.095	0.30	10.0	30.0	10.0	23.0	3.0
		Weak SI patches	46863	31.00-32.00	1.00	0.004	0.30	9.0	56.0	4.0	36.0	3.0
		Moderate CL pervasive	46864	32.00-33.00	1.00	0.005	0.30	4.0	31.0	3.0	35.0	3.0
		Weak MS patches	46865	33.00-34.00	1.00	0.010	0.30	8.0	80.0	2.0	37.0	4.0
		Moderate KS pervasive	46866	34.00-35.00	1.00	0.022	0.30	9.0	26.0	17.0	32.0	3.0
		Strong HE pervasive	46867	35.00-36.00	1.00	0.015	0.60	26.0	15.0	159.0	235.0	8.0
		Weak CV stockwork	46868	36.00-37.00	1.00	0.019	0.30	8.0	162.0	61.0	37.0	5.0
		green-red BHFL with 5-10% euhedral platy copper	46869	37.00-38.00	1.00	0.014	0.30	6.0	31.0	8.0	55.0	3.0
		coloured biotite phenocrysts to 4mm; 20% subhedral	46870	38.00-39.00	1.00	0.001	0.30	6.0	15.0	4.0	58.0	5.0
		lt-dk green hbl laths and needles to 3mm; vfgr to	46871	39.00-40.00	1.00	0.006	0.30	7.0	16.0	19.0	62.0	14.0
		aphanitic matrix; ALT: strong pervasive with less	46872	40.00-41.00	1.00	0.006	0.30	6.0	66.0	9.0	51.0	7.0
		microfracture controlled stockwork ???;	46873	41.00-42.00	1.00	0.035	0.30	6.0	42.0	16.0	44.0	6.0
		moderate-strong pervasive chl; local mod-str patchy lt	46874	42.00-43.00	1.00	0.005	0.30	8.0	22.0	2.0	53.0	3.0
		green sericite; local mod pervasive and patchy silica;	46875	43.00-44.00	1.00	0.011	0.30	8.0	27.0	6.0	46.0	4.0
		weak calcite stockwork	46876	44.00-45.00	1.00	0.006	0.30	11.0	31.0	4.0	48.0	3.0
<35.80-36.25>		Moderate SI patches										
		Moderate HE pervasive										
		moderate patchy silica; moderate pervasive hem; weak H-zone										
<36.35-37.30>		Broken Core										
		moderate angular broken core; moderate bleaching and										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		limonite fracture fill; inconsistent fracture orientation										
<37.30-38.15>		foliated 40° Moderate CL foliated Moderate HE foliated moderate chlorite and hemitite; foliation @ 40 deg										
<38.15-39.00>		Broken Core fracturing 15° Intense HE vein moderate angular broken core; limonite covered fractures commonly @ 15 deg; local intense hem vein fragments to 5cm										
<44.30-44.70>		Strong SI pervasive Strong HE pervasive strong pervasive silica, pervasive hemitite										
<48.20-49.65>		Strong MS patches Strong HE pervasive strong patchy pervasive lt apple green sericite; mod-str pervasive and whispy hemitite stockwork	46877 46878 46879 46880	45.00-46.00 46.00-47.00 47.00-48.00 48.00-49.00	1.00 1.00 1.00 1.00	0.006 0.105 0.003 0.003	0.30 0.30 0.30 0.30	9.0 6.0 4.0 3.0	44.0 73.0 52.0 8.0	6.0 5.0 4.0 5.0	45.0 46.0 37.0 56.0	3.0 4.0 3.0 4.0
52.20	53.10	Broken Core rubbly angular bleached broken core within BHFL; strong limonite fracture fill; 2% gouge; inconsistent orientation of fractures	46881 46882 46883 46884	49.00-50.00 50.00-51.00 51.00-52.00 52.00-53.00	1.00 1.00 1.00 1.00	0.023 0.003 0.005 0.006	0.30 0.30 0.30 0.30	2.0 3.0 3.0 5.0	22.0 43.0 11.0 4.0	7.0 3.0 8.0 9.0	71.0 193.0 233.0 194.0	3.0 4.0 4.0 3.0
53.10	54.40	Biotite Hbl Fdsp xtalline Greenish-red, crystalline, mottled Frs=10/m :Vns =100/m Moderate SI patches Moderate CL pervasive Moderate MS pervasive Strong KS pervasive Strong HE pervasive BHFL D.A.P. as 34.50-52.20m	46885	53.00-54.00	1.00	0.005	0.30	5.0	13.0	10.0	156.0	3.0
<53.10-53.28>		Strong SI pervasive Strong HE pervasive strong perv silica and hemitite										
54.40	56.58	Broken Core Green strong broken core; sub-angular fragments; fractures with moderate limonite coating within BHFL; 5% tan	46886 46887	54.00-55.00 55.00-56.00	1.00 1.00	0.002 0.012	0.30 0.30	5.0 7.0	7.0 37.0	7.0 34.0	136.0 142.0	3.0 3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		coloured fg-mg gouge; inconsistent fracture orientation										
56.58	66.30	Biotite Hbl Fdsp xtalline	46888	56.00-57.00	1.00	0.040	0.30	5.0	12.0	19.0	46.0	5.0
		Grayish-red, crystalline, mottled	46889	57.00-58.00	1.00	0.020	0.30	7.0	18.0	19.0	42.0	4.0
		Frs=25/m :Vns =100/m	46890	58.00-59.00	1.00	0.014	0.30	7.0	16.0	25.0	52.0	3.0
		Weak SI patches	46891	59.00-60.00	1.00	0.005	0.30	7.0	6.0	18.0	85.0	4.0
		Weak CL wispy	46892	60.00-61.00	1.00	0.005	0.30	7.0	37.0	9.0	66.0	7.0
		Weak MS pervasive	46893	61.00-62.00	1.00	0.012	0.30	7.0	47.0	16.0	58.0	3.0
		Strong KS pervasive	46894	62.00-63.00	1.00	0.024	0.30	9.0	111.0	8.0	62.0	3.0
		Strong HE pervasive	46895	63.00-64.00	1.00	0.003	0.30	5.0	64.0	9.0	82.0	6.0
		Trace CV stockwork	46896	64.00-65.00	1.00	0.004	0.30	6.0	17.0	7.0	110.0	6.0
		med grey-red to med green-red BHFL with 10% euhedral copper to lt grey platy biotite phenocrysts to 4mm; 20% dk green subhedral hbl phenos to 2mm; vfgr to aphanitic matrix; ALT: strong pervasive K-spar, hem, with less whispy microfracture controle; weak patchy silica and ser; weak calcite stockwork										
	<57.50-58.10>	Moderate SI pervasive Strong HE pervasive moderate pervasive silica, strong pervasive hemitite										
	<58.10-58.95>	Broken Core strong broken core; mod-str limonite fracture fill; inconsistent fracture orientation										
	<59.82-61.10>	Moderate SI pervasive Strong KS pervasive Strong HE pervasive strong pervasive hem; moderate pervasive silica; strong pervasive K-spar; weak carbonate bleaching; 2% mg diss py										
	<61.60-62.06>	Chlorite Streaming foliated 40° Moderate CL SHEETED Strong MS pervasive Moderate HE wispy moderate irregular chl streaming; strong pervasive sericite; moderate whispy hemitite; foliated @ 40 deg										
	<62.10-66.20>	Broken Core weak to moderate angular broken core; fractures inconsistently oriented; weak local limonite fracture fill and carbonant leaching										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
<66.30-67.80>		rubbly broken core and fault zone; strong bleaching and moderate limonite fracture fill; 1% vfg rusty gouge; 70cm core lost or driller error with marker blocks; inconsistent fracture angles	46898	65.00-67.00	2.00	0.004	0.30	10.0	10.0	19.0	124.0	10.0
67.80	73.00	Biotite Hbl Fdsp xtalline	46899	67.00-68.00	1.00	0.008	0.30	10.0	14.0	13.0	81.0	9.0
		Fine grained, greenish-red, crystalline	46900	68.00-69.00	1.00	0.039	0.30	8.0	13.0	24.0	70.0	3.0
		Frs=7/m :Vns =100/m	46901	69.00-70.00	1.00	0.007	0.30	4.0	161.0	12.0	86.0	7.0
		Trace SI patches	46902	70.00-71.00	1.00	0.048	0.50	7.0	130.0	29.0	161.0	13.0
		Weak CL wispy	46903	71.00-72.00	1.00	0.012	0.30	12.0	23.0	11.0	133.0	14.0
		Strong KS pervasive	46904	72.00-73.00	1.00	0.009	0.30	9.0	18.0	8.0	120.0	5.0
		Strong HE pervasive										
		Weak CV stockwork										
		patchy red-green BHFL with 2-3% euhedral dk green to copper coloured biotite phenocrysts to 4mm; 20% dk to lt green hbl phenos to 2mm; vfg matrix; ALT: strong pervasive K-spar; str-mod pervasive hem; local str to intense pervasive apple green sericite; weak calcite stockwork										
<68.40-69.02>		Weak SI patches										
		Strong KS pervasive										
		Strong HE pervasive										
		strong pervasive hemitite and K-spar; weak-mod patchy silica										
<70.55-70.70>		trace disseminated cpy										
<70.70-73.00>		foliated 20°										
		Intense MS patches										
		Moderate HE wispy										
		Moderate CV microveins										
		intense patchy pervasive apple green sericite; mod whispy hemitite; mod sw calcite; moderate foliation @ 20 deg										
73.00	73.85	Chlorite Streaming										
		Auto brecciated										
		Intense CL SHEETED										
		Weak HE wispy										
		intense chl streaming causing autobrecciated appearance within BHFL; mod bleaching and limonite fracture fill; weak whispy hemitite										
73.85	114.65	Biotite Hbl Fdsp xtalline	46905	73.00-74.00	1.00	0.025	0.30	13.0	24.0	10.0	142.0	18.0
		Redish-green, crystalline	46906	74.00-75.00	1.00	0.046	0.30	13.0	24.0	19.0	122.0	16.0
		Frs=5/m :Vns =100/m	46907	75.00-76.00	1.00	0.270	0.30	33.0	30.0	21.0	148.0	10.0

FROM TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
	Weak SI patches	46908	76.00-77.00	1.00	0.305	0.80	126.0	17.0	58.0	271.0	7.0
	Moderate CL pervasive	46909	77.00-78.00	1.00	4.320	1.00	124.0	46.0	34.0	147.0	18.0
	Moderate MS pervasive	46910	78.00-79.00	1.00	0.081	0.30	100.0	31.0	11.0	122.0	4.0
	Moderate KS pervasive	46911	79.00-80.00	1.00	0.015	0.30	18.0	21.0	7.0	139.0	3.0
	Moderate HE pervasive	46912	80.00-81.00	1.00	0.029	0.30	66.0	36.0	12.0	253.0	8.0
	Moderate QV macroveins	46913	81.00-82.00	1.00	0.580	0.30	43.0	46.0	21.0	191.0	11.0
	Weak CV microveins	46914	82.00-83.00	1.00	0.007	0.30	9.0	25.0	8.0	79.0	3.0
	strong H-stockwork zone continued; patchy red-green	46915	83.00-84.00	1.00	0.006	0.30	5.0	43.0	11.0	51.0	3.0
	BHFL with 10-12% often taxitic biotite phenos to 5mm;	46916	84.00-85.00	1.00	0.022	0.30	7.0	23.0	7.0	48.0	3.0
	25% dk green sub-anhedral hbl phenocrysts to 2mm; vfg	46917	85.00-86.00	1.00	0.020	0.30	14.0	26.0	5.0	96.0	3.0
	to aphanitic matrix; ALT: str-mod pervasive to	46918	86.00-87.00	1.00	0.007	0.30	8.0	20.0	9.0	129.0	3.0
	microfracture controled whispy hem with veins to 3cm;	46919	87.00-88.00	1.00	0.018	0.30	8.0	17.0	9.0	52.0	3.0
	mod perv K-spar; weak-mod sericite; weak local patchy	46920	88.00-89.00	1.00	0.035	0.30	25.0	9.0	7.0	135.0	4.0
	silica; weak calcite stockwork; lower contact is	46921	89.00-90.00	1.00	0.004	0.30	11.0	15.0	9.0	99.0	4.0
	gradational	46922	90.00-91.00	1.00	0.010	0.30	5.0	40.0	7.0	102.0	3.0
<74.80-75.05>	hematite vein										
	vein 10°										
	2cm massive hemitite vein @ 10 deg										
<76.82-82.50>	foliated 30°										
	Weak SI patches										
	Moderate HE foliated										
	weak patchy silica; commonly foliated with moderate										
	hemitite @ 30 deg										
<78.60-78.70>	hematite vein										
	vein 30°										
	3cm massive hemitite vein @ 30 deg										
<85.00-95.25>	Moderate SI patches	46923	91.00-92.00	1.00	0.003	0.30	8.0	6.0	11.0	96.0	4.0
	Strong HE pervasive	46924	92.00-93.00	1.00	0.033	0.30	24.0	19.0	11.0	99.0	4.0
	strong pervasive hemitite; moderate patchy silica	46925	93.00-94.00	1.00	0.008	0.30	19.0	11.0	12.0	85.0	3.0
<86.70-86.90>	trace disseminated cpy										
<94.30-94.80>	Moderate MS patches										
	moderate patchy apple green sericite										
<95.40-95.80>	sheeting 50°	46926	94.00-95.00	1.00	0.013	0.30	33.0	14.0	9.0	107.0	4.0
	Strong CL pervasive										
	Moderate HE SHEETED										
	strong pervasive chl; mod hemitite fol'n @ 50 deg										
<100.70-101.60>	Strong CL pervasive	46927	95.00-96.00	1.00	0.008	0.30	23.0	19.0	6.0	171.0	6.0
	Strong HE pervasive	46928	96.00-97.00	1.00	0.104	0.40	31.0	28.0	14.0	181.0	5.0
	strong pervasive chl and hem	46929	97.00-98.00	1.00	0.120	0.30	32.0	56.0	19.0	188.0	3.0

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		<102.05-102.35> 1% py as cg granular patches	46930	98.00-99.00	1.00	0.290	0.30	79.0	12.0	10.0	338.0	3.0
		<102.58-104.50> Moderate SI patches	46931	99.00-100.00	1.00	0.061	0.30	32.0	27.0	10.0	179.0	3.0
		Strong CL pervasive	46932	100.00-101.00	1.00	0.016	0.30	4.0	160.0	9.0	101.0	8.0
		Moderate HE patches	46933	101.00-102.00	1.00	0.006	0.30	14.0	14.0	2.0	136.0	5.0
		mod patchy hem; str perv chl, mod patchy silica	46934	102.00-103.00	1.00	0.003	0.30	1.0	15.0	8.0	149.0	3.0
		<104.50-106.30> 1% patchy py, coarse to fine grained	46935	103.00-104.00	1.00	0.010	0.30	3.0	21.0	5.0	194.0	3.0
		<106.30-107.15> Chlorite Streaming	46936	104.00-105.00	1.00	0.011	0.30	10.0	37.0	7.0	105.0	3.0
		sheeting 65°	46937	105.00-106.00	1.00	0.021	0.40	16.0	148.0	24.0	136.0	19.0
		Trace SI patches	46938	106.00-107.00	1.00	0.014	0.30	14.0	20.0	2.0	142.0	3.0
		Intense CL SHEETED										
		Weak HE SHEETED										
		strong sheeted chl; weak sheeted hem +/- silica @ 65 deg										
		<107.50-110.40> sheeting 30°	46939	107.00-108.00	1.00	0.041	0.30	29.0	15.0	15.0	116.0	3.0
		Moderate SI patches	46940	108.00-109.00	1.00	0.028	0.40	12.0	263.0	13.0	87.0	15.0
		Strong CL pervasive	46941	109.00-110.00	1.00	0.013	0.30	12.0	30.0	8.0	87.0	3.0
		Moderate HE patches										
		strong perv chl; mod patchy and less sheeted hem @ 30 deg										
114.65	123.25	Biotite Hbl Fdsp xtalline	46942	110.00-111.00	1.00	0.032	0.30	14.0	61.0	5.0	88.0	3.0
		Dark green, crystalline	46943	111.00-112.00	1.00	0.580	0.30	16.0	171.0	14.0	91.0	3.0
		Frs=5/m :Vns =25/m	46944	112.00-113.00	1.00	0.058	1.30	54.0	902.0	52.0	141.0	5.0
		Trace SI selvages	46945	113.00-114.00	1.00	0.037	0.50	29.0	315.0	20.0	152.0	19.0
		Strong CL pervasive	46946	114.00-115.00	1.00	0.014	0.30	27.0	115.0	8.0	184.0	17.0
		Weak MS pervasive	46947	115.00-116.00	1.00	0.029	0.30	23.0	247.0	8.0	129.0	3.0
		Moderate KS pervasive	46948	116.00-117.00	1.00	0.042	0.30	12.0	129.0	4.0	108.0	12.0
		Weak HE wispy	46949	117.00-118.00	1.00	0.051	0.30	10.0	264.0	2.0	151.0	6.0
		Moderate CV stockwork	46950	118.00-119.00	1.00	0.120	0.30	9.0	199.0	2.0	129.0	3.0
		med to dark green BHFL with 5-10% platy biotite phenos	46951	119.00-120.50	1.50	0.022	0.30	13.0	67.0	6.0	78.0	3.0
		to 4mm; 20% lt to dk grn subhedral hbl needles to 3mm;	46952	120.50-122.00	1.50	0.020	0.30	17.0	66.0	4.0	99.0	5.0
		fg-vfg matrix; ALT: strong pervasive chl; weak to absent perv sericite; weak to absent microfracture controlled hem with good solution fluid fronts increasing toward upper contact; weak to absent silica as selveges to hem/chl; mod pervasive K-spar; mod irregular calcite stockwork										
		<114.65-118.15> Weak SI patches										
		Strong CL pervasive										
		Weak MS pervasive										
		Moderate HE wispy										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		moderate whispy stockwork and microfracture controlled hem; weak pervasive sericite										
		<118.15-123.25> Chlorite Streaming srong pervasive chl and irregular braided chl streaming, hemitite absent										
123.25	151.50	Biotite Hbl Fdsp xtalline	46954	122.00-123.50	1.50	0.020	0.30	15.0	72.0	2.0	83.0	3.0
		Medium grained, dark green, porphyritic	46955	123.50-125.00	1.50	0.018	0.30	15.0	70.0	11.0	73.0	14.0
		Frs=5/m :Vns =25/m	46956	125.00-126.50	1.50	0.016	0.30	5.0	48.0	6.0	115.0	3.0
		Strong CL pervasive	46957	126.50-128.00	1.50	0.017	0.30	2.0	36.0	2.0	124.0	3.0
		Weak HE wispy	46958	128.00-129.50	1.50	0.026	0.30	2.0	5.0	2.0	96.0	10.0
		Moderate CV stockwork	46959	129.50-131.00	1.50	0.017	0.30	3.0	42.0	2.0	101.0	27.0
		BHFL with 2% cg very chl/ser altered anhedral px? phenocrysts to 1.5 cm; 3% sub-euhedral lt grey to white biotite phenos to 3mm; 20% sub-euhedral lt grey to white hbl needles and laths to 3mm; fg matrix; ALT: strong perv chl; weak whispy hemitite with good solution fronts; mod irregular calcite stockwork; indistinct lower contact										
		*note - no good H-zone in hole 29, also no HFXL?										
		<131.00-151.50> Green, crystalline	46960	131.00-132.50	1.50	0.011	0.30	3.0	18.0	3.0	123.0	17.0
		Frs=8/m :Vns =25/m	46961	132.50-134.00	1.50	0.017	0.30	4.0	52.0	4.0	119.0	18.0
		Trace SI selvages	46962	134.00-135.50	1.50	0.017	0.30	4.0	61.0	3.0	121.0	5.0
		Strong CL pervasive	46963	135.50-137.00	1.50	0.013	0.30	4.0	31.0	4.0	124.0	33.0
		Weak MS pervasive	46964	137.00-138.50	1.50	0.053	0.30	4.0	89.0	4.0	113.0	50.0
		Trace HE wispy	46965	138.50-140.00	1.50	0.064	0.30	7.0	10.0	7.0	122.0	19.0
		Weak PY disseminated	46966	140.00-141.50	1.50	0.240	0.30	13.0	13.0	6.0	123.0	44.0
		Moderate CV stockwork	46967	141.50-143.00	1.50	0.009	0.30	8.0	12.0	15.0	131.0	18.0
		med to dk green BHFL with 3% to indistinct lt grey to	46968	143.00-144.50	1.50	0.037	0.40	7.0	9.0	7.0	168.0	12.0
		white biotite phenos to 3mm; 25% lt grey to white	46969	144.50-146.50	2.00	0.205	0.50	8.0	13.0	8.0	138.0	12.0
		subhedral hbl laths and needles; fg-vfg matrix; ALT:	46970	146.50-147.50	1.00	0.095	0.30	9.0	10.0	7.0	111.0	6.0
		strong pervasive chl decreacing towards lower contact;	46971	147.50-149.00	1.50	0.026	0.30	8.0	11.0	4.0	143.0	3.0
		weak to absent diss and microfracture controled	46972	149.00-150.50	1.50	0.110	0.30	17.0	8.0	6.0	118.0	8.0
		hemitite; weak to absent silica as selveges to chl/hem+/-mgt										
		<131.75-131.90> gouge weak fg chlorite and calcareous gouge with weak angular broken core										
		<133.03-133.10> microveins 30° minor 5Spy as 3mm stringers with hematite and silica @ 30 deg										
		<135.50-135.68> Moderate CL microveins										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		Weak MT microveins										
		Weak-HE—microveins										
		irregular mgt/chl/hem vein, 3mm with 2cm halo of										
		silica selvege @ low angle to core axis										
	<147.00-151.50>	2% fg-mg disseminated py, commonly with hemitite halos										
151.50	160.50	Biotite Hbl Fdsp xtalline	46973	150.50-152.00	1.50	0.048	0.30	17.0	11.0	14.0	132.0	5.0
		Fine grained, greenish-gray, crystalline	46974	152.00-153.50	1.50	0.047	0.40	40.0	10.0	43.0	141.0	35.0
		Frs=4/m :Vns =15/m	46975	153.50-155.00	1.50	0.023	0.30	32.0	8.0	34.0	180.0	54.0
		Weak SI patches	46976	155.00-156.00	1.00	0.120	0.30	11.0	6.0	38.0	412.0	151.0
		Moderate CL pervasive	46977	156.00-157.00	1.00	0.050	0.30	20.0	10.0	251.0	98.0	7.0
		Moderate MS pervasive	46978	157.00-158.00	1.00	0.025	0.70	28.0	13.0	135.0	227.0	18.0
		Moderate KS pervasive	46979	158.00-159.00	1.00	0.125	0.30	154.0	12.0	8750.0	88.0	3.0
		Weak CV patches	46980	159.00-160.00	1.00	0.075	0.30	122.0	10.0	4153.0	749.0	18.0
		transition from chl to ser alt zones; 5% to absent										
		sub-euhedral biotite phenocrysts to 3mm; 30% lt grn										
		translucent sub-anhedral hbl phenos to 2mm; phenocryst										
		content decreacing toward lower contact; ALT: mod										
		pervasive chl, ser, and K-spar; weak patchy calcite;										
		** weak s-zone mineralization near lower contact										
	<155.00-158.00>	>3% fg diss aspy with fewer granular patches; 2% fg										
		diss py; trace cpy; weak s-zone										
	<158.00-160.50>	Hornblende Feldspar xtalline										
		Auto brecciated										
		foliated strongly autobrecciated contact zone between										
		BHFL and HFXL; contact @ 50 deg; 7-8% fg diss py										
160.50	170.20	tuff	46981	160.00-161.00	1.00	0.035	0.50	34.0	17.0	137.0	262.0	25.0
		Aphanitic, auto brecciated, foliated	46982	161.00-162.50	1.50	0.010	0.30	35.0	24.0	82.0	151.0	4.0
		Strong MS SHEETED	46983	162.50-164.00	1.50	0.030	0.30	30.0	26.0	95.0	152.0	22.0
		Weak PY disseminated	46984	164.00-165.50	1.50	0.015	0.30	23.0	8.0	63.0	58.0	16.0
		Weak CV patches	46985	165.50-167.00	1.50	0.012	0.30	21.0	17.0	41.0	76.0	6.0
		sericitized HFXL?; strongly foliated and	46986	167.00-168.50	1.50	0.009	0.50	34.0	47.0	75.0	211.0	4.0
		autobrecciated; rare subhedral hbl or biotite phenos	46987	168.50-170.00	1.50	0.048	0.70	24.0	13.0	246.0	360.0	95.0
		to 2mm; fol'n irregular but commonly 50 deg; ALT:										
		strong sheeted ser; weak patchy K-spar; weak calcite										
		stockwork										
	<164.00-164.55>	Broken Core										
		foliated 80°										
		strong angular broken core; 2% fg gouge with sericitic										
		foliation @ 80 deg										
	<166.00-166.85>	Hornblende Feldspar xtalline										

FROM	TO	DESCRIPTION	Sample	INTERVAL	WIDTH	Au g/T	Ag ppm	Co ppm	Cu ppm	As ppm	Zn ppm	Pb ppm
		strongly autobrecciated HFXL with 35-40% subangular dk green-brown granular fragments within fg granular sericite matrix; fragments aligned in matrix supported subunit @ 35 deg										
		<169.60-170.00> Broken Core strong angular broken core, irregular orientation of fragments										
		<170.20-171.00> fracturing 65° gougy fault zone with strong broken core; 3% fg gouge; fractures commonly @ 65 deg										
171.00	182.88	tuff	46988	170.00-171.50	1.50	0.010	0.30	22.0	11.0	67.0	128.0	4.0
		Foliated, auto brecciated	46989	171.50-173.00	1.50	0.005	0.30	25.0	19.0	62.0	97.0	4.0
		Frs=10/m :Vns =20/m	46990	173.00-174.50	1.50	0.009	0.30	24.0	16.0	50.0	136.0	3.0
		Intense MS pervasive	46991	174.50-176.00	1.50	0.006	0.40	27.0	16.0	58.0	164.0	3.0
		Weak KS pervasive	46992	176.00-177.50	1.50	0.008	0.40	20.0	12.0	118.0	94.0	6.0
		Moderate PY disseminated	46993	177.50-179.00	1.50	0.007	0.70	27.0	11.0	114.0	248.0	3.0
		Weak CV patches	46994	179.00-180.50	1.50	0.028	0.80	20.0	9.0	141.0	207.0	9.0
		Weak QC microveins	46995	180.50-182.00	1.50	0.007	0.50	20.0	12.0	89.0	126.0	3.0
		strong ser altered HFXL; D.A.P. 160.5-170.2; highly irregular orientation of foliation	46996	182.00-182.88	0.88	0.018	0.30	26.0	9.0	63.0	178.0	3.0
		<174.00-182.88> 1% fg-mg diss py; often parallel with fol; trace possible diss po?										
(eoh)												

11/29/96

Hole: CL96-29 GEOTECHNICAL DATA Page: 1

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